



Groundsure

LOCATION INTELLIGENCE

Martin Environmental Solutions
19, Ord Avenue,
Blackpool, FY4 4DW

Groundsure Reference: GS-3434915
Your Reference: Graham_Anthony_Associates
Report Date: 9 Nov 2016
Report Delivery Method: Email - pdf

Groundsure Enviro Insight

Address: CUCKOLDMANS FARM, ROMAN ROAD, DARWEN, BB3 3PP

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Groundsure Enviro Insight

Address: CUCKOLDMANS FARM, ROMAN ROAD, DARWEN, BB3 3PP
Date: 9 Nov 2016
Reference: GS-3434915
Client: Martin Environmental Solutions



Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 371960,420694
Site Size: 12.45ha

Report Reference: GS-3434915
Client Reference: Graham_Anthony_Associates

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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.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	0	18	35
1.2 Additional Information – Historical Tank Database	0	0	2	1
1.3 Additional Information – Historical Energy Features Database	0	0	0	0
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	0	0	0	0
1.6 Potentially Infilled Land	0	2	19	36

Section 2: Environmental Permits, Incidents and Registers	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	0	0
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 Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	0	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
3.1 Landfill Sites						
3.1.1 Environment Agency Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency Historic Landfill Sites	0	0	0	0	4	5
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	2
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	1
3.2 Landfill and Other Waste Sites Findings						
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 Licensed Waste Sites	0	0	0	0	0	1

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	1	0	4	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	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 Are there any records of Artificial Ground and Made Ground present beneath the study site?	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
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 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes					
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	2	2	6	0	0	10
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	6	0	0	11
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	2	0	0	3
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	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	1	0	Not searched	Not searched
	On-site	0-50m	51-250	251-500	501-1000	1000-1500

Section 6: Hydrogeology and Hydrology

0-500m

6.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	No	No
6.10 Detailed River Network entries within 500m of the site	2	2	9	10	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	No
7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site	No
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low
7.4 Are there any Flood Defences within 250m of the study site?	No
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential below Surface
7.8 What is the 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	0	0	2
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
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.11 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	0	0	0	1	3

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	High
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Very Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Moderate
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Negligible
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	High
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Very Low
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 property is not in a Radon Affected Area, as less than 1% 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?	No radon protective measures are necessary.

Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?	Yes
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	No
10.3 Are there any brine affected areas within 75m of the study site?	No

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 licenses, 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.

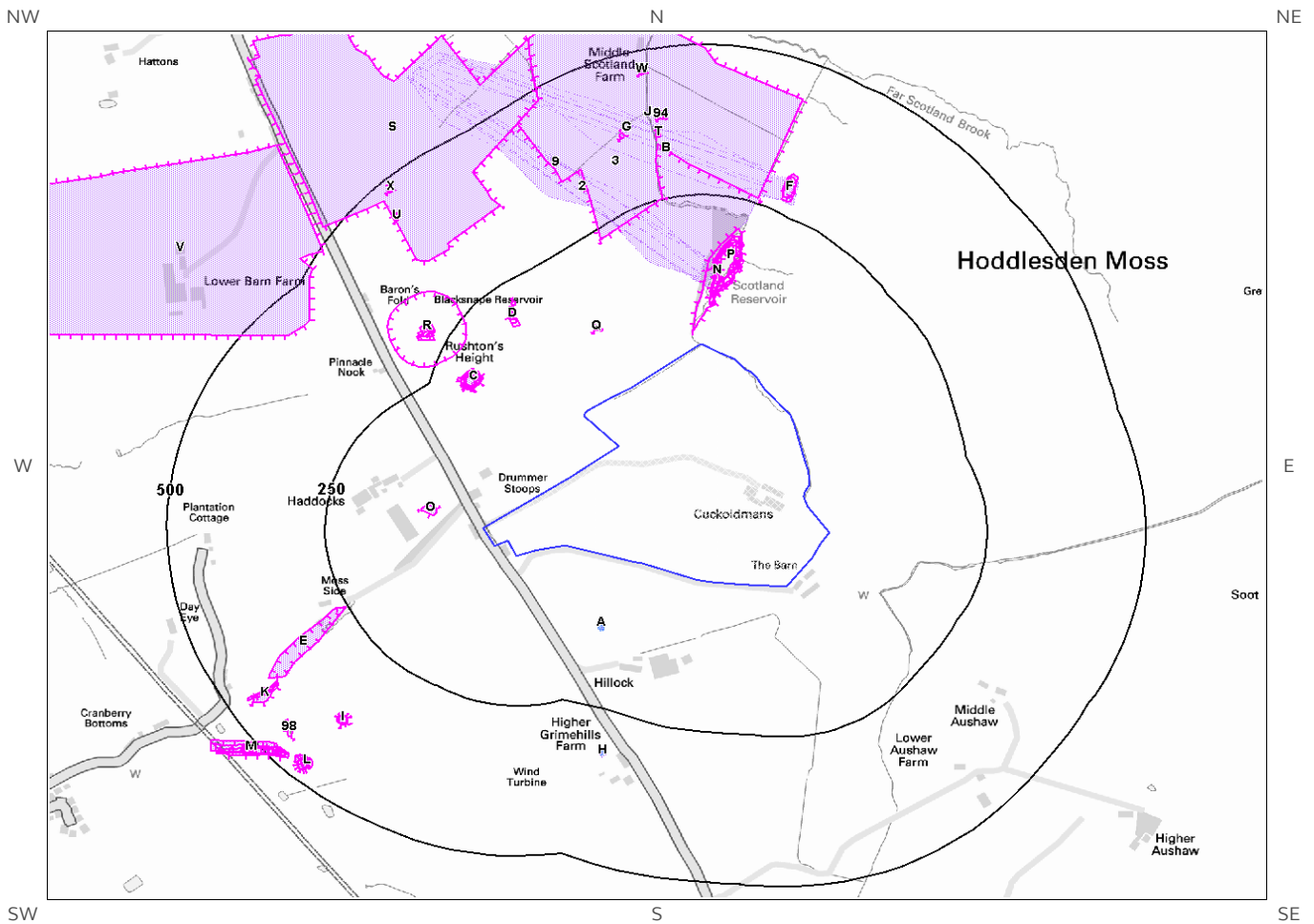
Note: Maps

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).

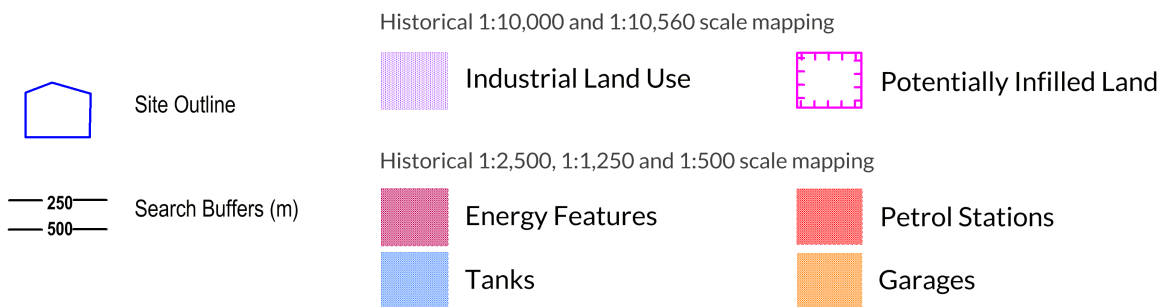
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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: 53

ID	Distance [m]	Direction	Use	Date
1O	78	W	Unspecified Pit	1892
2	95	N	Rifle Range	1909
3	107	N	Disused Rifle Ranges	1928
4Q	109	NW	Old Coal Drift	1846
5A	111	S	Unspecified Tank	1983
6A	111	S	Unspecified Tank	1965
7B	113	N	Disused Rifle Ranges	1928
8B	113	N	Disused Rifle Ranges	1938
9	122	N	Disused Rifle Ranges	1950
10C	172	W	Refuse Heap	1892
11C	174	W	Refuse Heap	1950
12C	178	W	Refuse Heap	1929
13C	178	W	Refuse Heap	1909
14C	180	W	Refuse Heap	1929
15C	180	W	Refuse Heap	1929
16D	192	NW	Old Coal Pit	1846
17D	210	NW	Coal Pit	1846
18J	233	NW	Colliery	1846
19E	254	SW	Unspecified Pit	1965
20E	254	SW	Unspecified Pit	1983
21G	264	N	Rifle Range	1909
22F	272	NE	Unspecified Heap	1938
23F	272	NE	Unspecified Heap	1928
24F	276	NE	Unspecified Heap	1950
25G	284	N	Disused Rifle Ranges	1950
26H	313	S	Unspecified Tank	1965
27H	313	S	Unspecified Tank	1983
28S	346	NW	Colliery	1846
29T	353	N	Coal Drifts	1846
30G	366	N	Coal Pit	1846
31I	368	SW	Unspecified Pit	1909
32I	369	SW	Unspecified Pit	1929
33I	369	SW	Unspecified Pit	1929
34I	369	SW	Unspecified Pit	1929

35J	381	N	Old Coal Drift	1846
36K	412	SW	Unspecified Ground Workings	1929
37K	413	SW	Unspecified Ground Workings	1909
38U	436	NW	Coal Pit	1846
39V	442	NW	Colliery	1846
40L	458	SW	Unspecified Pit	1892
41W	461	N	Coal Pit	1846
42L	463	SW	Unspecified Pits	1950
43L	465	SW	Unspecified Pit	1929
44L	466	SW	Unspecified Pit	1909
45L	466	SW	Unspecified Pit	1929
46L	466	SW	Unspecified Pit	1929
47M	475	SW	Unspecified Pit	1892
48M	477	SW	Cuttings	1983
49M	477	SW	Cuttings	1965
50X	478	NW	Old Coal Pits	1846
51M	480	SW	Unspecified Pit	1929
52M	485	SW	Unspecified Pit	1929
53M	485	SW	Unspecified Pit	1929

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:

3

ID	Distance (m)	Direction	Use	Date
54A	113	S	Unspecified Tank	1960
55A	114	S	Unspecified Tank	1993
56H	315	S	Unspecified Tank	1960

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:

0

Database searched and no data found.

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: 0

Database searched and no data found.

1.6 Potentially Infilled Land

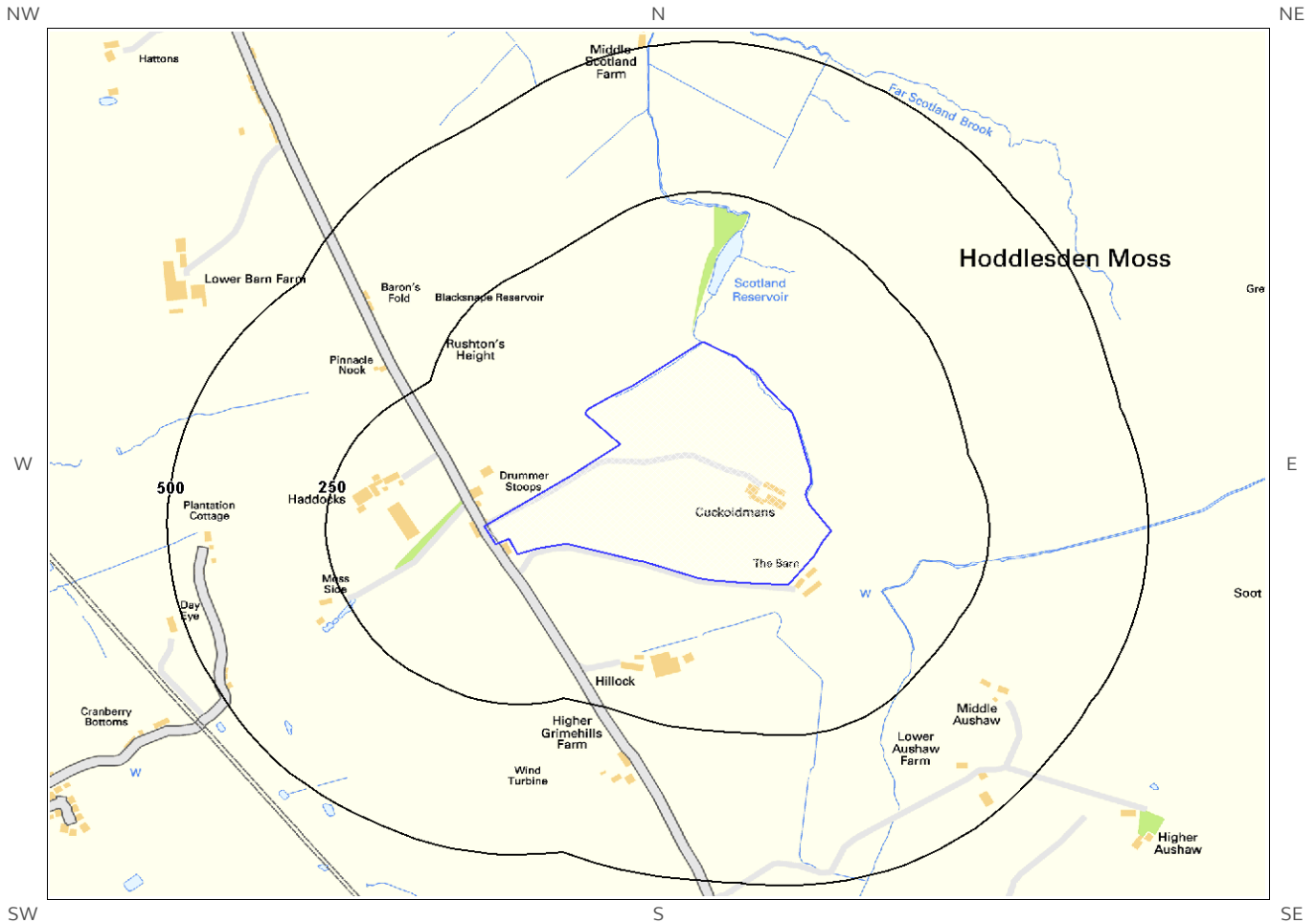
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 57

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
















ID	Distance(m)	Direction	Use	Date
57N	25	NW	Reservoir	1892
58N	25	NW	Reservoir	1909
59N	65	N	Reservoir	1928
60N	71	N	Reservoir	1928
61N	75	N	Reservoir	1938
62O	78	W	Unspecified Pit	1892
63N	83	N	Reservoir	1950
64P	106	N	Reservoir	1983
65P	106	N	Reservoir	1965
66Q	109	NW	Old Coal Drift	1846
67C	172	W	Refuse Heap	1892
68C	174	W	Refuse Heap	1950
69D	178	NW	Covered Reservoir	1983
70C	178	W	Refuse Heap	1929
71C	178	W	Refuse Heap	1909
72C	180	W	Refuse Heap	1929
73C	180	W	Refuse Heap	1929
74D	192	NW	Old Coal Pit	1846
75D	210	NW	Coal Pit	1846
76R	224	NW	Reservoir	1950

77J	233	NW	Colliery	1846
78E	254	SW	Unspecified Pit	1983
79E	254	SW	Unspecified Pit	1965
80R	267	NW	Reservoir	1909
81R	272	NW	Reservoir	1928
82R	272	NW	Reservoir	1938
83F	272	NE	Unspecified Heap	1928
84F	272	NE	Unspecified Heap	1938
85R	274	NW	Reservoir	1965
86F	276	NE	Unspecified Heap	1950
87S	346	NW	Colliery	1846
88T	353	N	Coal Drifts	1846
89G	366	N	Coal Pit	1846
90I	368	SW	Unspecified Pit	1909
91I	369	SW	Unspecified Pit	1929
92I	369	SW	Unspecified Pit	1929
93I	369	SW	Unspecified Pit	1929
94	381	N	Old Coal Drift	1846
95K	412	SW	Unspecified Ground Workings	1929
96K	413	SW	Unspecified Ground Workings	1909
97U	436	NW	Coal Pit	1846
98	439	SW	Pond	1929
99V	442	NW	Colliery	1846
100L	458	SW	Unspecified Pit	1892
101W	461	N	Coal Pit	1846
102L	463	SW	Unspecified Pits	1950
103L	465	SW	Unspecified Pit	1929
104L	466	SW	Unspecified Pit	1909
105L	466	SW	Unspecified Pit	1929
106L	466	SW	Unspecified Pit	1929
107M	475	SW	Unspecified Pit	1892
108M	477	SW	Cuttings	1965
109M	477	SW	Cuttings	1983
110X	478	NW	Old Coal Pits	1846
111M	480	SW	Unspecified Pit	1929
112M	485	SW	Unspecified Pit	1929
113M	485	SW	Unspecified Pit	1929

2. Environmental Permits, Incidents and Registers Map



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

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency 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:

0

Database searched and no data found.

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 Recorded Pollution Incidents

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

0

Database searched and no data found.

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

0

Database searched and no data found.

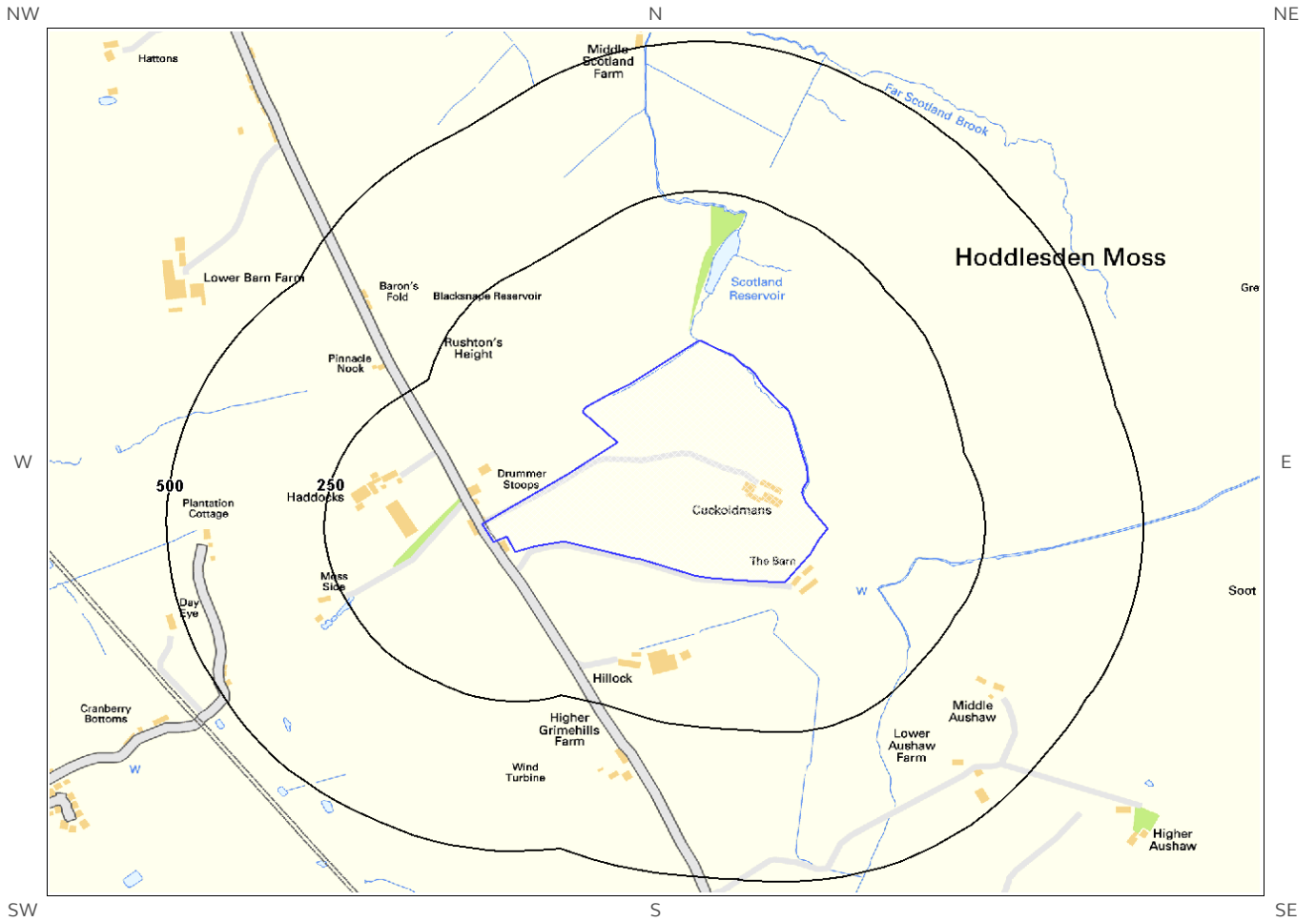
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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

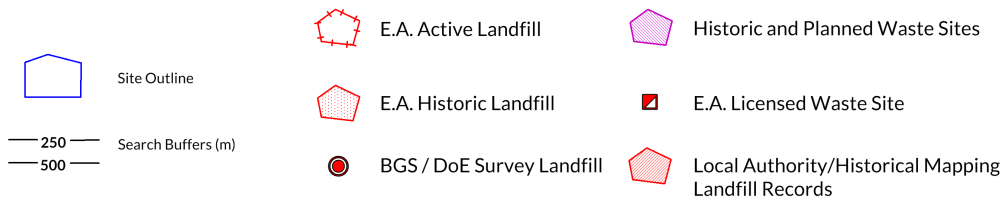
0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

9

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	
Not shown	867	NW	370700 420900	Site Address: Lower Barn Farm, Blacksnape Road, Darwen, Lancashire Waste Licence: Yes Site Reference: WD/100/149, L1/10/149, K1/10/024, Licence No 106 Waste Type: Inert, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 12-Dec-1978 Licence Surrendered: 28-Mar-1994 Licence Holder Address: Lower arn Farm, Darwen, Lancashire Operator: - Licence Holder: A L Parson Esquire First Recorded: - Last Recorded: -
Not shown	876	W	370700 420900	Site Address: Lower Barn Farm, Blacksnape Road, Darwen, Lancashire Waste Licence: Yes Site Reference: WD/100/149, L1/10/149, K1/10/024, Licence No 106 Waste Type: Inert, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 12-Dec-1978 Licence Surrendered: 28-Mar-1994 Licence Holder Address: Lower arn Farm, Darwen, Lancashire Operator: - Licence Holder: A L Parson Esquire First Recorded: - Last Recorded: -
Not shown	915	NW	370700 420900	Site Address: Lower Barn Farm, Blacksnape Road, Darwen, Lancashire Waste Licence: Yes Site Reference: WD/100/149, L1/10/149, K1/10/024, Licence No 106 Waste Type: Inert, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 12-Dec-1978 Licence Surrendered: 28-Mar-1994 Licence Holder Address: Lower arn Farm, Darwen, Lancashire Operator: - Licence Holder: A L Parson Esquire First Recorded: - Last Recorded: -
Not shown	940	NW	370700 420900	Site Address: Lower Barn Farm, Blacksnape Road, Darwen, Lancashire Waste Licence: Yes Site Reference: WD/100/149, L1/10/149, K1/10/024, Licence No 106 Waste Type: Inert, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 12-Dec-1978 Licence Surrendered: 28-Mar-1994 Licence Holder Address: Lower arn Farm, Darwen, Lancashire Operator: - Licence Holder: A L Parson Esquire First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1113	N	372100 422000	Site Address: Ex Pipe Works off Queen Street Hoddlesden, Hoddleston, Lancashire Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Mr J A Jackson Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1243	SW	370600 419500	Site Address: Bent Hall Farm, Off Bolton Road, Bull Hill, Darwen, Lancashire Waste Licence: Yes Site Reference: K1/10/014, 189, L1/01/236 Waste Type: Inert, Industrial, Commercial, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 29-Mar-1984 Licence Surrendered: Licence Holder Address: Bent Hall Farm, Bull Hill, Dawen Operator: Mr E Proctor Licence Holder: Edmund Proctor Limited First Recorded: 31-Dec-1934 Last Recorded: 31-Dec-1984
Not shown	1318	SW	370200 419900	Site Address: Bull Hill, Bolton Road, Darwen, Blackburn, Lancashire Waste Licence: - Site Reference: K1/10/006, 200/9 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Darwen Borough Council Licence Holder: Lancashire County Council First Recorded: 31-Dec-1938 Last Recorded: 31-Dec-1979
Not shown	1368	SW	370600 419500	Site Address: Bent Hall Farm, Off Bolton Road, Bull Hill, Darwen, Lancashire Waste Licence: Yes Site Reference: L1/10/055, K1/10/014, 53 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 09-Sep-1977 Licence Surrendered: Licence Holder Address: Bent Hall Farm, Bull Hill, Darwen Operator: - Licence Holder: Edmund Proctor Limited First Recorded: 31-Dec-1977 Last Recorded: 31-Dec-1982
Not shown	1378	SW	370600 419500	Site Address: Bent Hall Farm, Off Bolton Road, Bull Hill, Darwen, Lancashire Waste Licence: Yes Site Reference: 158, 100/209, L1/10/209, 83, K1/10/014 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 26-Feb-1982 Licence Surrendered: Licence Holder Address: Bent Hall Farm, Bull Hill, Darwen Operator: - Licence Holder: Edmund Proctor Limited First Recorded: 31-Dec-1982 Last Recorded: 31-Dec-1984

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

2

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

ID	Distance (m)	Direction	NGR	Details	
Not shown	1200	N	371800.0 422100.0	Address: Ex Pipe works off Queen St, Hoddleston, Lancs BGS Number: 641.0	Risk: Risk to minor aquifer Waste Type: N/A
Not shown	1368	SW	370700.0 419600.0	Address: Bent Hall Farm, Bull Hill, Darwen, Lancs BGS Number: 2363.0	Risk: No risk to aquifer Waste Type: N/A

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

1

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
Not shown	1386	SW	370330 420017	Refuse Tip	1973 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.

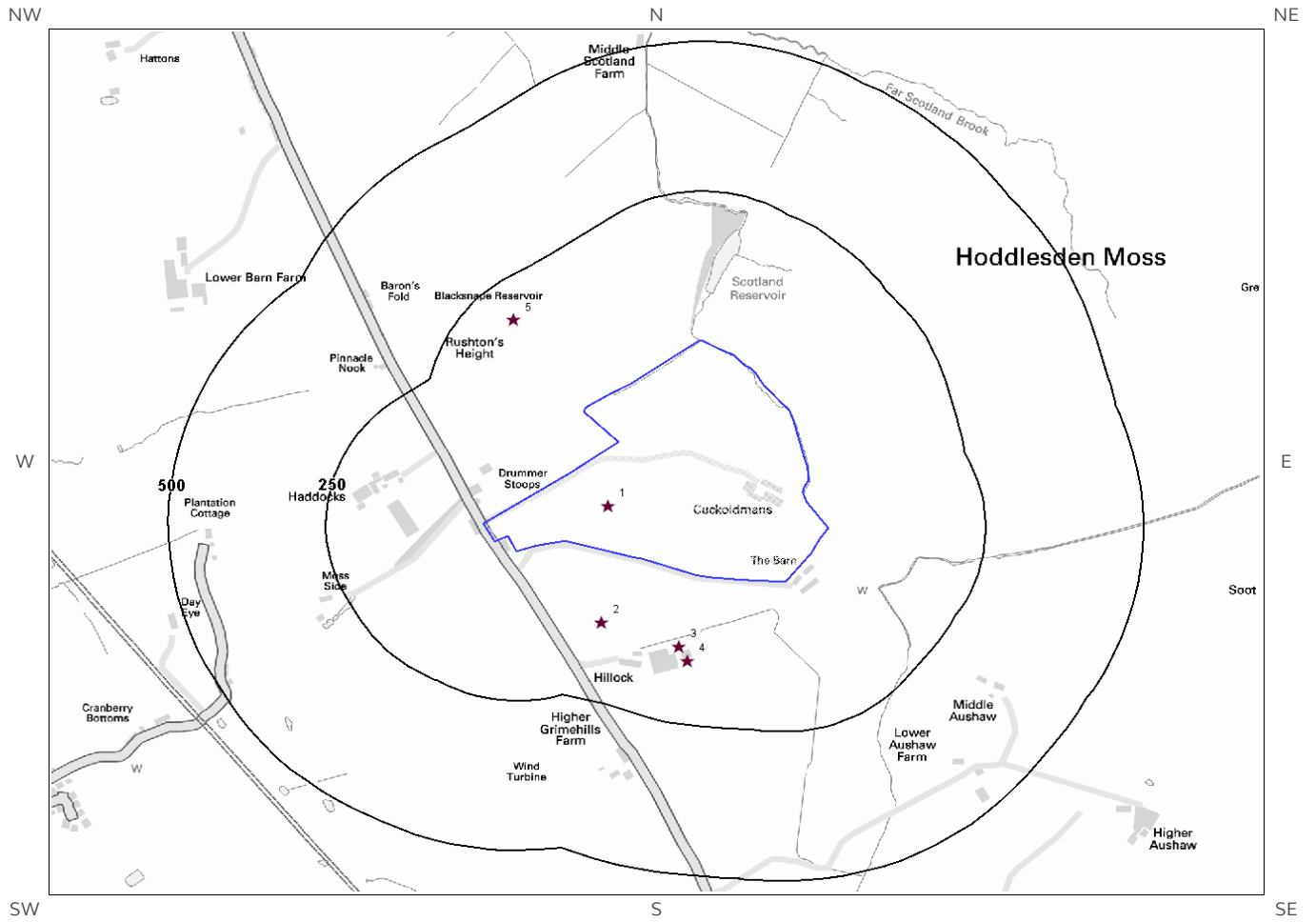
3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

1

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	1442	SW	370700 419500	<p>Site Address: Bent Hall Farm L F S, Bull Hill, Darwen, Blackburn, Lancashire, BB3 2TT</p> <p>Type: Household, Commercial & Industrial Waste Landfill</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: BEN001</p> <p>EPR reference: EA/EPR/ZP3391CB/V009</p> <p>Operator: Edmund Proctor Ltd</p> <p>Waste Management licence No: 54048</p> <p>Annual Tonnage: 24950.0</p> <p>Issue Date: 15/03/1991</p> <p>Effective Date: -</p> <p>Modified: 08/04/2016</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Bent Hall Farm L F S</p> <p>Correspondence Address: -</p>

4. Current Land Use Map



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-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Search Buffers (m)
-  Petrol & Fuel Sites
-  Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 5

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	Pylon	371835 420639	BB3	Electrical Features	Infrastructure and Facilities
2	118	S	Tank	371824 420444	BB3	Tanks (Generic)	Industrial Features
3	121	S	Slurry Tank	371948 420404	BB3	Waste Storage, Processing and Disposal	Infrastructure and Facilities
4	143	S	Pylon	371961 420380	BB3	Electrical Features	Infrastructure and Facilities
5	186	NW	Pylon	371685 420950	BB3	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

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

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

Lex Code	Description	Rock Type
TILLD	TILL, DEVENSIAN	DIAMICTON
TILLD	TILL, DEVENSIAN	DIAMICTON
PEAT	PEAT	PEAT [UNLITHIFIED DEPOSITS CODING SCHEME]

5.3 Bedrock and Solid Geology

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

Lex Code	Description	Rock Type
GNR-SDST	GANISTER ROCK	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
WH-SDST	WOODHEAD HILL ROCK	SANDSTONE
MLRS-SDST	MILNROW SANDSTONE	SANDSTONE

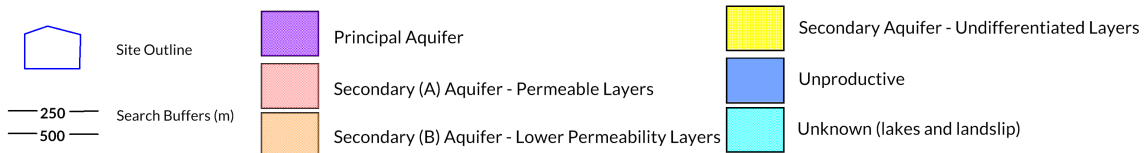
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

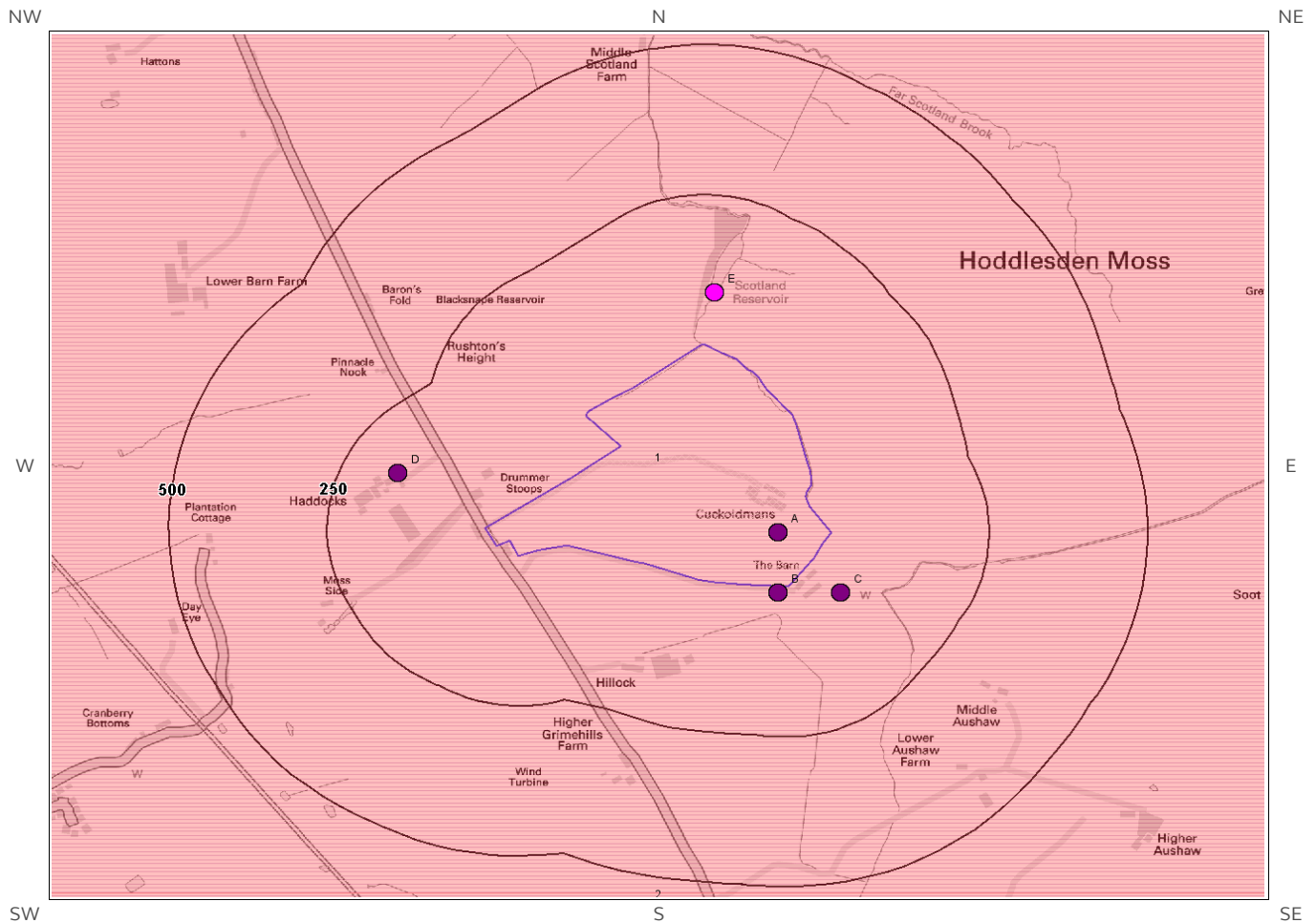
6a. Aquifer Within Superficial Geology



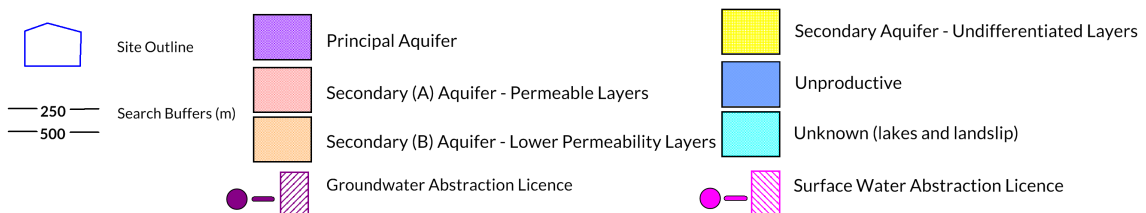
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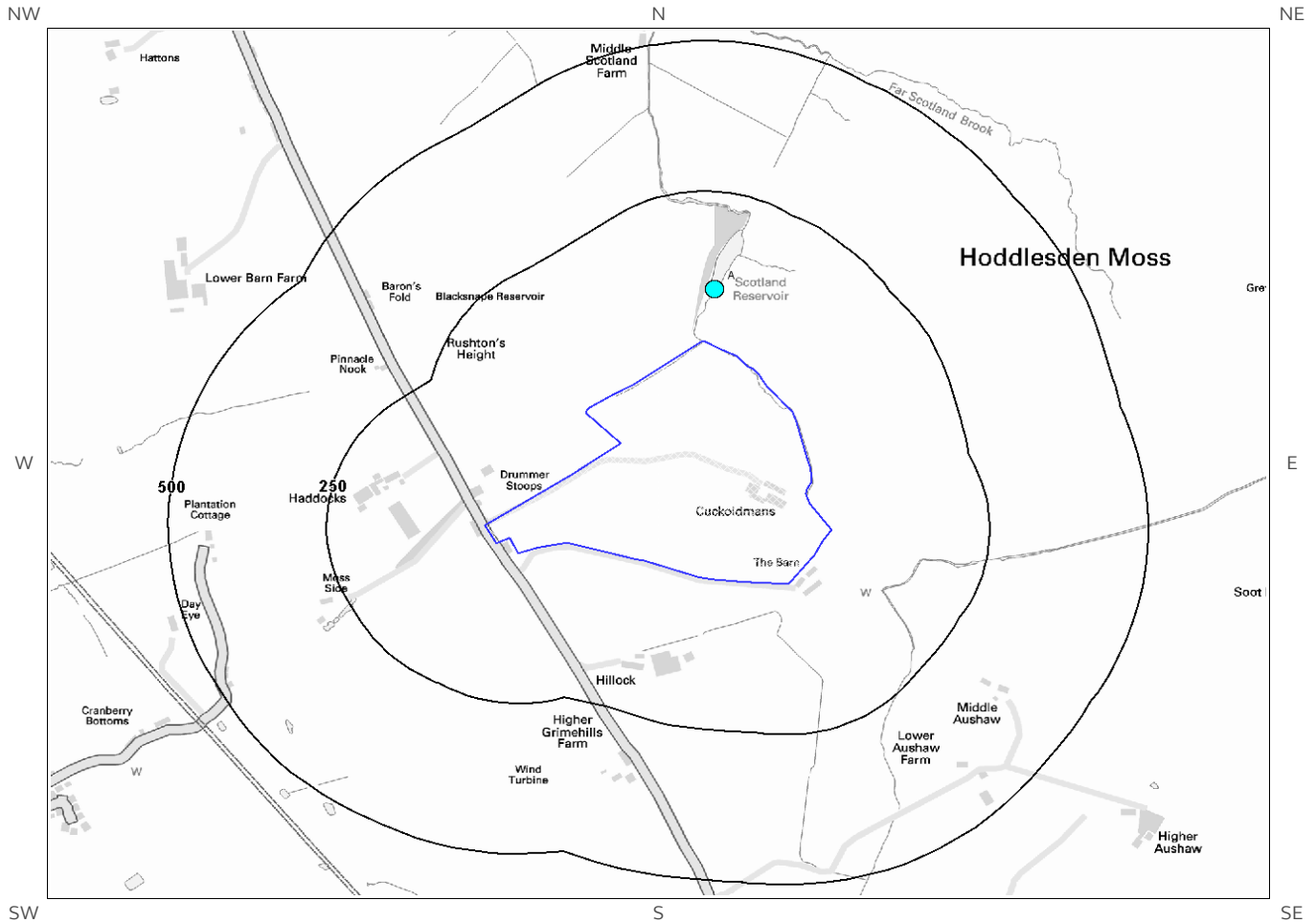
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



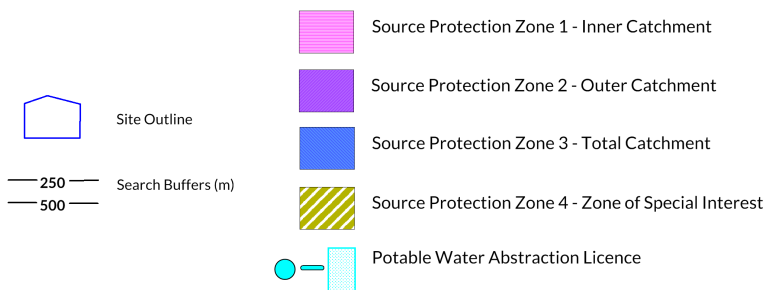
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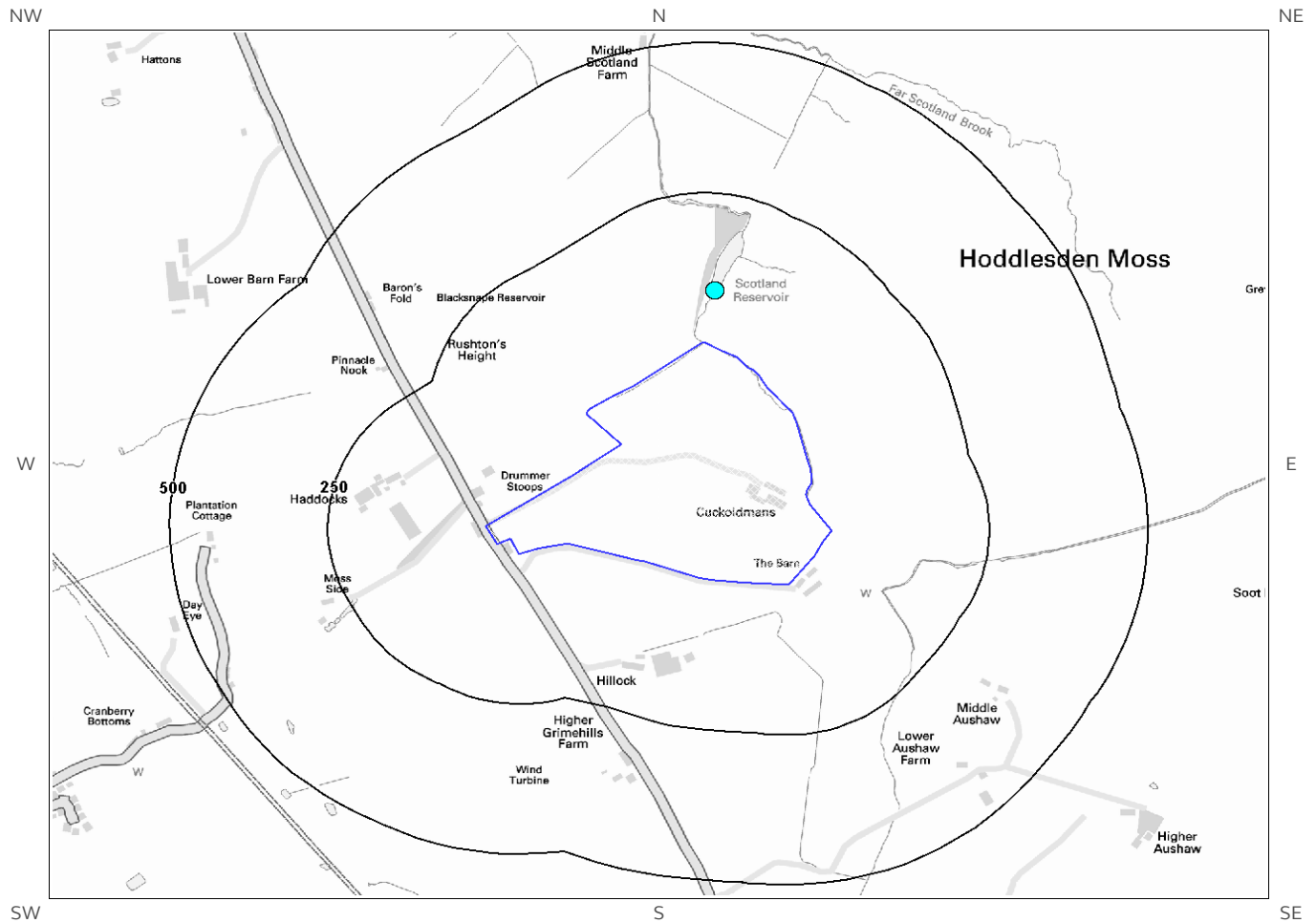
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



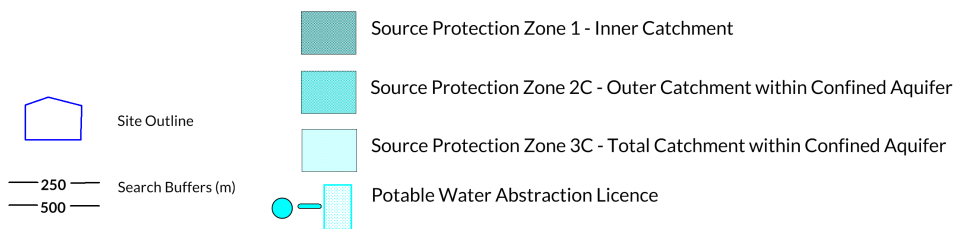
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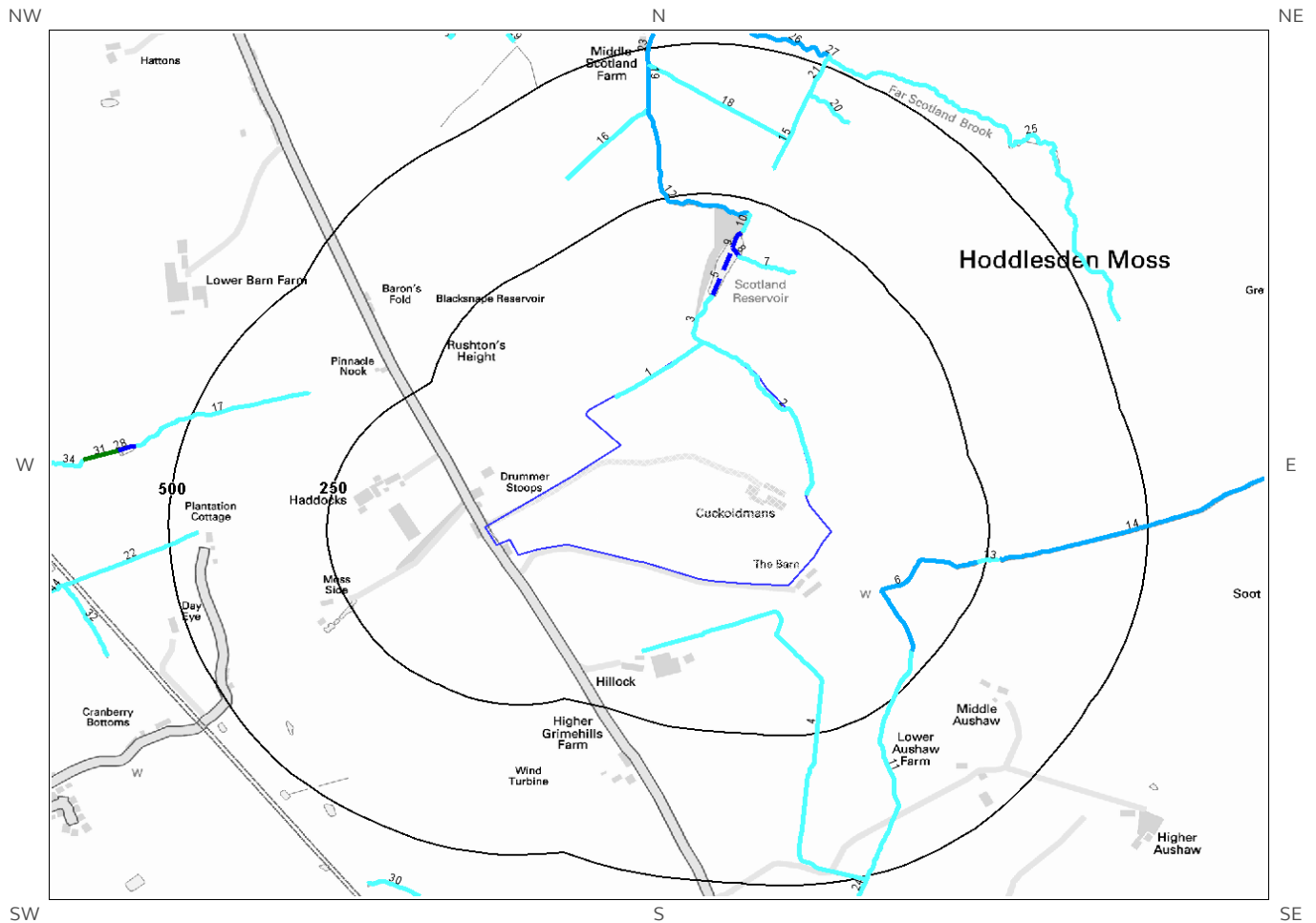
6d. Hydrogeology – Source Protection Zones within confined aquifer



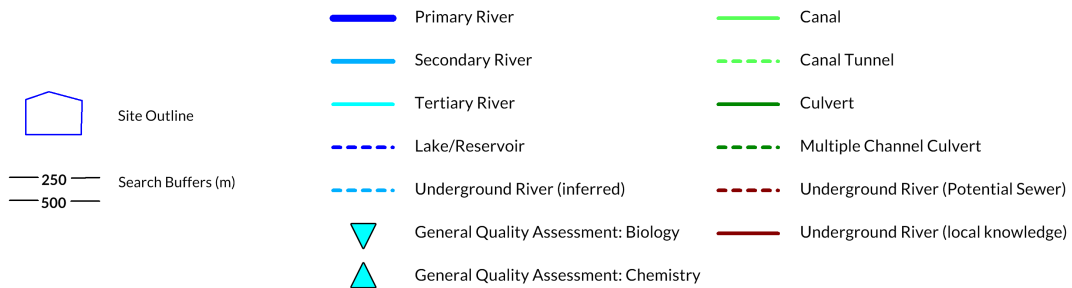
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6e. Hydrology – Detailed River Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency'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 Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
5	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	30	NE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	39	E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	156	E	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	218	E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
1	250	S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
13	369	NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	480	SW	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

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency'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

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Yes

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
3A	0	On Site	372100 420600	Status: Historical Licence No: 2671333007 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Well At Cuckoldmans Farm,blacksnape,darwen. Data Type: Point Name: HOLDEN Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 4299 Original Start Date: 18/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/2/1966 Version End Date:
4A	0	On Site	372100 420600	Status: Historical Licence No: 2671333007 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "well At Cuckoldmans Farm,blacksnape,darwen." Data Type: Point Name: HOLDEN Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 4299 Original Start Date: 18/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/2/1966 Version End Date:
5B	11	S	372100 420500	Status: Historical Licence No: 2569003028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Wells (2) At Far Hillocks Farm, Blacksnape Data Type: Point Name: BARKER Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1791 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:
6B	11	S	372100 420500	Status: Historical Licence No: 2569003028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "wells (2) At Far Hillocks Farm, Blacksnape" Data Type: Point Name: BARKER Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1791 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:
7C	70	SE	372200 420500	Status: Historical Licence No: 2569003028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Wells (2) At Far Hillocks Farm, Blacksnape \$113 Data Type: Point Name: BARKER Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1791 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:

ID	Distance (m)	Direction	NGR	Details
8C	70	SE	372200 420500	<p>Status: Historical Licence No: 2569003028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "wells (2) At Far Hillocks Farm, Blacksnape \$113" Data Type: Point Name: BARKER</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 1791 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:</p>
9C	70	SE	372200 420500	<p>Status: Historical Licence No: 2569003028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Wells (2) At Far Hillocks Farm, Blacksnape Data Type: Point Name: BARKER</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 1791 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:</p>
10D	166	NW	371500 420700	<p>Status: Historical Licence No: 2671340004 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Brick Lined Well At Haydocks Farm, Blacksnape,darwen Data Type: Point Name: MCGUINESS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 4593 Original Start Date: 18/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/2/1966 Version End Date:</p>
11D	166	NW	371500 420700	<p>Status: Historical Licence No: 2671340004 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "brick Lined Well At Haydocks Farm, Blacksnape,darwen" Data Type: Point Name: MCGUINESS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 4593 Original Start Date: 18/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/2/1966 Version End Date:</p>
12D	166	NW	371500 420700	<p>Status: Historical Licence No: 2671340004 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Brick Lined Well At Haydocks Farm, Blacksnape, Darwen Data Type: Point Name: MCGUINESS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 4593 Original Start Date: 18/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/2/1966 Version End Date:</p>
Not shown	1080	SW	371200 419600	<p>Status: Historical Licence No: 2671340041 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "borehole At Pleasant View Farm, Bull Hill,darwen." Data Type: Point Name: HARTLEY</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 5176 Original Start Date: 9/8/1982 Expiry Date: - Issue No: 100 Version Start Date: 9/8/1982 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1080	SW	371200 419600	Status: Historical Licence No: 2671340041 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Borehole At Pleasant View Farm, Bull Hill, Darwen. Data Type: Point Name: HARTLEY	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 5176 Original Start Date: 9/8/1982 Expiry Date: - Issue No: 100 Version Start Date: 9/8/1982 Version End Date:
Not shown	1080	SW	371200 419600	Status: Historical Licence No: 2671340041 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Borehole At Pleasant View Farm, Bull Hill, darwen. Data Type: Point Name: HARTLEY	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 5176 Original Start Date: 9/8/1982 Expiry Date: - Issue No: 100 Version Start Date: 9/8/1982 Version End Date:
Not shown	1567	SE	372800 419100	Status: Historical Licence No: 2569003036 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "tank Fed By Field Drains, At 4 Blackburn Road, Entwis" Data Type: Point Name: HORSEFIELD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 2096 Original Start Date: 11/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/2/1966 Version End Date:
Not shown	1567	SE	372800 419100	Status: Historical Licence No: 2569003036 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Tank Fed By Field Drains, At 4 Blackburn Road, Entwis Data Type: Point Name: HORSEFIELD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 2096 Original Start Date: 11/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/2/1966 Version End Date:
Not shown	1605	NE	373200 422000	Status: Historical Licence No: 2671340008 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Borehole At Greyshall Darwen Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 227.3 Original Application No: 3104 Original Start Date: 4/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/3/1966 Version End Date:
Not shown	1646	S	371700 418900	Status: Historical Licence No: 2569003029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "well At Rasbottom Farm, Entwistle (also Known As Romwells " Data Type: Point Name: ALLEN	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1998 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1646	S	371700 418900	Status: Historical Licence No: 2569003029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Well At Rasbottom Farm, Entwistle (also Known As Romwells) Data Type: Point Name: ALLEN Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1998 Original Start Date: 28/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/1/1966 Version End Date:
Not shown	1941	SE	373200 418900	Status: Historical Licence No: 2569003006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "spring At Wayoh Farm, Entwistle" Data Type: Point Name: WIDDUP Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1618 Original Start Date: 24/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/1/1966 Version End Date:
Not shown	1941	SE	373200 418900	Status: Historical Licence No: 2569003006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Spring At Wayoh Farm, Entwistle Data Type: Point Name: WIDDUP Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1618 Original Start Date: 24/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/1/1966 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? Yes

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
23E	86	N	372000 421000	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen. Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
24E	86	N	372000 421000	Status: Historical Licence No: 2671340005 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen. Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
25E	86	N	372000 421000	Status: Historical Licence No: 2671340005 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen. Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
26E	86	N	372000 421000	Status: Active Licence No: 2671340005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD	Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:
27E	86	N	372000 421000	Status: Active Licence No: 2671340005 Details: Process Water Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD	Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:
28E	86	N	372000 421000	Status: Active Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD	Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar\$356 Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar\$356 Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar\$356 Data Type: Point Name: VERNON CAROS LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/10/1966 Version End Date:
Not shown	1587	N	371900 422500	Status: Active Licence No: 2671340005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD	Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:
Not shown	1587	N	371900 422500	Status: Active Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD	Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1587	N	371900 422500	Status: Active Licence No: 2671340005 Details: Process Water Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 7/11/2008 Version End Date:
Not shown	1599	N	372200 422500	Status: Historical Licence No: 2671340006 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Pickup Bank Brk At Darwen, Lancs Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): 136363 Max Daily Volume (m ³): 909.2 Application No: 3103 Original Start Date: 4/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/3/1966 Version End Date:
Not shown	1599	N	372200 422500	Status: Historical Licence No: 2671340006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "surface, Non-tidal - North West Region" Point: "pickup Bank Brk At Darwen, Lancs" Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Application No: 3103 Original Start Date: 4/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/3/1966 Version End Date:

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? Yes

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
1A	86	N	372000 421000	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen. Data Type: Point Name: VERNON CARUS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
2A	86	N	372000 421000	Status: Active Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1587	N	371900 422500	Status: Historical Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Dar\$356 Data Type: Point Name: VERNON CAROS LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 4244 Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1587	N	371900 422500	Status: Active Licence No: 2671340005 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-tidal - North West Region Point: Springs Known As Target Springs On Hoddlesden Moss Darwen Data Type: Point Name: VERNON CARUS LTD Annual Volume (m ³): 54552 Max Daily Volume (m ³): 163.65 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

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

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
143	NW	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.

6.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? No

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

ID	Distance (m)	Direction	Details
1	0	On Site	River Name: Drain Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined
2	0	On Site	River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
3	2	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
4	44	S	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
5	82	N	River Name: Scotland Reservoir Welsh River Name: - Alternative Name: -	River Type: Lake/Reservoir Main River Status: Currently Undefined
6	121	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
7	154	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
8	155	N	River Name: Scotland Reservoir Welsh River Name: - Alternative Name: -	River Type: Lake/Reservoir Main River Status: Currently Undefined
9	165	N	River Name: Scotland Reservoir Welsh River Name: - Alternative Name: -	River Type: Lake/Reservoir Main River Status: Currently Undefined
10	195	N	River Name: Hoddlesden Moss Brook Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
11	219	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
12	221	N	River Name: Hoddlesden Moss Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
13	236	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
14	269	E	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
15	311	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
16	347	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
17	358	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
18	364	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
19	400	N	River Name: Hoddlesden Moss Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
20	430	NE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
21	447	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
22	453	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
23	474	N	River Name: Hoddlesden Moss Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

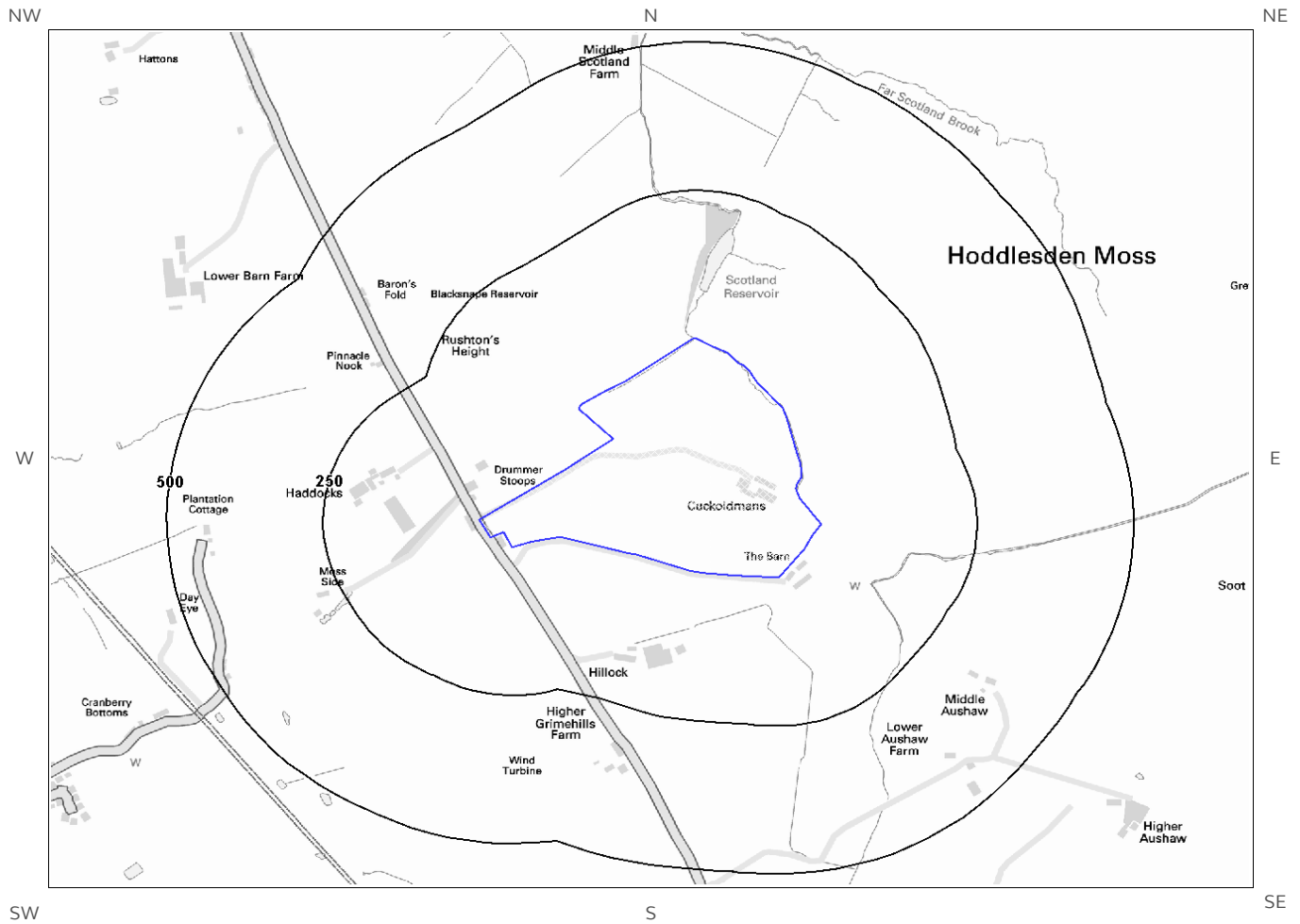
6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

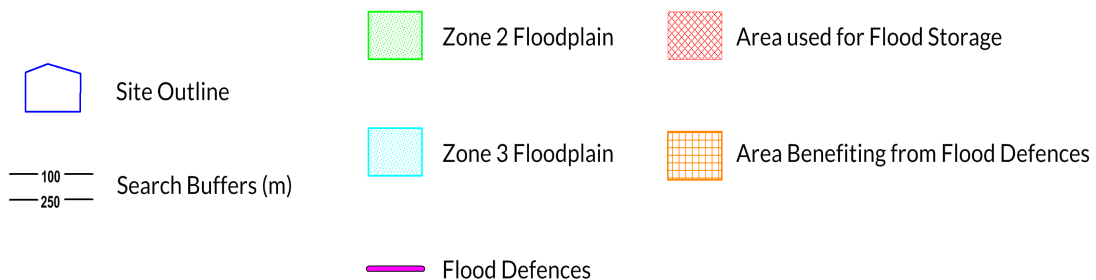
The following surface water records are not represented on mapping:

Distance (m)	Direction
0	On Site
0	On Site
2	N
44	S
65	S
81	N
95	S
120	SE
120	SE
154	NE
195	N
219	SE
219	N
236	SW
236	E

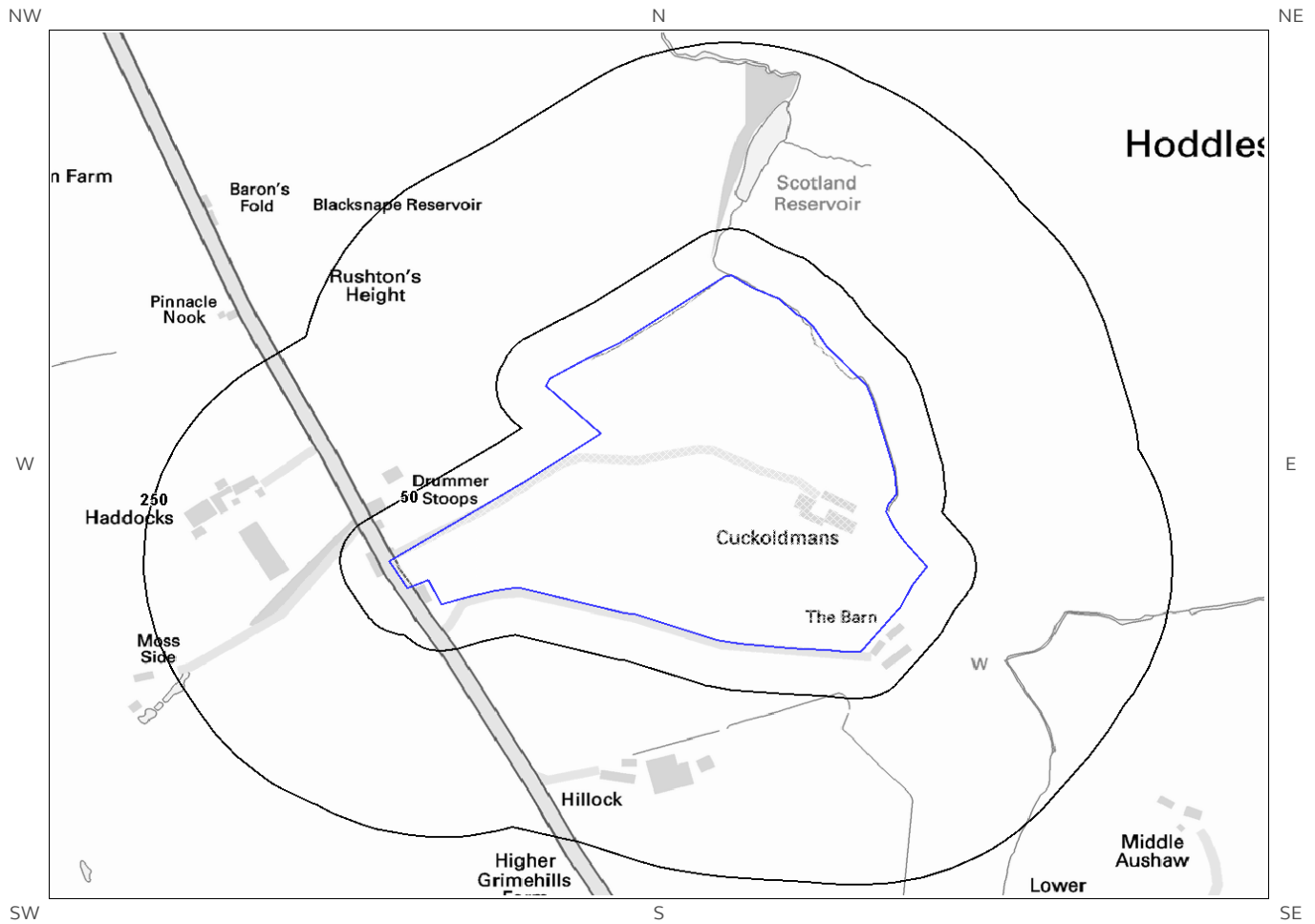
7a. Environment Agency Flood Map for Planning (from rivers and the sea)



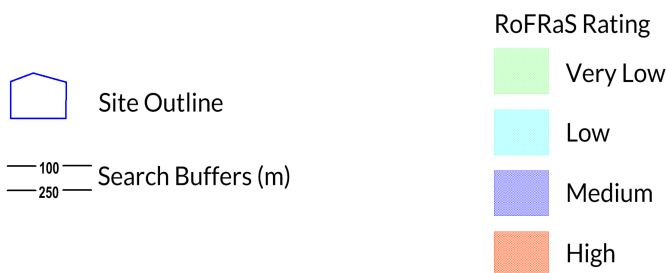
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7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? No

Environment Agency 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

Is the site within 250m of an Environment Agency Zone 3 floodplain? No

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

What is the highest risk of flooding onsite? Very Low

The Environment Agency 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

Are there any Flood Defences within 250m of the study site? No
Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to 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 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential below Surface

Where potential for groundwater flooding of property situated below ground level is indicated, this means that given the geological conditions there may be a groundwater flooding hazard to basements and other below surface infrastructure. 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. If there are records of previous incidences of groundwater flooding, then is recommended that other information e.g. rainfall history, property type, and land drainage information in addition to previous records of flooding be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

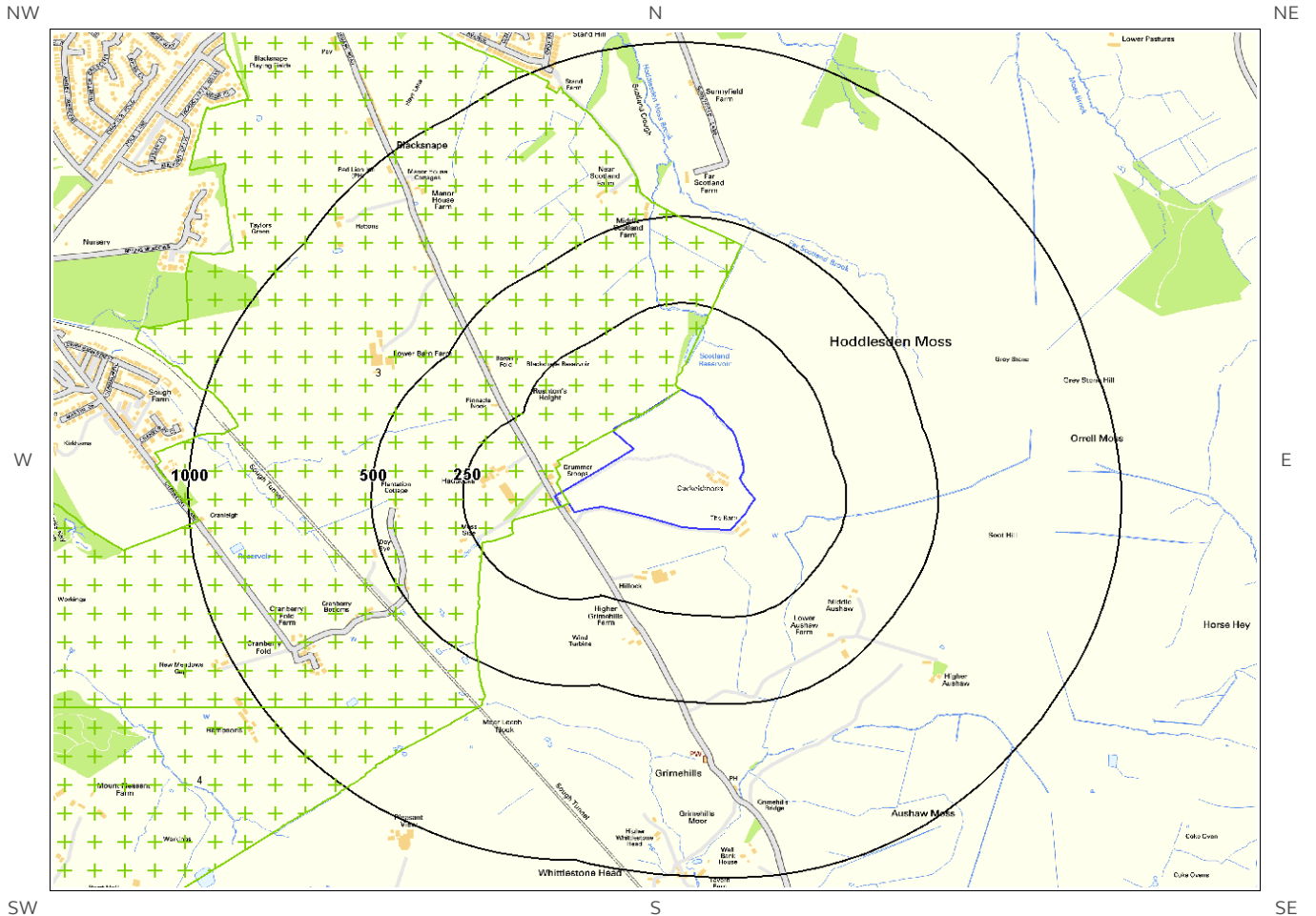
What is the British Geological Survey confidence rating in this result?

Low

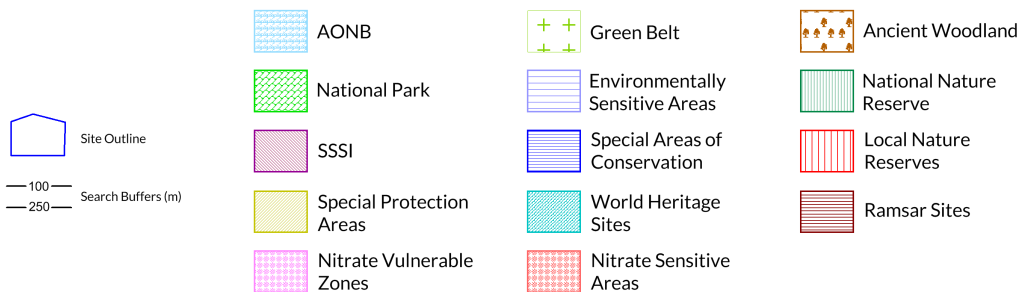
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

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:

2

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
Not shown	1729	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1792	SE	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:

5

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

ID	Distance	Direction	Green Belt Name	Local Authority Name
3	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Blackburn with Darwen
4	621	SW	Liverpool, Manchester and West Yorks Greenbelt	Blackburn with Darwen
Not shown	1527	S	Liverpool, Manchester and West Yorks Greenbelt	Blackburn with Darwen
Not shown	1690	W	Liverpool, Manchester and West Yorks Greenbelt	Blackburn with Darwen
Not shown	1747	W	Liverpool, Manchester and West Yorks Greenbelt	Blackburn with Darwen

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

What is the 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

What is the maximum Landslide* hazard rating identified on the study site? Moderate

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

Hazard
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

9.1.3 Soluble Rocks

What is the 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.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? High

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

Hazard

Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

What is the 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

What is the maximum Running Sand** 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

Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. 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.

9.2 Radon

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 property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

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

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?

No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? Yes

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

Are there any Non-Coal Mining areas within 50m of the study site boundary? No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:

Web:www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency

National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 08708 506 506

Web:www.environment-agency.gov.uk

Email: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

Email:enquiries@phe.gov.uk
Main switchboard: 020 7654 8000

The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority

Authority: Blackburn with Darwen Borough Council
Phone: 01254 585 585

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

Address: King William Street, Town Hall, Blackburn, Lancashire, BB1

Gemapping PLC

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Public Health
England



The Coal
Authority



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