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# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

<b>Section 1: Historical Industrial Sites</b>	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	1	7	14
1.2 Additional Information – Historical Tank Database	0	0	4	0
1.3 Additional Information – Historical Energy Features Database	0	0	4	4
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	1	0	0	2
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	0	0	7	10
<b>Section 2: Environmental Permits, Incidents and Registers</b>	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	2	6
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
<b>3.1 Landfill Sites</b>						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	1	0	0	0	2	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	1	3
<b>3.2 Landfill and Other Waste Sites Findings</b>						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	1	2

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	1	1	5	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	1	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	None identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m					
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site	None identified					
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site	Identified					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	3	11
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	6
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	1	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	#250GWV #	#500GWV #	Not searched	Not searched

## Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	No	No	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	0	20	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	No	Not searched	Not searched	Not searched

## Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	None identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	None identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Limited potential					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	Low					

## Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	2	0	1
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	1	1	0	0	0	6

## Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence	Very Low
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Very Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Negligible
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Negligible
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Basic radon protective measures are necessary.

## Section 10: Mining

10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	Identified
10.3 Brine affected areas within 75m of the study site	None identified



# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

## 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

## 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

## 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

## 7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

## 9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

## 10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

## 11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

### Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

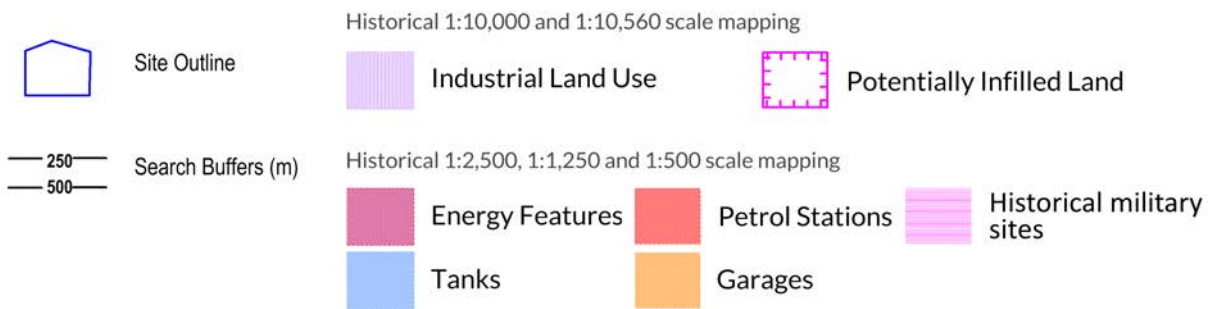
All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.



# 1. Historical Land Use



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# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 22

ID	Distance [m]	Direction	Use	Date
1	22	NW	Brewery	1890
2A	186	NE	Cuttings	1978
3A	186	NE	Cuttings	1993
4B	199	NE	Unspecified Quarry	1938
5B	200	NE	Unspecified Quarry	1948
6B	204	NE	Unspecified Pit	1951
7C	230	E	Cuttings	1978
8C	230	E	Cuttings	1993
9N	267	E	Unspecified Quarry	1890
10O	331	S	Unspecified Pit	1905
11D	337	NE	Cuttings	1993
12D	337	NE	Cuttings	1978
13F	344	W	Unspecified Works	1978
14E	376	E	Cuttings	1993
15E	376	E	Cuttings	1978
16F	382	W	Unspecified Works	1993
17G	388	E	Nursery	1978
18G	388	E	Nursery	1967
19H	492	NW	Unspecified Pit	1938
20H	492	NW	Unspecified Pit	1938
21H	493	NW	Unspecified Pit	1948
22H	494	NW	Unspecified Pit	1951

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
23I	111	SE	Unspecified Tank	1994

24I	112	E	Unspecified Tank	1975
25J	185	E	Gas Works	1893
26J	200	E	Gasometer	1893

### 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 8

ID	Distance (m)	Direction	Use	Date
27K	119	W	Electricity Substation	1975
28K	120	W	Electricity Substation	1994
29J	185	E	Gas Works	1893
30	200	E	Gasometer	1893
31L	396	SW	Electricity Substation	1974
32L	397	SW	Electricity Substation	1984
33L	397	SW	Electricity Substation	1990
34L	397	SW	Electricity Substation	1990

### 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

### 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 3

ID	Distance (m)	Direction	Use	Date
35	0	On Site	Garage	1975
36M	376	SW	Garage	1990
37M	376	SW	Garage	1990

## 1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0  
Database searched and no data found.

## 1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 17

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
38A	186	NE	Cuttings	1993
39A	186	NE	Cuttings	1978
40B	199	NE	Unspecified Quarry	1938
41B	200	NE	Unspecified Quarry	1948
42B	204	NE	Unspecified Pit	1951
43C	230	E	Cuttings	1993
44C	230	E	Cuttings	1978
45N	267	E	Unspecified Quarry	1890
46O	331	S	Unspecified Pit	1905
47D	337	NE	Cuttings	1993
48D	337	NE	Cuttings	1978
49E	376	E	Cuttings	1993
50E	376	E	Cuttings	1978
51H	492	NW	Unspecified Pit	1938
52H	492	NW	Unspecified Pit	1938
53H	493	NW	Unspecified Pit	1948
54H	494	NW	Unspecified Pit	1951



# 2. Environmental Permits, Incidents and Registers Map



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- |  |                               |  |                               |  |  |
|--|-------------------------------|--|-------------------------------|--|--|
|  | Site Outline                  |  | Recorded Pollution Incident   |  | RAS 3 & 4 Authorisations                                       |
|  | Dangerous Substances (List 1) |  | Dangerous Substances (List 2) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |
|  | Water Industry Referrals      |  |                               |  | Part A(2) and Part B Authorised Processes                      |
|  | Licenced Discharge Consents   |  |                               |  | COMAH / NIHHS Sites  |
|  | Red List Discharge Consents   |  |                               |  | Sites Determined as Contaminated Land                          |
|  |                               |  |                               |  | Hazardous Substance Consents and Enforcements                  |

# 2. Environmental Permits, Incidents and Registers

## 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

### 2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

### 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

### 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

### 2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

8

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
2A	92	SE	408950 418050	Address: SSO NEAR NEW HEY ROAD, OUTLANE, HUD, DERSFIELD (OPPOSITE SWAN HOTEL) Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 2504 Permit Version: 1	Receiving Water: LONGWOOD BROOK Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 18/04/1969 Effective Date: 18-Apr-1969 Revocation Date: 30/03/2005
3A	92	SE	408950 418050	Address: SSO NEAR NEW HEY ROAD, OUTLANE, HUD, DERSFIELD (OPPOSITE SWAN HOTEL) Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2504 Permit Version: 2	Receiving Water: LONGWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 28/02/2005 Effective Date: 31-Mar-2005 Revocation Date: -
4B	464	NE	409090 418570	Address: COACH HOUSE & TURLEY COTE FARM, TURLEY COTE LANE, SWAN LANE, OUTLANE, HUDDERSFIELD, HD3 3YN Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7579 Permit Version: 2	Receiving Water: LAND Status: VARIED UNDER EPR 2010 Issue date: 26/07/2012 Effective Date: 26-Jul-2012 Revocation Date: -
5B	464	NE	409090 418570	Address: COACH HOUSE & TURLEY COTE FARM, TURLEY COTE LANE, SWAN LANE, OUTLANE, HUDDERSFIELD, HD3 3YN Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7579 Permit Version: 1	Receiving Water: LAND Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 13/03/2000 Effective Date: 13-Mar-2000 Revocation Date: 25/07/2012
6B	464	NE	409090 418570	Address: COACH HOUSE & TURLEY COTE FARM, TURLEY COTE LANE, SWAN LANE, OUTLANE, HUDDERSFIELD, HD3 3YN Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER	Receiving Water: LAND Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 13/03/2000 Effective Date: 13-Mar-2000

ID	Distance (m)	Direction	NGR	Details	
				COMPANY Permit Number: WRA7579 Permit Version: 1	Revocation Date: 25/07/2012
7B	464	NE	409090 418570	Address: COACH HOUSE & TURLEY COTE FARM, TURLEY COTE LANE, SWAN LANE, OUTLANE, HUDDERSFIELD, HD3 3YN Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7579 Permit Version: 2	Receiving Water: LAND Status: VARIED UNDER EPR 2010 Issue date: 26/07/2012 Effective Date: 26-Jul-2012 Revocation Date: -
8C	491	N	408893 418677	Address: OLD MINK FARM SITE, OLD LINDLEY, HOLYWELL GREEN, HALIFAX, HX4 9DF Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD000472 Permit Version: 2	Receiving Water: GROUND WATERS VIA A SOAKAWAY Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 26/07/2012 Effective Date: 26-Jul-2012 Revocation Date: -
9C	491	N	408893 418677	Address: OLD MINK FARM SITE, OLD LINDLEY, HOLYWELL GREEN, HALIFAX, HX4 9DF Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD000472 Permit Version: 1	Receiving Water: GROUND WATERS VIA A SOAKAWAY Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 07/05/2008 Effective Date: 07-May-2008 Revocation Date: 25/07/2012

### 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

### 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

## 2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.



## 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

### 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

1

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	203	S	408770 417850	Incident Date: 29-Aug-2001 Incident Identification: 27570 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

### 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site

0










Database searched and no data found.



# 3. Landfill and Other Waste Sites Map



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- |   |                           |   |                            |   |   |
|---|---------------------------|---|----------------------------|---|---|
|  | Site Outline              |  | EA/NRW Active Landfill     |  | Historic and Planned Waste Sites                    |
|  | EA/NRW Historic Landfill  |  | EA/NRW Licensed Waste Site |  | Local Authority/Historical Mapping Landfill Records |
|  | BGS / DoE Survey Landfill |   |                            |   |   |
|  | 250 Search Buffers (m)    |   |                            |   |   |
|  | 500 Search Buffers (m)    |   |                            |   |   |

# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

3

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
1	0	On Site		Site Address: New Hey Road Tip, New Hey Road, Outlane, Huddersfield Waste Licence: - Site Reference: C2302 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: Gee Brothers First Recorded: 31-Dec-1920 Last Recorded: 31-Jul-1983
Not shown	855	W		Site Address: Wham Quarry, Green Lane, Sowood, Halifax, West Yorkshire Waste Licence: Yes Site Reference: 4700/0374, 700/0150, 4700/0595, NE4641 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: YQ3/L/OPT001 Licence Issue: 26-Nov-1980 Licence Surrendered: 07-Feb-1982 Licence Holder Address: Rake Straw Farm, Outlane, Huddersfield Operator: Calder Valley Stone Sales Licence Holder: Russell Barber First Recorded: 01-Jan-1964 Last Recorded: 31-Dec-1981
Not shown	875	NE		Site Address: Old Lindley Farm, Old Lindley Road, Holywell Green Waste Licence: - Site Reference: C2304 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: Smith Brothers First Recorded: 01-Feb-1990 Last Recorded: 28-Feb-1990

### 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

### 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

4

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
7	702	E	409614 418138	Refuse Tip	1961 mapping	Polygon
Not shown	1026	E	409943 417843	Refuse Tip	1974 mapping	Polygon
Not shown	1154	E	410005 417804	Refuse Tip	1968 mapping	Polygon
Not shown	1497	N	408789 419700	Refuse Tip	1961 mapping	Polygon

## 3.2 Other Waste Sites

### 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

### 3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

3

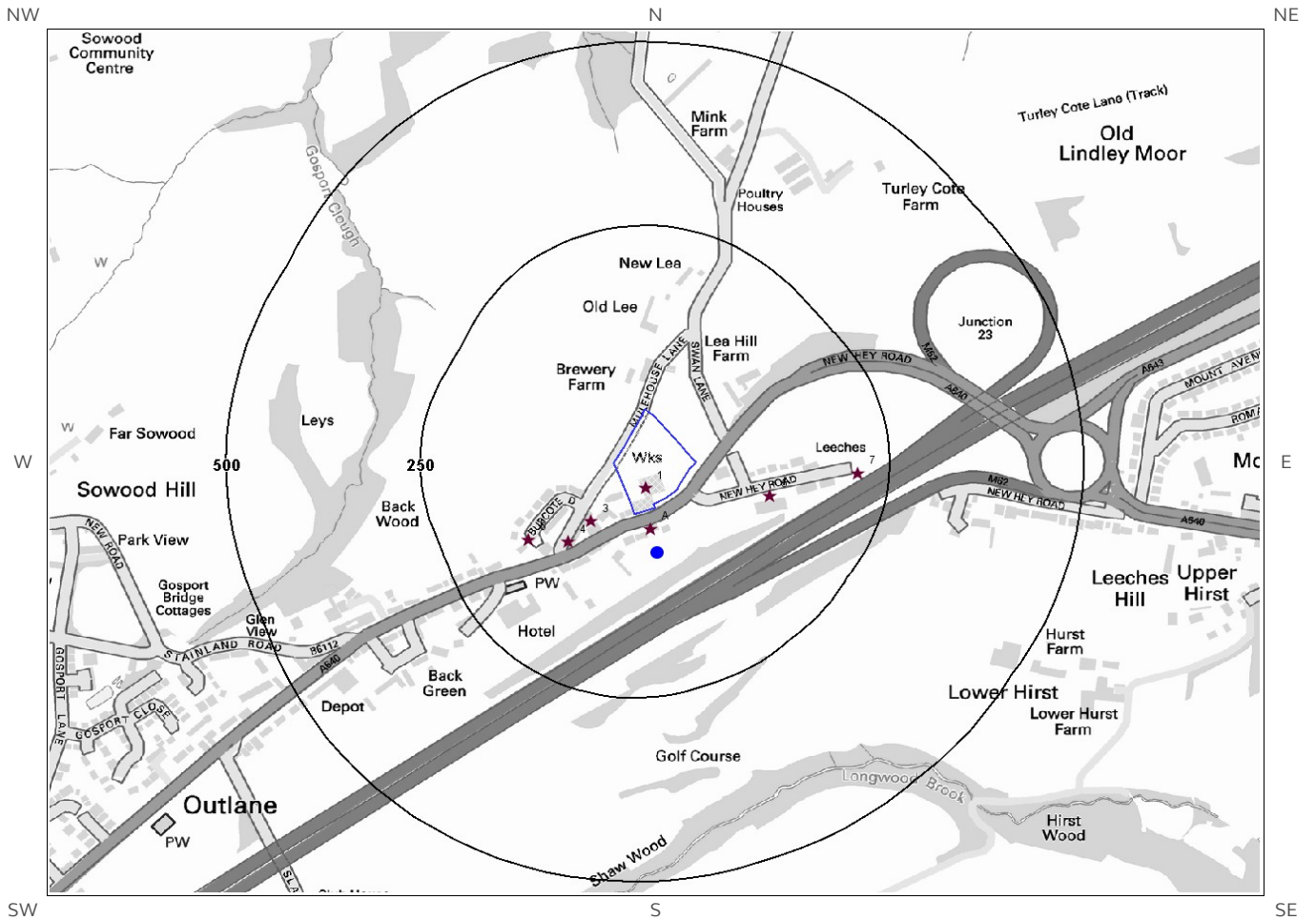
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
Not shown	901	W	407887 418228	Site Address: Green Lane, Sowood, Halifax, West Yorkshire, HX3 5QN Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OPT001 EPR reference: EA/EPR/CP3594ZF/A001 Operator: Optionscope Ltd Issue Date: 24/12/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Wham Quarry Correspondence Address: -

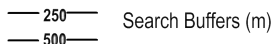
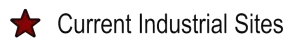
ID	Distance (m)	Direction	NGR	Details	
				Waste Management licence No: 65053 Annual Tonnage: 24999.0	
Not shown	1393	W	407400 418300	Site Address: Dean End Farm, Holywell Green, Halifax, HX4 9LF Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TOU001 EPR reference: EA/EPR/TP3299ZK/V012 Operator: Tourberry Limited Waste Management licence No: 60737 Annual Tonnage: 0.0	Issue Date: 14/08/1980 Effective Date: - Modified: 23/03/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Only House Quarry Correspondence Address: -
Not shown	1393	W	407400 418300	Site Address: Only House Quarry, Forest Hill Road, Holywell Green, Elland, West Yorkshire, HX4 9LF Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TOU001 EPR reference: EA/EPR/TP3299ZK/V002 Operator: Tourberry Ltd Waste Management licence No: 60737 Annual Tonnage: 4999.0	Issue Date: 14/08/1980 Effective Date: - Modified: 25/06/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Only House Quarry Correspondence Address: -



# 4. Current Land Use Map



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# 4. Current Land Uses

## 4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

7

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	0	On Site	Works	408822 418085	HD3	Unspecified Works Or Factories	Industrial Features
2A	25	S	I V S International Ltd	408827 418029	715, New Hey Road, Huddersfield, HD3 3YL	Waste Collection, Processing and Disposal Equipment	Industrial Products
3	57	W	Works	408751 418040	HD3	Unspecified Works Or Factories	Industrial Features
4	93	SW	Outlane Engineering Company	408722 418012	Springfield Works, New Hey Road, Huddersfield, HD3 3YJ	Industrial Engineers	Engineering Services
5	106	SE	Tank	408982 418074	HD3	Tanks (Generic)	Industrial Features
6	140	W	Electricity Sub Station	408671 418015	HD3	Electrical Features	Infrastructure and Facilities
7	209	E	Electricity Sub Station	409095 418105	HD3	Electrical Features	Infrastructure and Facilities

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
8A	59	S	408836 417996	Obsolete	New Hey Road, New Hey Road, Outlane, Huddersfield, West Yorkshire, HD7 6DT	Not Applicable	Obsolete



### 4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

---

### 4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

---

# 5. Geology

## 5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

---

## 5.2 Superficial Ground and Drift Geology

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

---

## 5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
ROSSE-MDSI	ROSSENDALE FORMATION	MUDSTONE AND SILTSTONE
HDW-SDST	HUDDERSFIELD WHITE ROCK	SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

---



# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology

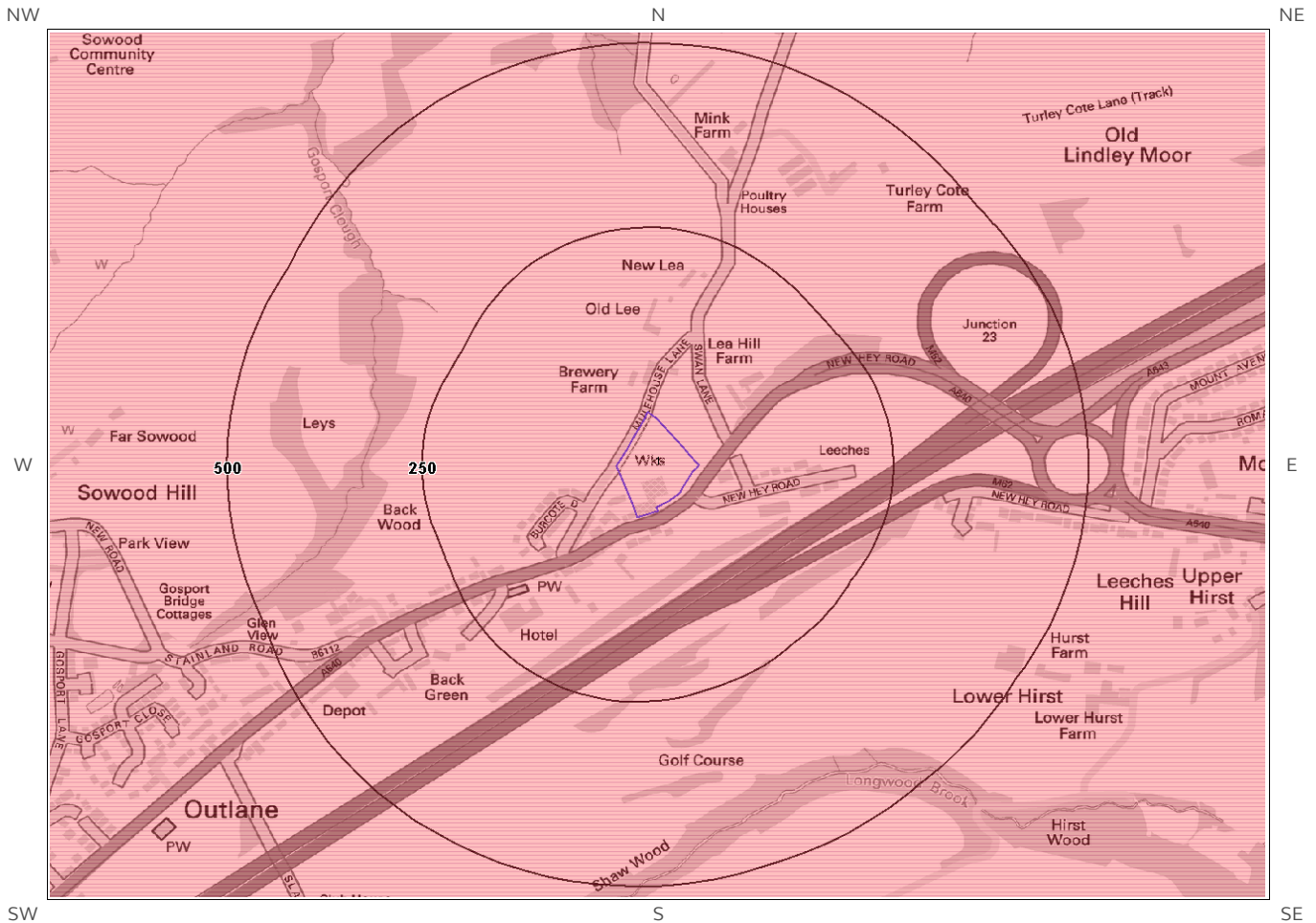


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# 6b. Aquifer Within Bedrock Geology and Abstraction Licences

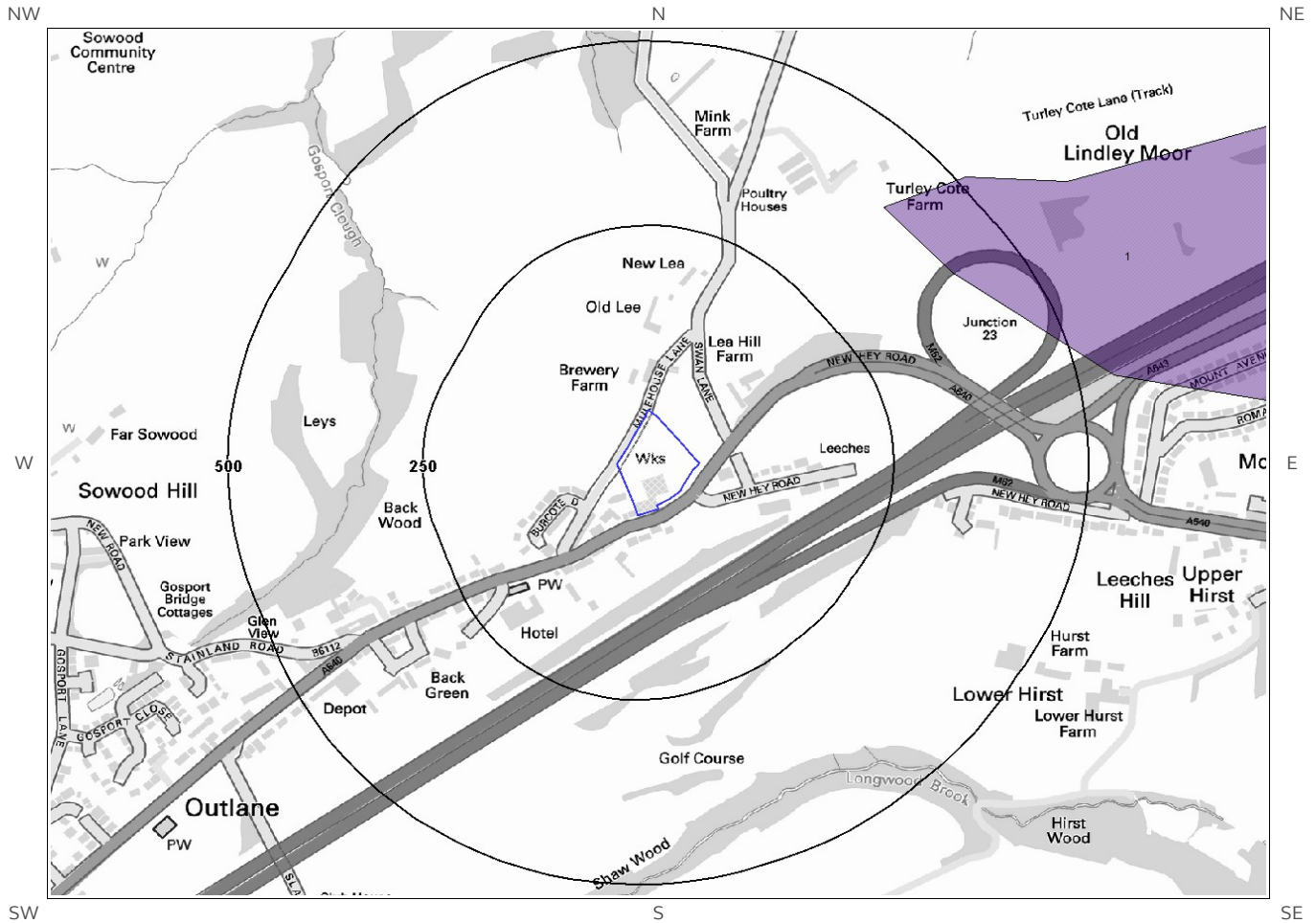


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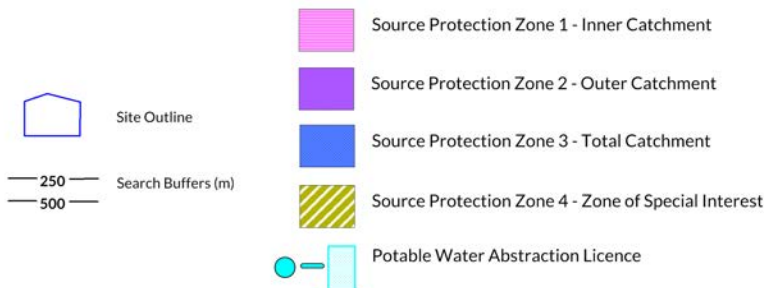




# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



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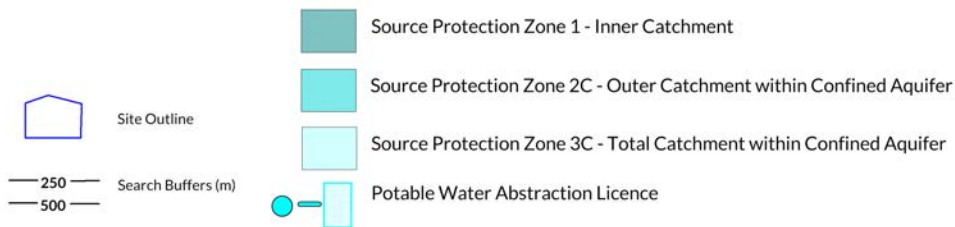




# 6d. Hydrogeology – Source Protection Zones within confined aquifer

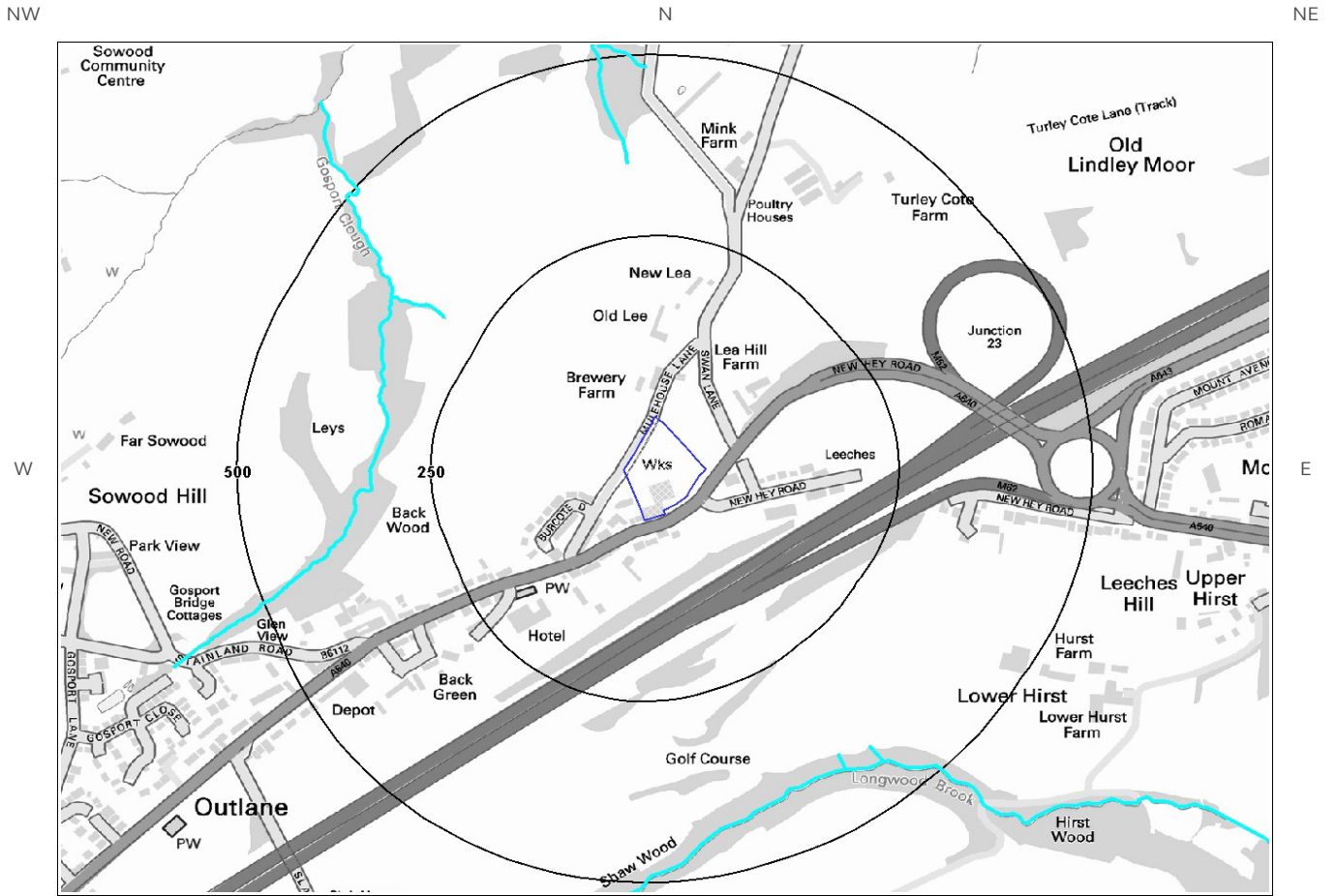


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# 6e. Hydrology – Watercourse Network and River Quality



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- |  |                                       |  |                                     |  |                               |
|--|---------------------------------------|--|-------------------------------------|--|-------------------------------|
|  | Site Outline                          |  | Tidal River                         |  | Canal                         |
|  | Inland River                          |  | Underground or Elevated Tidal River |  | Underground or Elevated Canal |
|  | Underground or Elevated Inland River  |  | Lock or Flight of Locks             |  | Lock or Flight of Locks       |
|  | Foreshore                             |  | Lake, Reservoir, or Marsh           |  | Lake, Reservoir, or Marsh     |
|  | General Quality Assessment: Chemistry |  | Drain or Transfer                   |  | Drain or Transfer             |
|  | General Quality Assessment: Biology   |  |                                     |  |                               |

# 6. Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property No

Database searched and no data found.

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

## 6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

## 6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	677	SW	408421 417494	Status: Active Licence No: NE/027/0011/003 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole - Millstone Grit - Huddersfield Data Type: Point Name: OUTLANE GOLF CLUB LTD Annual Volume (m <sup>3</sup> ): 6750 Max Daily Volume (m <sup>3</sup> ): 45 Original Application No: NPSWR004044 Original Start Date: 23/8/2010 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 23/8/2010 Version End Date:



ID	Distance (m)	Direction	NGR	Details	
Not shown	684	SW	408400 417500	Status: Historical Licence No: 2/27/11/185 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole - Outlane Golf Club - Millstone Grit Data Type: Point Name: OUTLANE GOLF CLUB LTD	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 06946 Original Start Date: 3/4/2000 Expiry Date: 31/10/2009 Issue No: 1 Version Start Date: 3/4/2000 Version End Date:
Not shown	684	SW	408400 417500	Status: Historical Licence No: 2/27/11/185 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole - Millstone Grit - Huddersfield Data Type: Point Name: OUTLANE GOLF CLUB LTD	Annual Volume (m <sup>3</sup> ): 6750 Max Daily Volume (m <sup>3</sup> ): 45 Original Application No: 6946 Original Start Date: 3/4/2000 Expiry Date: 31/10/2009 Issue No: 1 Version Start Date: 3/4/2000 Version End Date:
Not shown	1317	NW	407600 418700	Status: Historical Licence No: 2/27/12/170 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring Data Type: Point Name: FORD	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 02412 Original Start Date: 17/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/3/1966 Version End Date:
Not shown	1411	N	408900 419600	Status: Historical Licence No: 2/27/12/273 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: CLARIANT UK LIMITED	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 5246 Original Start Date: 19/9/1973 Expiry Date: - Issue No: 100 Version Start Date: 22/1/1999 Version End Date:
Not shown	1411	N	408900 419600	Status: Active Licence No: 2/27/12/273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Millstone Grit - Stainland Data Type: Point Name: RHODIA UK LTD	Annual Volume (m <sup>3</sup> ): 182000 Max Daily Volume (m <sup>3</sup> ): 818 Original Application No: NPS/WR/007655 Original Start Date: 19/9/1973 Expiry Date: - Issue No: 104 Version Start Date: 15/8/2011 Version End Date:
Not shown	1433	W	407400 418500	Status: Historical Licence No: 2/27/12/270 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring - Millstone Grit Data Type: Point Name: J M & A P DARWENT	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 05158 Original Start Date: 28/6/1972 Expiry Date: - Issue No: 101 Version Start Date: 15/5/2003 Version End Date:
Not shown	1433	W	407400 418500	Status: Active Licence No: 2/27/12/270 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring - Millstone Grit - Stainland Data Type: Point Name: J M & A P DARWENT	Annual Volume (m <sup>3</sup> ): 9150 Max Daily Volume (m <sup>3</sup> ): 27.3 Original Application No: 5158 Original Start Date: 28/6/1972 Expiry Date: - Issue No: 101 Version Start Date: 1/4/2008 Version End Date:
Not shown	1556	NE	410250 418870	Status: Historical Licence No: 2/27/12/191 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring Data Type: Point Name: BAIRSTOW	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 798 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:



ID	Distance (m)	Direction	NGR	Details	
Not shown	1556	NE	410250 418870	Status: Historical Licence No: 2/27/12/191 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring - Holywell Green Data Type: Point Name: BAIRSTOW	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 00798 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:
Not shown	1712	SE	410100 416900	Status: Historical Licence No: 2/27/11/117 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring Data Type: Point Name: SHEARD	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 1444 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:
Not shown	1712	SE	410100 416900	Status: Historical Licence No: 2/27/11/117 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring - Longwood Data Type: Point Name: SHEARD	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 01444 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:
Not shown	1885	W	406900 418000	Status: Historical Licence No: 2/27/12/224 Details: General Farming & Domestic Direct Source: Groundwaters Point: Gravity Data Type: Point Name: FAIRBANK	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 4027 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:
Not shown	1885	W	406900 418000	Status: Historical Licence No: 2/27/12/224 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring - Barkisland Data Type: Point Name: FAIRBANK	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: 04027 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/4/1966 Version End Date:

## 6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	1367	SE	409700 417000	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: Surface Water Point: Longwood Upper And Lower Reservoirs Data Type: Line Name: YORKSHIRE WATER SERVICES LTD	Annual Volume (m <sup>3</sup> ): 818297.12 Max Daily Volume (m <sup>3</sup> ): 2241.91 Application No: 2249 Original Start Date: 27/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/1/1966 Version End Date:
Not shown	1411	N	408900 419600	Status: Active Licence No: 2/27/12/125	Annual Volume (m <sup>3</sup> ): 182000 Max Daily Volume (m <sup>3</sup> ): 818

ID	Distance (m)	Direction	NGR	Details
				Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface Water Point: Stream - Stainland Data Type: Point Name: RHODIA UK LTD Application No: NPS WR/007654 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 104 Version Start Date: 15/8/2011 Version End Date: -
Not shown	1411	N	408900 419600	Status: Historical Licence No: 2/27/12/125 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Point: Stream Data Type: Point Name: CLARIANT UK LIMITED Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: 853 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/1/1999 Version End Date: -
Not shown	1714	SE	410000 416800	Status: Historical Licence No: 2/27/11/123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Point: Claywood Brook Data Type: Point Name: PARKWOOD MILLS CO LTD Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: 158902 Original Start Date: 26/5/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/5/1966 Version End Date: -
Not shown	1878	SE	410330 416910	Status: Historical Licence No: 2/27/11/123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Point: Clay Wood Brook-parkwood Road-longwood Data Type: Point Name: PARKWOOD MILLS CO LTD Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: 0158902 Original Start Date: 26/5/1966 Expiry Date: - Issue No: 102 Version Start Date: 30/8/2002 Version End Date: -
Not shown	1940	SE	410400 416900	Status: Historical Licence No: 2/27/11/115 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Point: Clay Wood Brook/oakscar Reservoir Data Type: Point Name: PARKWOOD MILLS CO LTD Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: 01588 Original Start Date: 28/4/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/4/2002 Version End Date: -

## 6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details
Not shown	1367	SE	409700 417000	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: Surface Water Point: Longwood Upper And Lower Reservoirs Data Type: Line Name: YORKSHIRE WATER SERVICES LTD Annual Volume (m <sup>3</sup> ): 818297.12 Max Daily Volume (m <sup>3</sup> ): 2241.91 Original Application No: 2249 Original Start Date: 27/1/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -



## 6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

Identified

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

ID	Distance (m)	Direction	Zone	Description
1	406	NE	2	Outer catchment

## 6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

## 6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site

Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	H3	Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content.
92	E	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

## 6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site

None identified

Database searched and no data found.

---

### 6.9.2 Chemical Quality:

Database searched and no data found.

---

## 6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	304 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	304 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
2	312 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
7	312 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
3	350 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	350 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
4	378 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
9	378	-	Inland river not influenced	Catchment Area: Aire and Calder



ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NW	Alternative Name: -	by normal tidal action.	Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
5	400 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	400 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	413 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
Not shown	413 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
7	414 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	414 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
8	422 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.1
Not shown	422 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.1
9	443 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
Not shown	443 SE	Longwood Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
10	483 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	483 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided



**Groundsure**

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## 6.11 Surface Water Features

Surface water features within 250m of the study site

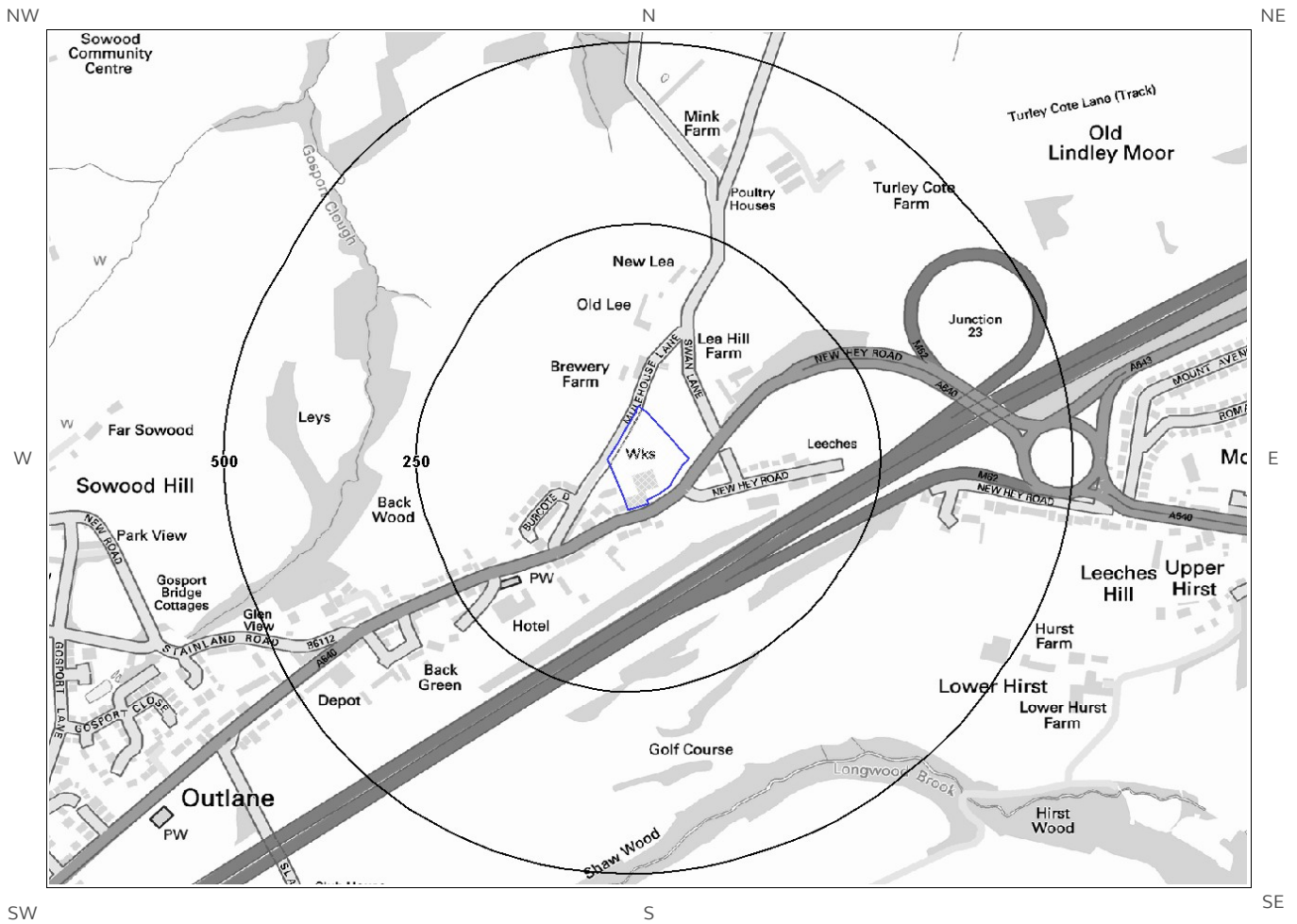
None identified

Database searched and no data found.

---



# 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)

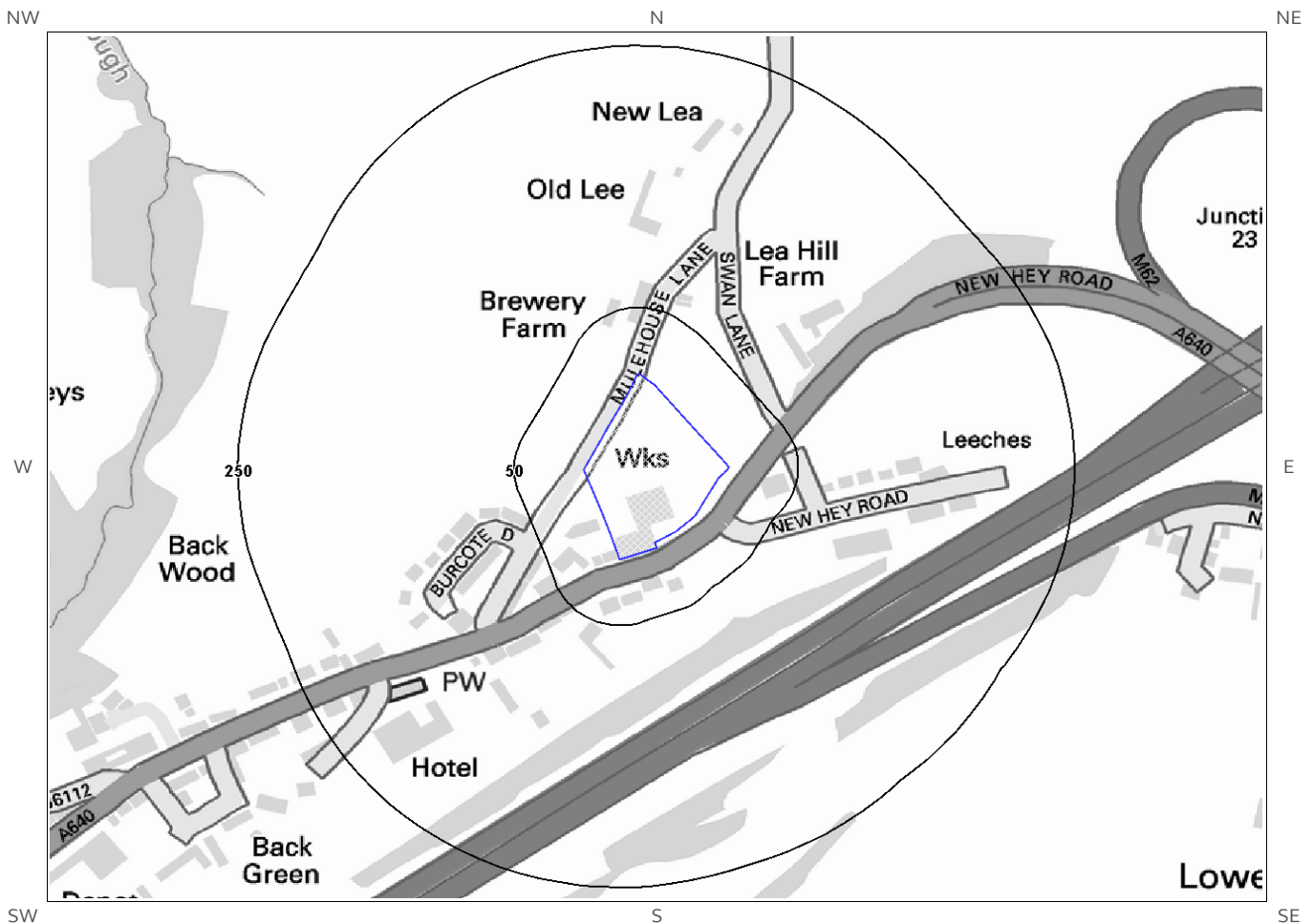


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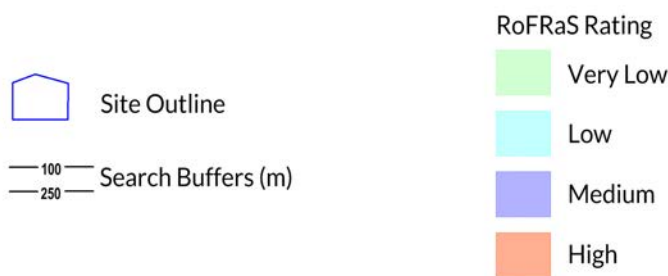




# 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

---

## 7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

---

## 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

---

## 7.4 Flood Defences

Flood Defences within 250m of the study site None identified  
Database searched and no data found.

---

## 7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site None identified

---



## 7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified

## 7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site

Identified

Clearwater Flooding or Superficial Deposits Flooding

Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

## 7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result

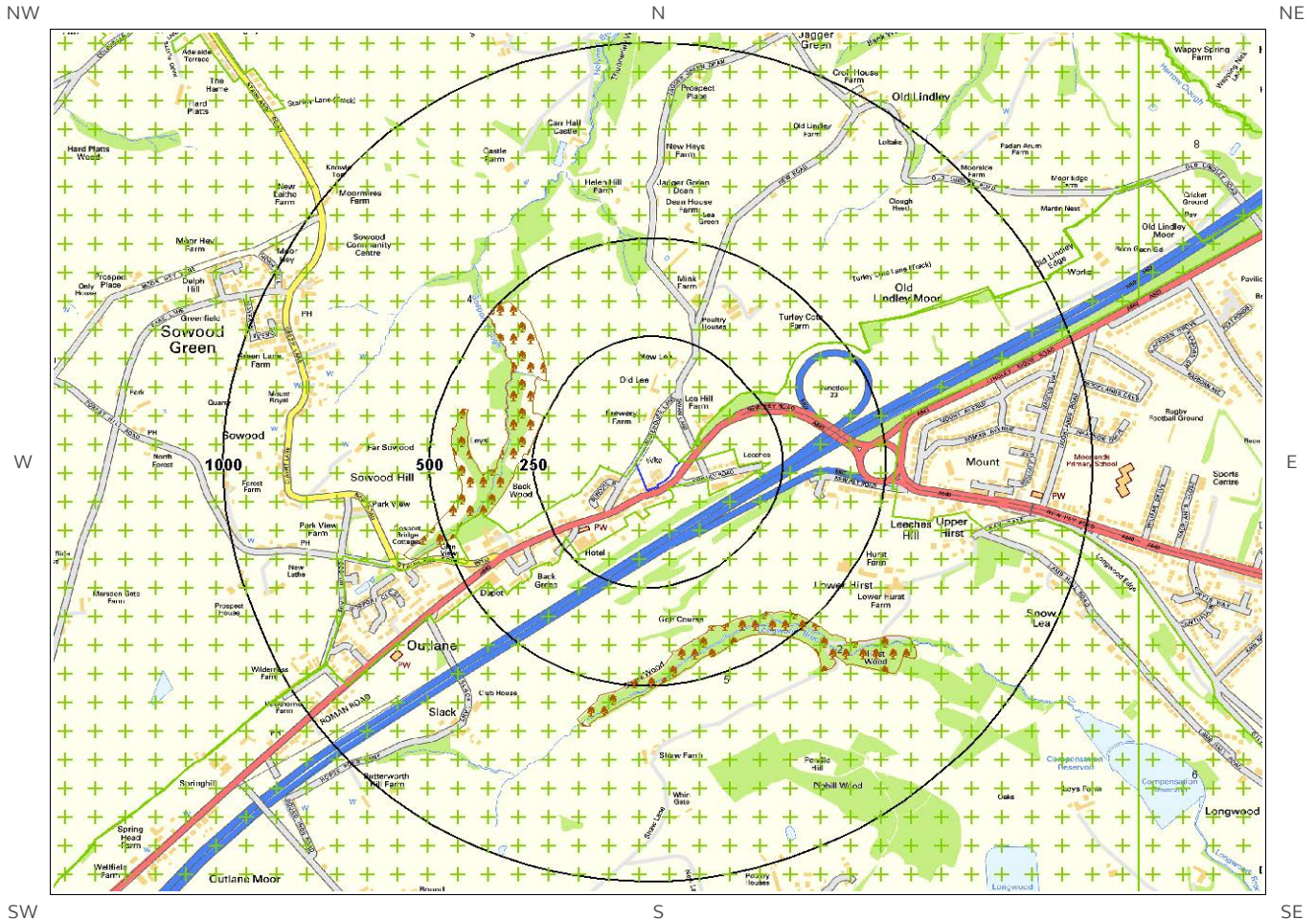
Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.



# 8. Designated Environmentally Sensitive Sites Map



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# 8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site

Identified

---

## 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

---



**8.6 Records of Ancient Woodland within 2000m of the study site:**

3

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
1	252	W	UNKNOWN	Ancient and Semi-Natural Woodland
2	377	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1953	NW	UNKNOWN	Ancient and Semi-Natural Woodland

---

**8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:**

0

Database searched and no data found.

---

**8.8 Records of World Heritage Sites within 2000m of the study site:**

0

Database searched and no data found.

---

**8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:**

0

Database searched and no data found.

---

**8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:**

0

Database searched and no data found.

---

**8.11 Records of National Parks (NP) within 2000m of the study site:**

0

Database searched and no data found.

---



**8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:**

0

Database searched and no data found.

---

**8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:**

0

Database searched and no data found.

---

**8.14 Records of Green Belt land within 2000m of the study site:**

8

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
4	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Calderdale District (B)
5	1	NE	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
6	1153	E	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
7	1190	E	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
8	1322	NE	Liverpool, Manchester and West Yorks Greenbelt	Calderdale District (B)
9	1532	NE	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
Not shown	1809	N	Liverpool, Manchester and West Yorks Greenbelt	Calderdale District (B)
Not shown	1825	NE	Liverpool, Manchester and West Yorks Greenbelt	Calderdale District (B)

---

# 9. Natural Hazards Findings

## 9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our [website](#). The following information has been found:

### 9.1.1 Shrink Swell

Maximum Shrink-Swell\*\* hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

### 9.1.2 Landslides

Maximum Landslide\* hazard rating identified on the study site Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

### 9.1.3 Soluble Rocks

Maximum Soluble Rocks\* hazard rating identified on the study site Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

\* This indicates an automatically generated 50m buffer and site.



Maximum Compressible Ground\* hazard rating identified on the study site

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

---

**Hazard**

No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

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9.1.5 Collapsible Rocks

Maximum Collapsible Rocks\* hazard rating identified on the study site

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

---

**Hazard**

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

---

---

9.1.6 Running Sand

Maximum Running Sand\*\* hazard rating identified on the study site

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

---

**Hazard**

No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

---

---

\* This indicates an automatically generated 50m buffer and site.



### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

---

### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? Basic radon protective measures are necessary.

# 10. Mining

## 10.1 Coal Mining

Coal mining areas within 75m of the study site

Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

## 10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

Identified

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Vein Mineral	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

Past underground mine workings are uncommon, localised and of limited area. The rock types present in this area are such that minor mineral veins may be present within them on which it is possible that there have been attempts to work these by underground methods and/or it is possible that small scale underground extraction of other materials may have occurred. All such occurrences are likely to be restricted in size and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

## 10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

# Contact Details

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enquiries@demeter-environmental.co.uk



**British Geological Survey Enquiries**

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Fax: 0115 936 3276.  
Email:

Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)

BGS Geological Hazards Reports and general geological enquiries:  
[enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)



**Environment Agency**

National Customer Contact Centre, PO Box 544  
Rotherham, S60 1BY  
Tel: 03708 506 506

Web: [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)



**Public Health England**

Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
[www.gov.uk/phe](http://www.gov.uk/phe)

Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000



**Public Health England**

**The Coal Authority**

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Tel: 0345 7626 848  
DX 716176 Mansfield 5  
[www.coal.gov.uk](http://www.coal.gov.uk)



**The Coal Authority**

**Ordnance Survey**

Adanac Drive, Southampton  
SO16 0AS  
Tel: 08456 050505



**Local Authority**

Authority: Calderdale Metropolitan Borough Council  
Phone: 01422 288001

Web: <http://www.calderdale.gov.uk/>

Address: Town Hall, Crossley Street, Halifax, HX1 1UJ

**Gemapping PLC**

Virginia Villas, High Street, Hartley Witney,  
Hampshire RG27 8NW  
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# Groundsure

LOCATION INTELLIGENCE

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