# Site Solutions Residence





Maltings Barn, Hinderclay Road, Wattisfield, Diss, IP22 1NF

**Report Prepared for:** Not Supplied **Report Reference:** 302514722

**Date:** 12 October 2022

Client Reference: IP22 1NF SSR



## Contaminated Land

**PASSED** 

Executive Summary | SEE PAGE 1

CLICK HERE

Consultant Commentary | SEE PAGE 4

CLICK HERE



#### Flood Risk

**PASSED** 

Executive Summary | SEE PAGE 1

CLICK HERE

Consultant Commentary | SEE PAGE 5

CLICK HERE



#### **Coal Mining NONE IDENTIFIED**

Executive Summary | SEE PAGE 2

Detail | SEE PAGE 43

CLICK HERE

CLICK HERE

#### **Ground Hazards IDENTIFIED**

Executive Summary | SEE PAGE 2

CLICK HERE

Detail | SEE PAGE 43

**CLICK HERE** 

#### **Energy & Infrastructure NONE IDENTIFIED**

Executive Summary | SEE PAGE 2

**CLICK HERE** 

Detail | SEE PAGE 52

CLICK HERE



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## **Executive Summary**



## **Contaminated Land**

SEE PAGE 4 OR CLICK HERE

PASSED



Liability Assessment

Within the scope of this assessment no Liabilities have been identified. No further action is required.



Argyll's Recommendations

**No Action Required** 



## Flood Risk

SEE PAGE 5 OR CLICK HERE

**PASSED** 



#### Consultant's Summary

The Site is not considered to be at significant risk of flooding. However, it would be prudent to consider our recommendations below.



#### Insurance

The flood risk identified is unlikely to affect obtaining buildings and contents insurance at standard terms.



#### Recommendations

While no immediate action is required, given the on-site/nearby watercourse we recommend being prepared

**Risk:** The on-site watercourse presents a potential risk of flooding during extreme storm events.

Action: Regularly check the watercourse for blockages, damaged banks and unusual changes to water flow.

Understand the responsibilities of a 'riparian owner' - www.gov.uk/guidance/owning-a-watercourse.

Sign up to national or local flood warning services.

Prepare a flood plan with actions to reduce disruption, protect your property and help with recovery.

#### **Standard Enquiries**

- Ask the seller whether flooding has occurred in the area before. If it has, please contact us for advice.
- Establish the availability of buildings and contents insurance before exchanging contracts.



## **Executive Summary**



## **Coal Mining**

SEE PAGE 43 OR CLICK HERE

NONE IDENTIFIED



#### Professional Opinion and Recommendations

Our search indicates that the Site is not within an area where a full coal mining report should be obtained.

As such, no action is required.



## **Ground Hazards**

SEE PAGE 43 OR CLICK HERE

**IDENTIFIED** 



#### Professional Opinion and Recommendations

We have identified ground hazards that may affect the site or nearby area.

#### Natural Ground Stability

There are very significant soluble rocks in the area. Information provided by the BGS indicates there are places where the underlying ground may have dissolved with some recorded subsidence. There is a moderate potential of localised subsidence occurring naturally.

Whether or not a Site is affected by ground movement can depend on a number of factors – including property age and type of construction.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.



## Energy & Infrastructure

SEE PAGE 52 OR CLICK HERE

NONE IDENTIFIED



#### Professional Opinion and Recommendations

We have not identified any Energy & Infrastructure factors within the relevant search distances.

# Report Scope

Report Prepared on: Maltings Barn, Hinderclay Road, Wattisfield, Diss, IP22 1NF

Current Use: **Assumed Residential** 

Proposed Use: **Assumed Residential** 

Transaction Type: **Assumed purchase** 

Site Area (m<sup>2</sup>): 1735.91

National Grid Reference: 601490 275130



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# **Contaminated Land** Consultant Commentary



On-site Sources **LOW TO MODERATE** 

A review of historical maps from 1886 shows the Site existed as a farm with agricultural buildings in the north and east of the Site. Minor reconfigurations to the building footprint were observed until the 2000 map edition when most of the buildings were cleared, leaving a barn in the east. No further significant changes were observed throughout subsequent mapping. Aerial imagery and street view show a tank on the northern boundary.

**LOW TO MODERATE** Off-site Sources

A review of historical maps dating from 1886 shows the following potentially contaminative uses within 100m of the Site: the wider agricultural buildings/farm yard extending north from the Site c.1886-2022.

#### Pathways and Receptors

HIGH

The general area appears to be in agricultural use, with residential properties on Site.

No superficial deposits have been identified underlying the Site. The bedrock hydrogeology is classified as a Principal Aquifer.

The Site does not lie within a groundwater Source Protection Zone (SPZ).

There is one non-potable abstraction licence located within 100m. It is a groundwater abstraction for agricultural use 74m west.

There are no potable abstraction licences within 500m.

The nearest watercourse is a drainage channel on Site.

Finally, no designated eco-receptors were identified within a 500m radius of the Site.

#### Additional Sources of Information

No additional sources of information have been used.

# Flood Risk Consultant Commentary



#### Flood Analysis

Would a Flood Risk Assessment be required if development is proposed?

What is the risk of flooding in an undefended scenario or assuming defences fail?

Are there existing flood defences within 500m of the Site?

NO

	RIVER	COASTAL	GROUND WATER	SURFACE PLUVIAL	OTHER*
HIGH -					
MODERATE TO HIGH					
MODERATE					
LOW TO MODERATE					
LOW					
VERY LOW					

<sup>\*</sup> Other factors influencing flood risk include flood storage areas, historical floods, and proximity to water features.



## Argyll's Comment

River	No commentary required.
Coastal	No commentary required.
Groundwater	No commentary required.
Surface Water	No commentary required.
Other Factors	A drainage channel is located on Site. This does not present an immediate risk, however it could pose a risk during extreme storm events or in the event of a blockage.

# **Contaminated Land**

# Data Section



**Contaminated Land Data:** This section details the data used as part of our Contaminated Land Risk analysis. Each key dataset is mapped with the detail outlined beneath. We only show section headers beyond the tabular summary where we have found data to report. The relevant data has been reviewed by the report writer, supplemented by a review of historical mapping.

# ontents

Tabular Summary	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. The search distances vary based on the scale of the activity and regulatory guidance. We display the number of records found in each database under the relevant heading. Where we have not searched a database, we will display the abbreviation N/A instead.
Authorised Industrial Processes	This section shows current and licensed activities relevant to contaminated land and environmental controls from a range of regulatory bodies. The search distances vary based on the scale of the activity.
Incidents and Enforcements	This section shows pollution incidents, licence enforcements and prosecutions. It also includes Contaminated Land Register Entries and Notices.
Landfill and Waste sites	This section presents detailed information on waste and landfill sites for the Site and surrounding area.
Current Land Use	This section shows contemporary trade directories and fuel stations. This information is indicative of operations at the Site and surrounding area, and may also relate to inactive or former land uses.
Historical Land Use	This section presents selected information on historical land use for the Site and surrounding area. The data shows historical land use information collected from 1:10,000 scale mapping, and for tanks and energy facilities 1:2,500 scale mapping. This includes polygon and point based land uses digitised by Landmark.
Groundwater Vulnerability	This section presents information relating to the aquifer designations beneath the Site. The aquifer designation of the Superficial and Bedrock geology are both mapped, followed by the detail. These aquifer designations are followed by information on the local geology. This information is considered in our Pathways and Receptors section.
Environmental Sensitivity	This section presents designated eco-receptors and sensitive area designations at the Site and in the surrounding area. This information is considered in our Pathways and Receptors section.



# **Contaminated Land:** Tabular Summary

Authorised Industrial Processes			
Authorisations	On-site	1-100m	101-250m
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention And Control	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Environmental Permitting Regulations - Industry	0	0	N/A
Radioactive Substances Register*	0	0	N/A
Discharges	On-site	1-100m	101-250m
Consented Discharges to Controlled Waters**	0	0	N/A
Referrals of Red List Discharges to Sewers (Corporate Entities)**	0	0	N/A
Hazardous Sites	On-site	1-100m	101-250m
Control of Major Accident Hazards Sites (COMAH)	0	0	0
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances (NIHHS)	0	0	0
Planning Hazardous Substance Consents	0	0	0
Incidents and Enforcements			
Contraventions	On-site	1-100m	101-250m
Contaminated Land Register Entries and Notices	0	0	0
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	N/A
Environmental Pollution Incidents	0	0	N/A
Prosecutions (Post 2000)	0	0	N/A
Landfill and Waste Sites			
Landfill and Waste	On-site	1-100m	101-250m
BGS Recorded Landfill Sites	0	0	0
Integrated Pollution Control Registered Waste Sites	0	0	0
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	0	0
Environmental Permitting Regulations - Waste Sites	0	0	0
Local Authority Recorded Landfill Sites	0	0	0
Registered Landfill Sites	0	0	0

Historic Landfill

Registered Waste Transfer Sites

Registered Waste Treatment or Disposal Sites

N/A N/A



# **Contaminated Land:** Tabular Summary

Current Land Use			
Current Potentially Contaminative Uses	On-site	1-100m	101-250m
Contemporary Trade Directory Entries**	0	0	N/A
Fuel Station Entries	0	0	N/A
Historical Land Use			
Historical Potentially Contaminative Uses	On-site	1-100m	101-250m
Historical Tanks And Energy Facilities	0	0	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	0	N/A
Potentially Infilled Land	On-site	1-100m	101-250m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	0	0	N/A
Potentially Infilled Land (Water)	0	0	N/A
Groundwater Vulnerability			
Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	No	N/A	N/A
Bedrock Aquifer Designations	Yes	N/A	N/A
Geology			
Geology	On-site	1-250m	251-500m
BGS 1:50,000 Bedrock Geology	Yes	N/A	N/A
BGS 1:50,000 Superficial Deposits	No	N/A	N/A
BGS 1:50,000 Geological Mapping Coverage	Yes	N/A	N/A



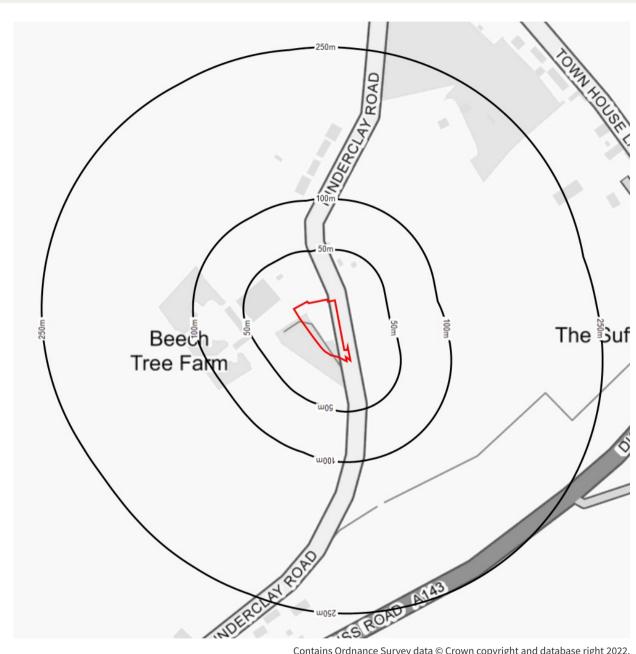
# Contaminated Land: Tabular Summary

Environmental Sensitivity			
<b>Environmental Sensitivity</b>	On-site	1-250m	251-500m
Local Nature Reserves	0	0	0
Marine Conservation Zones	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	0
Ramsar Sites	0	0	0
Sites of Special Scientific Interest	0	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	0	1	0
Source Protection Zones	0	0	1

<sup>\*\*</sup>dataset searched to 25m

<sup>\*</sup>dataset searched to 50m





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Local Authority Pollution Prevention and Controls

Local Authority Integrated Pollution Prevention And Control

**Integrated Pollution Controls** 

**Environmental Permitting Regulations - Industry** 

Radioactive Substances Register

Consented Discharges to Controlled Waters

Referrals of Red List Discharges to Sewers (Corporate Entities)

Control of Major Accident Hazards Sites (COMAH)

**Explosive Sites** 

Notification of Installations Handling Hazardous Substances

Planning Hazardous Substance Consents



# Contaminated Land: Authorised Industrial Processes

#### Authorisations

#### **Local Authority Pollution Prevention and Controls**

No features identified.

#### **Local Authority Integrated Pollution Prevention And Control**

No features identified.

#### **Integrated Pollution Controls**

No features identified.

#### **Environmental Permitting Regulations - Industry**

No features identified.

#### **Radioactive Substances Register**



# Contaminated Land: Authorised Industrial Processes

#### Discharges

#### **Consented Discharges to Controlled Waters**

No features identified.

**Referrals of Red List Discharges to Sewers (Corporate Entities)** 



# Contaminated Land: Authorised Industrial Processes

#### Hazardous Sites

#### **Control of Major Accident Hazards Sites (COMAH)**

No features identified.

#### **Explosive Sites**

No features identified.

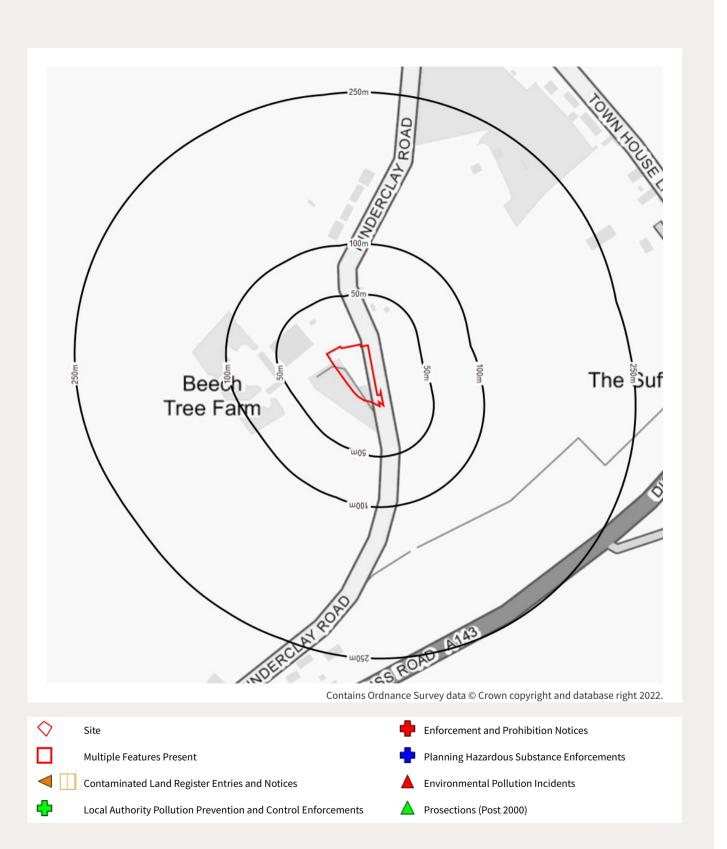
#### Notification of Installations Handling Hazardous Substances (NIHHS)

No features identified.

#### **Planning Hazardous Substance Consents**









## Contaminated Land: Incidents and Enforcements

#### Contraventions

#### **Contaminated Land Register Entries and Notices**

No features identified.

#### **Local Authority Pollution Prevention and Control Enforcements**

No features identified.

#### **Enforcement and Prohibition Notices**

No features identified.

#### **Planning Hazardous Substance Enforcements**

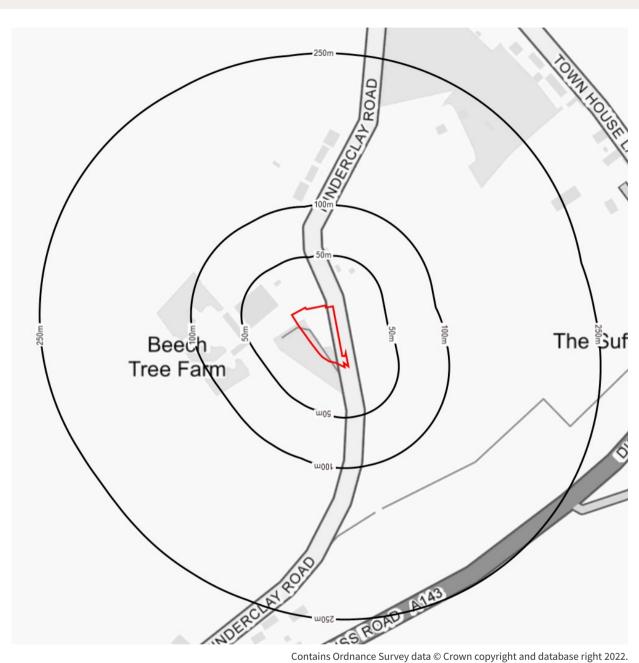
No features identified.

#### **Environmental Pollution Incidents**

No features identified.

#### **Prosecutions (Post 2000)**









## Contaminated Land: Landfill and Waste

#### Landfill and Waste

#### **BGS Recorded Landfill Sites**

No features identified.

#### **Integrated Pollution Control Registered Waste Sites**

No features identified.

#### **Permitted Waste Sites - Authorised Landfill Site Boundaries**

No features identified.

#### **Environmental Permitting Regulations - Waste Sites**

No features identified.

#### **Local Authority Recorded Landfill Sites**

No features identified.

#### **Registered Landfill Sites**

No features identified.

#### **Registered Waste Transfer Sites**

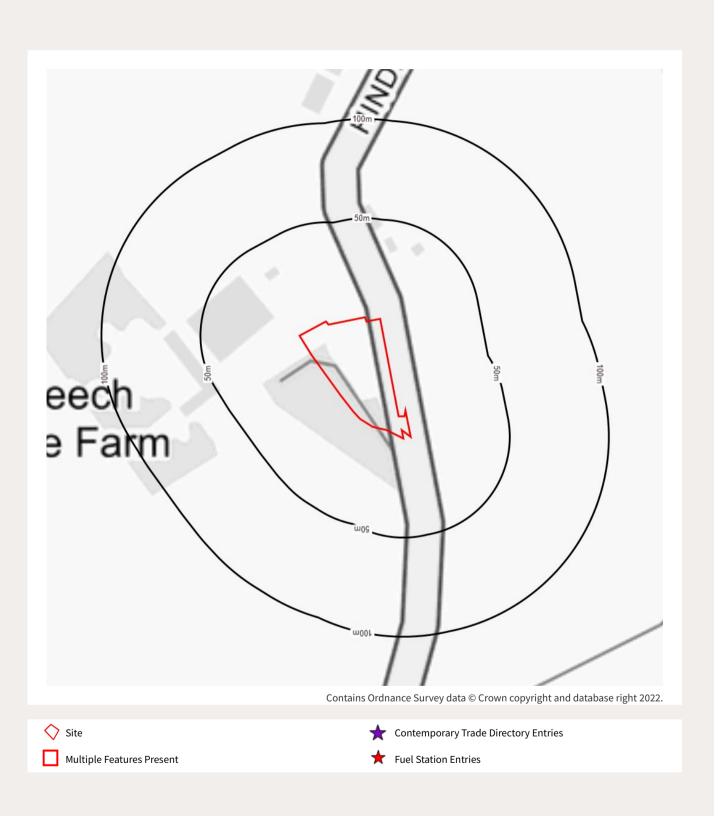
No features identified.

#### **Registered Waste Treatment or Disposal Sites**

No features identified.

#### **Historic Landfill**







# Contaminated Land: Current Land Uses

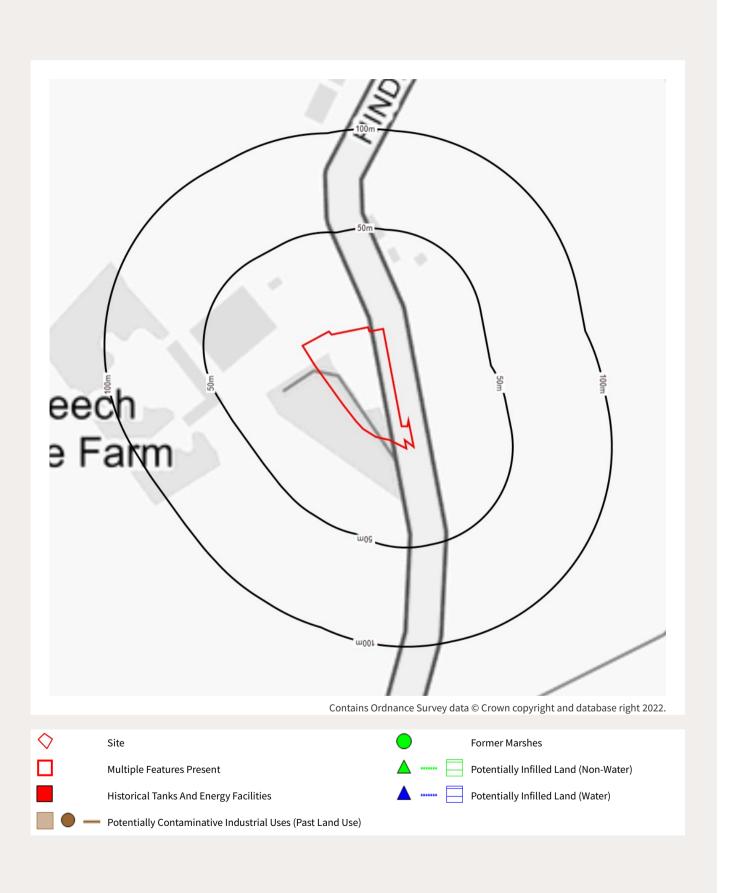
## Current Potentially Contaminative Uses

#### **Contemporary Trade Directory Entries**

No features identified.

#### **Fuel Station Entries**







# Contaminated Land: Historical Land Uses

## Historical Potentially Contaminative Uses

#### **Historical Tanks And Energy Facilities**

No features identified.

#### Potentially Contaminative Industrial Uses (Past Land Use)



# Contaminated Land: Historical Land Uses

## Potentially Infilled Land

#### **Former Marshes**

No features identified.

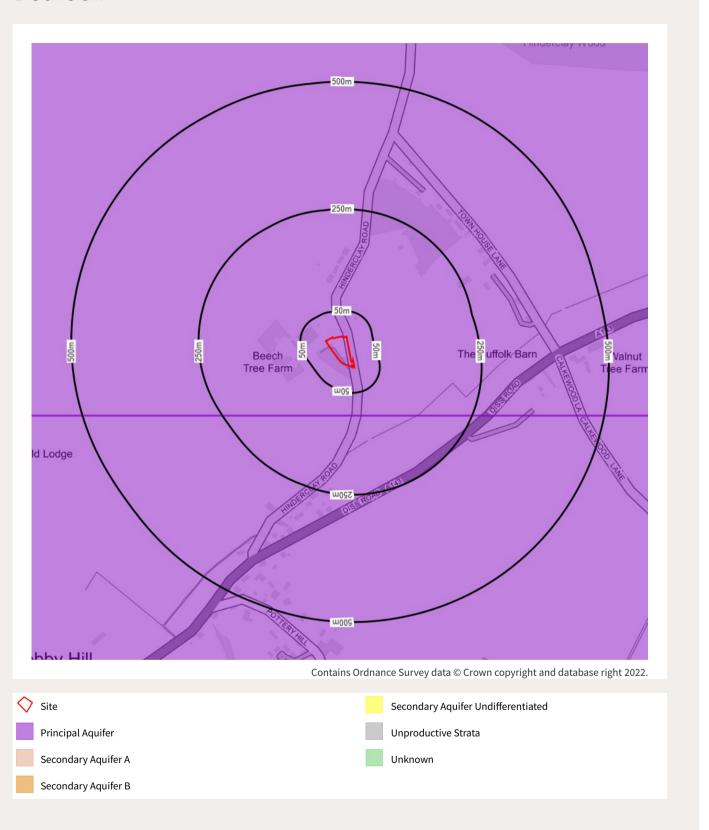
#### Potentially Infilled Land (Non-Water)

No features identified.

#### Potentially Infilled Land (Water)

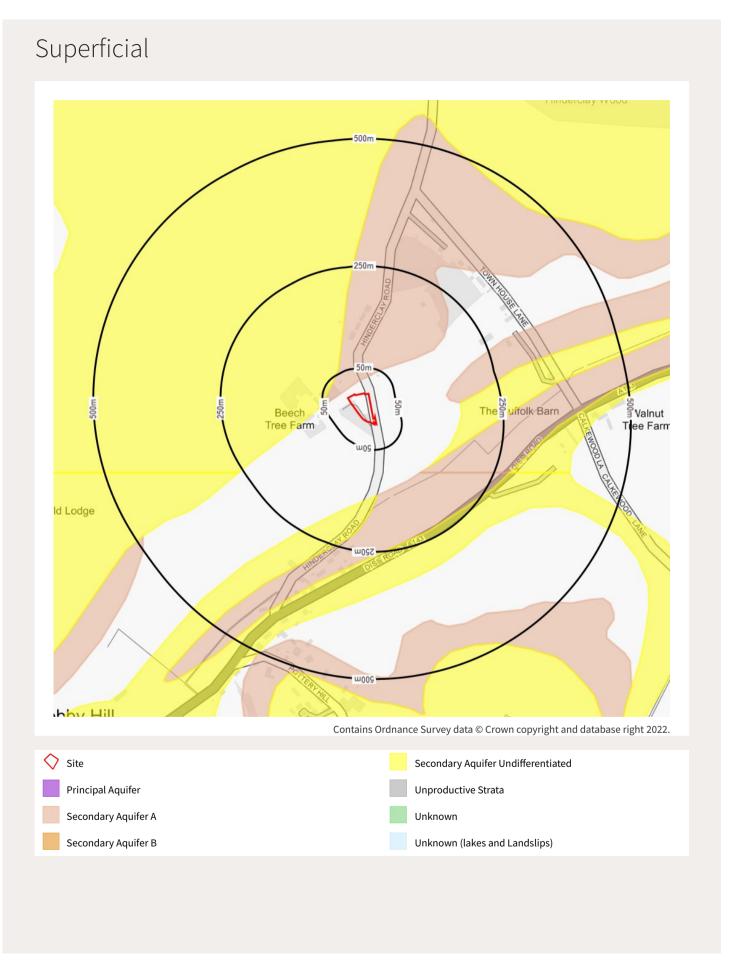


# Bedrock











# **Contaminated Land:** Groundwater Vulnerability

#### Hydrogeology

#### **Bedrock Aquifer Designations**

Details	Distance	Direction	Contact
Aguifer Designation: Principal Aguifer	0m	N	4

#### **Superficial Aquifer Designations**



# **Contaminated Land:** Geology

#### Geology

#### BGS 1:50,000 Bedrock Geology

Details	Distance	Direction	Contact
Tex Code: LCCK	Ωm	N	5

Rock Name: Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk

Formation and Culver Chalk Formation (Undifferentiated)

Rock Type: Chalk Min Age: Not Supplied Max Age: Turonian

#### **BGS 1:50,000 Superficial Deposits**

No features identified.

#### **BGS 1:50,000 Geological Mapping Coverage**

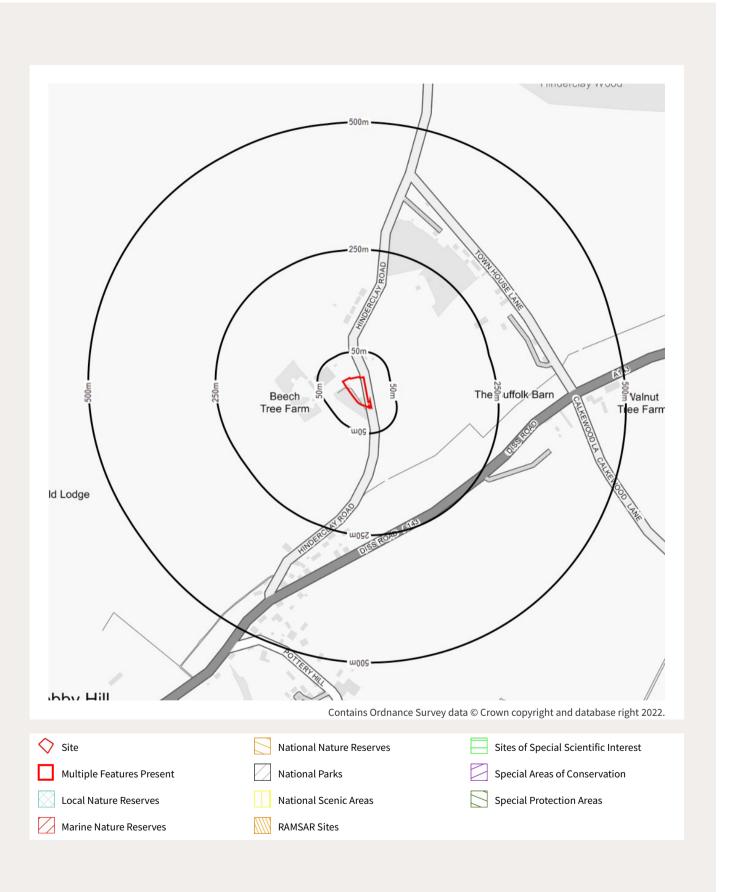
Details	Distance	Direction	Contact
Map Sheet No: 190	0m	N	5

Map Name: Eye

Bedrock Geology: Available Superficial Geology: Available

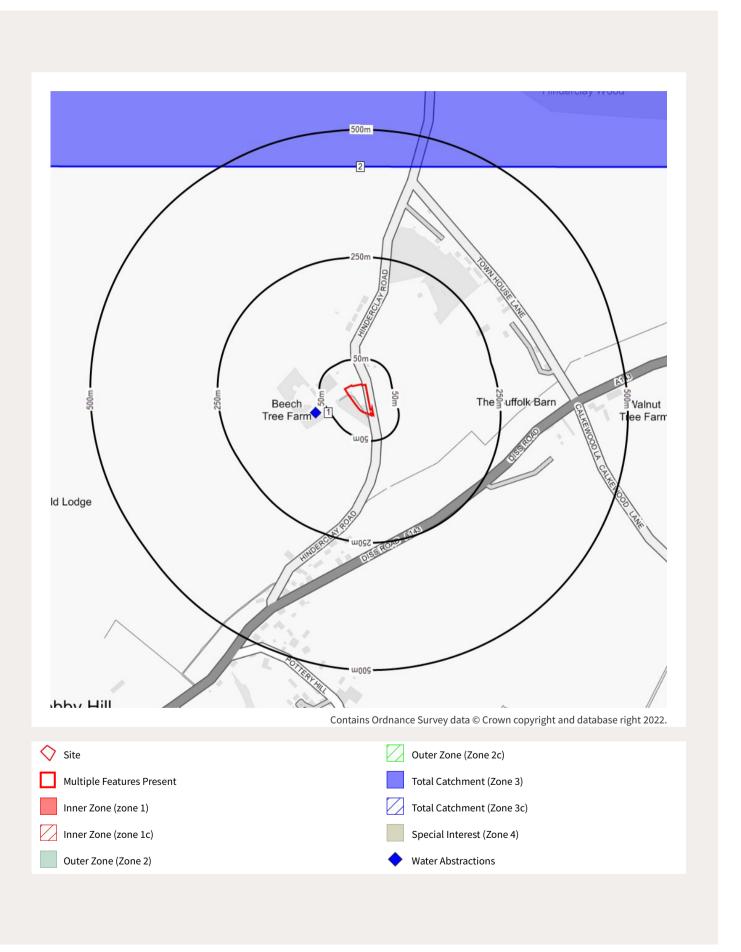














# Contaminated Land: Environmental Sensitivity

#### **Environmental Sensitivity**

#### **Local Nature Reserves**

No features identified.

#### **Marine Conservation Zones**

No features identified.

#### **National Nature Reserves**

No features identified.

#### **National Parks**

No features identified.

#### **Ramsar Sites**

No features identified.

#### **Sites of Special Scientific Interest**

No features identified.

#### **Special Areas of Conservation**

No features identified.

#### **Special Protection Areas**

No features identified.

#### **Water Abstractions**

Map ID	Details	Distance	Direction	Contact
1	Abstraction Source: Groundwater Abstraction Type: Abstractions Agricultural Reference: Not Supplied Operator: F W Barker Farms Ltd Licence Number: 6/33/42/*G/0035 Location: Borehole At Beach Tree Farm Authorised Start: 1991-04-01	74m	W	3
	Authorised End: Not Supplied Permit Start Date: 01 January Permit End Date: 31 December			

#### **Source Protection Zones**

Map ID	Details	Distance	Direction	Contact	
2	Name: Not Supplied	428m	N	3	
	Reference: Not Supplied				
	Type: Zone III (Total Catchment): The total area needed to support the				
	discharge from the protected groundwater source.				

# **Flood Risk**

# Data Section

**Tabular Summary** 



Flood Risk Data: This section details the data used as part of our Flood Risk analysis. Each key source of flooding has the data mapped with the detail outlined beneath. All relevant data in this section has been reviewed by the report writer and taken into account in the overall analysis. As a result, the individual risks in the data below may vary from our overall opinion.

# ontent

	We present the data in three buffer zones, extending to a maximum of 500m. Where we have not been able to search a database, we will display the abbreviation N/A instead.	
River and Coastal	The data used to form our river and coastal flood risk analysis includes:	
Flooding	<ul> <li>Flood Zones: Created for land-use planning, Flood Zones map the likelihood of flooding assuming no defences are present, fail or are over-topped. This data is presented as FZ1, FZ2 or FZ3.</li> <li>Risk of Flooding from Rivers and Seas (RoFRS): Provides an indication of flood risk taking into account the presence of defences and the level of protection they offer.</li> <li>Flood Defences: Recorded by the regulatory body, and includes defence type and standard of protection.</li> <li>Areas Benefiting from Flood Defences: Areas defined as having protection of at least 1 in 100 for river and 1 in 200 for coastal.</li> <li>Flood Storage Areas: Areas that store floodwater during flood events.</li> </ul>	
Surface Water	We present the risk of surface water flooding in three separate return periods:	
Flooding	<ul><li>1:75</li><li>1:200</li><li>1:1000</li></ul>	
	Each map will show the likely flood depth bandings within each of these return periods.	
Groundwater Flooding	The data takes into account the two key mechanisms of groundwater flooding; clearwater and permeable superficial deposits.	
Other Factors	This section accounts for risk that is not tied to modelled data. It includes historical floods, proximity to water features and elevation above both of these features.	

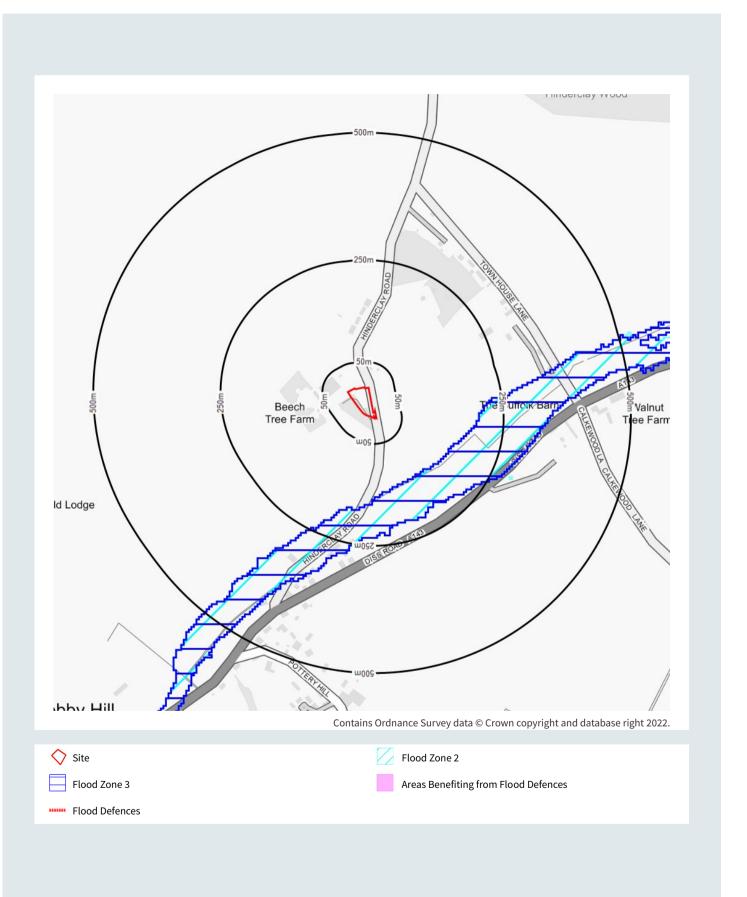
This section gives an overview of the data at the Site and in the surrounding area.



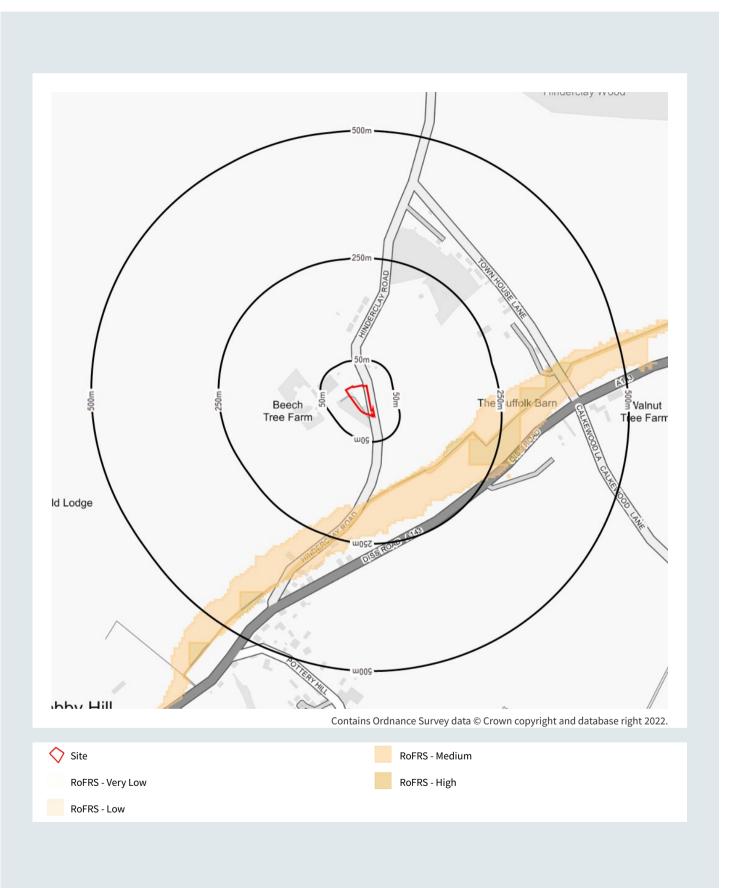
# Flood Risk: Tabular Summary

Flooding			
River and Coastal Flooding	On-site	1-250m	251-500m
Flooding from Rivers or Sea without Defences (Flood Zone 3)	No	Yes	No
Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)	No	Yes	Yes
Areas Benefitting from Flood Defences	No	No	No
Spatial Flood Defences (with attributes)	No	No	No
Risk of Flooding from Rivers and Sea (RoFRS)	No	Yes	Yes
Surface Water Flooding	On-site	1-250m	251-500m
JBA Pluvial 75 Depths	No	Yes	Yes
JBA Pluvial 200 Depths	No	Yes	Yes
JBA Pluvial 1000 Depths	No	Yes	Yes
Groundwater Flooding	On-site	1-250m	251-500m
Groundwater Flood Risk 5m	Yes	Yes	Yes
Other Factors	On-site	1-250m	251-500m
Flood Storage Areas	No	No	No
Recorded Flood Outlines	No	No	No
OS VectorMap District - Water Features	No	No	Yes
OS MasterMap Water Network	Yes	Yes	Yes











## Flooding from Rivers or Sea without Defences (Flood Zone 3)

Details	Distance	Direction	Contact
Environment Agency	135m	SE	3

## Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)

Details	Distance	Direction	Contact
Environment Agency	135m	SE	3

#### Areas Benefitting from Flood Defences

No features identified.

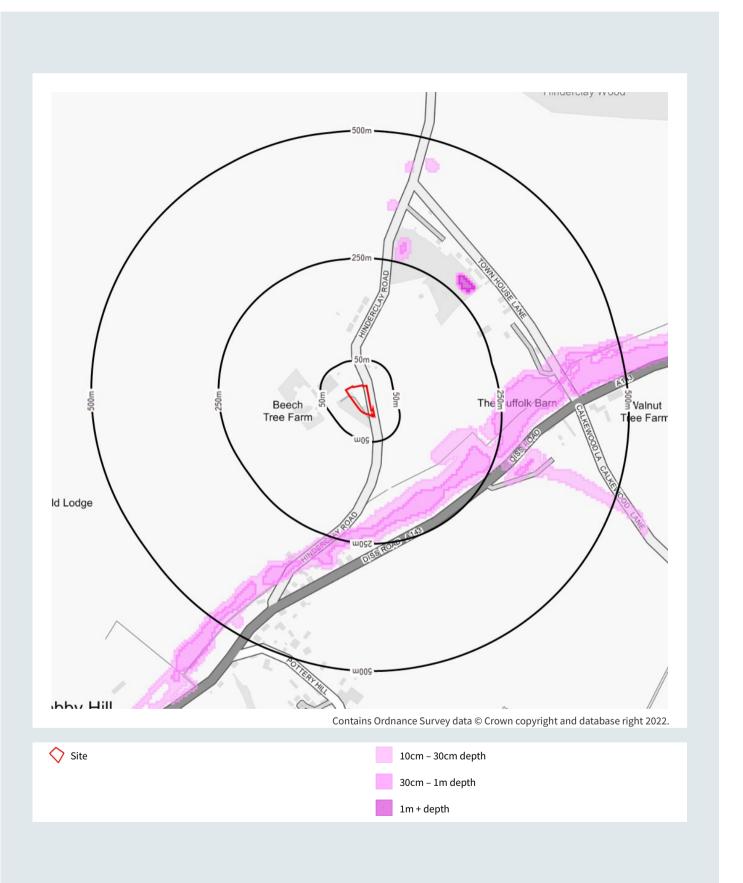
#### Spatial Flood Defences (with attributes)

No features identified.

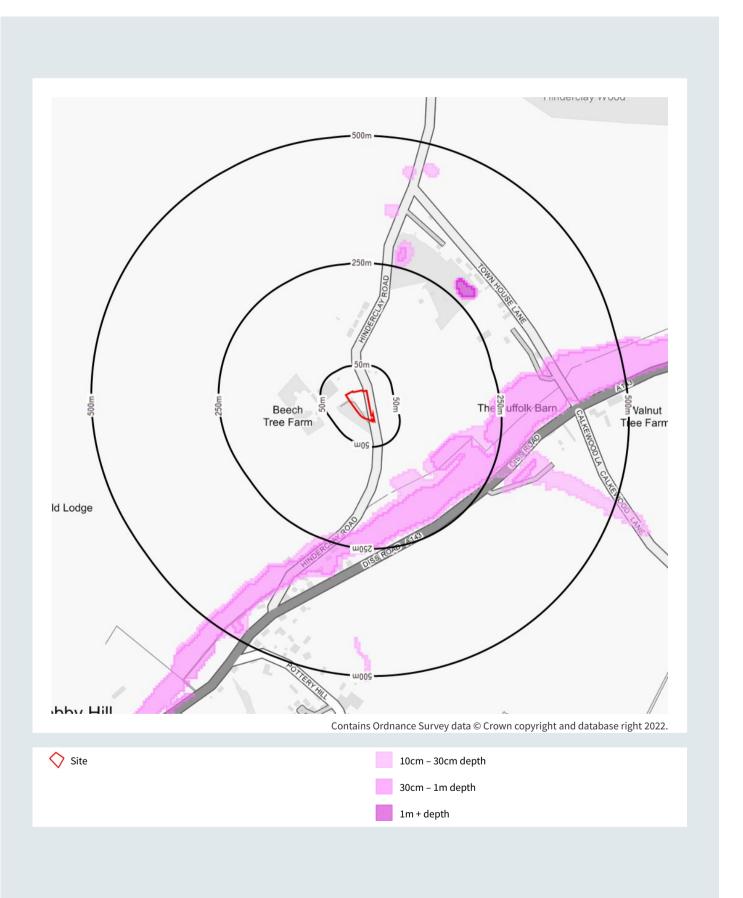
## Risk of Flooding from Rivers and Sea (RoFRS)

Details	Distance	Direction	Contact
Risk: Medium	135m	SE	3
Risk: High	138m	SE	3

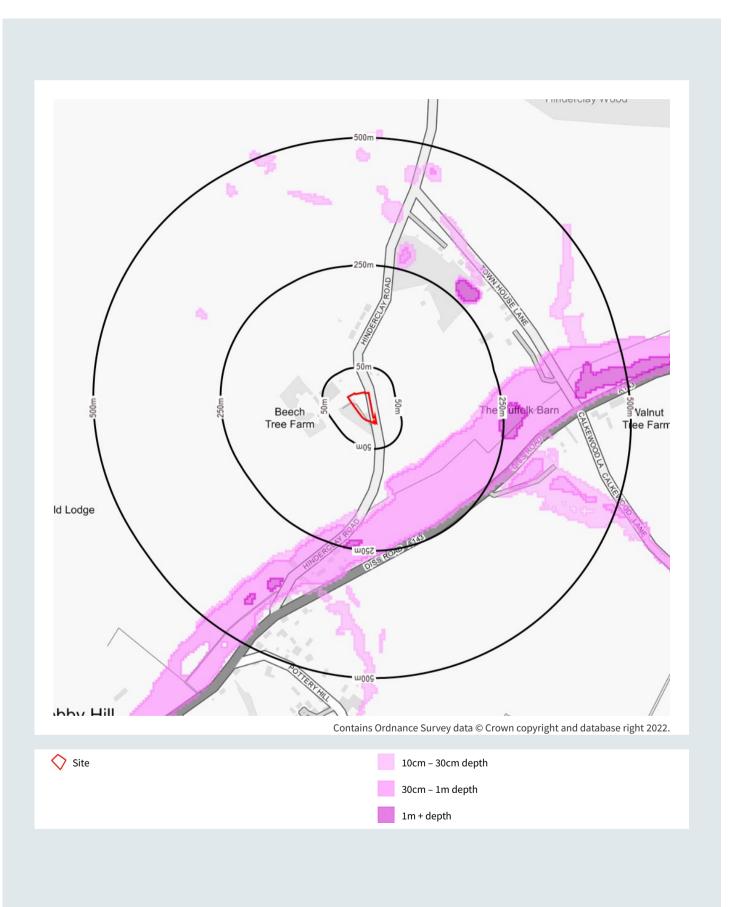














### JBA Pluvial 75 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	132m	SE	1
Type: Greater than 0.3m and Less than or equal to 1.0m	172m	SE	1
Type: Greater than 1.0m	267m	NE	1

### JBA Pluvial 200 Depths

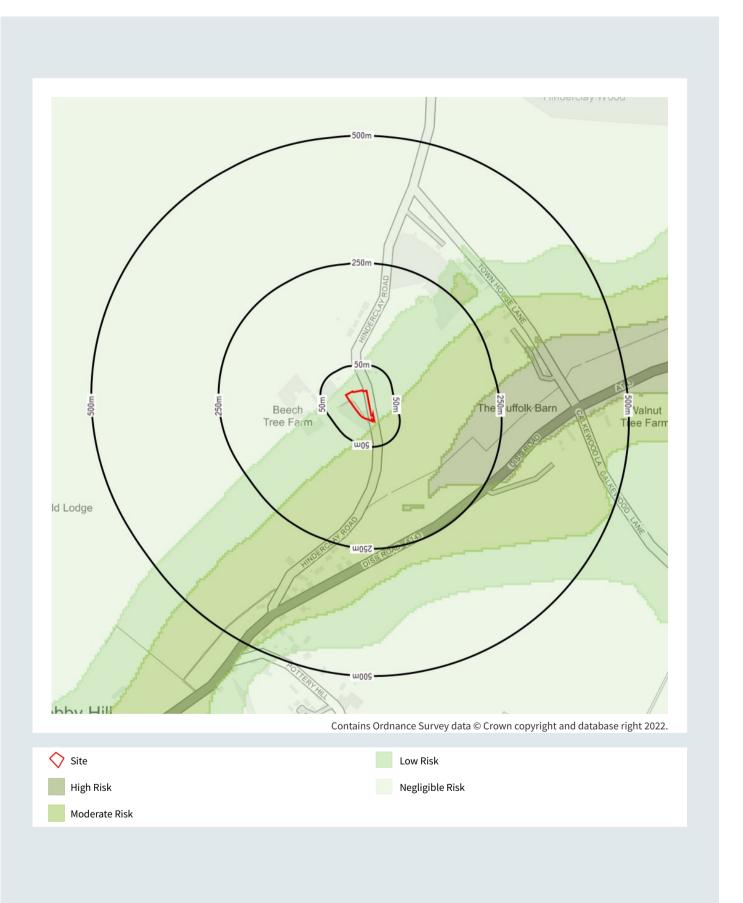
Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	116m	SE	1
Type: Greater than 0.3m and Less than or equal to 1.0m	132m	SE	1
Type: Greater than 1.0m	264m	NE	1

#### JBA Pluvial 1000 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	103m	SE	1
Type: Greater than 0.3m and Less than or equal to 1.0m	109m	SE	1
Type: Greater than 1.0m	231m	S	1

Flood data provided by JBA Risk Management Limited. © Copyright JBA Risk Management Limited 2008-2022



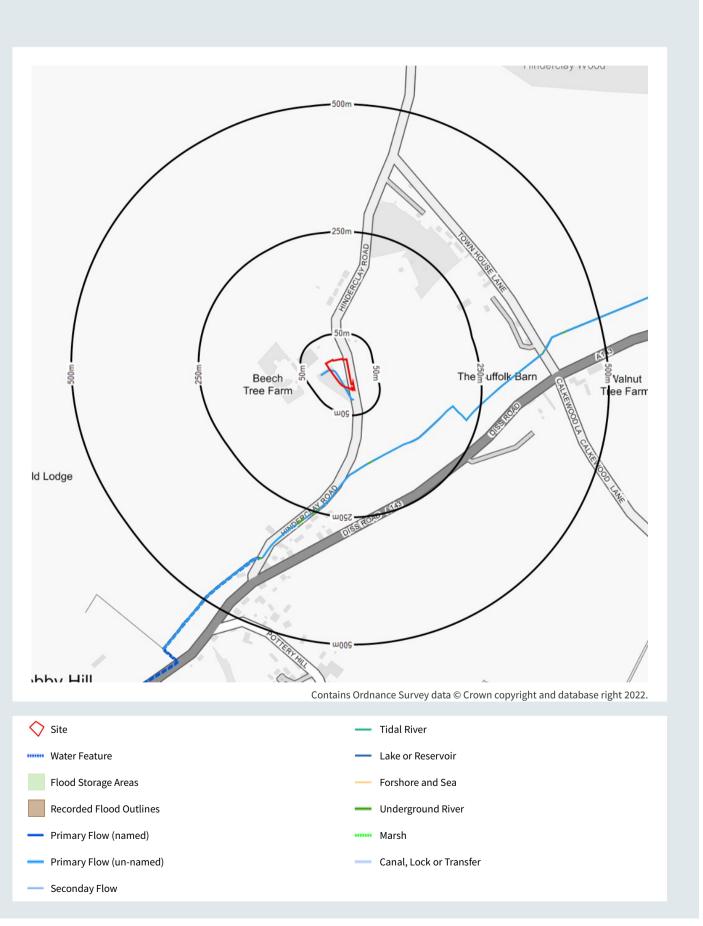




#### Groundwater Flood Risk 5m

Details	Distance	Direction	Contact
Type: Low	0m	N	1
Type: Moderate	6m	SE	1
Type: Negligible	16m	NW	1
Type: High	150m	SE	1







#### Flood Storage Areas

No features identified.

#### Recorded Flood Outlines

No features identified.

#### OS VectorMap District - Water Features

Details	Distance	Direction	Contact
Ordnance Survey	376m	SW	2

#### OS MasterMap Water Network

Details	Distance	Direction	Contact
Name: Type: Primary Flow (un-named)	0m	SW	2
Name: Type: Underground River	146m	S	2

Type: Underground River

# Ground Hazards & Coal Mining Data Section

**Ground Hazards & Coal Mining Data:** This section contains information on natural and mining related hazards which may affect the Site. These includes subsidence, radon and mining. Hazards that may need further investigation are detailed here. This report is neither a guarantee of the physical condition of the subject Site nor a substitute for any physical investigation or inspection.

# Coal Minir Subsidence Natural ar Related Ha

Tabular Summary	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. We display the number of records found in each database under the relevant heading. Where we have not been able to search a database, we will display the abbreviation N/A instead.
Coal Mining	This section is driven by the Site's proximity to Coalfield Consultation Areas.
Subsidence	This section uses several different datasets to assess the susceptibility of the Site to the subsidence
Natural and Mining Related Hazards	This section looks at non-coal mining hazards, including former mineral sites and landfill sites.
Radon	Both the likelihood of radon being an issue, and the requirement for radon protection measures.



# Ground Hazards & Coal Mining: Tabular Summary

Coal Mining			
Coal Mining	<b>On-site</b>	1-100m	101-250m
Coal Mining Subsidence Damage Claims*	0	0	N/A
Coalfield Consultation Areas	0	N/A	N/A

Subsidence			
Insurance Claims from Subsidence	On-site	1-100m	101-250m
Postcode Unit Insurance Claims Rating - Subsidence	0	N/A	N/A
Natural Ground Instability	On-site	1-100m	101-250m
Natural Cavities	0	0	0
Potential for Landslide Ground Stability Hazards*	0	0	N/A
Potential for Ground Dissolution Stability Hazards*	0	1	N/A
Potential for Compressible Ground Stability Hazards*	0	0	N/A
Potential for Shrinking or Swelling Clay Ground Stability Hazards*	0	0	N/A
Potential for Running Sand Ground Stability Hazards*	0	0	N/A
Potential for Collapsible Ground Stability Hazards*	0	0	N/A

#### Natural and Mining Related Hazards **Former Mining** On-site 1-100m 101-250m Potentially Contaminative Land Uses (1950-1980) from large scale 0 N/A N/A historical mapping Potentially Contaminative Land Uses (1855-1909) from large scale 0 0 N/A historical mapping\* Potentially Contaminative Land Uses (1893-1915) from large scale 0 N/A N/A historical mapping Potentially Contaminative Land Uses (1906-1937) from large scale 0 N/A N/A historical mapping Potentially Contaminative Land Uses (1924-1949) from large scale 0 N/A N/A historical mapping Potentially Contaminative Industrial Uses (Past Land Use) 0 N/A N/A Man-Made Mining Cavities 0 0 0 **BGS Recorded Mineral Sites** 0 N/A N/A N/A Mining Instability 0 Non Coal Mining Areas of Great Britain\* 0 N/A N/A N/A Potential Mining Areas



# **Ground Hazards & Coal Mining:** Tabular Summary

Salt and Brine	On-site	1-100m	101-250m
Brine Compensation Area	0	N/A	N/A
Brine Pumping Related Features	0	N/A	N/A
Brine Subsidence Solution Area	0	N/A	N/A
Salt Mining Related Features	0	N/A	N/A
Landfill Sites and Infilled Land	On-site	1-100m	101-250m
Former Marshes	0	N/A	N/A
Potentially Infilled Land (Non-Water)	0	N/A	N/A
Potentially Infilled Land (Water)	0	N/A	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	N/A	N/A
BGS Recorded Landfill Sites	0	N/A	N/A
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	N/A	N/A
Registered Landfill Sites	0	N/A	N/A
Local Authority Recorded Landfill Sites	0	N/A	N/A
Historic Landfill	0	N/A	N/A

#### Radon

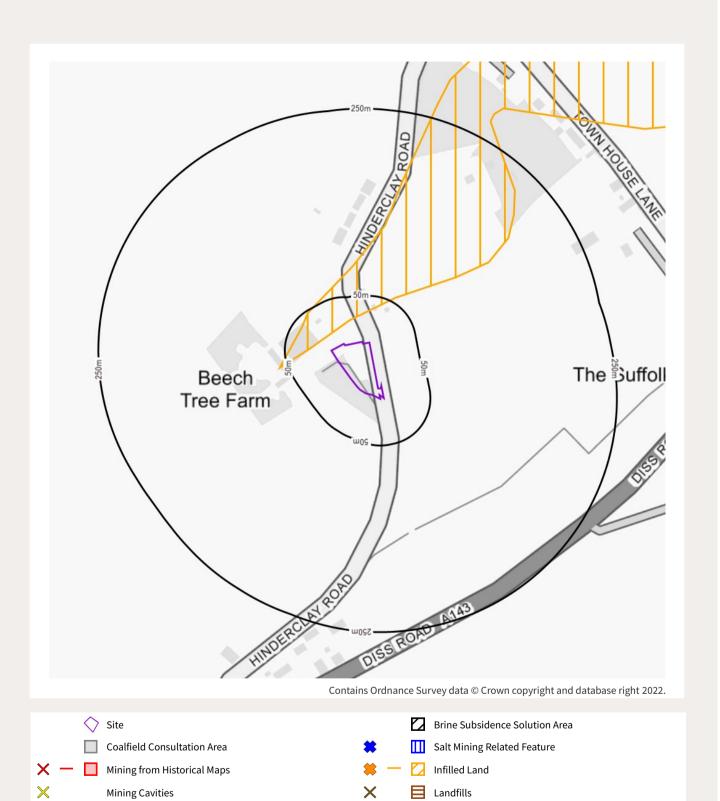
Radon	On-site	1-100m	101-250m
Radon Potential	0	N/A	N/A

<sup>\*\*</sup>dataset searched to 25m

<sup>\*</sup>dataset searched to 50m



# **Ground Hazards & Coal Mining**



Natural Cavities

Potential for Ground Stability Hazards - High Potential for Ground Stability Hazards - Moderate

Report Reference: 302514722 Intelligent Due Diligence

Other Mining

CBSCB Compensation District

Brine Pumping Related Feature



# **Ground Hazards & Coal Mining:** Coal Mining

#### Coal Mining

#### **Coal Mining Subsidence Damage Claims**

No features identified.

#### **Coalfield Consultation Areas**



# **Ground Hazards & Coal Mining:** Subsidence

#### Insurance Claims

#### **Postcode Unit Insurance Claims Rating - Subsidence**

No features identified.

#### Natural Ground Instability

#### **Natural Cavities**

No features identified.

#### **Potential for Landslide Ground Stability Hazards**

No features identified.

#### **Potential for Ground Dissolution Stability Hazards**

Details	Distance	Direction	Contact
Hazard Potential: Moderate	16m	NW	5
Hazard Description: Very significant soluble rocks, where there are numerous dissolution			
features and/or some recorded subsidence with a moderate possibility of localised			
subsidence occurring naturally or in adverse conditions such as high surface or subsurface			
water flow.			
Hazard Guidance: Do not load the land or undertake building work before obtaining			
specialist advice. Do not dispose of surface drainage to the ground. Maintain drainage			
infrastructure.			

#### **Potential for Compressible Ground Stability Hazards**

No features identified.

#### Potential for Shrinking or Swelling Clay Ground Stability Hazards

No features identified.

#### **Potential for Running Sand Ground Stability Hazards**

No features identified.

#### **Potential for Collapsible Ground Stability Hazards**



# **Ground Hazards & Coal Mining:** Natural and Mining

# Related Hazards

#### Former Mining

Potentially Contaminative Land Uses (1950-1980) from large scale historical mapping

No features identified.

Potentially Contaminative Land Uses (1855-1909) from large scale historical mapping

No features identified.

Potentially Contaminative Land Uses (1893-1915) from large scale historical mapping

No features identified.

Potentially Contaminative Land Uses (1906-1937) from large scale historical mapping

No features identified

Potentially Contaminative Land Uses (1924-1949) from large scale historical mapping

No features identified.

Potentially Contaminative Industrial Uses (Past Land Use)

No features identified.

**Man-Made Mining Cavities** 

No features identified.

**BGS Recorded Mineral Sites** 

No features identified.

**Mining Instability** 

No features identified.

**Non Coal Mining Areas of Great Britain** 

No features identified.

**Potential Mining Areas** 

No features identified.

#### Salt and Brine

#### **Brine Compensation Area**

No features identified.

**Brine Pumping Related Features** 

No features identified.

**Brine Subsidence Solution Area** 

No features identified.

**Salt Mining Related Features** 



# Ground Hazards & Coal Mining: Natural and Mining

# Related Hazards

#### Landfill Sites and Infilled Land

#### **Former Marshes**

No features identified.

#### Potentially Infilled Land (Non-Water)

No features identified.

#### Potentially Infilled Land (Water)

No features identified.

#### Potentially Contaminative Industrial Uses (Past Land Use)

No features identified.

#### **BGS Recorded Landfill Sites**

No features identified.

#### **Permitted Waste Sites - Authorised Landfill Site Boundaries**

No features identified.

#### **Registered Landfill Sites**

No features identified.

#### **Local Authority Recorded Landfill Sites**

No features identified.

#### **Historic Landfill**



# **Ground Hazards & Coal Mining:** Radon

#### Radon

#### **Radon Potential**

# **Energy & Infrastructure** Data Section



**Energy & Infrastructure Data:** This section details the data used as part of our Energy and Infrastructure analysis. Each key area has the data mapped with the detail outlined beneath.

# ontents

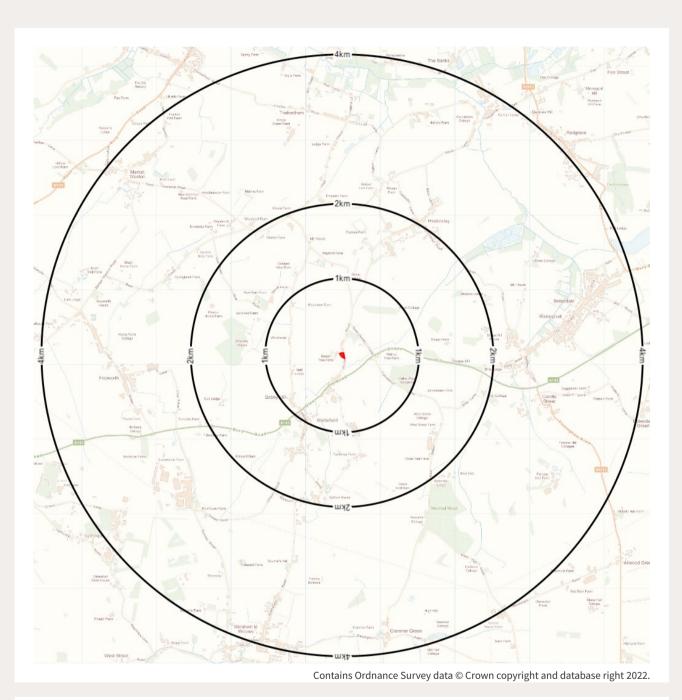
Tabular Summary	Provides an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 4km. We display the number of records found in under the relevant heading. Where we have not been able to find data, we will display the abbreviation N/A instead.
Oil and Gas Exploration	Licences or drilling facilities with 4km of the Site. Onshore oil and gas exploration and production licences relate to areas of land (blocks). The presence of one or more of these licences does not mean that exploration or production will definitely happen.
Wind Energy	Operational or planned wind farms or turbines within 4km of the Site. Includes wind projects in the UK Wind Energy Database and locations of individual wind turbines and planning applications for wind turbines with an output of 1MW.
Solar Energy Facilities	Operational and proposed solar farms within 2km of the Site. The data provides the name of the operating company, the generating capacity, and the farm's operational status.
Other Renewable Energy	Renewable power sources with an output of 1MW within 2km of the Site. These power sources are: Small / Large Hydroelectric; Shoreline Wave; Tidal Barrage / Stream; Biomass; Co-firing; Anaerobic/ Sewage Digestion; Hot Dry Rocks; Landfill Gas; Energy from Waste (EfW) Incineration; and Advanced Conversion Technology.
High Speed 2 (HS2)	HS2 track sections, stations, safeguarding limits homeowner zones and extended homeowner protection zones within 4km of the Site. This report comments on both phases using current available information.
Crossrail	Crossrail 1 and 2 track sections, stations and safeguarding limits within 2km of the Site. Crossrail (CR1) is a rail project stretching from Reading and Heathrow in the west, to Shenfield and Abbeywood in the east. Crossrail 2 (CR2) is a new (proposed) railway, linking the national rail networks in and around Surrey and Hertfordshire via an underground tunnel through London.
Railways	Above and below ground railways within 250m of the Site, including trams and light rail.
Pipelines	The Southampton to London Pipeline route within 250m of the Site.



# **Energy & Infrastructure:** Tabular Summary

Oil and Gas Explorations	On-site	1-250m	251-500m
Licensed Areas for Onshore Energy Exploration and Production	0	0	N/A
Licensed Wells for Energy Exploration	0	0	N/A
Offered Blocks for Onshore Energy Exploration and Production	0	0	N/A
Wind Energy	On-site	1-250m	251-500m
Wind Farms	0	0	N/A
Wind Turbines	0	0	N/A
Renewable Energy Planning Database	0	0	N/A
Solar Energy	On-site	1-250m	251-500m
Renewable Energy Planning Database	0	N/A	N/A
Other Renewable	On-site	1-250m	251-500m
Renewable Energy Planning Database	0	N/A	N/A
High Speed 2	On-site	1-250m	251-500m
HS2 - Track	0	N/A	N/A
HS2 - Stations	0	N/A	N/A
HS2 - Safeguarding Limits	0	N/A	N/A
HS2 - Payment Zones	0	N/A	N/A
Crossrail 1	On-site	1-250m	251-500m
Crossrail - Safeguarding Limits	0	N/A	N/A
Crossrail - Stations	0	N/A	N/A
Crossrail - Track	0	N/A	N/A
Crossrail 2	On-site	1-250m	251-500m
Crossrail 2 - Track	0	N/A	N/A
Crossrail 2 - Stations	0	N/A	N/A
Crossrail 2 - Safeguarding Limits	0	N/A	N/A
Above and below ground railways	On-site	1-250m	251-500m
Railed Transport - Tracks	0	0	N/A
Railed Transport - Stations and Stops	0	0	N/A
Southampton to London Pipeline	On-site	1-250m	251-500m





OGA Offered Exploration Blocks

Wind Farms

Planning Apps – Wind Energy

Planning Apps – Other Renewable Energy

OGA Licensed Exploration Blocks

□ Drilling Locations

Wind Turbines

Planning Apps – Solar Farms

Southampton to London pipeline



# **Energy & Infrastructure:** Energy

#### Oil and Gas Exploration

#### **Licensed Areas for Onshore Energy Exploration and Production**

No features identified.

#### Offered Blocks for Onshore Energy Exploration and Production

No features identified.

#### **Licensed Wells for Energy Exploration**

No features identified.

#### Wind Energy

#### **Wind Farms**

No features identified.

#### **Wind Turbines**

No features identified.

#### **Renewable Energy Planning Database**

No features identified.

#### Solar Energy Facilities

#### **Renewable Energy Planning Database**

No features identified.

#### Other Renewable Energy

#### **Renewable Energy Planning Database**

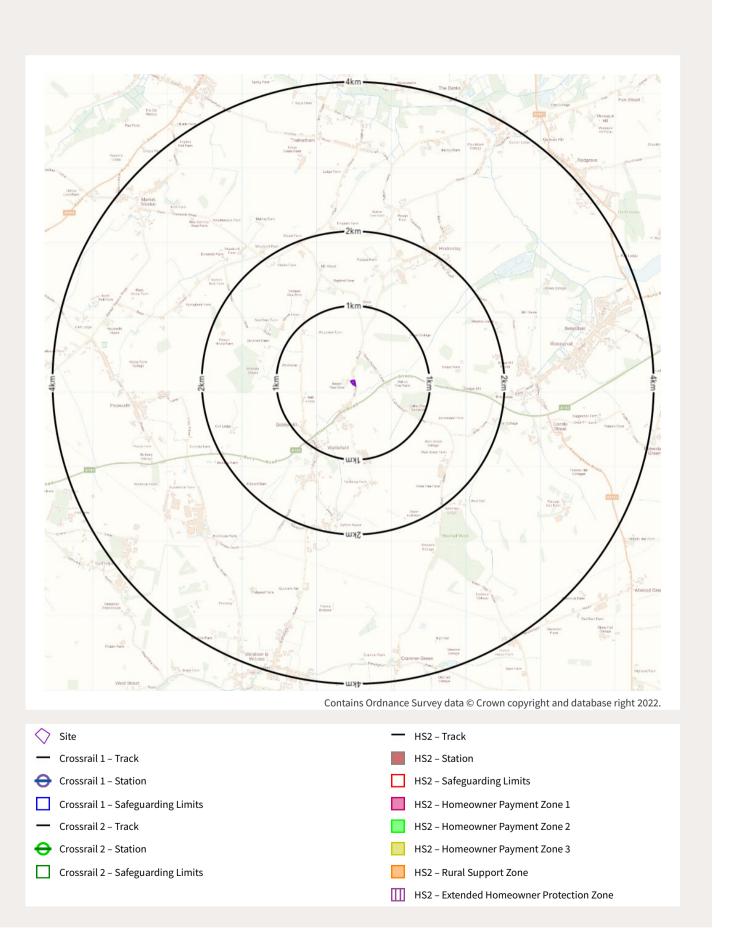
No features identified.

#### Southampton to London pipeline

#### **Southampton to London Pipeline Development**









# **Energy & Infrastructure:** Infrastructure 1

#### High Speed 2

#### HS2 - Track

No features identified.

#### **HS2 - Stations**

No features identified.

#### **HS2 - Safeguarding Limits**

No features identified.

#### **HS2 - Payment Zones**

No features identified.

#### Crossrail 1

#### **Crossrail - Track**

No features identified.

#### **Crossrail - Stations**

No features identified.

#### **Crossrail - Safeguarding Limits**

No features identified.

#### Crossrail 2

#### Crossrail 2 - Track

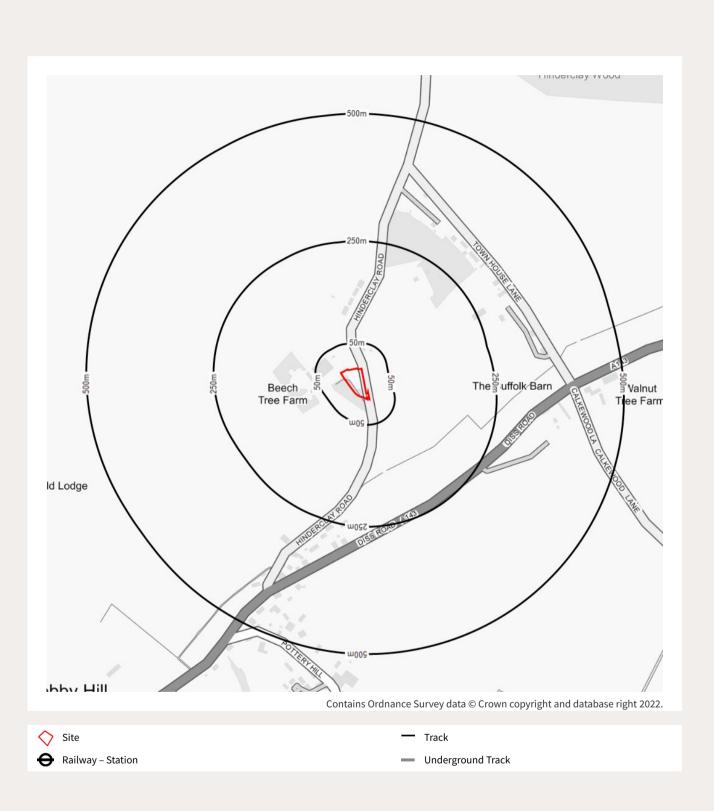
No features identified.

#### **Crossrail 2 - Stations**

No features identified.

#### **Crossrail 2 - Safeguarding Limits**







# **Energy & Infrastructure:** Infrastructure 2

#### Above and below ground railways

**Railed Transport - Tracks** 

No features identified.

**Railed Transport - Stations and Stops** 

# Site Solutions Residence About this report



#### Site Solutions Residence Limitations

Site Solutions Residence reports help you and your clients make informed property decisions. Our reports are 'desktop' assessments, written and quality checked by our team of expert consultants. We carry out the work in our Brighton office using data, maps and our expertise. We do not carry out a physical inspection of the property nor do we contact any regulator. This means that we cannot guarantee that we will have identified all issues of concern.

In the Data Section of the report we list the data sources that we have used. Most of these data sets come from third party sources such as the Environment Agency. We cannot guarantee the accuracy of this data and are not responsible for any inaccuracies in third party data.

All **Site Solutions** reports are covered by our terms and conditions, a copy of which is available on our website, www.landmark.co.uk/product-terms-conditions. If you need any further information please contact us on 0330 036 6115.

#### Contaminated Land Risk Analysis Methodology

For this section of the report we assess the condition of the land. We see whether the land could be 'Contaminated Land' under the relevant legislation. This section of the report meets the requirements for an independent site report. This is the recommendation of the Law Society Practice Note on Contaminated Land.

The main legislation is Part 2A of the Environmental Protection Act 1990. We also assess whether similar requirements could arise under the Water Resources Act 1991. The Contaminated Land legislation asks whether a 'plausible contaminantpathway-receptor relationship' exists. If we identify a relationship, then our consultants will assess the potential significance. We define Liabilities as the potential for remedial works under Part 2A of the Environmental Protection Act 1990 and/or the Water Resources Act 1991.

If the Site is to have a change of use, then we also consider relevant requirements under the Planning Regime. It may be that the level of contamination will only become an issue if the Site is to be redeveloped. An example of this is when former industrial land is redeveloped for housing. If the Site is to be redeveloped then it could also include remedial works required under the planning regime. These remedial works may be the responsibility of the Site owner or occupier.

We will issue one of the following Liability statements, in line with Defra's recommended four stage test.

Assessment	Liability Statement	Defra Category
PASSED	Within the scope of this assessment no Liabilities have been identified. No further action is required.	3 or 4
PASSED – PRUDENT ACTION	Within the scope of this assessment no Liabilities have been identified. However, your attention is drawn to the prudent action suggested below.	3 or 4
FURTHER ACTION	We have identified potential soil and/or groundwater liabilities. To quantify these we recommend you undertake the action outlined below.	Potentially 1 or 2



# Site Solutions Residence: About this report

#### Flood Risk Analysis Methodology

For this section of the report, we assess the risk of flooding at the Site. A Consultant will analyse the data within the report, and take into account factors such as source of flooding, extent, and which part of the Site is at risk (is it operationally sensitive).

Three key areas are addressed:

- the overall risk of flooding (taking into account defences)
- how flood risk affects the availability of insurance
- how flood risk affects the potential to redevelop

We report the overall risk in a summary statement, with the three outcomes listed below:

Assessment	Risk Statement
PASSED	Negligible, Low & Low-Moderate Risk: The Site is not considered to be at significant risk of flooding. No further action is deemed necessary.  Recommendations: Some simple advice may be provided.  Insurability: Insurance should be readily available.
PASSED – PRUDENT ACTION	Moderate Risk: Data indicates some risk exists to the Site and its occupants. However, this is expected to be associated with an 'extreme' event.  Recommendations: Practical advice will be provided. This may be to obtain further information or to write a flood preparation plan.  Insurance: In most cases insurance should be readily available.
FURTHER ACTION	Moderate to High and High: This report reveals a significant risk of flooding which should be addressed.  Recommendations: Further assessment is recommended to clarify the risk of flooding at the Site. This will inform whether flood protection measures should be installed.  Insurance: Insurance may not be available without a higher premium or excess.

The flood risk gauges provide an analysis of each of the four main types of flooding: river, coastal, groundwater and surface water. A fifth gauge provides analysis of 'other factors'. This includes historical floods, proximity to water features and elevation above both of these features. The purpose of this gauge is to account for risk that is not tied to modelled data.

Environment Agency defences protect large areas of England and Wales from river and coastal flooding. Our analysis of flood risk from these sources takes defences into account. Where defences are present we will report both defended and undefended risk to present the full risk profile. However, our overall assessment and recommendations will be based on the defended risk.

In Scotland, we not do not have access to data from the Scottish Environmental Protection Agency (SEPA). As a result, we are unable to take into account defences. Consequently, in Scotland our assessment is always based on the undefended risk.

An Argyll Consultant will write Site-specific commentary to summarise the risk. The purpose of this is to explain the drivers of the risk, and where possible, the extent and impact. This will be a non-technical account, explaining our assessment in simple terms. Our Consultants generate the risk assessment using several sources. This means the gauges in the front of the report will supersede any risk reported in the data section. We also consider the implications of flood risk under the National Planning Policy Framework (NPPF). We always provide a view on whether a Flood Risk Assessment would be required if development is proposed. Where the client lets us know that the Site is to be redeveloped, we provide recommendations on the most appropriate next step.

# ⊕ Useful Contacts

Please see below the contact details of the suppliers referred to within this report. For all queries please contact:

Landmark Information Group Limited

1<sup>st</sup> Floor 98-99 Queens Road Brighton BN1 3XF If you require assistance please contact our customer services team on:

0330 036 6115

Or by email at:

orders@argyllenviro.com

Contact	Name	Address	Contact Details
	Public Health England	Centre for Radiation Chemical and Environmental Hazards Chilton Didcot Oxon OX11 0RQ	T: 01235 822622 F: 01235 833891 E: radon@phe.gov.uk W: www.ukradon.org
1	Landmark Information Group Limited	Imperium Imperial Way Reading Berkshire RG2 0TD	T: 0844 844 9966 E: helpdesk@landmark.co.uk W: www.landmark.co.uk
2	Ordnance Survey	Adanac Drive Southampton Hampshire SO16 0AS	T: 03456 05 05 05 E: customerservices@ordnancesurvey.co.uk W: www.ordnancesurvey.gov.uk
3	Environment Agency, National Customer Contact Centre (NCCC)	PO Box 544 Templeborough Rotherham S60 1BY	T: 03708 506 506 E: enquiries@environment-agency.gov.uk
4	Environment Agency, Head Office	Rio House Waterside Drive Aztec West, Almondsbury Bristol Avon BS32 4UD	<b>T:</b> 01454 624400

# Useful Contacts

Contact	Name	Address	Contact Details
5	British Geological Survey, Enquiry Service	British Geological Survey Environmental Science Centre Keyworth Nottingham Nottinghamshire NG12 5GG	T: 0115 936 3143 E: enquiries@bgs.ac.uk W: www.bgs.ac.uk

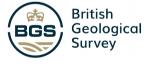
Please note that if you choose to contact any of the above organisations, they may have a charging policy in place for enquiries.

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Email: orders@argyllenviro.com

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- The standards can be seen here: <a href="http://www.conveyinfoexec.com">http://www.conveyinfoexec.com</a>

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#### TPOs Contact Details:

The Property Ombudsman scheme Milford House 43-55 Milford Street Salisbury Wiltshire SP1 2BP

Tel: 01722 333306 Fax: 01722 332296 Website: <u>www.tpos.co.uk</u>

Email: admin@tpos.co.uk

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#### Argyll Environmental Complaints Procedure

If you want to make a complaint to Argyll Environmental, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

#### Complaints should be sent to:

Legal Director Landmark Information Group Limited 1<sup>st</sup> Floor 98 - 99 Queens Road Brighton BN1 3XF

Tel: 03300 366 115

Email: orders@argyllenviro.com

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,

Email: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.