

PHASE 1 PRELIMINARY RISK ASSESSMENT (PRA)

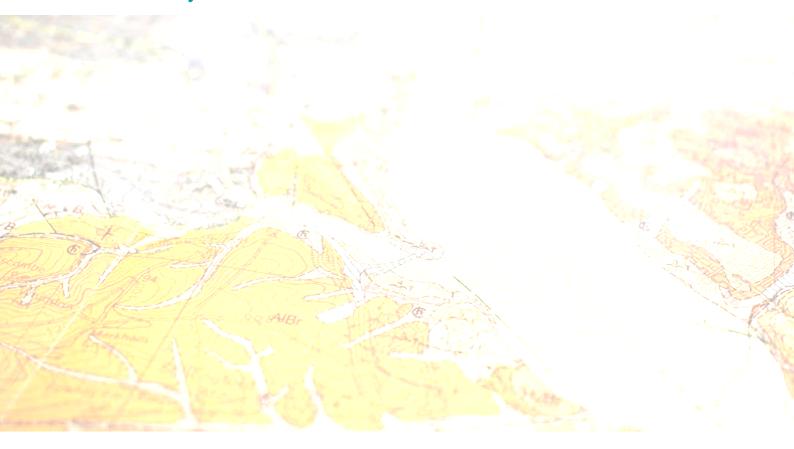
Hendravossen, Black Rock, Praze-an-Beeble

TR14 9PN

For Laurence Associates

Our Ref: GCL23524_P1

12 February 2024



Ground Consultants Limited
Unit 67, Clear Space, Dunveth Business Park, West Hill, Wadebridge
PL27 7FE
Tel: 01209 822922 | 07708 485373
Company Registration Number: 13561213









Project

Hendravossen, Black Rock, Praze-an-Beeble, TR14 9PN

Report Type

Phase 1 Preliminary Risk Assessment (PRA)

Client

Laurence Associates

Project Ref

GCL23524 P1

Date

12 February 2024

Prepared by

Frank Westcott

Technical Consultant

Checked by

Dan Jobson

Managing Director

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Where field investigations are carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.



Table of Contents

1 IN	ITRODUCTION	6
1.1	Commissioning	6
1.2	Existing Reports	6
1.3	Scope and Objectives	6
1.4	Limitations	6
1.5	Information Sources	6
1.6	Proposed Development	7
2 S l	ITE LOCATION AND DESCRIPTION	8
2.1	Site Location and Layout	8
2.2	Surrounding Area	8
2.3	Site Walkover Survey	8
2.4	Ecological Observations	9
2.5	Anecdotal Information	9
3 S I	ITE HISTORY	10
3.1	Historical Map Review	
3.2	Site History Summary	11
3.3	UXO Risk	11
3.4	Nearby Planning Applications	
4 G	EOLOGICAL & GEOTECHNICAL SETTING	
4.1	Geological Setting	12
4.2	Borehole Records	
4.3	Anticipated Geological Sequence	12
4.4	Potential for Ground Instability	
4.5	Mining, Ground Workings & Natural Cavities	13
4.6	Groundwater	
5 E l	NVIRONMENTAL, HYDROLOGICAL & HYDROGEOLOGICAL SETTING	
5.1	Hydrology & Hydrogeology	14
5.2	Environmental Setting	
6 P I	RELIMINARY CONCEPTUAL MODEL	
6.1	Introduction	
6.2		
6.3	Preliminary Conceptual Site Model Matrix	
	ONCLUSIONS AND RECOMMENDATIONS	
7.1	Geotechnical Considerations	
7.2	Conclusions	
7.3	Recommendations	
X 5	FFFRENCES	21



Figures	Appendices
2.1 Site Location Plan (north site)	A Site Photographs
2.2 Site Location Plan (south site)	B Environmental Data
	C Historical Mapping
	D UXO Risk

2.1 Surrounding Land Use 3.1 Historical Map Review 4.1 Anticipated Geological Sequence 4.2 Unstable Ground Risk Summary 5.1 Overview of the Hydrological and Hydrogeological Setting 5.2 Environmental Setting 6.1 Classification of Probability 6.2 Classification of Consequence 6.3 Risk Classification Matrix 6.4 Risk Categories 6.5 Potential Sources of Contamination 6.6 Preliminary Conceptual Site Model



	Executive Summary		
Commissioning	Ground Consultants Limited (GCL) were commissioned by Laurence Associates on behalf of their Client to undertake a Phase I Preliminary Risk Assessment at the site known as 'Hendravossen, Black Rock, Praze-an-Beeble, TR14 9PN.' GCL were formally instructed to proceed via email on the 14th November 2021.		
Development Proposals	It is proposed to change the use of an agricultural building to a dwelling, and to convert a series of barns into residential dwellings. Separate planning applications are expected to cover two adjoining application sites, identified in this report as the 'north site' (change of use) and the 'south site' (conversion). The current report covers both sites and is intended to support both applications. Where the report text refers to 'the site' it refers to both adjoining sites.		
Site History	On Site: The site has contained agricultural buildings since the earliest mapping, with changes of layout over the years.		
	Off Site: A farm house has been located 10m west of the site since the earliest mapping. The remainder of the surrounding area has remained in agricultural use.		
Geology	The geological map shows no superficial deposits to be present on site.		
	The geological map indicates that the site is underlain by the S Devonian age formed between 407.6 and 393.3 million years ago this unit as "Medium to thick beds (1-4m) of fine- to medium-grained and coarsening upwards with thin interbedded grey mudstone and s	. The BGS describes sandstone, thickening	
Conceptual Site	Source	Risk Rating	
Model Summary	On Site: Radon Gas	High	
	On Site: Heavy Metals	Low	
Recommendations	No recommendation is made concerning Phase II contamination inv	restigation of the site.	
	Full radon protective measures are required for the proposed development guidelines.	opment in-line with	
	In the event unexpected contamination is found during development until the material can be identified and remediated appropriately.	t, work should cease	
	All site workers should be equipped with the correct PPE and have risk assessments, job safety and environmental analysis before wor		
	Waste material to be removed from site should be handled by a su contractor.	uitably licensed waste	



1 INTRODUCTION

Commissioning 1.1

Ground Consultants Limited (GCL) were commissioned by Laurence Associates on behalf of their Client to undertake a Phase I Preliminary Risk Assessment at the site known as 'Hendravossen, Black Rock, Praze-an-Beeble, TR14 9PN.' GCL were formally instructed to proceed via email on the 14th November 2021.

This report has been prepared by GCL solely for the benefit of the client. It shall not be relied upon or transferred to any third party without the prior written authorisation of GCL.

Existing Reports 1.2

GCL has not been made aware of any previous land contamination reports commissioned for this site.

Scope and Objectives 1.3

The objective of this desk study is;

- To provisionally identify any land contamination associated with the proposed development and to support the discharge of relevant planning conditions and/or building control requirements.
- To provisionally assess the risk of ground instability
- To identify the need for investigation or remediation works to demonstrate that the site is suitable for use.

Any recommendations for further works have been made as deemed appropriate, based upon the findings of the investigation.

This assessment has been undertaken with guidance from BS10175:201, Environment Agency report CLR11, LCRM, and as such represents a Phase 1 Desk Study / Qualitative Risk Assessment.

Limitations 1.4

The opinions expressed in this report, and the comments and recommendations given, are based on the information obtained from the desk assessment and the site walkover survey. No intrusive investigations have been undertaken to confirm the actual ground conditions and hence the environmental status of the site.

Should additional information become available which may influence the report conclusions, GCL reserves the right to review such information and, if warranted, to alter the opinions accordingly.

The conclusions and recommendations of this report are valid for a period of 12 months from the date of issue. Outside of this time frame the report will require reviewing by a suitably qualified geoenvironmental engineer / environmental scientist, to ensure that the report complies with any changes to industry standards, policies and/or quidelines.

It is recommended that a copy of this report be submitted to the local authority for approval, prior to commissioning any further work which may be required.

Information Sources 1.5

This assessment has been based upon mapping and information obtained from a number of trusted third-party sources. Although we only use information from trusted sources, GCL cannot accept any responsibility for any inaccuracy of third party information. The sources used in this assessment are listed below:

- Environmental and historical data supplied by Groundsure
- Zetica Unexploded Ordnance (UXO) risk map
- British Geological Mapping (both online viewer and map scans)

6



1.6 **Proposed Development**

It is proposed to change the use of an agricultural building to a dwelling, and to convert a series of barns into residential dwellings. Separate planning applications are under preparation but have not been submitted at the date of preparation of the report. The applications are expected to cover two adjoining application sites, identified in this report as the 'north site' (change of use) and the 'south site' (conversion). The current report covers both sites and is intended to support both applications. Where the report text refers to 'the site' it refers to both adjoining sites.



2 SITE LOCATION AND DESCRIPTION

2.1 Site Location and Layout

The site is located off the B3280 near Black Rock approximately 2 km east of Praze-an-Beeble, between Camborne and Helston. The site is approximately centred on National Grid Reference SX 65912 35100.

The site is roughly square in shape and covers an area of 0.29ha.

Site location plans (SLP) are contained in Figures 2.1 and 2.2, to the rear of the report.

2.2 Surrounding Area

Table 2.1: Surrounding Land Use

Direction	Land Use
North	Agricultural
East	Agricultural
South	Agricultural
West	Existing farm house and agricultural

2.3 Site Walkover Survey

GCL conducted a site walkover survey on 16th November 2023. Photographs from the walkover survey are provided in Appendix A.

The site is currently comprised of disused barns with some structures used for the storage of miscellaneous items and stockpiles of construction waste.

The site is accessed via a gravel and grass driveway in the south, which trails along the western boundary of the southern site [Plate 1]. A triangular patch of long grass with occasional small trees occupies the majority of the southern site [Plate 1]. Pieces of metal, plastic and concrete were noted in this area.

Three derelict barns, adjoining one another, are located to the north of the grassed area on the south site [Plates 2 – 4]. The barns had no roofs, with the granite walls in poor condition. The central barn appeared to have previously spanned two floors, with a set of stairs abutting the south of the structure, though, the floor was no longer present, and rotten wooden joists exposed [Plate 5]. Evidence of the former slate and corrugated iron roof was visible in some areas of the barns [Plate 6]. The barns appeared to be surfaced with good to moderate condition concrete hardstanding, with no signs of cracking in exposed areas. Stockpiles of broken slate tiles, windows, wood and corrugated metal were located inside the barns [Plates 7 and 8].

What appeared to be a metal water tank was identified against the northern boundary of the eastern barn in the south of the site [Plate 9].

A small, rendered brick structure with a mono pitched corrugated tin and plastic roof was situated to the north of the barn in the west of the southern site [Plate 10]. The structure appeared to be used for storage pf tools, garden and household items.

The southern site is bounded by granite hedgerows to the east and west and appeared to slightly slope to the northeast.

In the north site, a concrete block, timber framed barn with a tin roof occupied the southeastern corner [Plate 11]. The inside of the barn appeared to be surfaced with good condition concrete hardstanding. To the south of this, is a small barn which extends across both sites, which at the time of the walkover was shut, but contained smokeless coal and concrete hardstanding according to the client [Plate 11].



In the centre of the northern site was an expanse of concrete hardstanding and concrete loading ramp [Plates 11 and 12]. Stockpiles of plant pots, timber and a butane bottle were noted in this area. In the west of the northern site, was gravel landscaping and a bunded above ground oil tank, which appeared to be modern, with no visual or olfactory evidence of leakage [Plates 12 and 13]. The far north of the site was grassed, with stockpiles of granite boulders, slates and construction waste situated in the northeastern quadrant. The northern extremity of the site was bounded by wooden fencing.

2.4 **Ecological Observations**

No invasive species were noted in or around the immediate surroundings of the site during the site walkover. However, it should be noted that conducting an extensive survey to conclusively determine the presence or absence of invasive species falls beyond the scope of this investigation. Therefore, it is advisable to consider engaging a specialist surveyor, if needed, to thoroughly assess this matter.

2.5 **Anecdotal Information**

It was confirmed that no sheep dips were present on site.



3 SITE HISTORY

3.1 Historical Map Review

Using historical Ordnance Survey mapping and recent aerial photography provided by Groundsure, an overview of pertinent findings relating to the site and its surroundings can be found below in Table 3.1.

Table 3.1: Summary of Historical Site Usage

On Site	Surroundings	Date & Scale
	A building, assumed to be a farm house, is present 10m	1887-80
A rectangular building is present in the centre of the site.	west. The remainder of the	County Series
contact of the one.	surroundings are fields in assumed agricultural use.	1:2,500
		1888
No significant changes	No significant changes	County Series
		1:10,560
		1907-09
No significant changes	No significant changes	County Series
		!:2,500, 1:10,560
		1958
Rectangular building extended northward	No significant changes	Provisional
		1:10,560
		1971-76
Additional building present to south of rectangular building	No significant changes	National Grid
		1:2,500
		1981
No significant changes	No significant changes	National Grid
		1:10,000
		1994-95
No significant changes	No significant changes	National Grid
		1:2,500
Site shown as containing a group of farm buildings and a hard surfaced	Surrounding area appears to be in arable cultivation. Farm house	1999
yard area. Building to the south no longer shown.	and garden to west.	Aerial Photo
		2001-03
No significant changes	No significant changes	National Grid



		1:1,250, 1:10,000
No significant changes	No significant changes	2005
NO Significant changes	No significant changes	Aerial photo
		2010
Scale too small to show detail	No significant changes	National Grid
		1:10,000
Roof no longer present on rectangular	No. 25 and a second	2013-22
building	No significant changes	Aerial photos
		2023
Scale too small to show detail	No significant changes	National Grid
		1:10,000

3.2 **Site History Summary**

On Site: The site has contained agricultural buildings since the earliest mapping, with changes of layout over the years.

Off Site: A farm house has been located 10m west of the site since the earliest mapping. The remainder of the surrounding area has remained in agricultural use.

3.3 UXO Risk

The risk to the site and its surroundings from the presence of UXO is low (see Appendix D).

3.4 **Nearby Planning Applications**

No nearby planning applications containing information relevant to land contamination have been identified in the Cornwall Council online planning register.



4 GEOLOGICAL & GEOTECHNICAL SETTING

4.1 **Geological Setting**

Reference has been made to the BGS geological mapping at 1:10,000 and 1:50,000 scales in the Groundsure report, as well as the BGS online map viewer.

The geological map shows no superficial deposits to be present on site.

The geological map indicates that the site is underlain by the Carnmenellis Intrusion of Carboniferous-Permian age intruded between 359.3 and 251.9 million years ago. The BGS describes this unit as comprising mainly medium- to coarse-grained granite with feldspar megacrysts.

4.2 Borehole Records

A borehole was sunk 82m south of the site in September 1962 to a depth of approximately 45m. The borehole encountered 0.3m of subsoil overlying 44.5m of material recorded as sand, assumed to be drill cuttings from partially decomposed granite. Groundwater was encountered at a depth of 39.6mBGL.

4.3 Anticipated Geological Sequence

Based on our experience of the local area, as well as BGS mapping and borehole logs, it is anticipated that the following geological sequence can be expected;

Table 4.1: Anticipated Geological Sequence

Table 4.1. Anticipated Geological Geytaence				
Strata	Description	Estimated Thickness (m)	Estimated Permeability	Location
Made Ground	Reworked natural material with potential anthropogenic components including brick and concrete.	0 - 1	Unsuitable for conventional drainage	Around and beneath existing structures
Topsoil	Brown friable clay or silt	0.3	Unsuitable for conventional drainage	Across the site
Weathered Carnmenellis Granite	Clayey sand/sandy clay derived from weathered granite	20m+	Moderate – poor	Across the site

4.4 Potential for Ground Instability

There are many natural and human-induced geotechnical processes which can give rise to ground stability issues. While in all cases instability may arise whether or not there is any development on the surface, it is important to recognise that the development itself or the intensification of development may be the triggering factor, which initiates instability problems.

The risks posed by common types of unstable ground are tabulated below. The assessment of risk is based upon the proposed development, using a range of information sources, including geological and topographical mapping, as well as Groundsure data.

Table 4.2: Unstable Ground Risk Summary

Instability Risk	Risk Rating	Details
Shrinking or Swelling Clay	Negligible	Ground conditions predominantly non plastic.



Running Sand	negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on land use due to running conditions.
Compressible Deposits	Negligible	Compressible strata are not thought to occur.
Collapsible Deposits	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Landslides	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered
Ground Dissolution o Soluble Rocks	f 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.

4.5 Mining, Ground Workings & Natural Cavities

According to the Groundsure data, the site is in an area where underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.. No surface or underground mining features were noted on the historical maps, and none were noted in the Groundsure Data (Appendix B).

4.6 **Groundwater**

It is unlikely that groundwater will be shallow in this area. It is anticipated that groundwater will flow to the southwest. Groundwater was encountered at significant depth in the borehole 82m south of the site.



5 ENVIRONMENTAL, HYDROLOGICAL & HYDROGEOLOGICAL SETTING

5.1 Hydrology & Hydrogeology

A summary of the hydrological and hydrogeological setting is tabulated below, with respect to the anticipated geological sequence set out in section 4.1.

Table 5.1: Overview of the hydrological and hydrogeological setting

Hydrogeology	
Superficial Aquifer	There are no superficial deposits recorded on site.
Bedrock Aquifer	The Carnmenellis Granite is designated as a "Secondary A" Aquifer. The Environment Agency describes this type of aquifer as 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
Groundwater Vulnerability	Bedrock geology is designated as high vulnerability. The flow mechanism is defined as well connected fractures.
Groundwater Abstractions	The nearest Groundwater water abstraction license is 2m north west of the site. The license relates to abstraction for general farming and domestic uses. There are ten more recorded groundwater abstraction licenses within 500m of the site, for general farming and domestic or household (potable) uses, the latter located 402m west and 431m north-west of the site
Surface Water Abstractions	There are no surface water abstraction licences within 500m of the site.
Source Protection Zones	The site is not within a groundwater Source Protection Zone.
Hydrology	
Ordnance Survey Water Network and Surface Water Features Water Framework Directive (WFD) Surface Water Body Catchments	The nearest surface watercourse is the Roseworthy Stream, 354m northwest of the site. The river is not influenced by normal tidal action. The site is within the Roseworthy Stream surface water body catchment. The Roseworthy Stream is 354m northeast of the site.
Flooding and Drainage	
Risk of Flooding from Rivers and Sea (RoFRaS)	The site is not in an area considered to be at risk from flooding from rivers and the sea.
Historical Flood Events	None recorded.
Flood Defences Areas Benefitting from Flood Defences	None within 250m of the site. The site is not in an area benefitting from flood defences.
Flood Storage Areas	None within 250m of the site.
Flood Zones	The site is not within a Zone 2 or Zone 3 area at risk from flooding.
Surface Water Flooding	The site is considered to be at negligible risk from surface water flooding.
Groundwater Flooding	The site is considered to be at a negligible risk of groundwater flooding.

5.2 **Environmental Setting**

The following table summarises all pertinent environmental factors relating to the site, with respect to the ground conditions set out in section 4.



Table 5.2: Environmental Setting

Radon Percentage of Properties in above Action Level for Radon **Required Protection Levels Full Radon Protection** Greater than 30% Radon protection measures should be installed in line with Building Research Establishment (BRE) 211 "Guidance on Protective Measures for New Buildings." Background Estimated Soil Chemistry (mg / kg) Arsenic 25 - 35 Although arsenic is indicated not to exceed the Generic Cadmium 1.8 Acceptance Criteria (GAC) for the residential with plant uptake setting, isolated minor exceedances could occur, however Chromium 40 - 60 these levels are in-line with naturally occurring mineralisation, typically with a low bioavailability. 100 Lead Nickel 15 - 30**Sensitive Land Uses** Within pertinent **Distance & Direction Sensitive Land Use** radius of site? (Comments if applicable) (250m)* Yes No \boxtimes Site of Special Scientific Interest \boxtimes Ramsar Sites Special Areas of Conservation \boxtimes Special Protection Area \Box \boxtimes \boxtimes **National Nature Reserves** Local Nature Reserves \boxtimes **Designated Ancient Woodland** \boxtimes Biosphere Reserves \square **Forest Parks** \bowtie \Box \boxtimes Marine Conservations Zones \boxtimes Green Belt **Proposed Ramsar Sites** X П Possible Special Area of Conservation \boxtimes \boxtimes Potential Special Protection Areas Nitrate Sensitive Areas X \bowtie Nitrate Vulnerable Zones → 51m south Waste & Landfill Within pertinent **Distance & Direction** radius of site? **Environmental Source** (Comments if applicable) (250m)*Yes No Active or Recent Landfill Historical Landfill (BGS, LA or EA) **Historical Waste Sites**



Licensed Waste Sites		\boxtimes	
*Initial search extent limited to 250m fro considered significant enough to warrant a			rce of contamination and/or sensitive receptor is to 1,000m.
Past and Present Land Uses			
Land Use	radius	pertinent of site? 0m)*	Distance & Direction (Comments if applicable)
	Yes	No	
Historical Industrial Land Uses	\boxtimes		On site: unspecified tank
Historical Tanks		\boxtimes	·
Historical Energy Features		\boxtimes	
Historical Petrol Stations		\boxtimes	
Historical Military Land		\boxtimes	
Recent Industrial Land Uses		\boxtimes	
Current Or Recent Petrol Stations		\boxtimes	
Electricity Cables		\boxtimes	
Gas Pipelines		\boxtimes	
Sites Determined as Contaminated Land		\boxtimes	
Control Of Major Accident Hazards		\boxtimes	
Regulated Explosive Sites		\boxtimes	
Hazardous Substance Storage/Usage		\boxtimes	
Historical Licensed Industrial Activities		\boxtimes	
Licensed Industrial Activities (Part A(1))		\boxtimes	
Licensed Industrial Activities (Part A(2)/B)		\boxtimes	
Radioactive Substance Authorisations		\boxtimes	
Licensed Discharge to Controlled Water		\boxtimes	
Pollutant Release to Surface Waters		\boxtimes	
Pollutant Release to Public Sewer		\boxtimes	
List 1 Dangerous Substances		\boxtimes	

List 2 Dangerous Substances

Pollution Incidents

^{*}Initial search extent limited to 100m from site, unless source of contamination and/or sensitive receptor is considered significant enough to warrant a greater radius of up to 1,000m.



6 PRELIMINARY CONCEPTUAL MODEL

6.1 Introduction

A Preliminary Risk Assessment is underpinned by the conceptual model, which is based on the relationship between the source of contamination, potential receptors, and any pathway between. If a viable source, pathway and receptor is identified, an assessment of the risk is required. CIRIA C552 offers guidance on risk valuation, based on the likelihood of an event, and its severity.

The following table outlines the classification of probability, based on CIRIA C552;

Table 6.1: Classification of Probability

Classification	Definition
High Likelihood	A pollutant link has been identified and a pollution event is very likely in the short term and almost inevitable in the long term.
Likely	A pollutant link has been identified, and it is probable that an event will occur in the long term, and possible in the short term.
Low Likelihood	There is a pollutant linkage and circumstances are such that an event could occur, but it is not probable in the long term and even less likely in the short term.
Unlikely	There is a pollutant linkage but it is unlikely that and event would occur even in the very long term.

The following table outlines the classification of consequence, based on CIRIA C552;

Table 6.2: Classification of Consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environmental Protection Act 1990 and/or short-term risk of pollution of sensitive water resources and/or catastrophic damage to buildings or property.
Medium	Long term (chronic) damage to human health likely to result in "significant harm" as defined by the Environmental Protection Act 1990 and/or significant pollution of sensitive water resources and/or significant change in a defined ecosystem.
Mild	Long term harm to human health but not significant as defined by the Environmental Protection Act 1990 and/or pollution of non-sensitive water resources and non-significant pollution of sensitive water resources.
Minor	Harm, not significant, but that could result in financial loss or cost implications. Non-permanent human health effects.

Following classification of the probability and severity, a risk category can be assigned. The following table, taken from CIRIA C552 summarises this process;

Table 6.3: Risk Classification Matrix

		Risk C	lassification Matrix		
Tako	n from CIRIA C552		Conse	quence	
Tanc	ii ii oii oiida 0332	Severe	Medium	Mild	Minor
>	High Likelihood	Very High	High	Moderate	Moderate / Low
bilit	Likely	High	Moderate	Moderate / Low	Low
Probability	Low Likelihood	Moderate	Moderate / Low	Low	Very Low
Ţ	Unlikely	Moderate / Low	Low	Very Low	Very Low



The risk categories are defined as follows;

Table 6.4: Risk Categories

Classification	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard OR there is evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Urgent investigation is required and remedial works may be necessary.
Moderate	It is possible that harm could arise to a designated receptor from and identified hazard. However it is relatively unlikely that any such harm would be severe.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

6.2 Preliminary Conceptual Site Model

This conceptual site model has been undertaken with due regard to guidance provided in BS10175:2011, CLR11 and CIRIA C552. The assessment of risk from land contamination also pays due regard to the definition of contaminated land, as defined within Part 2A of the Environment Protection Act 1990. This legislation defines contaminated land as any land that is in such a condition that by reason of substances in, on or under the land:

- ✓ Significant harm is being caused or there is a significant possibility of such harm being caused; or
- Pollution of controlled water is being, or is likely to be, caused.

Potential sources of contamination identified from current activities and the history of the site and surrounding area are presented in table 6.5 below.

Table 6.5: Potential Sources of Contamination

Potential Sources	Contaminants of Concern
Natural Casta m.	Radon Gas
Natural Geology	Arsenic

The conceptual site model is derived from an assessment of the above potential sources of contamination, using the criteria set out in CIRIA C552 and tables 6.1-6.4 above. The table, overleaf, is based on the proposed use and the site in its current condition.



6.3 **Preliminary Conceptual Site Model Matrix**

Table 6.6: Preliminary Conceptual Site Model

Preliminary Co	nceptual Model				
Source(s)	Pathway(s)	Receptor(s)	Probability	Severity	Risk Assessment
On Site: Radon Gas	Ingress into proposed buildings	Future site users	High Likelihood	Medium	High Risk – Development is within an area where greater than 30% of properties are above the action level.
On Site: Heavy Metals	Dermal contact Soil and dust ingestion and inhalation	Future site users Site workers Site flora and fauna	Unlikely	Medium	Low Risk – Although arsenic (predicted at 25-35 mg/kg by BGS) is indicated not to exceed the Generic Acceptance Criteria (GAC) for the residential with plant uptake setting, isolated minor exceedances could occur, however these levels are in-line with naturally occurring mineralisation, typically with a low bioavailability, therefore the risks from naturally occurring arsenic are considered to be low.



7 CONCLUSIONS AND RECOMMENDATIONS

7.1 **Geotechnical Considerations**

Any Made Ground encountered on site will not suffice as a suitable bearing stratum, therefore shallow foundations should be placed in the underlying natural material.

Conventional strip foundations may be viable at this site; however a site investigation will be required to confirm this. It would also be considered prudent to carry out soakaway testing in accordance with BRE 365 to assess the sites suitability for conventional drainage.

7.2 Conclusions

Development is within an area where greater than 30% of properties are above the action level for Radon.

Although arsenic (predicted at 25-35 mg/kg by BGS) is indicated not to exceed the Generic Acceptance Criteria (GAC) for the residential with plant uptake setting, isolated minor exceedances could occur, however these levels are in-line with naturally occurring mineralisation, typically with a low bioavailability, therefore naturally occurring elevated levels of arsenic on site are considered to present a low risk to human health.

The site has historically contained a range of agricultural barns and other buildings, with a farm house to the west and agricultural land surrounding.

In the absence of a significant source of contamination, it can be concluded that this site is suitable for its intended future use and that no further investigation will be required.

7.3 Recommendations

No recommendation is made concerning Phase II contamination investigation of the site.

Full radon protective measures are required for the proposed development in-line with BRE guidelines.

In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.

All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.

Waste material to be removed from site should be handled by a suitably licensed waste contractor.



8 REFERENCES

BSI (2011) BS 10175:2011 +a1:2013 Investigation of Potentially Contaminated Sites – Code of Practice. London, British Standards Institution

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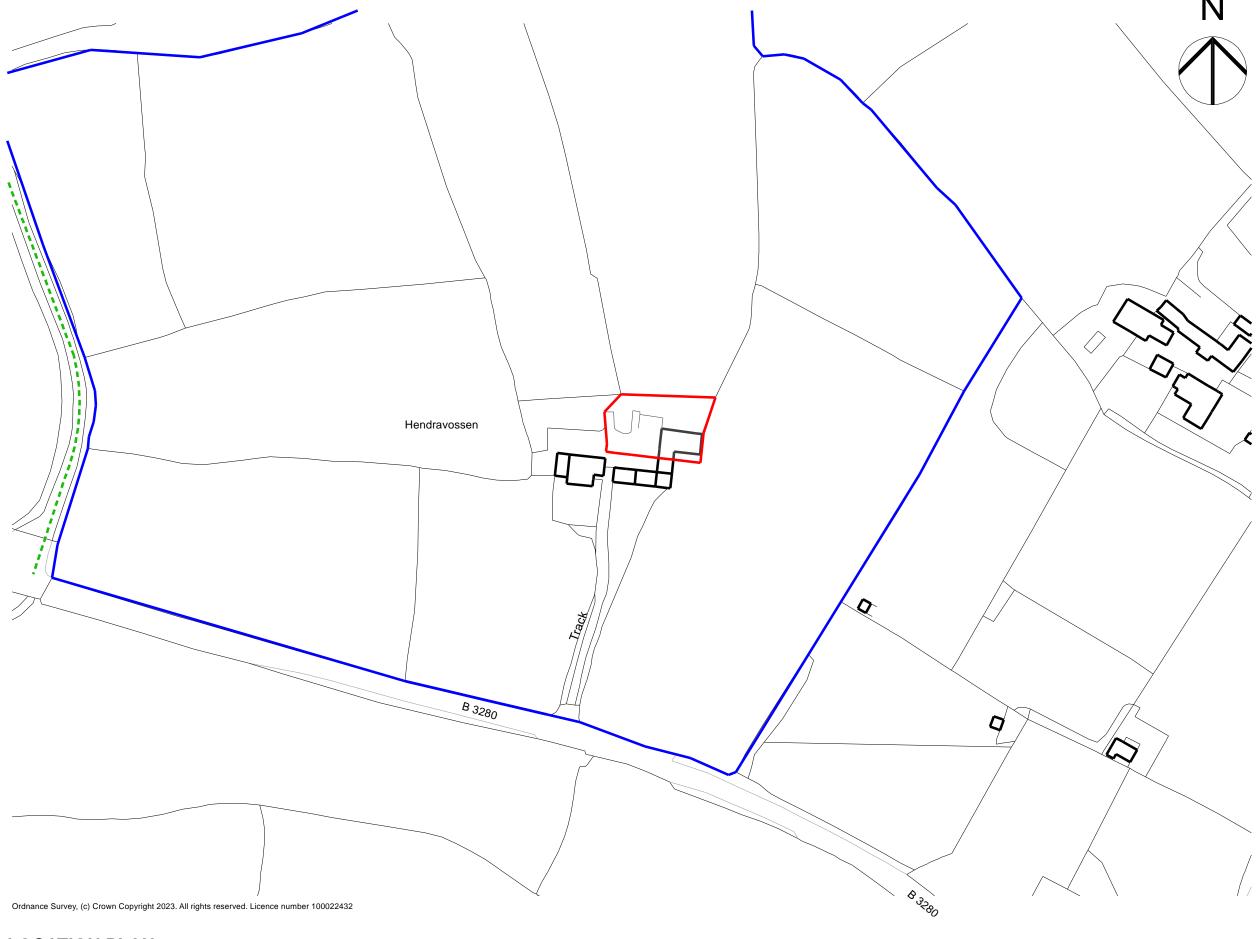
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Figure 2.1

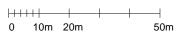
Site Location Plan





LOCATION PLAN

1:1250



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Contractors and Consultants must check all dimensions on site.
Any discrepancies to be reported to Laurence Associates before
work proceeds. This drawing shall be used only for the purpose intended.
PLEASE DO NOT SCALE FOR CONSTRUCTION PURPOSES.

Ownership Site area

--- Public right of way

Rev.	Description	Drawn	Date	



t: +44 (0) 1872 225 259 Truro Office

e: hello@laurenceassociates.co.uk w: www.laurenceassociates.co.uk

Project Title:

Class Q change of use agricultural building to dwelling

Project Address:

Hendravossen

Black Rock, Praze-an-beeble TR14 9PN

Client:

JANE POWNING

Drawing Title:

LOCATION PLAN

Scale: 1:1250@A3	Drawn:
Date: MM/YY	Checked:

Drawing No: 23183-PL-00-01

PLANNING



LOCATION PLAN

1:1250



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Rev.	Description	Drawn	Date	



t: +44 (0) 1872 225 259 Truro Office

e: hello@laurenceassociates.co.uk w: www.laurenceassociates.co.uk

Project Title:

Proposed conversion of barns to dwellings

Project Address:

Hendravossen

Black Rock, Praze-an-beeble TR14 9PN

Client:

JANE POWNING

Drawing Title:

LOCATION PLAN

Scale: 1:1250@A3	Drawn:
Date: MM/YY	Checked:

Drawing No:

23183-PL-00-01

PLANNING



Appendix A

Site Photographs







PLATE 1



PLATE 2

SITE: REF: CLIENT:

Hendravossen, Black Rock, Praze-an-Beeble

GCL23524_P1

Laurence Associates





PLATE 3



PLATE 4

SITE: REF: Hendravossen, Black Rock, Praze-an-Beeble

GCL23524_P1

CLIENT: Laurence Associates





PLATE 5



PLATE 6

SITE: REF: Hendravossen, Black Rock, Praze-an-Beeble

GCL23524_P1

CLIENT: Laurence Associates





PLATE 7



PLATE 8

SITE: **REF:**

Hendravossen, Black Rock, Praze-an-Beeble

GCL23524_P1

Laurence Associates **CLIENT:**





PLATE 9



PLATE 10

SITE: REF: Hendravossen, Black Rock, Praze-an-Beeble

GCL23524_P1

CLIENT: Laurence Associates





PLATE 11



PLATE 12







PLATE 13



Appendix B

Environmental Data & Maps





Enviro+Geo Insight

HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Order Details

Date: 08/11/2023

Your ref: 23524

Our Ref: GCL-CR7-SNR-4SS-XUG

Site Details

Location: 165912 035100

Area: 0.14 ha

Authority: Cornwall Council (Unitary) /



Summary of findings

p. 2 > Aerial image

<u>p. 9</u> >

OS MasterMap site plan

p.14 > groundsure.com/insightuserquide ↑





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>15</u> >	<u>1.1</u> >	<u>Historical industrial land uses</u> >	1	0	0	5	-
<u>16</u> >	<u>1.2</u> >	<u>Historical tanks</u> >	0	0	0	2	-
16	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
<u>18</u> >	<u>2.1</u> >	<u>Historical industrial land uses</u> >	1	0	0	6	-
<u>19</u> >	<u>2.2</u> >	<u>Historical tanks</u> >	0	0	0	2	-
19	2.3	Historical energy features	0	0	0	0	-
19	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	
20 Page	2.5 Section	Historical garages Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
							500-2000m
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
Page 21	Section 3.1	Waste and landfill > Active or recent landfill	On site	0-50m O	50-250m O	250-500m	500-2000m
Page 21 21	Section 3.1 3.2	Waste and landfill > Active or recent landfill Historical landfill (BGS records)	On site O	0-50m O	50-250m O	250-500m O	500-2000m
Page 21 21 22	Section 3.1 3.2 3.3	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records)	On site O O	0-50m 0 0	50-250m 0 0	250-500m 0 0	500-2000m
Page 21 21 22 22	3.1 3.2 3.3 3.4	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records)	On site 0 0 0 0	0-50m 0 0	50-250m 0 0 0	250-500m 0 0 0	- - - - -
Page 21 21 22 22 22	3.1 3.2 3.3 3.4 3.5	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites	On site 0 0 0 0 0	0-50m 0 0 0	50-250m 0 0 0 0	250-500m 0 0 0 0	- - - - - -
Page 21 21 22 22 22 22	Section 3.1 3.2 3.3 3.4 3.5 3.6	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites	On site 0 0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0 0	250-500m 0 0 0 0 0	500-2000m 500-2000m
Page 21 21 22 22 22 22 22 22 >	Section 3.1 3.2 3.3 3.4 3.5 3.6 3.7 >	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions >	On site 0 0 0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0 0 0	250-500m 0 0 0 0 0 10	- - - - -
Page 21 21 22 22 22 22 22 Page	3.1 3.2 3.3 3.4 3.5 3.6 3.7 > Section	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions > Current industrial land use	On site O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 50-250m	250-500m 0 0 0 0 0 10	- - - - -
Page 21 21 22 22 22 22 22 Page 24	3.1 3.2 3.3 3.4 3.5 3.6 3.7 > Section 4.1	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions > Current industrial land use Recent industrial land uses	On site O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 50-250m	250-500m 0 0 0 0 0 10 250-500m	- - - - -
Page 21 21 22 22 22 22 22 24 24 24	Section 3.1 3.2 3.3 3.4 3.5 3.6 3.7 > Section 4.1 4.2	Waste and landfill > Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Waste exemptions > Current industrial land use Recent industrial land uses Current or recent petrol stations	On site O	0-50m 0 0 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 50-250m 0	250-500m 0 0 0 0 0 10 250-500m	- - - - -





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	_
25	4.7	Regulated explosive sites	0	0	0	0	_
25	4.8	Hazardous substance storage/usage	0	0	0	0	_
25	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	_
25	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	_
26	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	_
26	4.12	Radioactive Substance Authorisations	0	0	0	0	_
26	4.13	Licensed Discharges to controlled waters	0	0	0	0	_
26	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	_
26	4.15	Pollutant release to public sewer	0	0	0	0	_
27	4.16	List 1 Dangerous Substances	0	0	0	0	_
27	4.17	List 2 Dangerous Substances	0	0	0	0	_
27	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	_
27	4.19	Pollution inventory substances	0	0	0	0	_
27	4.20	Pollution inventory waste transfers	0	0	0	0	-
28	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page							
raye	Section	<u>Hydrogeology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	Section <u>5.1</u> >	<u>Hydrogeology</u> > <u>Superficial aquifer</u> >		0-50m within 500m		250-500m	500-2000m
			Identified ()	250-500m	500-2000m
<u>29</u> >	<u>5.1</u> >	Superficial aquifer >	Identified (within 500m)	250-500m	500-2000m
29 > 30 >	<u>5.1</u> > <u>5.2</u> >	Superficial aquifer > Bedrock aquifer >	Identified (within 500m within 500m within 50m))	250-500m	500-2000m
29 > 30 > 32 >	5.1 > 5.2 > 5.3 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability >	Identified (v	within 500m within 500m within 50m) in 0m))	250-500m	500-2000m
29 > 30 > 32 > 33	5.1 > 5.2 > 5.3 > 5.4	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk	Identified (v Identified (v Identified (v None (within	within 500m within 500m within 50m) in 0m))	250-500m	500-2000m
29 > 30 > 32 > 33 33	5.1 > 5.2 > 5.3 > 5.4 5.5	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information	Identified (v Identified (v Identified (v None (within	within 500m within 500m within 50m) in 0m) in 0m))		
29 > 30 > 32 > 33 33 34 >	5.1 > 5.2 > 5.3 > 5.4 5.5 5.6 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions >	Identified (v Identified (v Identified (v None (within None (within 0)	within 500m within 500m within 50m) in 0m) in 0m)	0	10	54
29 > 30 > 32 > 33 33 34 > 48 >	5.1 > 5.2 > 5.3 > 5.4 5.5 5.6 > 5.7 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions >	Identified (v Identified (v Identified (v None (withing the content of the conten	within 500m within 500m within 50m) in 0m) in 0m) 1	0	10 0	54 5
29 > 30 > 32 > 33 > 34 > 48 > 49 >	5.1 > 5.2 > 5.3 > 5.4 5.5 5.6 > 5.7 > 5.8 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions > Potable abstractions >	Identified (v Identified (v Identified (v None (withing the content of the conten	within 500m within 500m within 50m) in 0m) 1 0 0	0 0	10 0 2	54 5
29 > 30 > 32 > 33 > 34 > 48 > 49 >	5.1 > 5.2 > 5.3 > 5.4 5.5 5.6 > 5.7 > 5.8 > 5.9	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions > Potable abstractions > Source Protection Zones	Identified (v Identified (v Identified (v None (withing the content of the conten	within 500m within 500m within 50m) in 0m) 1 0 0 0	0 0 0	10 0 2 0	54 5





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

53	6.2	Surface water features	0	0	0	-	-
<u>54</u> >	<u>6.3</u> >	WFD Surface water body catchments >	1	-	-	-	-
<u>54</u> >	<u>6.4</u> >	WFD Surface water bodies >	0	0	0	-	-
<u>55</u> >	<u>6.5</u> >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
56	7.1	Risk of flooding from rivers and the sea	None (with	in 50m)			
56	7.2	Historical Flood Events	0	0	0	-	-
56	7.3	Flood Defences	0	0	0	-	-
57	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
57	7.5	Flood Storage Areas	0	0	0	-	-
58	7.6	Flood Zone 2	None (with	in 50m)			
58	7.7	Flood Zone 3	None (with	in 50m)			
Page	Section	Surface water flooding					
59	8.1	Surface water flooding	Negligible	(within 50m)			
Dago	Section	Croundwater flooding					
Page	Section	<u>Groundwater flooding</u> >					
60 >	9.1 >	Groundwater flooding >	Negligible	(within 50m)			
			Negligible On site	(within 50m) _{0-50m}	50-250m	250-500m	500-2000m
<u>60</u> >	<u>9.1</u> >	Groundwater flooding >			50-250m	250-500m	500-2000m
60 > Page	9.1 > Section	Groundwater flooding > Environmental designations	On site	0-50m			
60 > Page 61	9.1 > Section 10.1	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI)	On site	0-50m	0	0	0
60 > Page 61 61	9.1 > Section 10.1 10.2	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites)	On site O	0-50m O	0	0	0
60 > Page 61 61 61	9.1 > Section 10.1 10.2 10.3	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC)	On site O O	0-50m 0 0	0 0	0 0	0 0
60 > Page 61 61 61	9.1 > Section 10.1 10.2 10.3 10.4	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA)	On site O O O	0-50m 0 0	0 0 0	0 0 0	0 0 0
60 > Page 61 61 61 62	9.1 > Section 10.1 10.2 10.3 10.4 10.5	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR)	On site 0 0 0 0 0	0-50m 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
60 > Page 61 61 61 62 62	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR)	On site 0 0 0 0 0 0	0-50m 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0
60 > Page 61 61 61 62 62 62	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland	On site O O O O O O O O O O O	0-50m 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
60 > Page 61 61 61 62 62 62 62	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves	On site O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
60 > Page 61 61 61 61 62 62 62 62 63	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves Forest Parks	On site O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0		0 0 0 0 0 0
60 > Page 61 61 61 61 62 62 62 62 63 63	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.10	Groundwater flooding > Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves Forest Parks Marine Conservation Zones	On site O O O O O O O O O O O O O O O O O O	0-50m 0 0 0 0 0 0 0 0 0 0			





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

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
<u>64</u> >	<u>10.16</u> >	<u>Nitrate Vulnerable Zones</u> >	0	0	1	1	2
<u>65</u> >	<u>10.17</u> >	SSSI Impact Risk Zones >	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
<u>69</u> >	<u>12.1</u> >	Agricultural Land Classification >	Grade 4 (w	rithin 250m)			
<u>70</u> >	<u>12.2</u> >	Open Access Land >	0	0	2	-	-
70	12.3	Tree Felling Licences	0	0	0	-	-
70	12.4	Environmental Stewardship Schemes	0	0	0	-	-
71	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<u>Habitat designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
72	13.1	Priority Habitat Inventory	0	0	0	-	-
<u>72</u> >	<u>13.2</u> >	<u>Habitat Networks</u> >	1	0	0	-	-
73	13.3	Open Mosaic Habitat	0	0	0	-	-
73	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
<u>74</u> >	<u>14.1</u> >	10k Availability >	Identified (within 500m)		
75	14.2	Artificial and made ground (10k)	0	0	0	0	-
76	14.3	Superficial geology (10k)	0	0	0	0	-





Grid ref: 165912 035100

76	14.4	Landslip (10k)	0	0	0	0	-
77	14.5	Bedrock geology (10k)	0	0	0	0	-
77	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<u>Geology 1:50,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>78</u> >	<u>15.1</u> >	50k Availability >	Identified (within 500m)	•	
79	15.2	Artificial and made ground (50k)	0	0	0	0	-
79	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>80</u> >	<u>15.4</u> >	Superficial geology (50k) >	0	0	0	1	-
81	15.5	Superficial permeability (50k)	None (with	in 50m)			
81	15.6	Landslip (50k)	0	0	0	0	-
81	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>82</u> >	<u>15.8</u> >	Bedrock geology (50k) >	1	0	1	2	-
<u>83</u> >	<u>15.9</u> >	Bedrock permeability (50k) >	Identified ((within 50m)			
83	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
<u>84</u> >	<u>16.1</u> >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
<u>85</u> >	<u>17.1</u> >	Shrink swell clays >	Negligible	(within 50m)			
<u>86</u> >	<u>17.2</u> >	Running sands >	Negligible	(within 50m)			
<u>87</u> >	<u>17.3</u> >	<u>Compressible deposits</u> >	Negligible	(within 50m)			
<u>88</u> >	<u>17.4</u> >	<u>Collapsible deposits</u> >	Very low (v	within 50m)			
<u>89</u> >	<u>17.5</u> >	<u>Landslides</u> >	Negligible	(within 50m)			
<u>90</u> >	<u>17.6</u> >	Ground dissolution of soluble rocks >	Negligible	(within 50m)			
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
92	18.1	BritPits	0	0	0	0	-
93	18.2	Surface ground workings	0	0	0	-	-
93 >	<u>18.3</u> >	<u>Underground workings</u> >	0	0	0	0	4
93	18.4	Underground mining extents	0	0	0	0	-





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

94 >	<u>18.6</u> >	Non-coal mining >	1	0	1	0	4
95	18.7	JPB mining areas	None (within 0m)				
95	18.8	The Coal Authority non-coal mining	0	0	0	0	-
95	18.9	Researched mining	0	0	0	0	-
96	18.10	Mining record office plans	0	0	0	0	-
96	18.11	BGS mine plans	0	0	0	0	-
96	18.12	Coal mining	None (with	in 0m)			
96	18.13	Brine areas	None (with	in 0m)			
96	18.14	Gypsum areas	None (with	in 0m)			
<u>97</u> >	<u>18.15</u> >	<u>Tin mining</u> >	Identified (within 0m)			
97	18.16	Clay mining	None (with	in 0m)			
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
98	19.1	Natural cavities	0	0	0	0	-
<u>99</u> >	<u>19.2</u> >	Mining cavities >	0	0	0	0	1
99	19.3	Reported recent incidents	0	0	0	0	-
99	19.4	Historical incidents	0	0	0	0	-
100	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<u>101</u> >	<u>20.1</u> >	Radon >	Greater tha	an 30% (with	in 0m)		
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<u>103</u> >	<u>21.1</u> >	BGS Estimated Background Soil Chemistry >	1	0	-	-	-
103	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
104	22.1	Underground railways (London)	0	0	0	-	-
104	22.2	Underground railways (Non-London)	0	0	0	-	-
104	22.3	Railway tunnels	0	0	0	-	-
104	22.4	Historical railway and tunnel features	0	0	0	-	-
104	22.5	Royal Mail tunnels	0	0	0	-	-





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524

Grid ref: 165912 035100

105	22.6	Historical railways	0	0	0	-	-
105	22.7	Railways	0	0	0	-	-
105	22.8	Crossrail 1	0	0	0	0	-
105	22.9	Crossrail 2	0	0	0	0	-
105	22.10	HS2	0	0	0	0	-

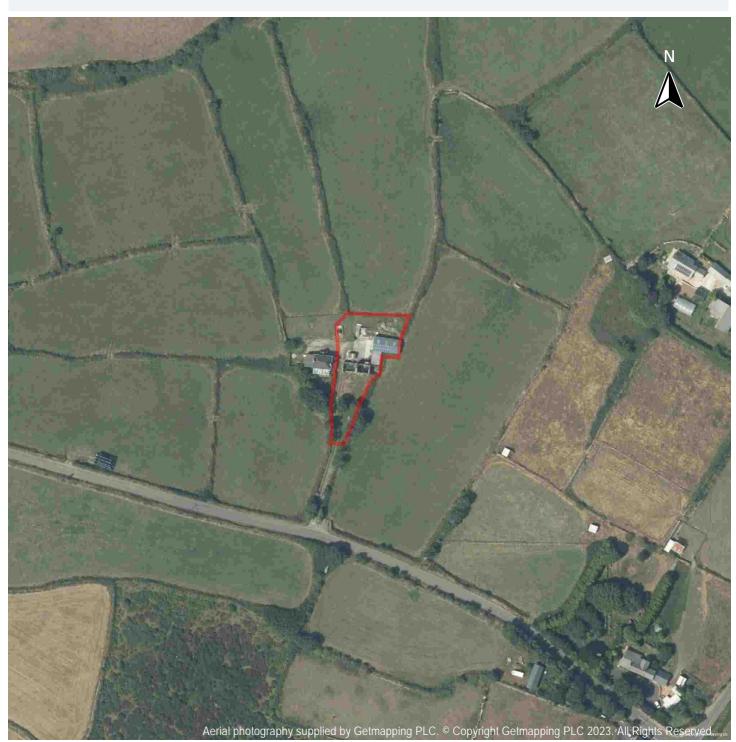


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Grid ref: 165912 035100

Recent aerial photograph



Capture Date: 06/08/2022





Grid ref: 165912 035100

Recent site history - 2019 aerial photograph



Capture Date: 27/06/2019





Grid ref: 165912 035100

Recent site history - 2013 aerial photograph



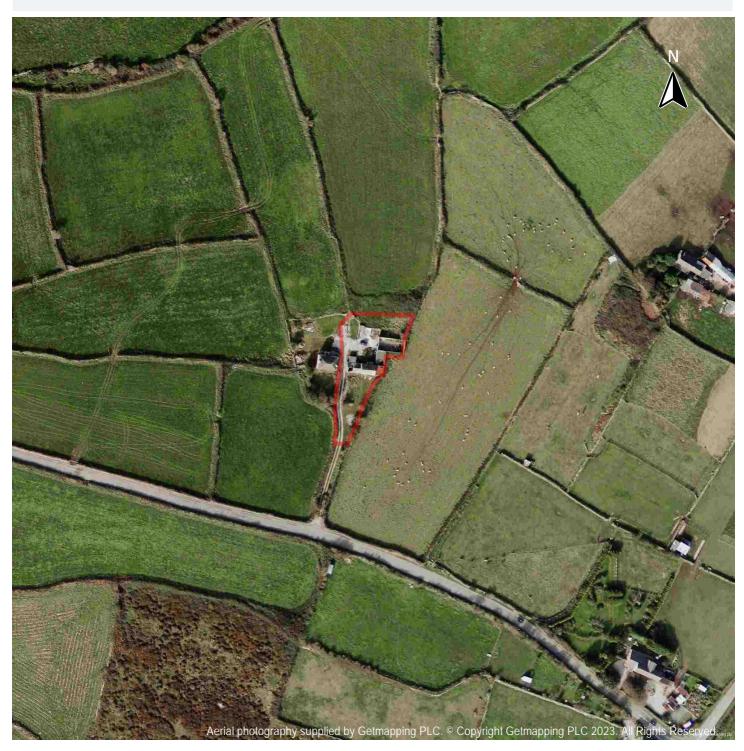
Capture Date: 10/07/2013





Grid ref: 165912 035100

Recent site history - 2005 aerial photograph



Capture Date: 10/08/2005





Grid ref: 165912 035100

Recent site history - 1999 aerial photograph



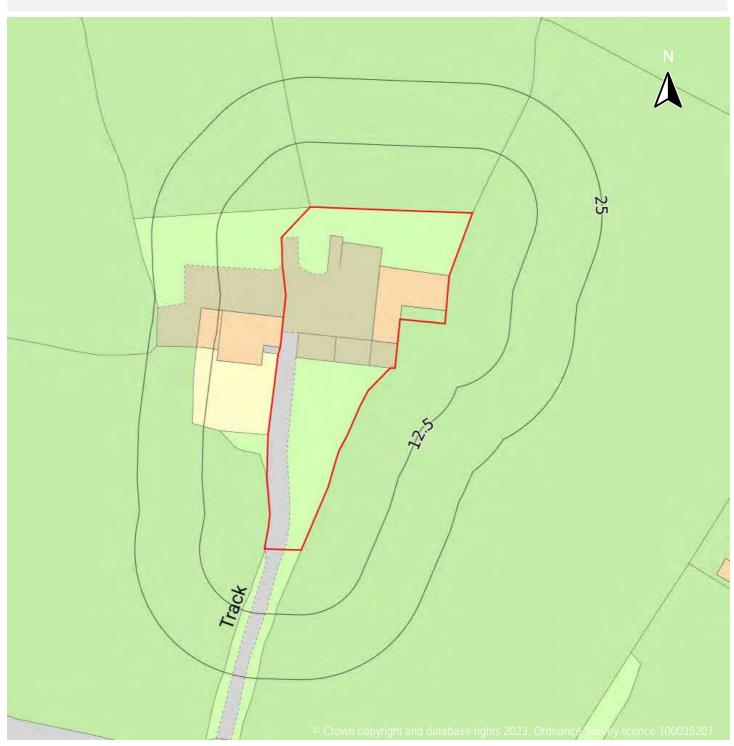
Capture Date: 02/09/1999





Grid ref: 165912 035100

OS MasterMap site plan



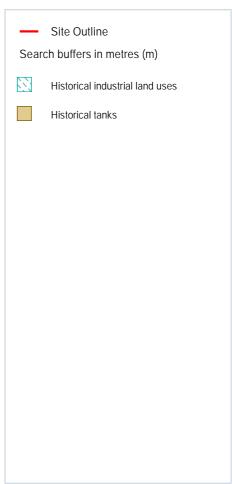




Grid ref: 165912 035100

1 Past land use





1.1 Historical industrial land uses

Records within 500m

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 15 >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Tank	1958	23090





Grid ref: 165912 035100

ID	Location	Land use	Dates present	Group ID
2	303m NW	Pump House	1979	25311
Α	439m NW	Unspecified Tank	1979	23091
В	452m W	Unspecified Tank	1908	48542
В	455m W	Unspecified Tank	1958	44382
3	495m NW	Unspecified Old Quarry	1908 - 1958	45372

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m 2

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original 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 15 >

ID	Location	Land use	Dates present	Group ID
Α	436m NW	Unspecified Tank	1976	3802
В	453m W	Unspecified Tank	1908	3803

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.





Grid ref: 165912 035100

1.4 Historical petrol stations

Records within 500m

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

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.

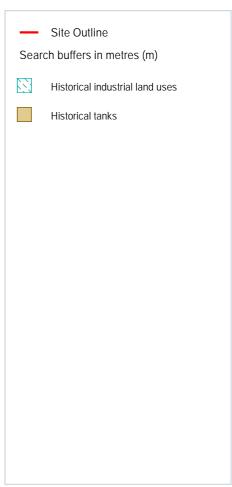




Grid ref: 165912 035100

2 Past land use - un-grouped





2.1 Historical industrial land uses

Records within 500m

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

Features are displayed on the Past land use - un-grouped map on page 18 >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Tank	1958	23090
2	303m NW	Pump House	1979	25311
А	439m NW	Unspecified Tank	1979	23091





Grid ref: 165912 035100

ID	Location	Land Use	Date	Group ID
В	452m W	Unspecified Tank	1908	48542
В	455m W	Unspecified Tank	1958	44382
С	495m NW	Unspecified Old Quarry	1908	45372
С	499m NW	Unspecified Old Quarry	1958	45372

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m 2

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

Features are displayed on the Past land use - un-grouped map on page 18 >

ID	Location	Land Use	Date	Group ID
А	436m NW	Unspecified Tank	1976	3802
В	453m W	Unspecified Tank	1908	3803

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m 0

info@groundsure.com /

01273 257 755

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.





Grid ref: 165912 035100

2.5 Historical garages

Records within 500m

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.

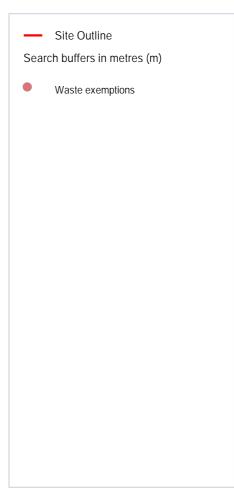




Grid ref: 165912 035100

3 Waste and landfill





3.1 Active or recent landfill

Records within 500m 0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

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.





0

Grid ref: 165912 035100

3.3 Historical landfill (LA/mapping records)

Records within 500m

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

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

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

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

3.7 Waste exemptions

Records within 500m

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 21 >





Grid ref: 165912 035100

ID	Location	Site	Reference	Category	Sub- Category	Description
Α	439m NW	Cargenwen Farm CAMBORNE Cornwall TR14 9PL	EPR/JH0273NB /A001	Disposing of waste exemption	Agricultura I Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
А	439m NW	Cargenwen Farm CAMBORNE Cornwall TR14 9PL	EPR/JH0273NB /A001	Disposing of waste exemption	Agricultura I Waste Only	Burning waste in the open
А	439m NW	Cargenwen Farm CAMBORNE Cornwall TR14 9PL	EPR/JH0273NB /A001	Using waste exemption	Agricultura I Waste Only	Spreading of plant matter to confer benefit
А	439m NW	Cargenwen Farm CAMBORNE Cornwall TR14 9PL	EPR/JH0273NB /A001	Using waste exemption	Agricultura I Waste Only	Use of waste for a specified purpose
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX188858	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX188858	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX032490	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX032490	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX317074	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
А	440m NW	CARGENWEN FARM, CARGENWYN, CAMBORNE, TR14 9PL	WEX317074	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

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





Grid ref: 165912 035100

4 Current industrial land use

4.1 Recent industrial land uses

Records within 250m

Current potentially contaminative industrial sites.

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m 0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m 0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

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

This data is sourced from Local Authority records.





Grid ref: 165912 035100

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

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

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

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

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.





Grid ref: 165912 035100

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

Records within 500m

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m 0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m 0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

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

Discharges of Special Category Effluents to the public sewer.

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





Grid ref: 165912 035100

4.16 List 1 Dangerous Substances

Records within 500m

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

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

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

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

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.





Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

4.21 Pollution inventory radioactive waste

Records within 500m

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.

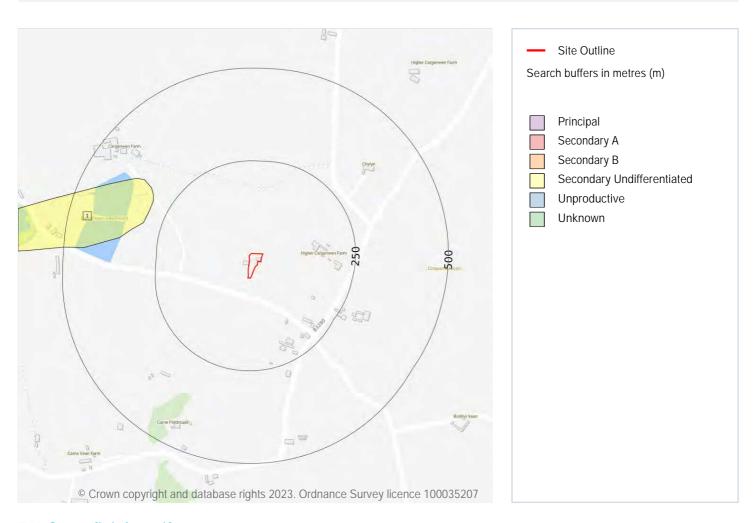
This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.





Grid ref: 165912 035100

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 29 >

ID	Location	Designation	Description
1	295m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

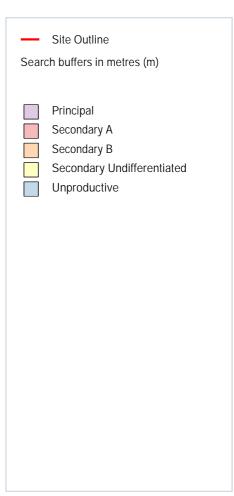




Grid ref: 165912 035100

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 30 >

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	52m 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





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Ref: GCL-CR7-SNR-4SS-XUG Your ref: 23524

Grid ref: 165912 035100

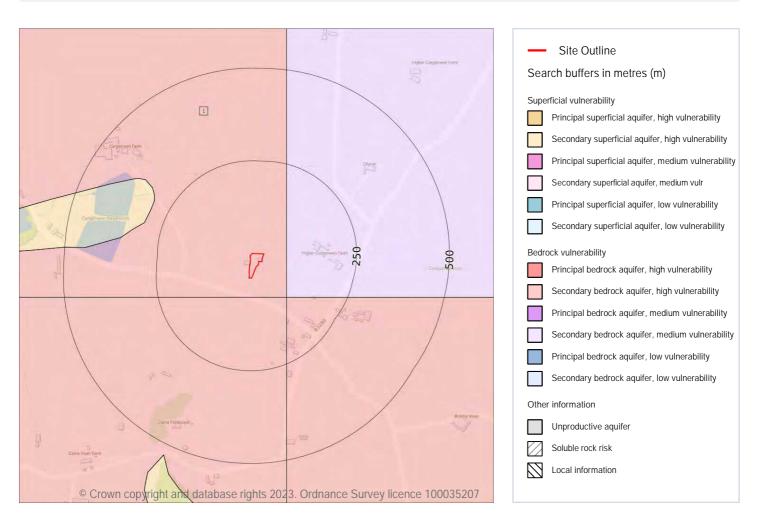
This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.





Grid ref: 165912 035100

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

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

Features are displayed on the Groundwater vulnerability map on page 32 >





Grid ref: 165912 035100

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

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

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.

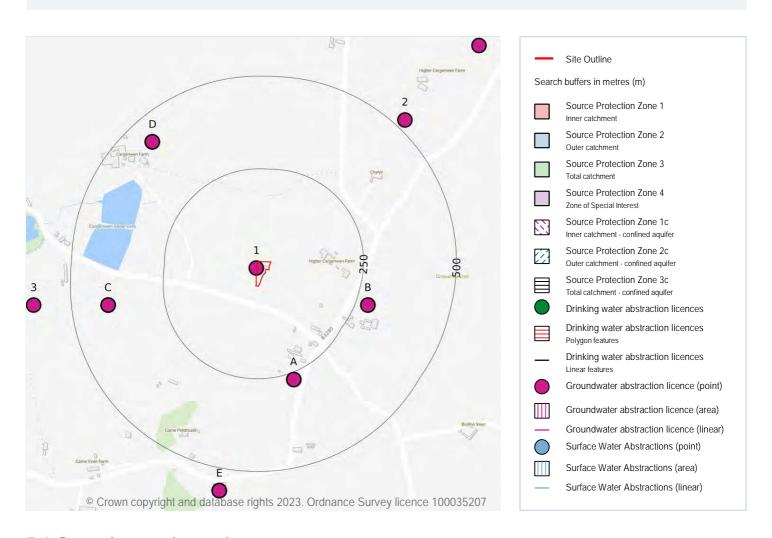
This data is sourced from the British Geological Survey and the Environment Agency.





Grid ref: 165912 035100

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m 65

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 34 >





Grid ref: 165912 035100

ID	Location	Details	
1	2m NW	Status: Historical Licence No: 15/49/026/G/036 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BLACK ROCK FARM - WELL A Data Type: Point Name: Rowe Easting: 165900 Northing: 35100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 06/01/1986 Version End Date: -
A	268m S	Status: Historical Licence No: 15/49/252/G/061 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "SEA VIEW FARM, CROWAN" Data Type: Point Name: Harvey Easting: 166000 Northing: 34800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 19/07/1974 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1981 Version End Date: -
A	268m S	Status: Historical Licence No: 15/49/252/G/061 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: SEA VIEW FARM, CROWAN Data Type: Point Name: Harvey Easting: 166000 Northing: 34800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 19/07/1974 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1981 Version End Date: -
В	283m E	Status: Historical Licence No: 15/49/252/G/073 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "BLACK ROCK FARM LAND, PRAZE - BOREHOLE" Data Type: Point Name: Eddy Easting: 166200 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/03/1984 Version End Date: -
В	283m E	Status: Historical Licence No: 15/49/252/G/073 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BLACK ROCK FARM LAND, PRAZE - BOREHOLE Data Type: Point Name: Eddy Easting: 166200 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/03/1984 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
С	402m W	Status: Historical Licence No: 15/49/252/G/074 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARN VIEW - BOREHOLE Data Type: Point Name: Needham Easting: 165500 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 21/10/2004 Version End Date: -
С	402m W	Status: Historical Licence No: 15/49/252/G/074 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: CARN VIEW - BOREHOLE Data Type: Point Name: Needham Easting: 165500 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 21/10/2004 Version End Date: -
C	402m W	Status: Historical Licence No: 15/49/026/G/141 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARNE VEAN FARM - BOREHOLE A Data Type: Point Name: Needham Easting: 165500 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 21/10/2004 Version End Date: -
D	431m NW	Status: Historical Licence No: 15/49/026/G/214 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARGENWEN FARM - BOREHOLE Data Type: Point Name: Blumenau Easting: 165620 Northing: 35440	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1999 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
D	431m NW	Status: Historical Licence No: 15/49/026/G/214 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: CARGENWEN FARM - BOREHOLE Data Type: Point Name: Blumenau Easting: 165620 Northing: 35440	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1999 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
D	431m NW	Status: Historical Licence No: 15/49/026/G/214 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: CARGENWEN FARM - BOREHOLE Data Type: Point Name: Blumenau Easting: 165620 Northing: 35440	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1999 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
2	526m NE	Status: Historical Licence No: 15/49/026/G/101 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER CARGENWYN FARM - BOREHOLE A Data Type: Point Name: Dalley Easting: 166300 Northing: 35500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/04/1998 Version End Date: -
E	560m S	Status: Historical Licence No: 15/49/252/G/065 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "CARNE COMMON FARM, PRAZE - BOREHOLE" Data Type: Point Name: Hall Easting: 165800 Northing: 34500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 03/05/1989 Version End Date: -
E	560m S	Status: Historical Licence No: 15/49/252/G/065 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "CARNE COMMON FARM, PRAZE - BOREHOLE" Data Type: Point Name: Hall Easting: 165800 Northing: 34500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 03/05/1989 Version End Date: -
Е	560m S	Status: Historical Licence No: 15/49/252/G/065 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARNE COMMON FARM, PRAZE - BOREHOLE Data Type: Point Name: Hall Easting: 165800 Northing: 34500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 03/05/1989 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
Е	560m S	Status: Historical Licence No: 15/49/252/G/065 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: CARNE COMMON FARM, PRAZE - BOREHOLE Data Type: Point Name: Hall Easting: 165800 Northing: 34500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 03/05/1989 Version End Date: -
3	601m W	Status: Historical Licence No: 15/49/026/G/094 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: SANTIS FARM - BOREHOLE A Data Type: Point Name: Rogers Easting: 165300 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/08/1984 Version End Date: -
4	809m NE	Status: Historical Licence No: 15/49/026/G/102 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER CARGENWYN FARM - WELL A Data Type: Point Name: Dalley Easting: 166500 Northing: 35700	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/04/1998 Version End Date: -
-	862m NE	Status: Historical Licence No: 15/49/026/G/178 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: OAKDENE FARM - BOREHOLE A Data Type: Point Name: Dalley Easting: 166300 Northing: 35900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 22/05/1980 Expiry Date: - Issue No: 100 Version Start Date: 05/08/1992 Version End Date: -
-	874m S	Status: Historical Licence No: 15/49/252/G/060 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "HIGHER CARNE FARM, CROWAN - WELL" Data Type: Point Name: Speak Easting: 165700 Northing: 34200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 21/07/1983 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	874m S	Status: Historical Licence No: 15/49/252/G/060 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER CARNE FARM, CROWAN - WELL Data Type: Point Name: Speak Easting: 165700 Northing: 34200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 21/07/1983 Version End Date: -
-	888m N	Status: Historical Licence No: 15/49/026/G/027 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: LITTLE CARVOLTH FARM - WELL B Data Type: Point Name: Cooke Easting: 165800 Northing: 36000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/10/1988 Version End Date: -
-	888m N	Status: Historical Licence No: 15/49/026/G/127 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: LITTLE CARVOLTH FARM - WELL A Data Type: Point Name: Temby Easting: 165800 Northing: 36000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	971m NW	Status: Historical Licence No: 15/49/026/G/118 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "HIGHER PELOE FARM, CROWAN - BOREHOLE" Data Type: Point Name: Gabriel Easting: 165360 Northing: 35920	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/04/1994 Version End Date: -
-	971m NW	Status: Historical Licence No: 15/49/026/G/118 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER PELOE FARM, CROWAN - BOREHOLE Data Type: Point Name: Gabriel Easting: 165360 Northing: 35920	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/04/1994 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1010m E	Status: Historical Licence No: 15/48/232/G/107 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOLITHO BARTON FARM - BOREHOLE A Data Type: Point Name: Anguish Easting: 166900 Northing: 34800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1999 Version End Date: -
-	1045m NE	Status: Historical Licence No: 15/49/026/G/217 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: HIGHDOWNS - BOREHOLE Data Type: Point Name: Coleman Easting: 166410 Northing: 36050	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 15/01/2001 Expiry Date: - Issue No: 101 Version Start Date: 13/05/2002 Version End Date: -
-	1045m NE	Status: Historical Licence No: 15/49/026/G/217 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHDOWNS - BOREHOLE Data Type: Point Name: Coleman Easting: 166410 Northing: 36050	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 15/01/2001 Expiry Date: - Issue No: 101 Version Start Date: 13/05/2002 Version End Date: -
-	1045m NE	Status: Historical Licence No: 15/49/026/G/217 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: HIGHDOWNS - BOREHOLE Data Type: Point Name: Coleman Easting: 166410 Northing: 36050	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 15/01/2001 Expiry Date: - Issue No: 101 Version Start Date: 13/05/2002 Version End Date: -
-	1071m NW	Status: Historical Licence No: 15/49/026/G/118 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "HIGHER PELOE FARM, CROWAN - WELL" Data Type: Point Name: Gabriel Easting: 165300 Northing: 36000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/04/1994 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1071m NW	Status: Historical Licence No: 15/49/026/G/118 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER PELOE FARM, CROWAN - WELL Data Type: Point Name: Gabriel Easting: 165300 Northing: 36000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/04/1994 Version End Date: -
-	1084m N	Status: Historical Licence No: 15/49/026/G/204 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BOSWYN FARM - WELL A Data Type: Point Name: Dalley Easting: 166000 Northing: 36200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/10/1991 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1991 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: "15/49/026/G/189,G4,COPPER HILL ADIT" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: "15/49/026/G/189,G6,BOSWYN SHAFT" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: 15/49/026/G/189,G4,COPPER HILL ADIT Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: 15/49/026/G/189,G6,BOSWYN SHAFT Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1199m W	Status: Historical Licence No: 15/49/026/G/180 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "TREMAYNE, CROWAN - TAPPED SPRING" Data Type: Point Name: Clifford Kent Limited Easting: 164700 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/07/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1990 Version End Date: -
-	1199m W	Status: Historical Licence No: 15/49/026/G/180 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: TREMAYNE, CROWAN - TAPPED SPRING Data Type: Point Name: Thames Valley Eggs (Production) Limited Easting: 164700 Northing: 35000	Annual Volume (m³): 10595 Max Daily Volume (m³): 29.03 Original Application No: - Original Start Date: 31/07/1980 Expiry Date: - Issue No: 101 Version Start Date: 27/01/2010 Version End Date: -
-	1210m SW	Status: Historical Licence No: 15/49/252/G/024 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "CARNE-MEOR FARM, PRAZE - WELL" Data Type: Point Name: Roberts Easting: 165300 Northing: 34000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1210m SW	Status: Historical Licence No: 15/49/252/G/024 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARNE-MEOR FARM, PRAZE - WELL Data Type: Point Name: Roberts Easting: 165300 Northing: 34000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1257m NE	Status: Historical Licence No: 15/48/232/G/126 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BOLITHO FARM - SPRING A Data Type: Point Name: Champion & Son Easting: 167100 Northing: 35600	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/07/1995 Expiry Date: - Issue No: 100 Version Start Date: 21/07/1995 Version End Date: -
-	1299m NW	Status: Historical Licence No: 15/49/026/G/091 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARNE TREMAYNE - WELL C Data Type: Point Name: Rowe Easting: 164800 Northing: 35800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1307m NE	Status: Historical Licence No: 15/49/026/G/016 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER CARGENWEN FARM - BOREHOLE A Data Type: Point Name: Dennis Easting: 166800 Northing: 36100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -
-	1384m NW	Status: Historical Licence No: 15/49/026/G/066 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "CARNE FARM, TREMAYNE - WELL A" Data Type: Point Name: Temby Easting: 164700 Northing: 35800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -
-	1384m NW	Status: Historical Licence No: 15/49/026/G/066 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARNE FARM, TREMAYNE - WELL A Data Type: Point Name: Temby Easting: 164700 Northing: 35800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1448m NE	Status: Historical Licence No: 15/48/232/G/033 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOLITHO FARM - BOREHOLE A Data Type: Point Name: Streatfield Easting: 166900 Northing: 36200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 15/05/1972 Version End Date: -
-	1448m NE	Status: Historical Licence No: 15/48/232/G/033 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOREHOLE A - RUSSET, CROWAN Data Type: Point Name: Mills Easting: 166900 Northing: 36200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 22/08/2003 Version End Date: -
-	1472m NW	Status: Historical Licence No: 15/49/026/G/145 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: PRSOPECT FARM - WELL C Data Type: Point Name: Drew Easting: 164600 Northing: 35800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1523m NE	Status: Historical Licence No: 15/48/232/G/020 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BOLITHO FARM - WELL B Data Type: Point Name: Ripley Easting: 167300 Northing: 35800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 21/04/1976 Version End Date: -
-	1526m N	Status: Historical Licence No: 15/49/026/G/001 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BOSWYN FARM - WELL B Data Type: Point Name: Dalley Easting: 166300 Northing: 36600	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -



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Grid ref: 165912 035100

ID	Location	Details	
-	1563m S	Status: Historical Licence No: 15/48/232/G/070 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: RELEATH FARM - WELL A Data Type: Point Name: Roskilly Easting: 166100 Northing: 33500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1642m NW	Status: Historical Licence No: 15/49/026/G/147 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BODRIVIAL FARM - WELL A Data Type: Point Name: Gorst Easting: 165200 Northing: 36600	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/11/1975 Version End Date: -
-	1679m N	Status: Historical Licence No: 15/49/026/G/002 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOSWYN FARM - WELL A Data Type: Point Name: Dalley Easting: 166500 Northing: 36700	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1696m NW	Status: Historical Licence No: 15/49/026/G/093 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: TRETHANNAS FARM - WELL A Data Type: Point Name: Rowe Easting: 164400 Northing: 35900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1696m NW	Status: Historical Licence No: 15/49/026/G/092 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: TRETHANNAS FARM - WELL B Data Type: Point Name: Rowe Easting: 164400 Northing: 35900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1743m NE	Status: Historical Licence No: 15/49/026/G/148 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARGENWEN FARM - BOREHOLE B Data Type: Point Name: Carter Easting: 167000 Northing: 36500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1782m N	Status: Historical Licence No: 15/49/026/G/040 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: COPPER HILL FARM - BOREHOLE A Data Type: Point Name: Mr & Mrs K G Howell & Mr & Mrs R & M L Dolbear Easting: 165900 Northing: 36900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 16/10/1992 Version End Date: -
-	1799m NE	Status: Historical Licence No: 15/48/232/G/095 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: DOWHA FARM - WELL A Data Type: Point Name: Pantling Easting: 167200 Northing: 36400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1836m NE	Status: Historical Licence No: 15/48/232/G/018 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HIGHER BOLITHO FARM - WELL A Data Type: Point Name: Pearce Easting: 167600 Northing: 35900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/12/1978 Version End Date: -
-	1845m SW	Status: Historical Licence No: 15/49/252/G/023 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "HEATHERVIEW, CROWAN - WELL" Data Type: Point Name: Basher Easting: 164900 Northing: 33500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1845m SW	Status: Historical Licence No: 15/49/252/G/023 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HEATHERVIEW, CROWAN - WELL Data Type: Point Name: Basher Easting: 164900 Northing: 33500	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -
-	1949m SE	Status: Historical Licence No: 15/48/232/G/104 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: LITTLE BOQUIO FARM - WELL A Data Type: Point Name: Credland Easting: 167400 Northing: 33800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/06/1996 Version End Date: -
-	1951m S	Status: Historical Licence No: 15/48/232/G/059 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: UNITED FARM - BOREHOLE A Data Type: Point Name: Cardew Easting: 165900 Northing: 33100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 19/12/1988 Version End Date: -
-	1959m S	Status: Historical Licence No: 15/48/232/G/127 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: RELEATH FARM - WELL C Data Type: Point Name: Marshall Easting: 166080 Northing: 33100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 22/08/1997 Expiry Date: - Issue No: 101 Version Start Date: 31/01/2005 Version End Date: -
-	1991m S	Status: Historical Licence No: 15/48/232/G/048 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: RELEATH FARM - WELL B Data Type: Point Name: Gluyas Easting: 166300 Northing: 33100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -

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



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Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

5.7 Surface water abstractions

Records within 2000m 5

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

Features are displayed on the Abstractions and Source Protection Zones map on page 34 >

ID	Location	Details	
-	906m W	Status: Historical Licence No: 15/49/026/S/035 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: CARGENWYN RES Data Type: Point Name: South West Water Services Ltd Easting: 165000 Northing: 35200	Annual Volume (m³): 454600 Max Daily Volume (m³): 2182 Original Application No: 8173 Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
	1182m N	Status: Historical Licence No: 15/49/026/S/057 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: "15/49/026/S/057,S1,BOSWYN STREAM" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/S/057 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: 15/49/026/S/057,S1,BOSWYN STREAM Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: NPS/WR/031357 Original Start Date: 31/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 15/03/2019 Version End Date: -
-	1331m SW	Status: Active Licence No: 15/49/252/S/004 Details: Hydroelectric Power Generation Direct Source: Surface Water - Fresh Point: MANOR MILL, CROWAN Data Type: Point Name: Willis Easting: 164800 Northing: 34300	Annual Volume (m³): 1240909 Max Daily Volume (m³): 7272.7 Original Application No: 9056 Original Start Date: 30/09/1967 Expiry Date: - Issue No: 101 Version Start Date: 27/08/2004 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1331m SW	Status: Historical Licence No: 15/49/252/S/004 Details: Hydroelectric Power Generation Direct Source: Surface Water - Fresh Point: "MANOR MILL, CROWAN" Data Type: Point Name: Willis Easting: 164800 Northing: 34300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/09/1967 Expiry Date: - Issue No: 101 Version Start Date: 04/10/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

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 34 >

ID	Location	Details	
С	402m W	Status: Historical Licence No: 15/49/252/G/074 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: CARN VIEW - BOREHOLE Data Type: Point Name: Needham Easting: 165500 Northing: 35000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 21/10/2004 Version End Date: -
D	431m NW	Status: Historical Licence No: 15/49/026/G/214 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: CARGENWEN FARM - BOREHOLE Data Type: Point Name: Blumenau Easting: 165620 Northing: 35440	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/05/1999 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	906m W	Status: Historical Licence No: 15/49/026/S/035 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: CARGENWYN RES Data Type: Point Name: South West Water Services Ltd Easting: 165000 Northing: 35200	Annual Volume (m³): 454600 Max Daily Volume (m³): 2182 Original Application No: 8173 Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1045m NE	Status: Historical Licence No: 15/49/026/G/217 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: HIGHDOWNS - BOREHOLE Data Type: Point Name: Coleman Easting: 166410 Northing: 36050	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 15/01/2001 Expiry Date: - Issue No: 101 Version Start Date: 13/05/2002 Version End Date: -
-	1045m NE	Status: Historical Licence No: 15/49/026/G/217 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: HIGHDOWNS - BOREHOLE Data Type: Point Name: Coleman Easting: 166410 Northing: 36050	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 15/01/2001 Expiry Date: - Issue No: 101 Version Start Date: 13/05/2002 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: "15/49/026/G/189,G4,COPPER HILL ADIT" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: "15/49/026/G/189,G6,BOSWYN SHAFT" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -





Grid ref: 165912 035100

ID	Location	Details	
-	1182m N	Status: Historical Licence No: 15/49/026/S/057 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: "15/49/026/S/057,S1,BOSWYN STREAM" Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: 15/49/026/G/189,G4,COPPER HILL ADIT Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/G/189 Details: Potable Water Supply - Direct Direct Source: Ground Water - Fresh Point: 15/49/026/G/189,G6,BOSWYN SHAFT Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1984 Version End Date: -
-	1182m N	Status: Historical Licence No: 15/49/026/S/057 Details: Potable Water Supply - Direct Direct Source: Surface Water - Fresh Point: 15/49/026/S/057,S1,BOSWYN STREAM Data Type: Point Name: South West Water Services Ltd Easting: 165900 Northing: 36300	Annual Volume (m³): 681900 Max Daily Volume (m³): 6546 Original Application No: NPS/WR/031357 Original Start Date: 31/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 15/03/2019 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.





Grid ref: 165912 035100

5.10 Source Protection Zones (confined aquifer)

Records within 500m

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.

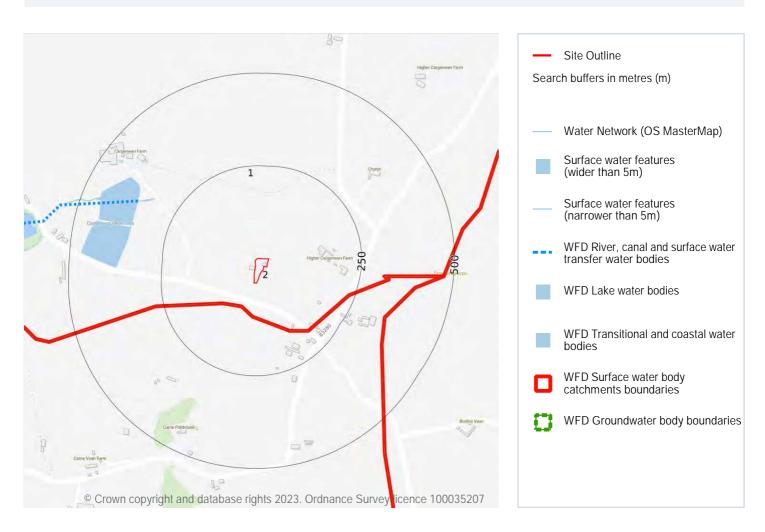
This data is sourced from the Environment Agency and Natural Resources Wales.





Grid ref: 165912 035100

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m 0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m 0

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.





Grid ref: 165912 035100

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 53 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Roseworthy Stream	GB108049000560	Hayle Red River and Northern Streams	Cornwall West and the Fal

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 53 >

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	354m NW	River	Roseworthy Stream	GB108049000560 /	Moderate	Fail	Moderate	2019

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





Grid ref: 165912 035100

1

6.5 WFD Groundwater bodies

Records on site

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 53 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	West Cornwall	GB40802G800100 /	Poor	Poor	Good	2019

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





Grid ref: 165912 035100

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m 0

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

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

7.3 Flood Defences

Records within 250m 0

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

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





Grid ref: 165912 035100

7.4 Areas Benefiting from Flood Defences

Records within 250m

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.





Grid ref: 165912 035100

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

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

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

7.7 Flood Zone 3

Records within 50m

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

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





Grid ref: 165912 035100

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	Negligible
Highest risk within 50m	Negligible

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.

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

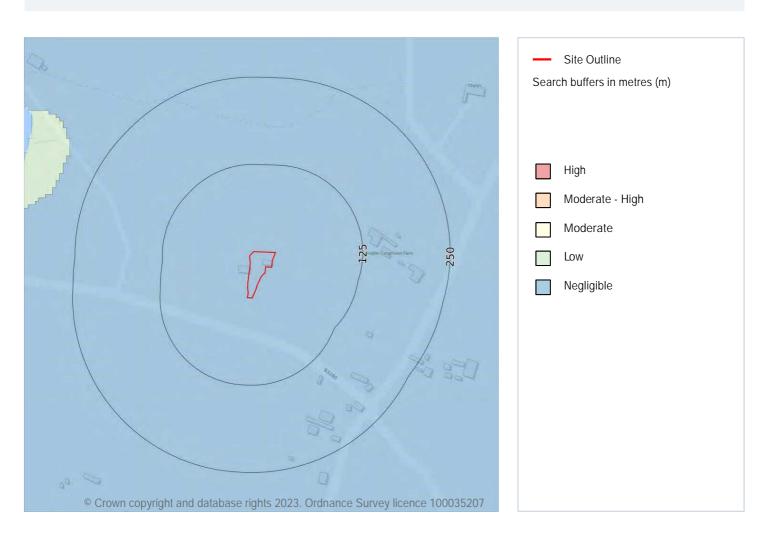
This data is sourced from Ambiental Risk Analytics.





Grid ref: 165912 035100

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site Negligible

Highest risk within 50m Negligible

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

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

This data is sourced from Ambiental Risk Analytics.





Grid ref: 165912 035100

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

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 renotified 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

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

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.



Contact us with any questions at: Date: 8 November 2023

info@groundsure.com /
01273 257 755



Grid ref: 165912 035100

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

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

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.





Grid ref: 165912 035100

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

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.





Grid ref: 165912 035100

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

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

Location	Name	Туре	NVZ ID	Status
51m S	Hayle	Groundwater	22	Existing
290m SE	The Loe Eutrophic lake NVZ	Eutrophic Water	110	Existing
1203m NE	The Loe Eutrophic lake NVZ	Eutrophic Water	110	Existing
1807m W	Hayle	Groundwater	22	Existing

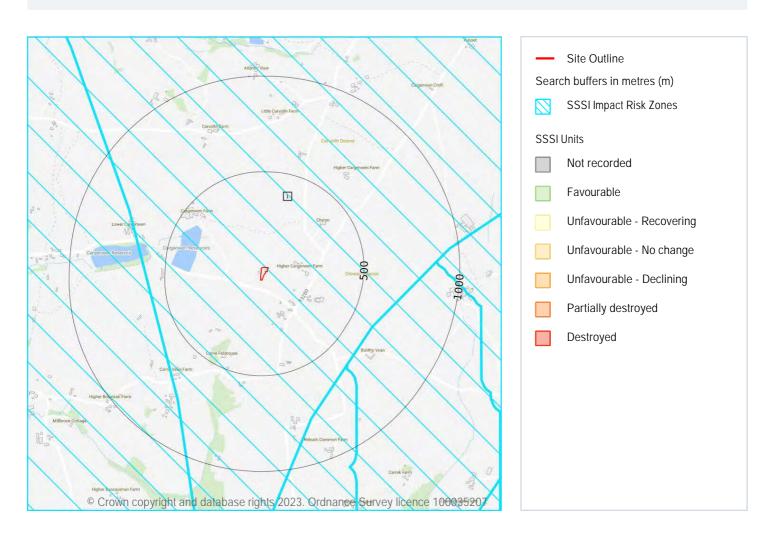
This data is sourced from Natural England and Natural Resources Wales.





Grid ref: 165912 035100

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 >





Grid ref: 165912 035100

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Discharges - Any discharge of water or liquid waste of more than 20m³day to ground (ie to seep away) or to surface water, such as a beck or stream Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m 0

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

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





Grid ref: 165912 035100

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

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

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.





Grid ref: 165912 035100

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

11.5 Conservation Areas

Records within 250m 0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m 0

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

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

11.7 Registered Parks and Gardens

Records within 250m

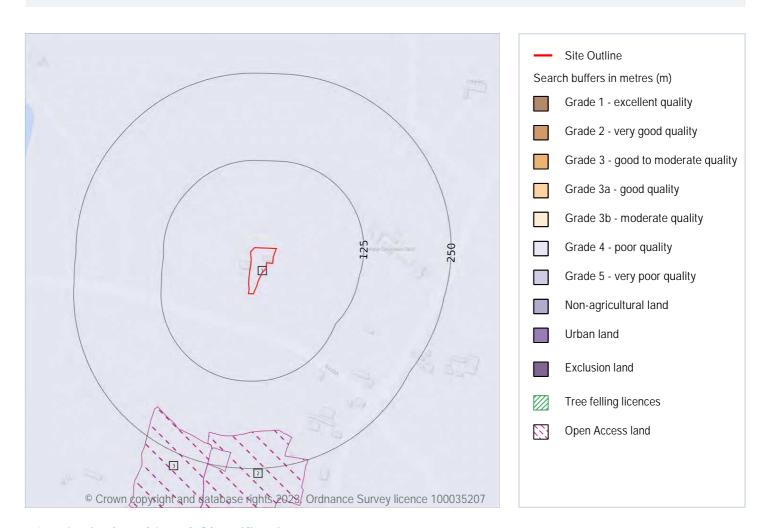
Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the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

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



Grid ref: 165912 035100

12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

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 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.





Grid ref: 165912 035100

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m 2

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.

Features are displayed on the Agricultural designations map on page 69 >

ID	Location	Name	Classification	Other relevant legislation
2	197m S	-	Section 4 Conclusive Open Country	-
3	207m SW	-	Section 4 Conclusive Open Country	-

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

12.3 Tree Felling Licences

Records within 250m 0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m 0

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

This data is sourced from Natural England.





Grid ref: 165912 035100

12.5 Countryside Stewardship Schemes

Records within 250m

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

This data is sourced from Natural England.





Grid ref: 165912 035100

13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m 0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

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 >





Grid ref: 165912 035100

ID	Location	Туре	Habitat
1	On site	Network Enhancement Zone 1	Not specified

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.

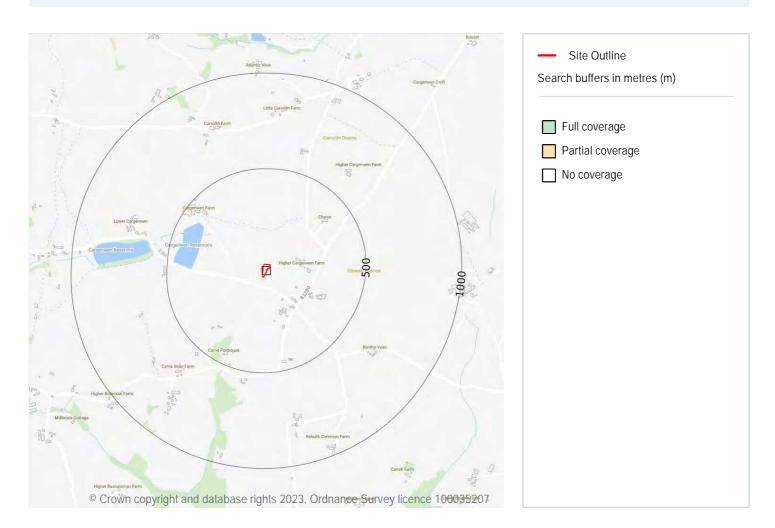
This data is sourced from Natural England.





Grid ref: 165912 035100

14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

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 74 >

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.





Grid ref: 165912 035100

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

14.2 Artificial and made ground (10k)

Records within 500m

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.





Grid ref: 165912 035100

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

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

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.





Grid ref: 165912 035100

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

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.

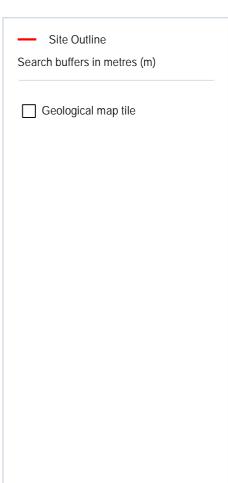




Grid ref: 165912 035100

15 Geology 1:50,000 scale - Availability





15.1 50k Availability

Records within 500m

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 78 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW352_falmouth_v4





Grid ref: 165912 035100

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

15.2 Artificial and made ground (50k)

Records within 500m

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

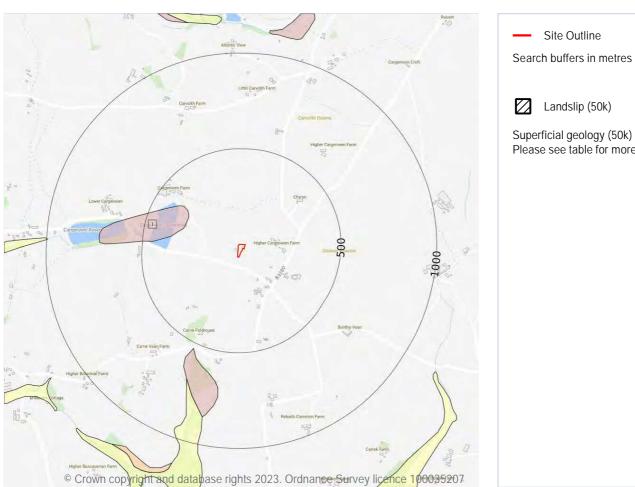
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).





Grid ref: 165912 035100

Geology 1:50,000 scale - Superficial



Search buffers in metres (m) Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m 1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 80 >

ID	Location	LEX Code	Description	Rock description
1	295m NW	HEAD- XCZSV	HE AD	CLAY, SILT, SAND AND GRAVEL





Grid ref: 165912 035100

15.5 Superficial permeability (50k)

Records within 50m

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).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

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).

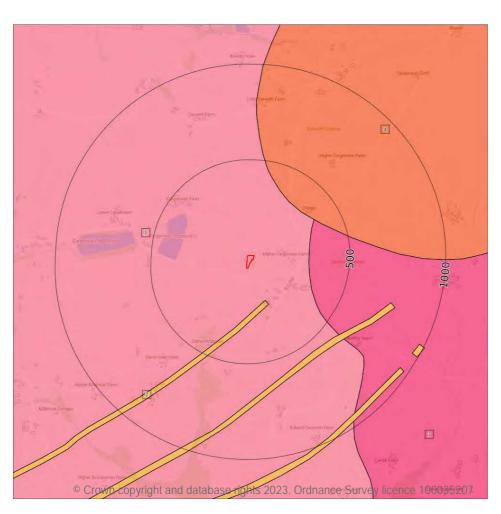
This data is sourced from the British Geological Survey.





Grid ref: 165912 035100

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

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 82 >

ID	Location	LEX Code	Description	Rock age
1	On site	CAIN-GN	CARNMENELLIS INTRUSION - GRANITE	-
2	191m S	UDP-FE LS	UNNAMED DYKE, PERMIAN - FELSITE	-
3	286m E	CAIN-MC GN	CARNMENELLIS INTRUSION - MICROGRANITE	-





Grid ref: 165912 035100

ID	Location	LEX Code	Description	Rock age
4	333m NE	CAIN- MCGNA	CARNMENELLIS INTRUSION - MICROGRANITE, APLITIC	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

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	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m 0

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

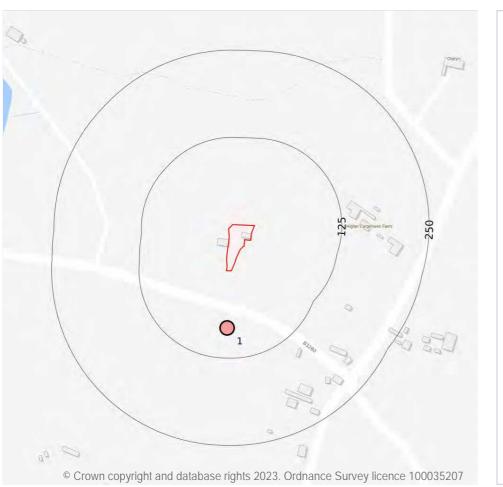
This data is sourced from the British Geological Survey.

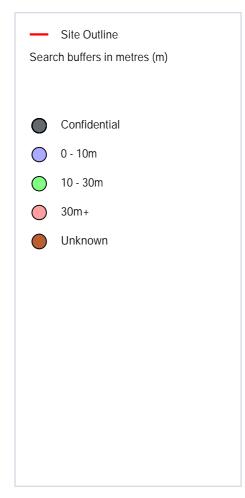




Grid ref: 165912 035100

16 Boreholes





16.1 BGS Boreholes

Records within 250m

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 84 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	82m S	165900 34970	CARNE COTTAGES, BLACK ROCK	44.8	N	<u>730705</u> ₹

This data is sourced from the British Geological Survey.

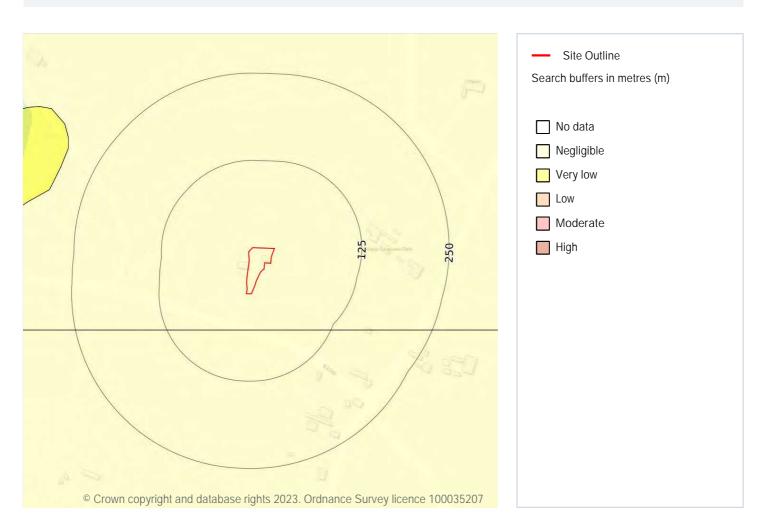


01273 257 755



Grid ref: 165912 035100

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

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 85 >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.





Grid ref: 165912 035100

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

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 86 >

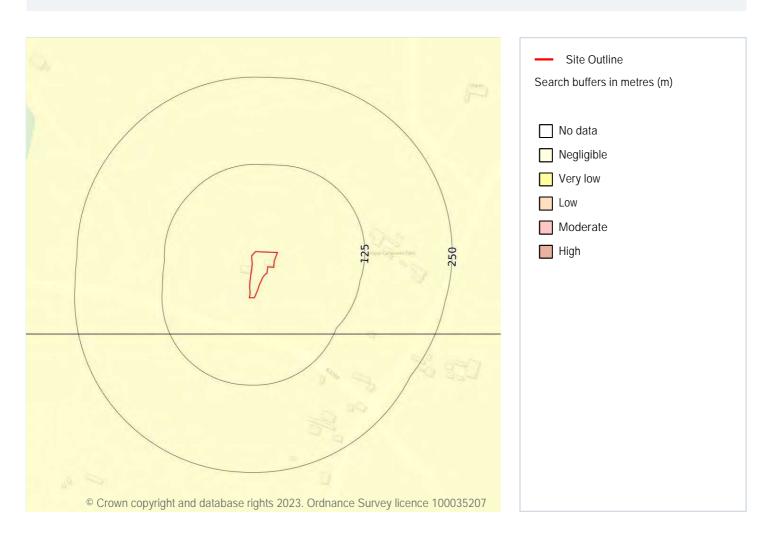
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.





Grid ref: 165912 035100

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

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 87 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.





Grid ref: 165912 035100

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

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 88 >

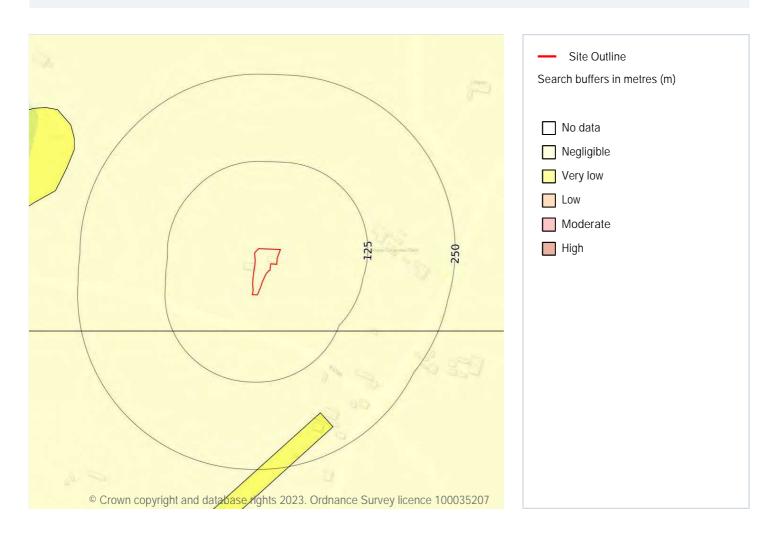
Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.





Grid ref: 165912 035100

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

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 89 >

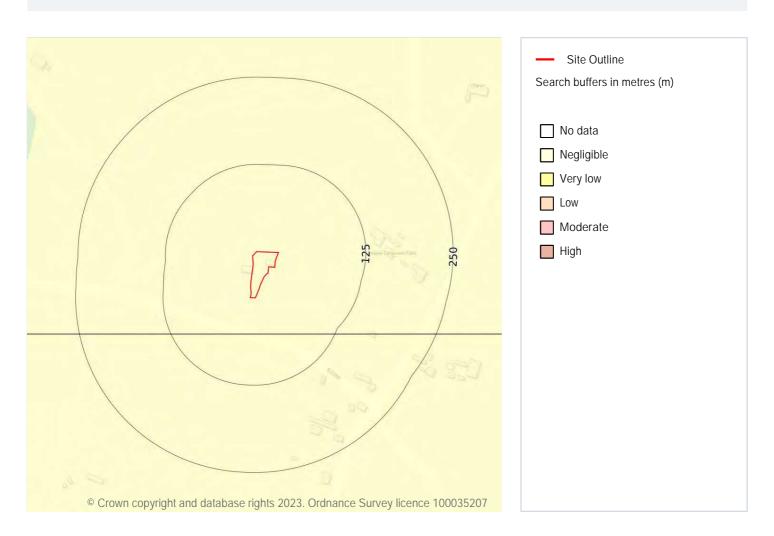
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.





Grid ref: 165912 035100

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

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 90

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.





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

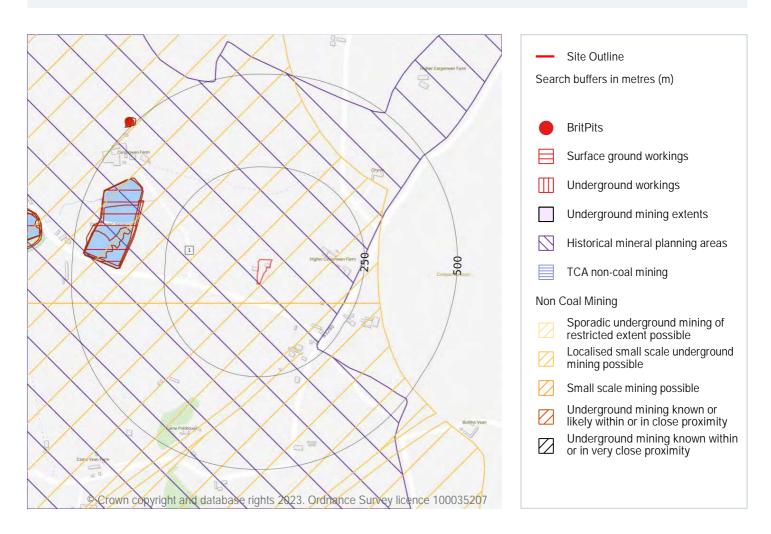
This data is sourced from the British Geological Survey.





Grid ref: 165912 035100

18 Mining and ground workings



18.1 BritPits

Records within 500m 0

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





Grid ref: 165912 035100

18.2 Surface ground workings

Records within 250m 0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m 4

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

Features are displayed on the Mining and ground workings map on page 92 >

ID	Location	Land Use	Year of mapping	Mapping scale	
-	730m N	Unspecified Old Shaft	1958	1:10560	
-	732m N	Mine Shafts	1979	1:10000	
-	736m N	Unspecified Shaft	1878	1:10560	
-	736m N	Unspecified Old Shaft	1908	1:10560	

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

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

Features are displayed on the Mining and ground workings map on page 92 >





Grid ref: 165912 035100

ID	Location	Site Name	Mineral	Туре	Planning Status	Planning Status Date
1	On site	Crowan, praze-an-Bee	Tin	Working is wholly underground	Application	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m 6

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 and ground workings map on page 92 >

ID	Location	Name	Commodity	Class	Likelihood
2	On site	Not available	Vein Mineral	Ineral B Underground mine workings may have occurred or current mines may be working at significan modern engineering standards. Potential for conditions are unlikely and are at a level wher not be considered.	
3	52m S	Not available	Vein Mineral	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
4	586m SE	Not available	Vein Mineral	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	899m W	Not available	Vein Mineral	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	900m W	Not available	Vein Mineral	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.





Your	rer:	23524	
Grid	ref:	165912	035100

ID	Location	Name	Commodity	Class	Likelihood
-	973m SE	Not available	Vein Mineral	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

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

This data is sourced from Groundsure.





Grid ref: 165912 035100

18.10 Mining record office plans

Records within 500m

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site 0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site 0

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

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

18.14 Gypsum areas

Records on site 0

01273 257 755

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.





1

Grid ref: 165912 035100

18.15 Tin mining

Records on site

Generalised areas that may be affected by historical tin mining.

Location Details

On site

The site is within an area where tin mining is reported to have occurred. This does not mean that the site is definitely directly affected but further consideration of tin mining is advised. Further mining searches are available at Groundsure.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site 0

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

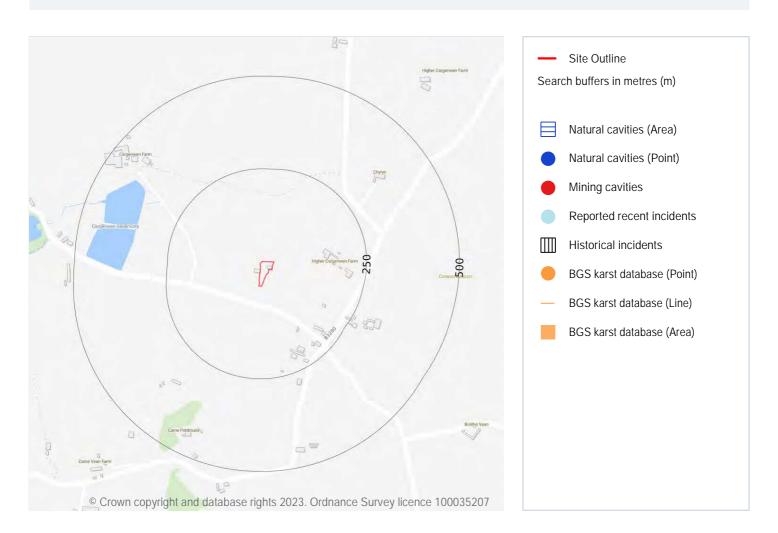
This data is sourced from the Kaolin and Ball Clay Association (UK).





Grid ref: 165912 035100

19 Ground cavities and sinkholes



19.1 Natural cavities

Records within 500m

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

This data is sourced from Stantec UK Ltd.





1

Grid ref: 165912 035100

19.2 Mining cavities

Records within 1000m

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

Features are displayed on the Ground cavities and sinkholes map on page 98 >

ID	Location	Mine Address	Mineral	Data source	Publisher
-	713m N	New Frances South, Praze- An-Beeble, Cornwall	Cassiterite, Tin, Tinstone	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m 0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m 0

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

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

01273 257 755

This data is sourced from Groundsure.





0

Grid ref: 165912 035100

19.5 National karst database

Records within 500m

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

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

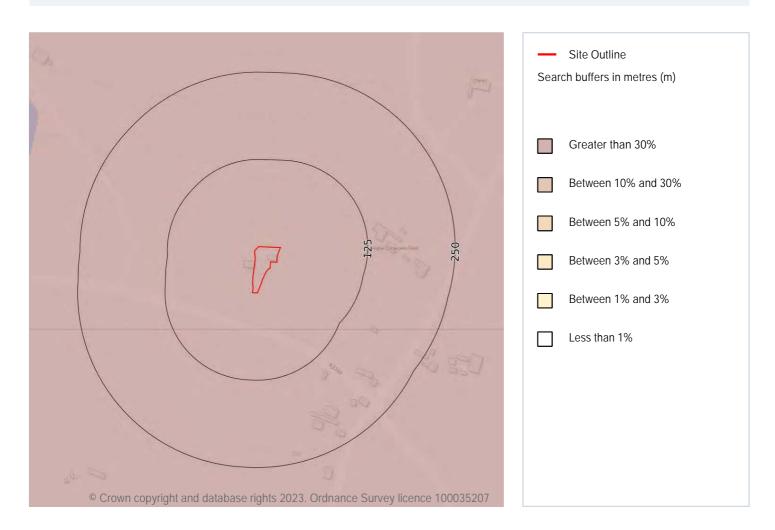
The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.





Grid ref: 165912 035100

20 Radon



20.1 Radon

Records on site 1

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

Features are displayed on the Radon map on page 101 >

Location	Estimated properties affected	Radon Protection Measures required
On site	Greater than 30%	Full





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Ref: GCL-CR7-SNR-4SS-XUG

Your ref: 23524 Grid ref: 165912 035100

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





Grid ref: 165912 035100

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

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	25 - 35 mg/kg	4 - 5 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

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.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

01273 257 755

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.





Grid ref: 165912 035100

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m 0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m 0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m 0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m 0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m 0

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





Grid ref: 165912 035100

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m 0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m 0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

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.





Grid ref: 165912 035100

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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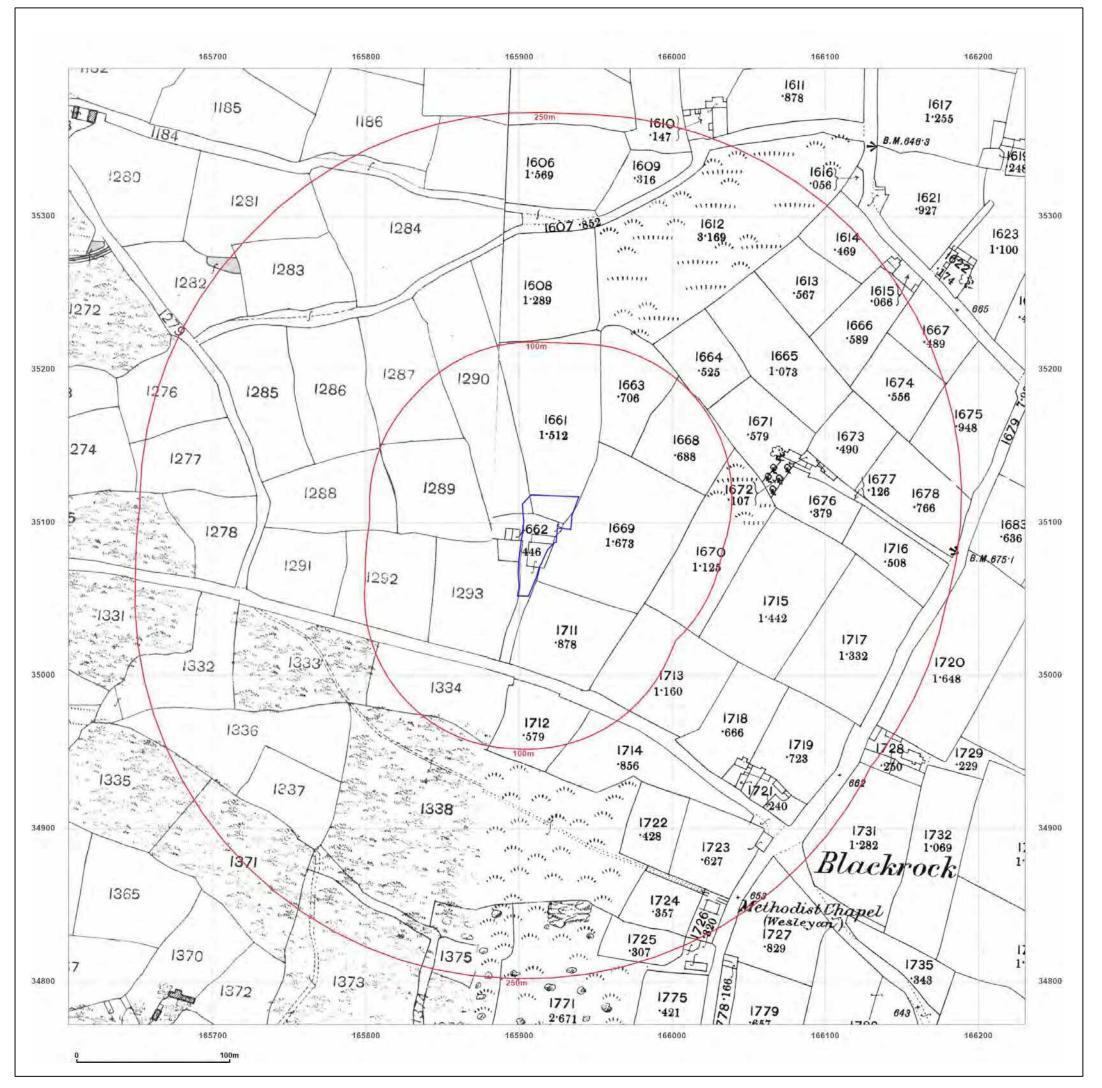
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Appendix C Historical Maps







HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

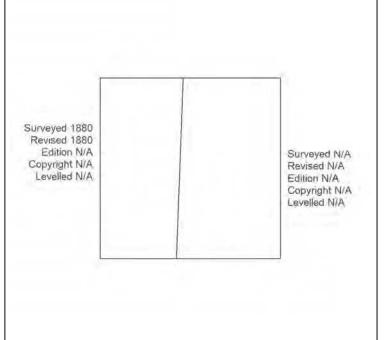
Grid Ref: 165918, 35084

Map Name: County Series

Map date: **1877-1880**

Scale: 1:2,500

Printed at: 1:2,500







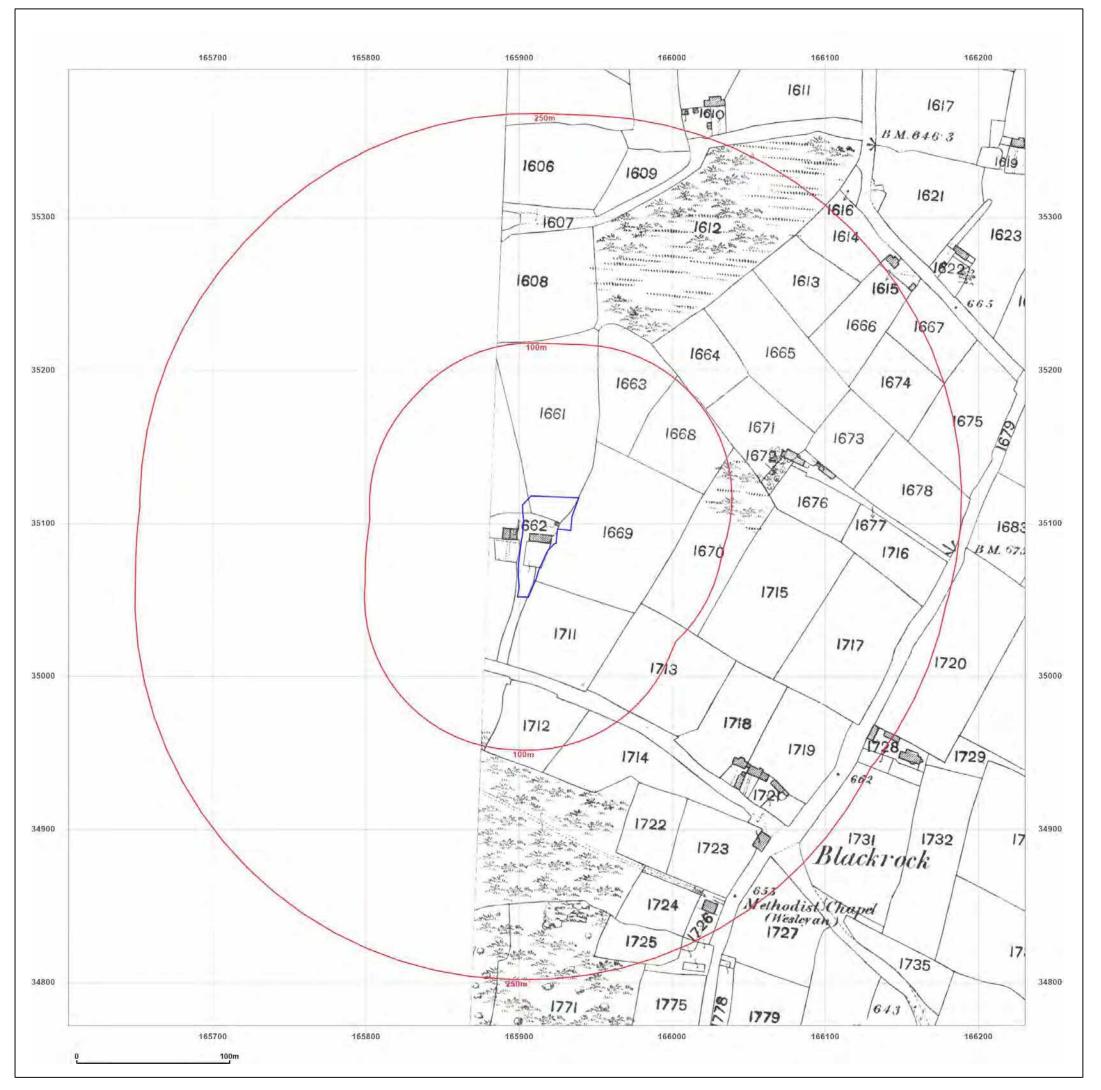
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Production date: 08 November 2023

Map legend available at:





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

Grid Ref: 165918, 35084

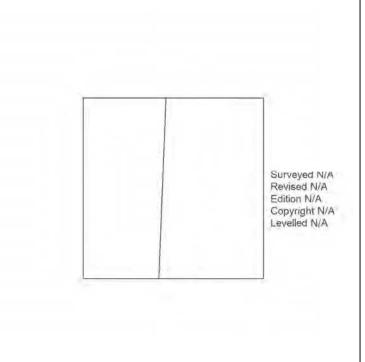
Map Name: County Series

Map date: **1880**

1:2,500

Printed at: 1:2,500

Scale:



W





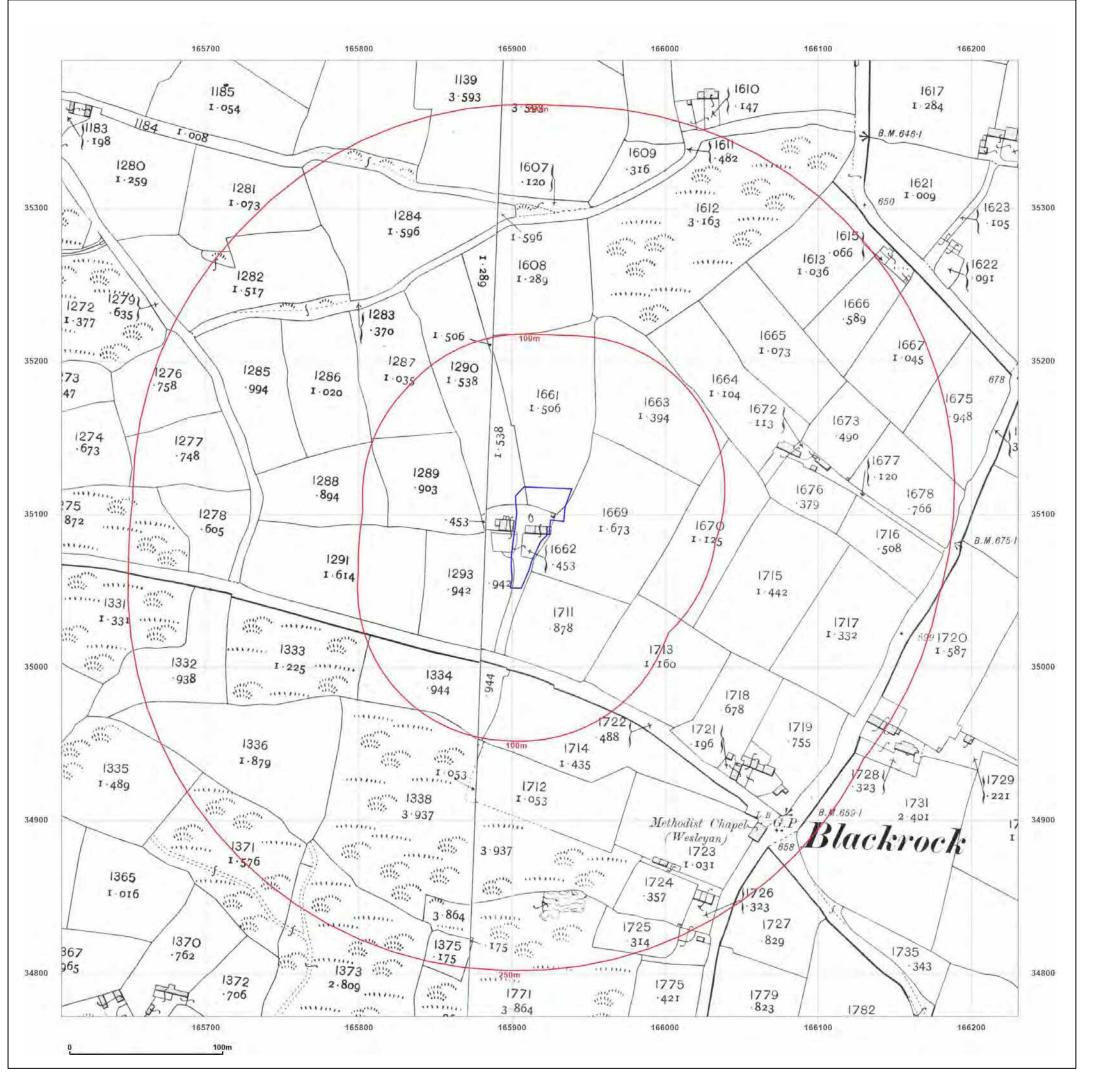
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Production date: 08 November 2023

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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

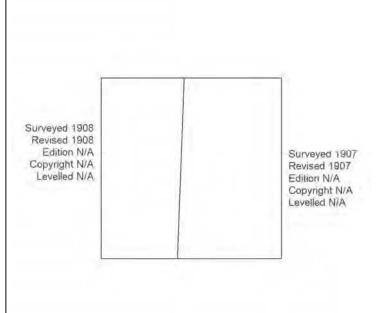
Grid Ref: 165918, 35084

Map Name: County Series

Map date: 1907-1908

Scale: 1:2,500

Printed at: 1:2,500



W





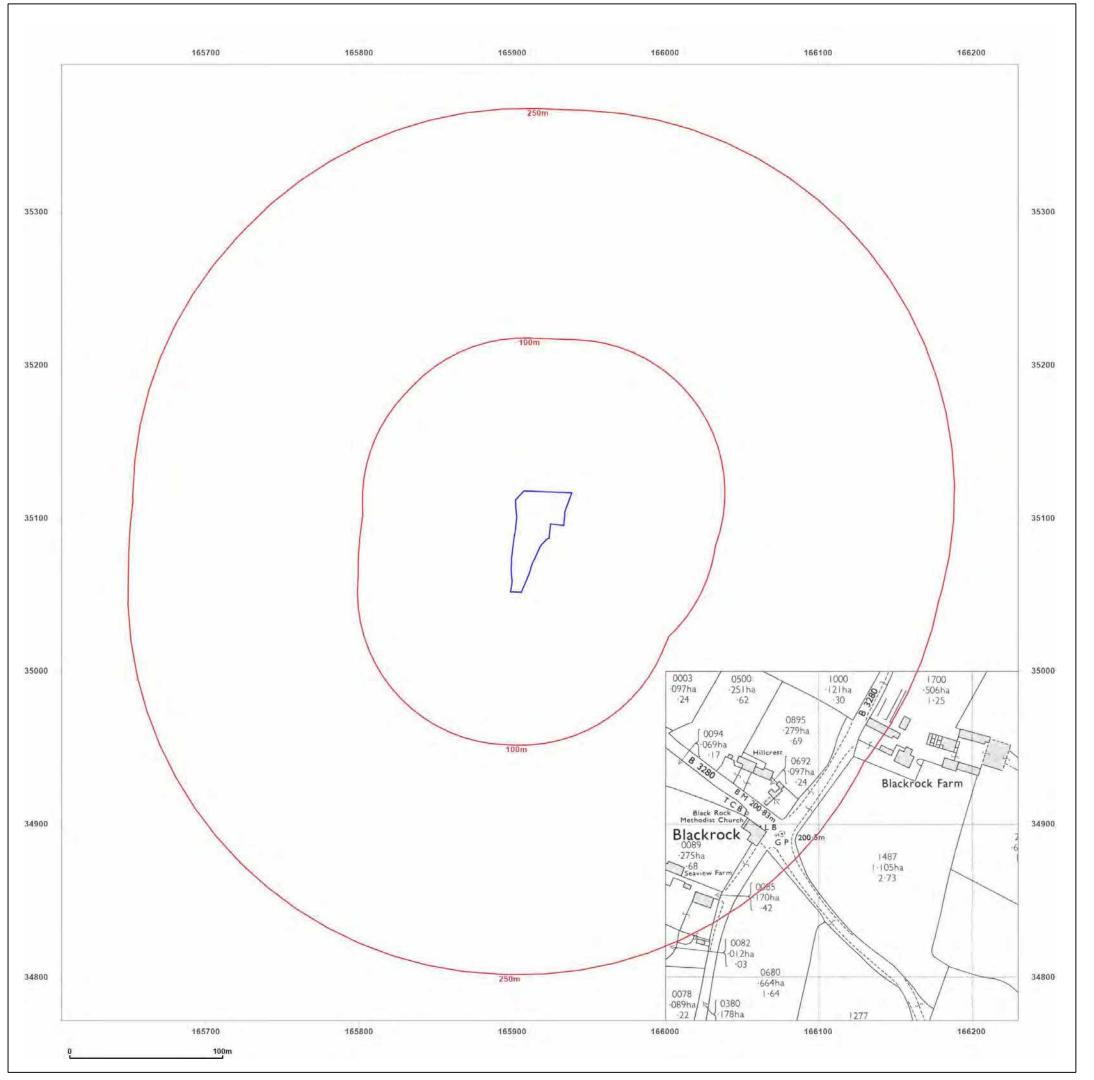
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HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

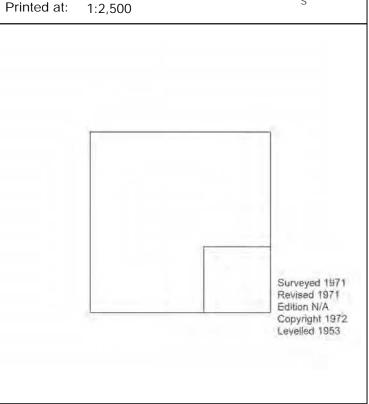
Report Ref: GCL-CVS-YAG-FBR-I4T

165918, 35084 Grid Ref:

Map Name: National Grid

1971 Map date:

Scale: 1:2,500







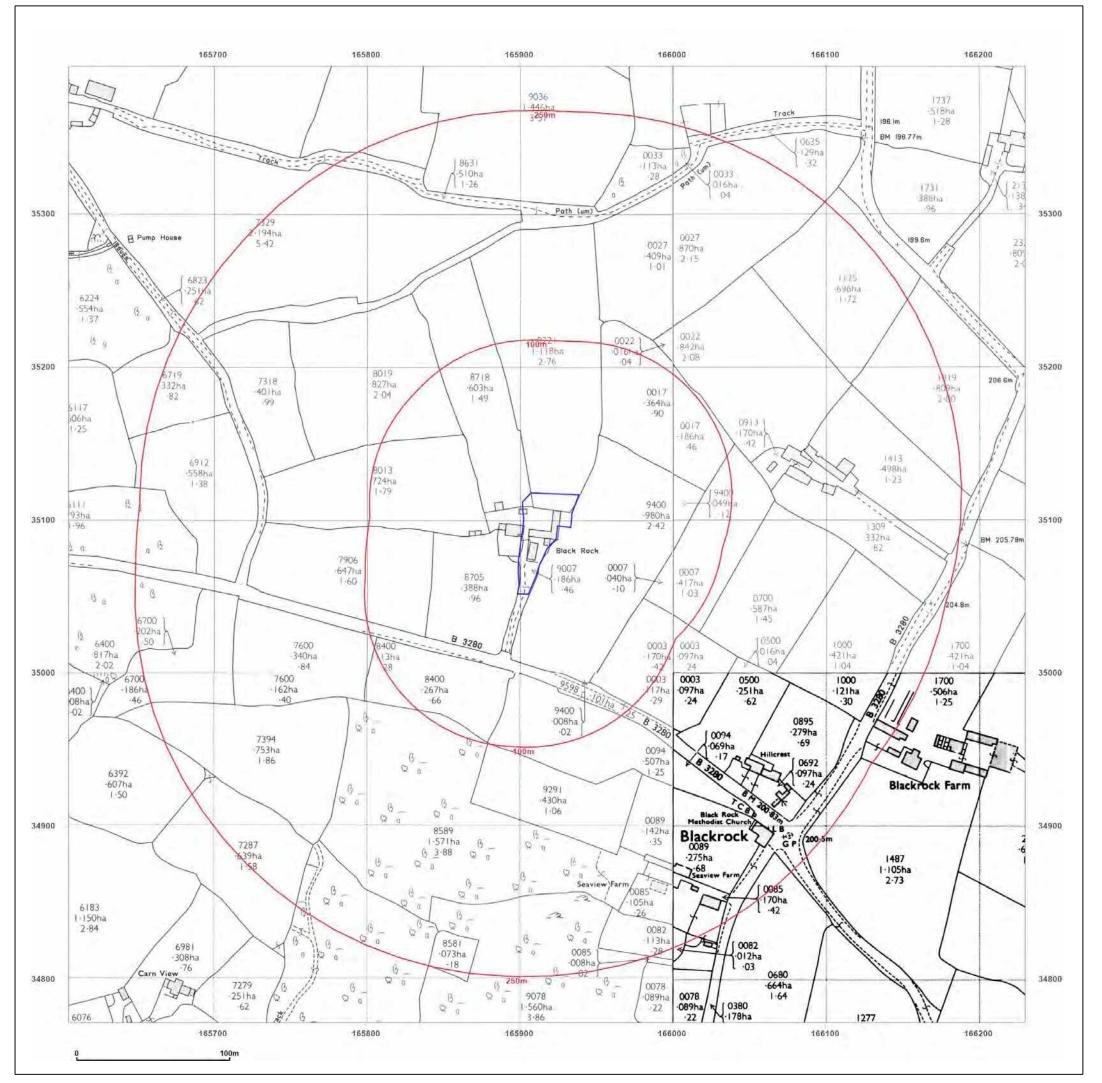
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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

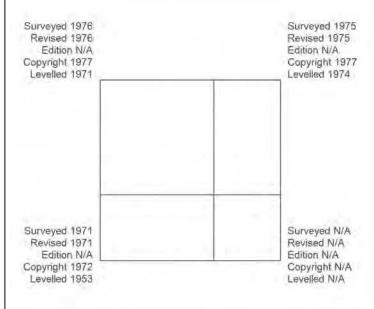
Grid Ref: 165918, 35084

Map Name: National Grid

Map date: 1971-1976

Scale: 1:2,500

Printed at: 1:2,500







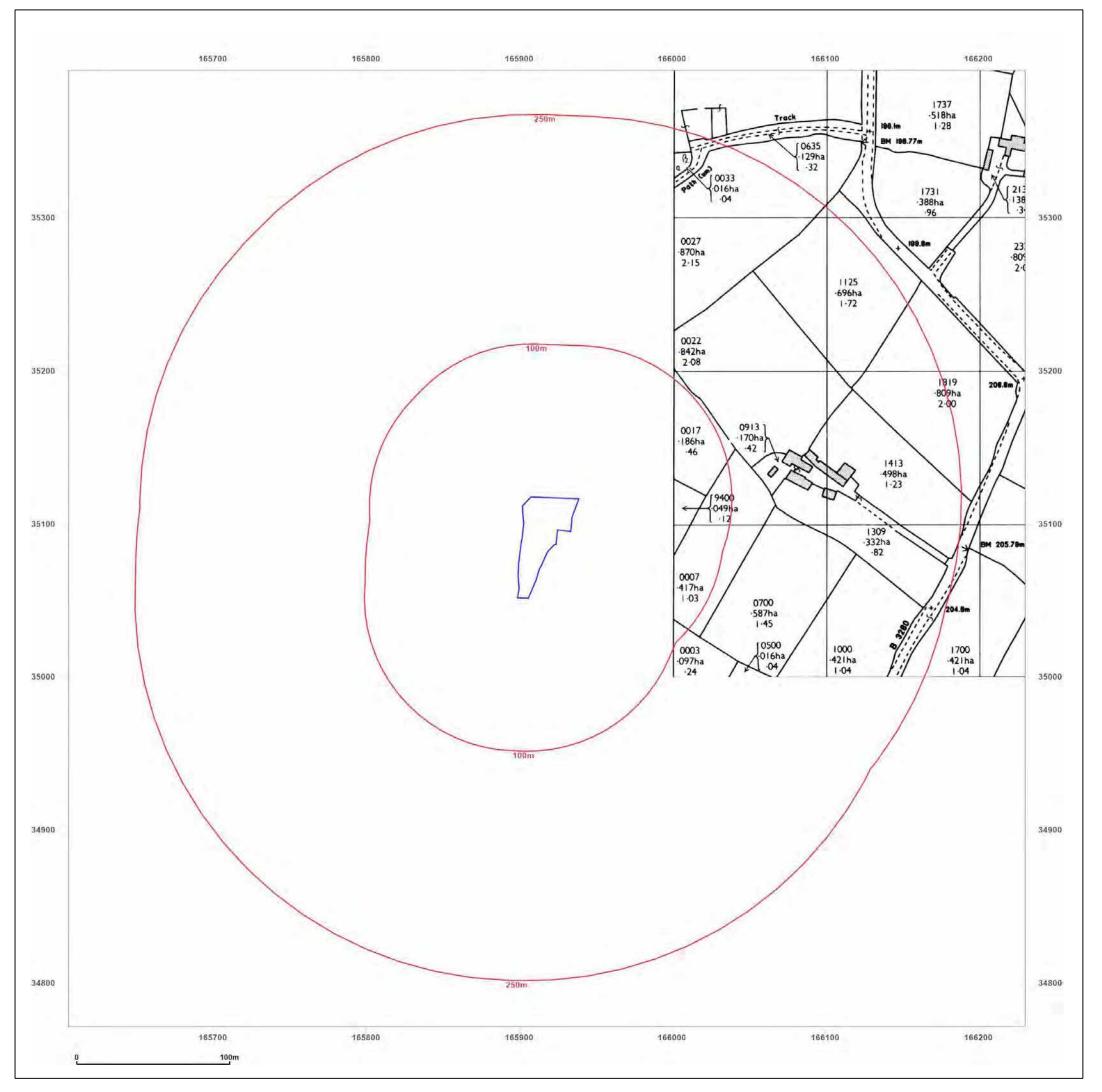
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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

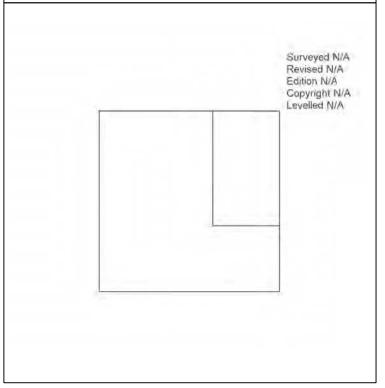
Grid Ref: 165918, 35084

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500







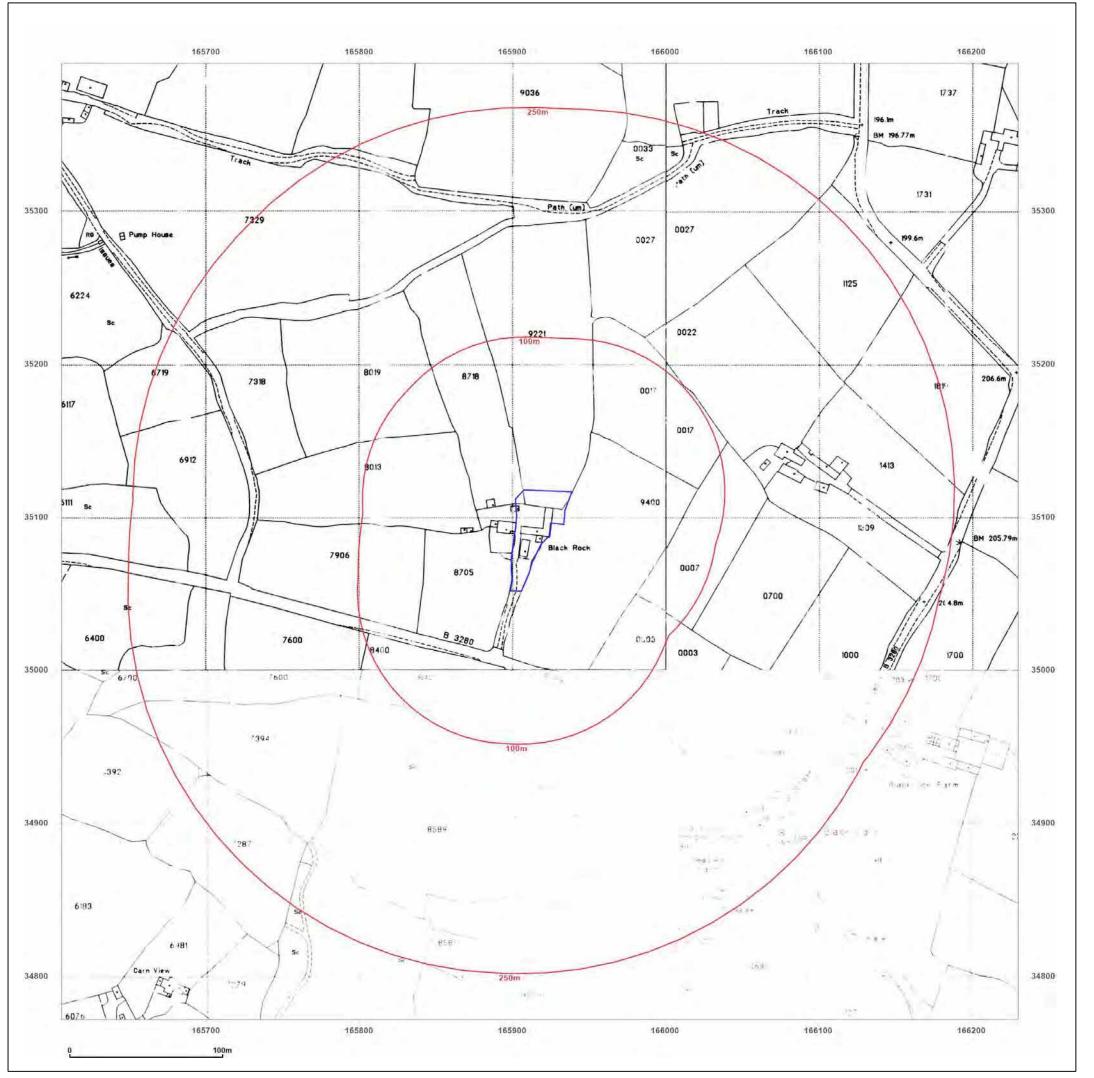
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HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

Grid Ref: 165918, 35084

Map Name: National Grid

Map date: 1994-1995

Scale: 1:2,500

Printed at: 1:2,500

Surveyed N/A Surveyed N/A Revised N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A Edition N/A Copyright 1994 Levelled N/A Surveyed 1995 Surveyed 1995 Revised N/A Revised N/A Edition N/A Edition N/A Copyright 1995 Levelled N/A Copyright 1995 Levelled N/A





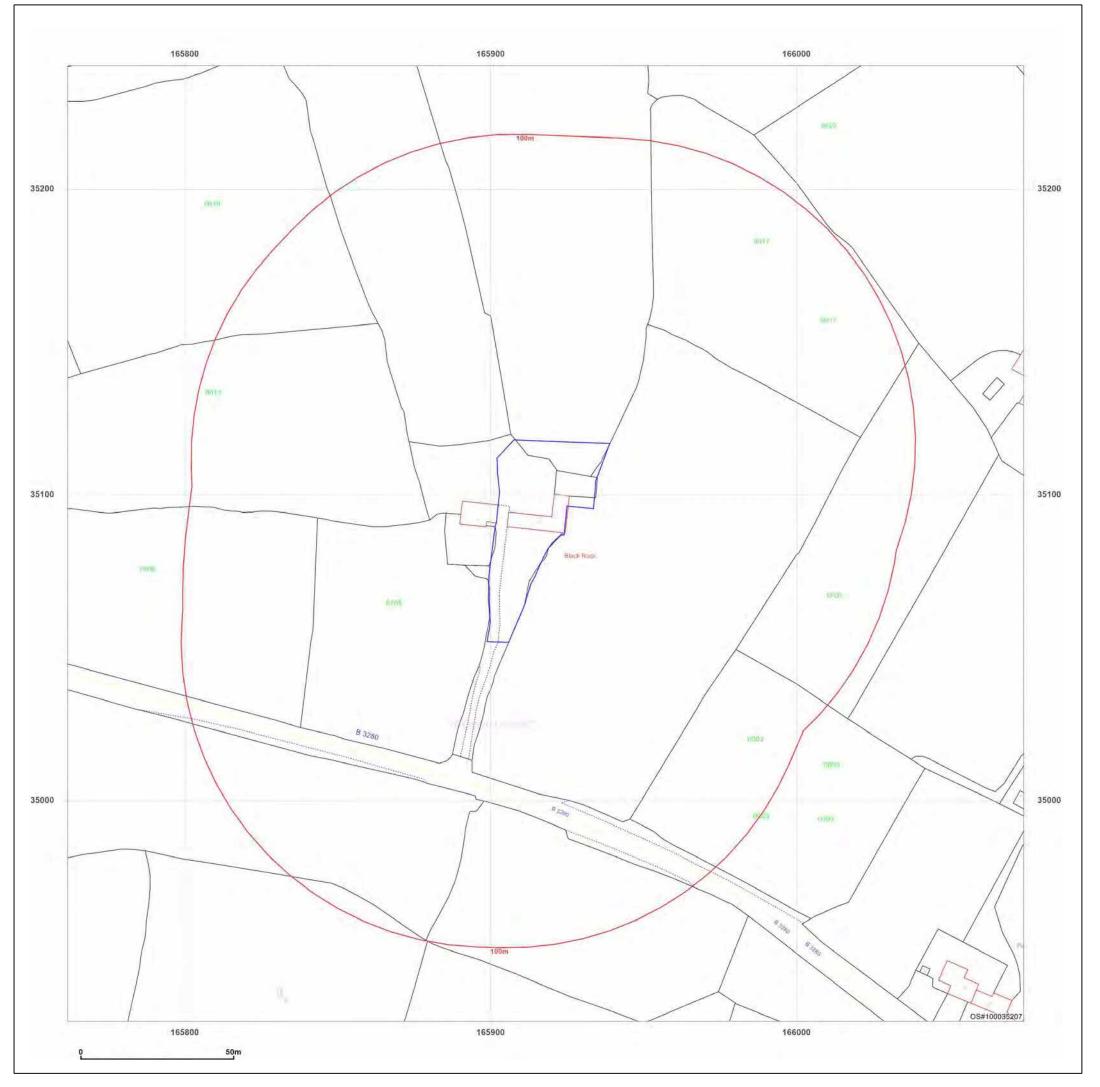
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HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

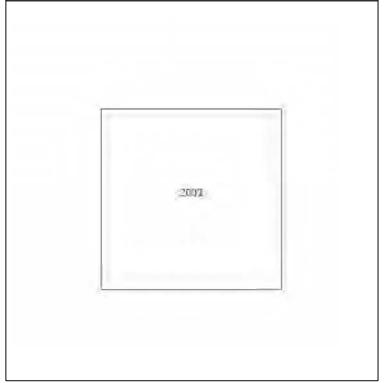
Grid Ref: 165918, 35084

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250







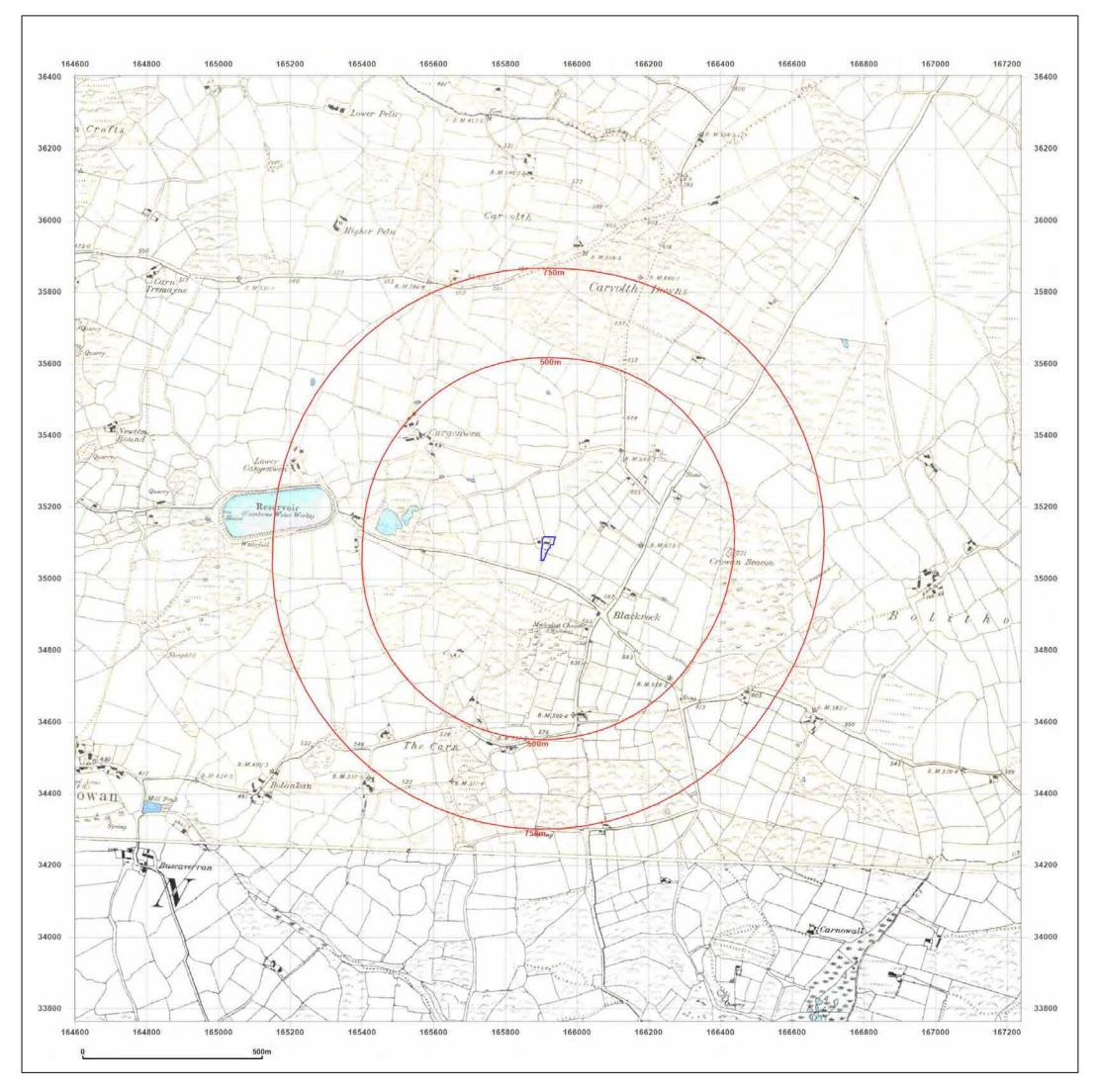
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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

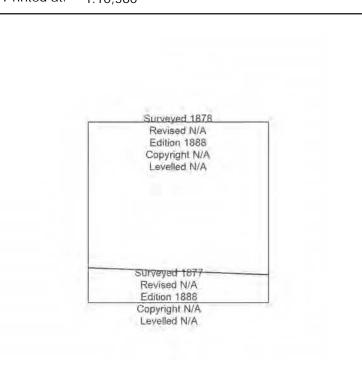
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Map Name: County Series

Map date: 1888

Scale: 1:10,560

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W





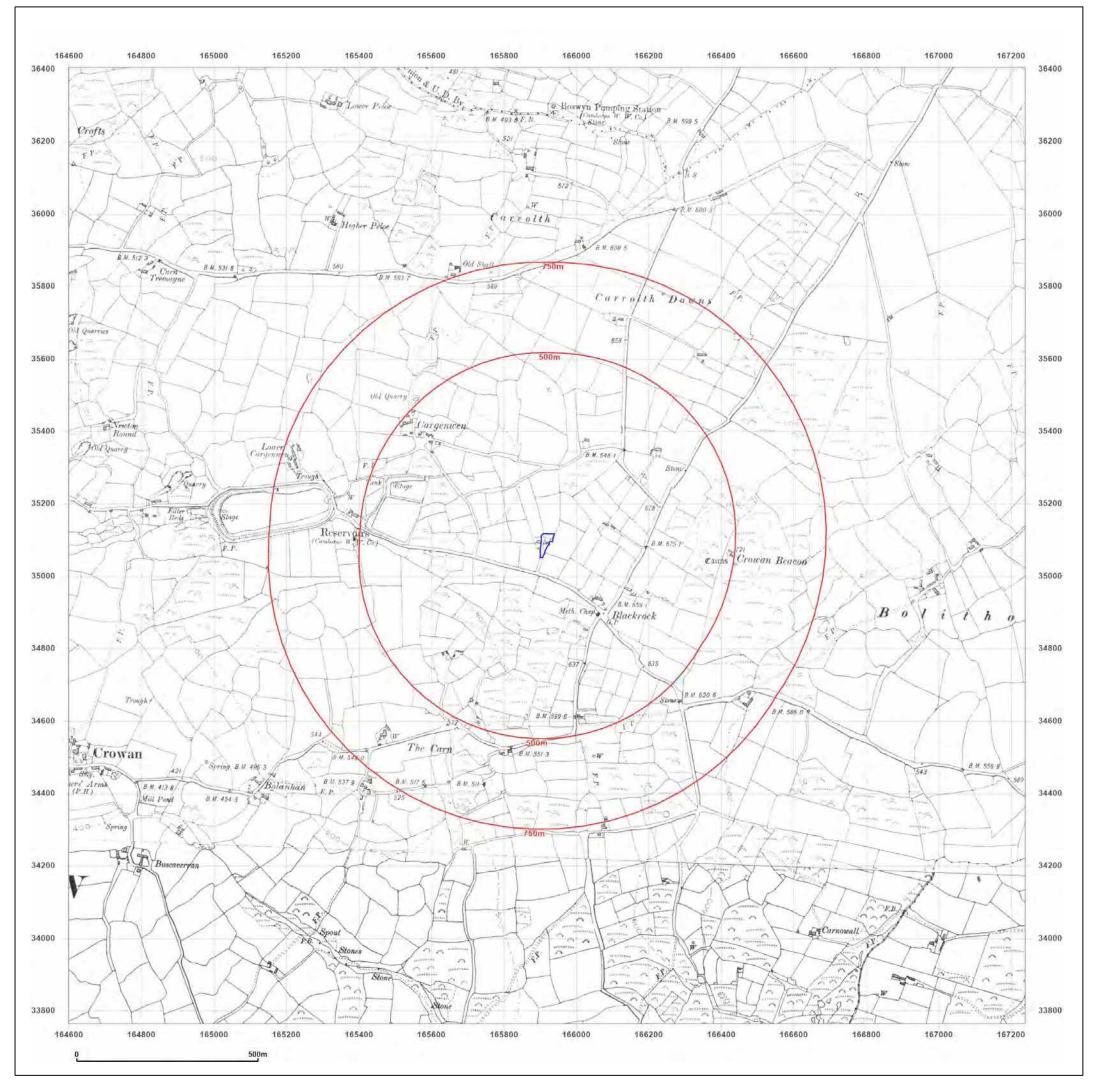
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Production date: 08 November 2023

Map legend available at:





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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

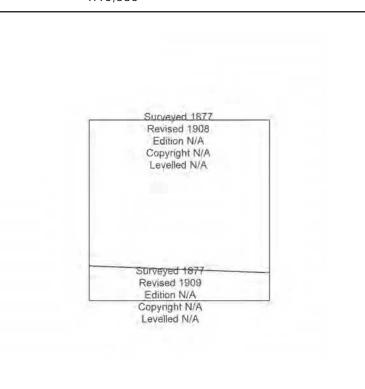
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Map Name: County Series

Map date: 1908-1909

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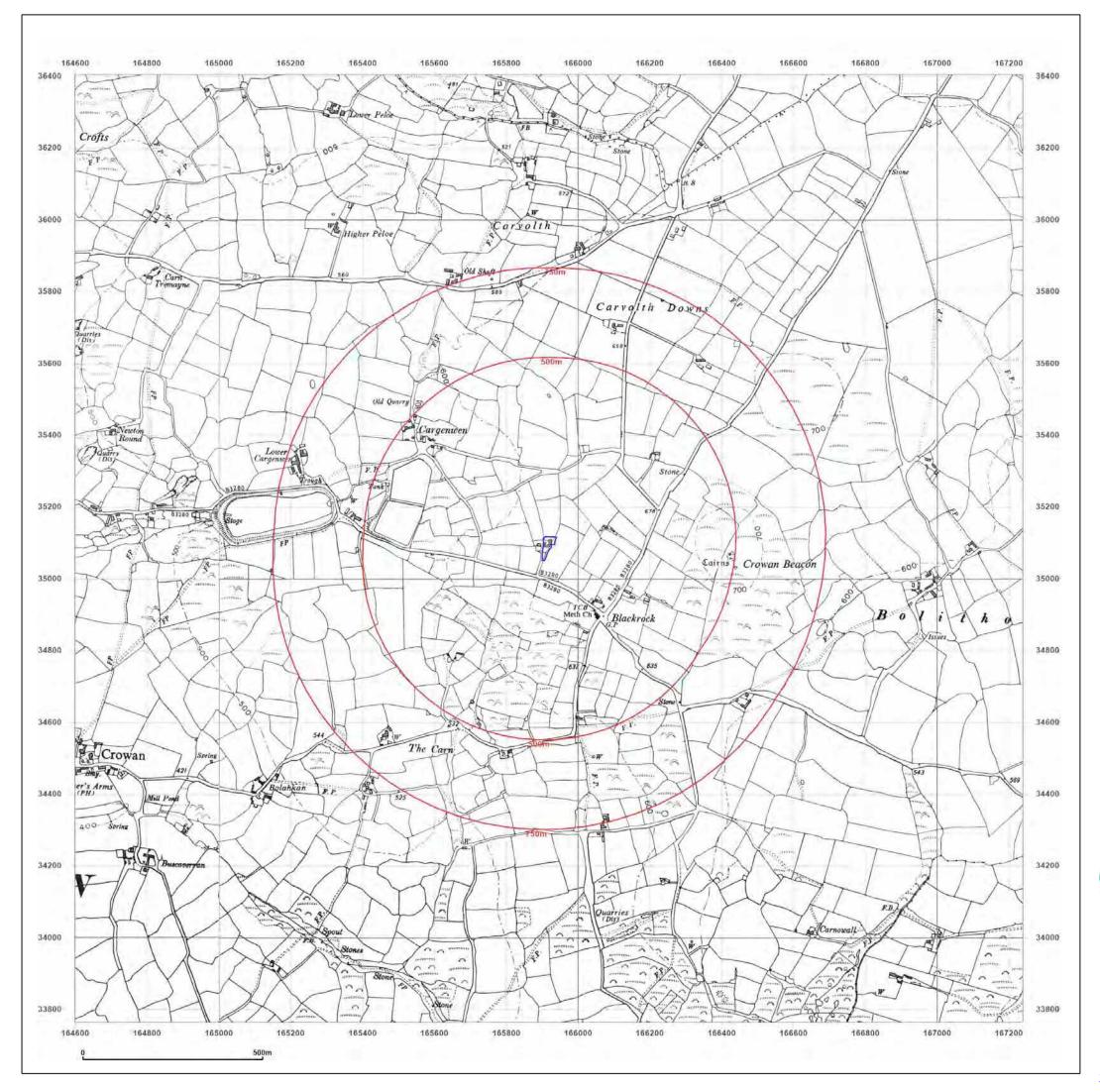
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Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

Grid Ref: 165918, 35084

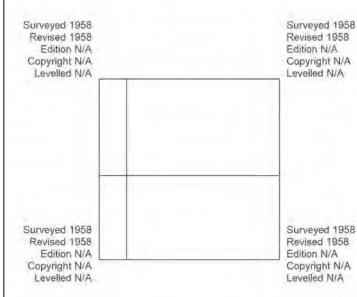
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Map date: 1958

Scale:

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Printed at: 1:10,560



W





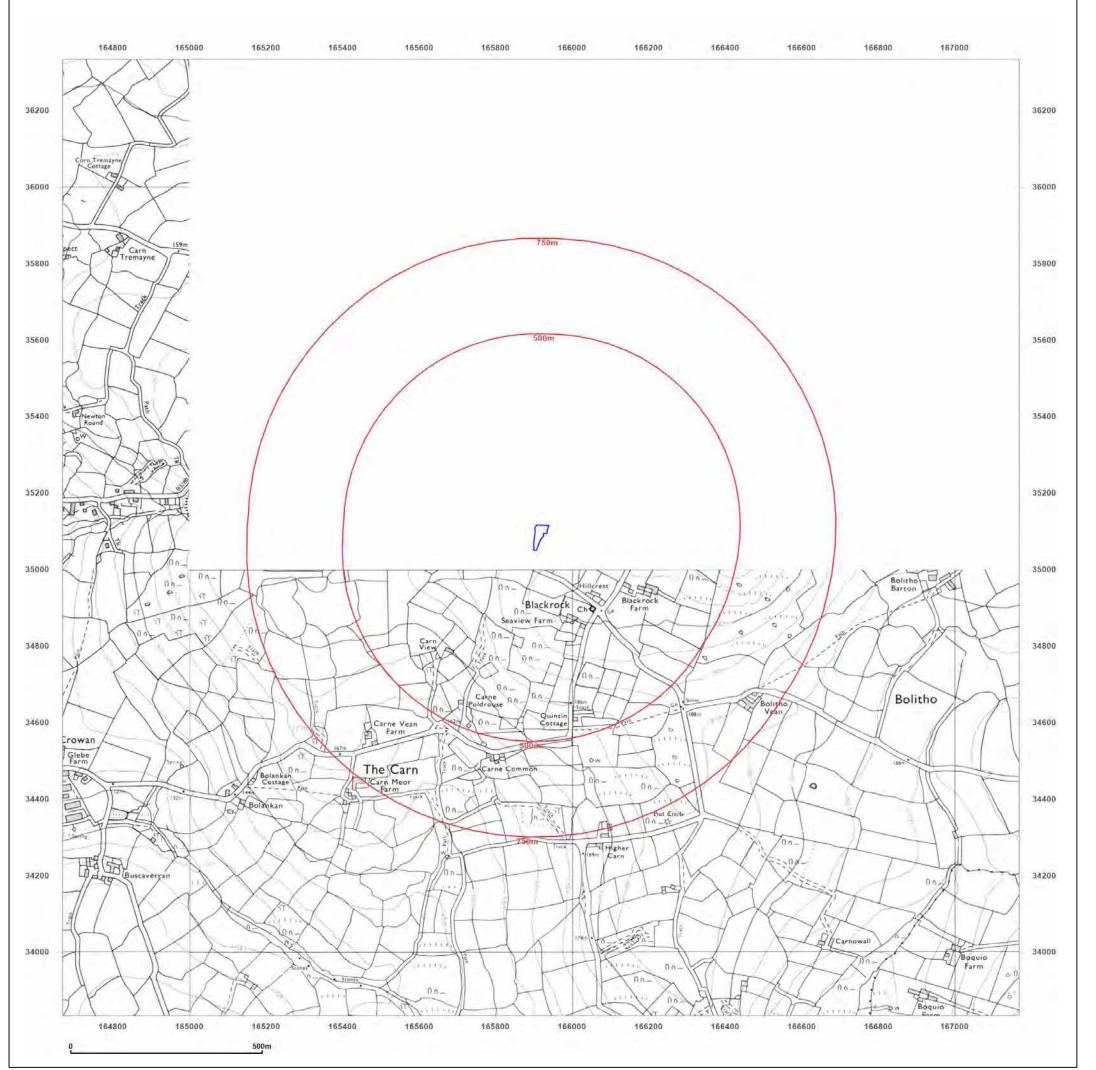
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HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

Grid Ref: 165918, 35084

Map Name: National Grid

1975-1978 Map date:

1:10,000

Printed at: 1:10,000

Scale:

Surveyed 1976 Revised 1978 Edition N/A Copyright N/A Levelled N/A

W

Surveyed 1971

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Copyright 1975 Levelled N/A

Edition N/A



Surveyed 1972

Revised 1975

Copyright 1975

Edition N/A

Levelled N/A



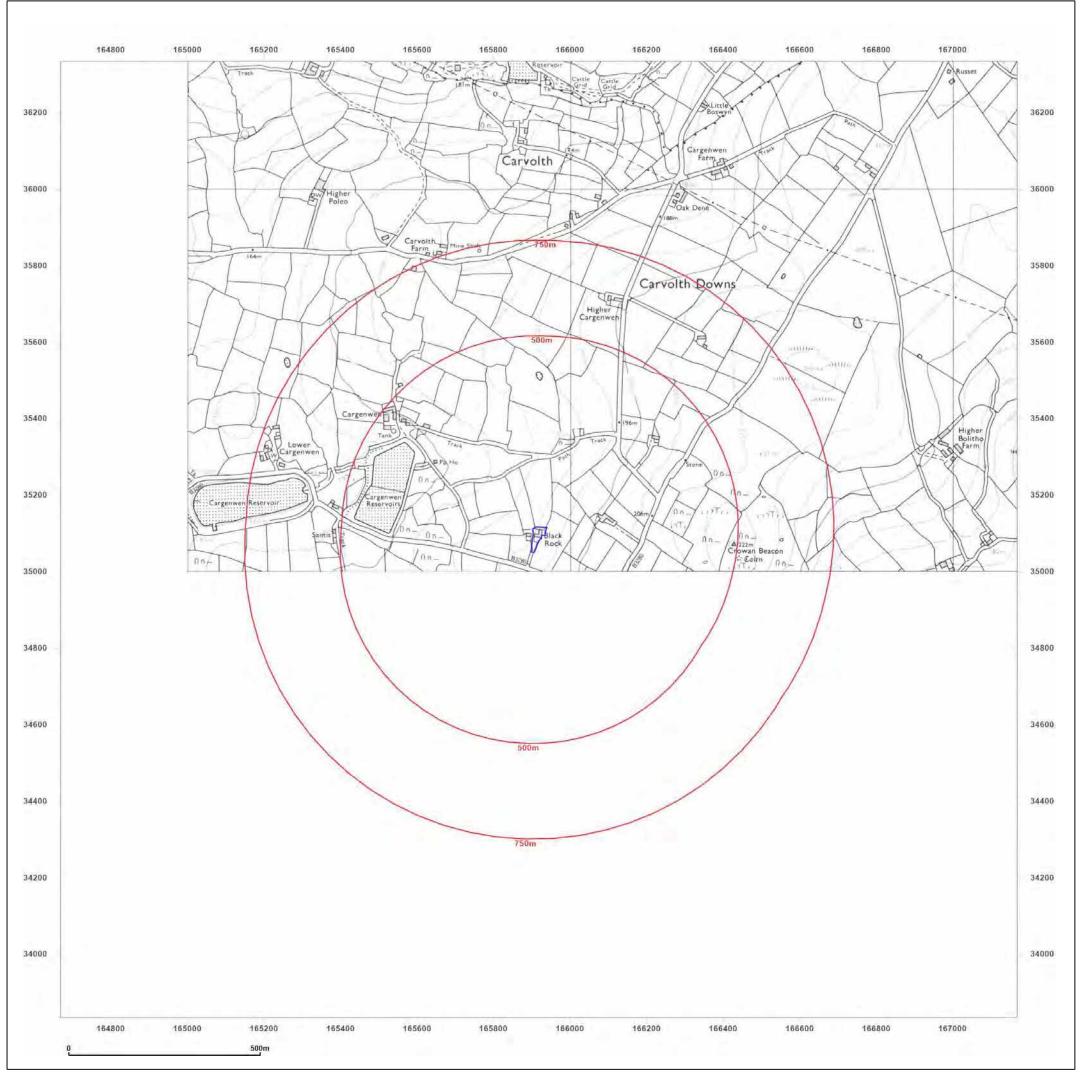
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Map legend available at:





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

Grid Ref: 165918, 35084

Map Name: National Grid

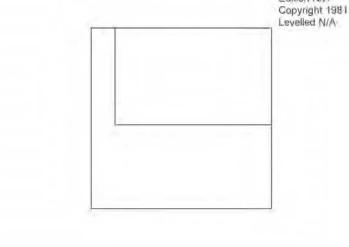
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Surveyed 1975 Revised 1981 Edition N/A

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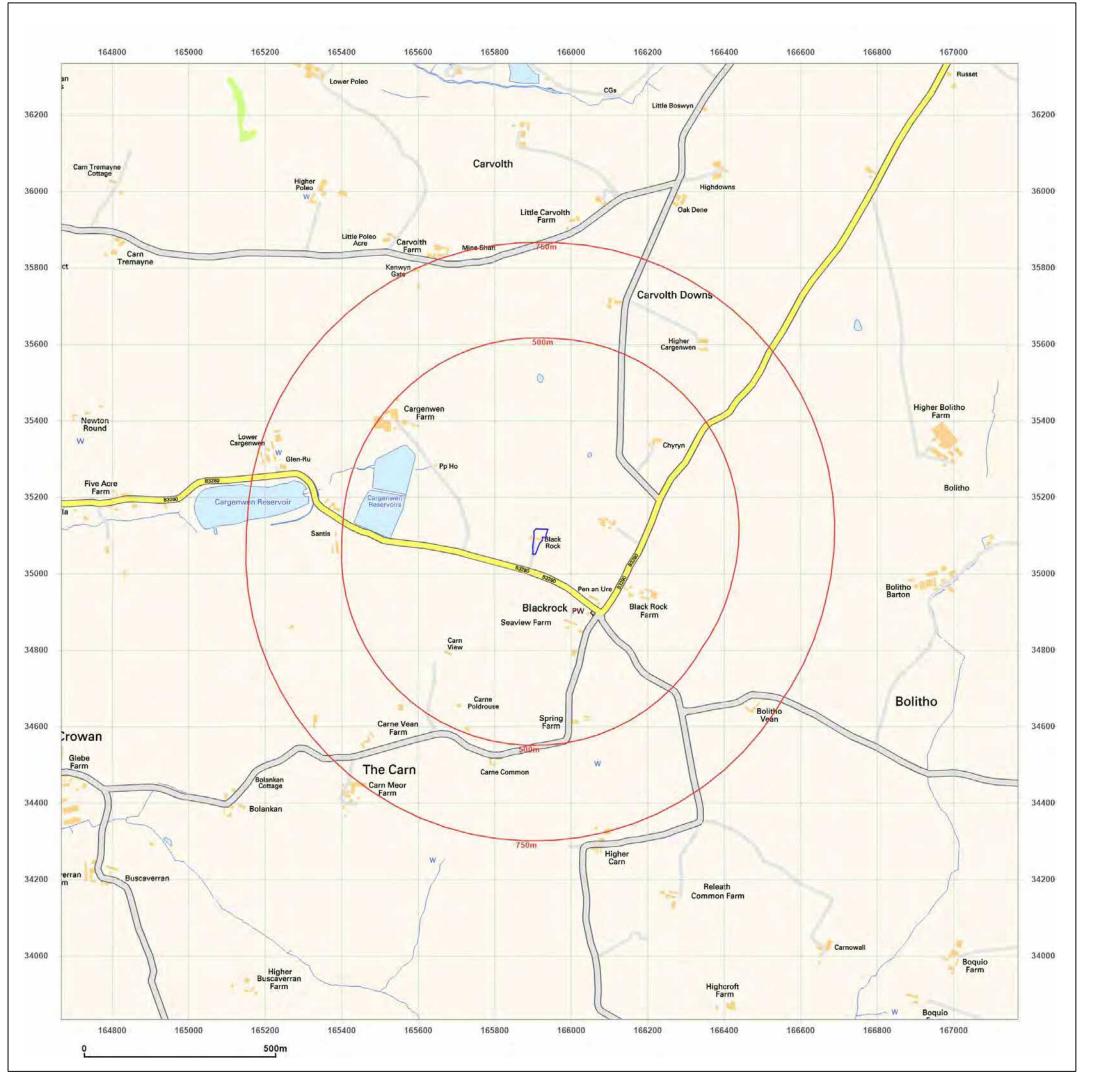
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Production date: 08 November 2023

Map legend available at:





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref: 23524

Report Ref: GCL-CVS-YAG-FBR-I4T

165918, 35084 Grid Ref:

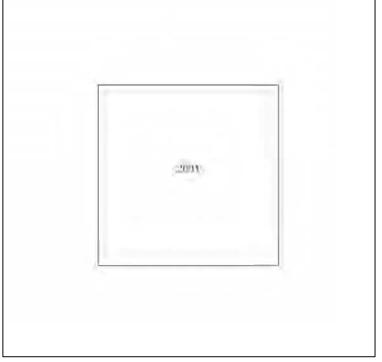
Map Name: National Grid

Map date: 2001

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Scale:

Printed at: 1:10,000







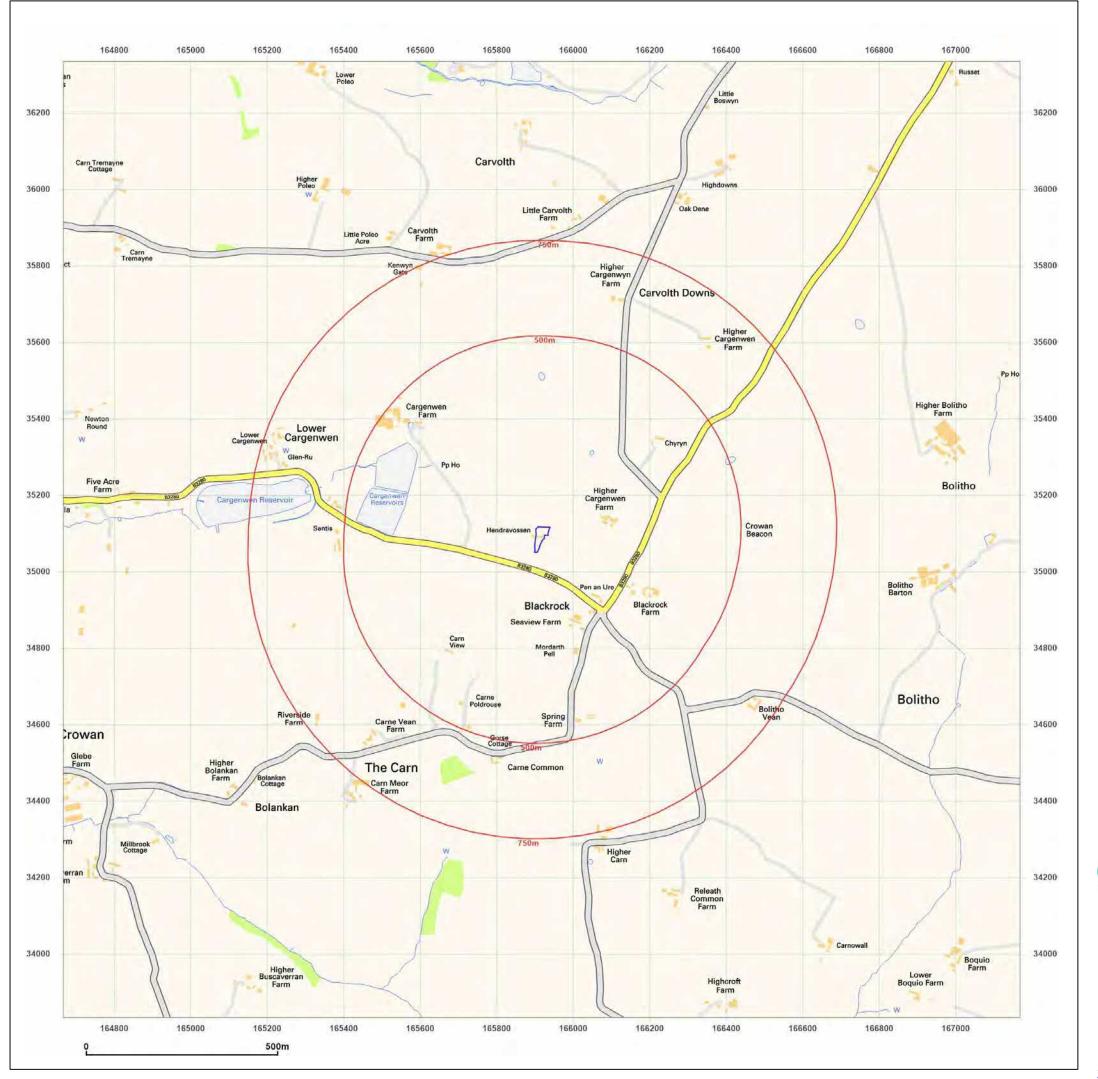
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Production date: 08 November 2023

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HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

Client Ref:

Scale:

23524

Report Ref: GCL-CVS-YAG-FBR-I4T Grid Ref:

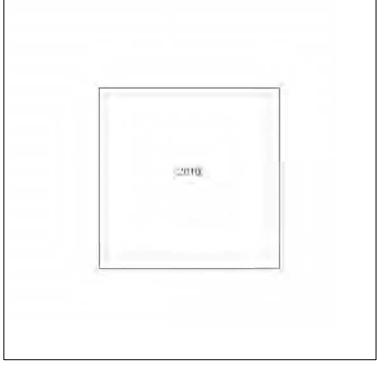
165918, 35084

Map Name: National Grid

Map date: 2010

1:10,000

Printed at: 1:10,000



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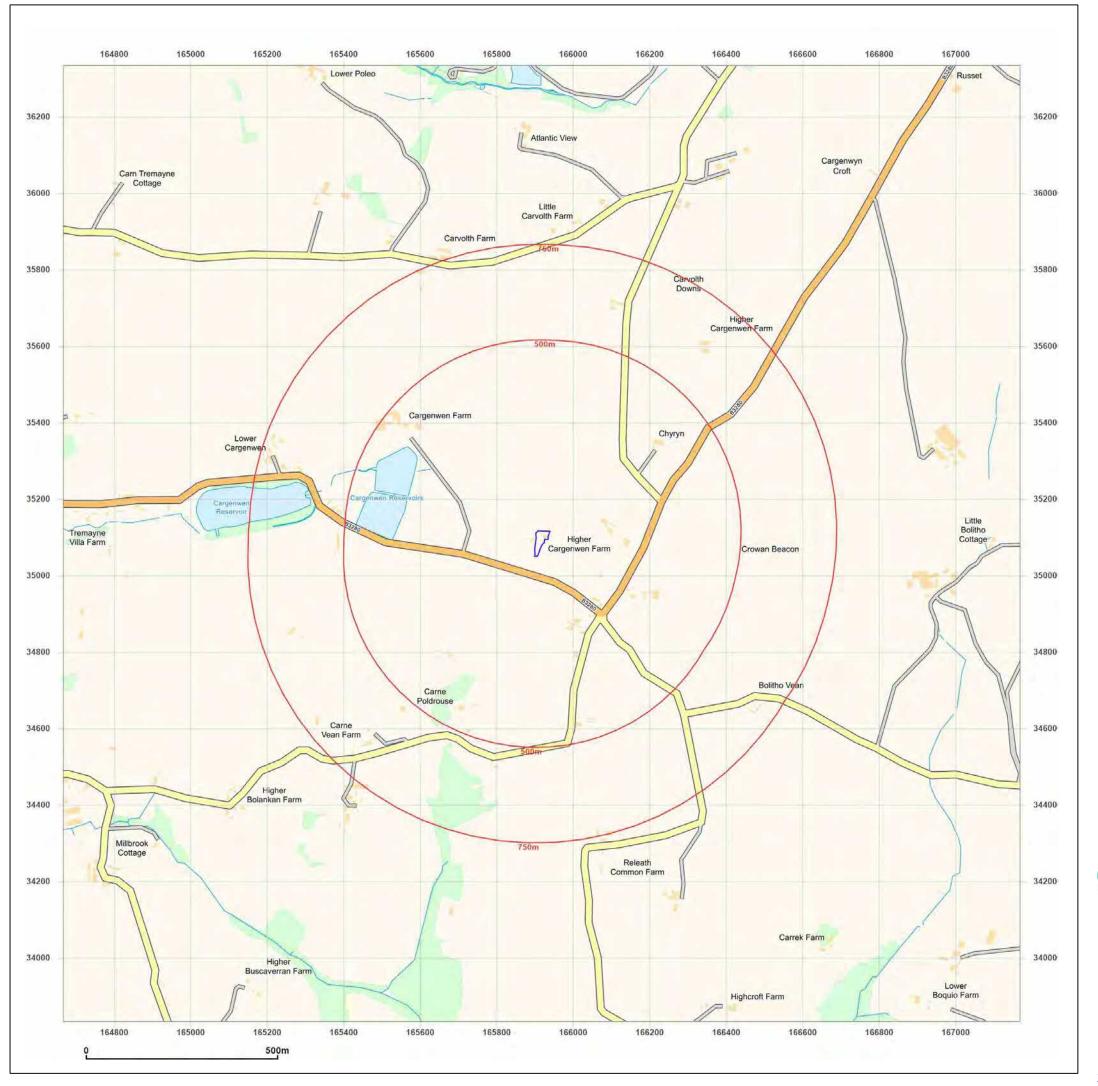




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Production date: 08 November 2023

Map legend available at:





HENDRAVOSSEN, BLACK ROCK, CAMBORNE, TR14 9PN

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Report Ref: GCL-CVS-YAG-FBR-I4T

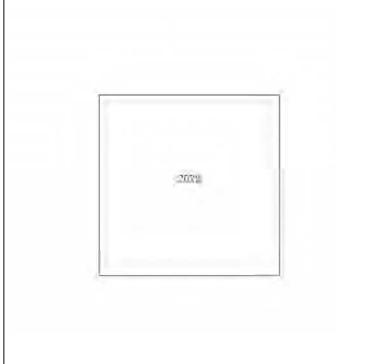
Grid Ref: 165918, 35084

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



W





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Production date: 08 November 2023

Map legend available at:



Appendix D
UXO Risk Map

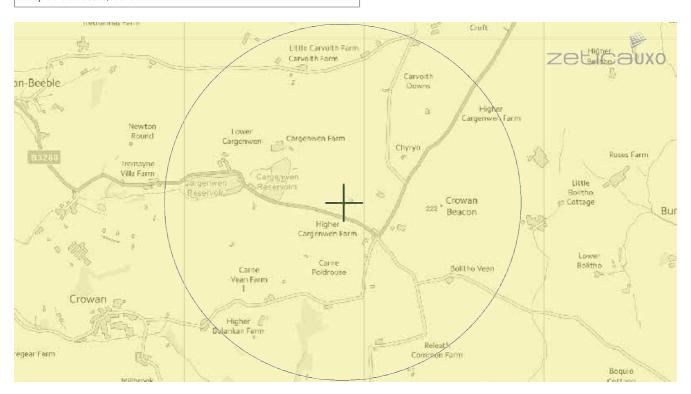


UNEXPLODED BOMB RISK MAP



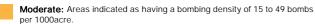
SITE LOCATION

Location: TR14 9PN, Map Centre: 165895.35093



LEGEND





Low: Areas indicated as having 15 bombs per 1000acre or less.

















Bombing decoy



How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our ${\it pre-desk}$ study assessments (PDSA)

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (https://zeticauxo.com/downloads-and-resources/risk-maps/)

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.