

Address: LOWFIELD FARM, LOWFIELD FARM CLOSE, BOLTON UPON DEARNE, BARNSELY,
Date: 20 Apr 2018
Reference: GS-4907011
Client: Castledine & Co



Aerial Photograph Capture date: 07-Jun-2013
Grid Reference: 446094,402622
Site Size: 0.52ha

Report Reference: GS-4907011
Client Reference: White_Rotherham

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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	2	68
1.2 Additional Information – Historical Tank Database	0	0	0	53
1.3 Additional Information – Historical Energy Features Database	0	0	0	7
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	0	0	20

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	2	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	3	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/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	1	0	6
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/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	4	2
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	1	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	3	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	2	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	4	5	7

Section 4: Current Land Use

	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	1	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?	None identified
5.2 Are there any 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

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Identified					
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Identified					
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	3	2	1
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
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)	2	0	1	0	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 Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	Yes	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	24	48	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	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?	Identified					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site?	Identified					
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Low					
7.4 Are there any Flood Defences within 250m of the study site?	None identified					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	None identified					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	Identified					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Limited potential					
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	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	1	0	0	0	0	1
8.14 Records of Green Belt land	1	0	0	1	1	2

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?

Very Low

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?

Very Low

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?

Negligible

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?

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 1 and 3% 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?

Identified

10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?

None identified

10.3 Are there any 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 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.

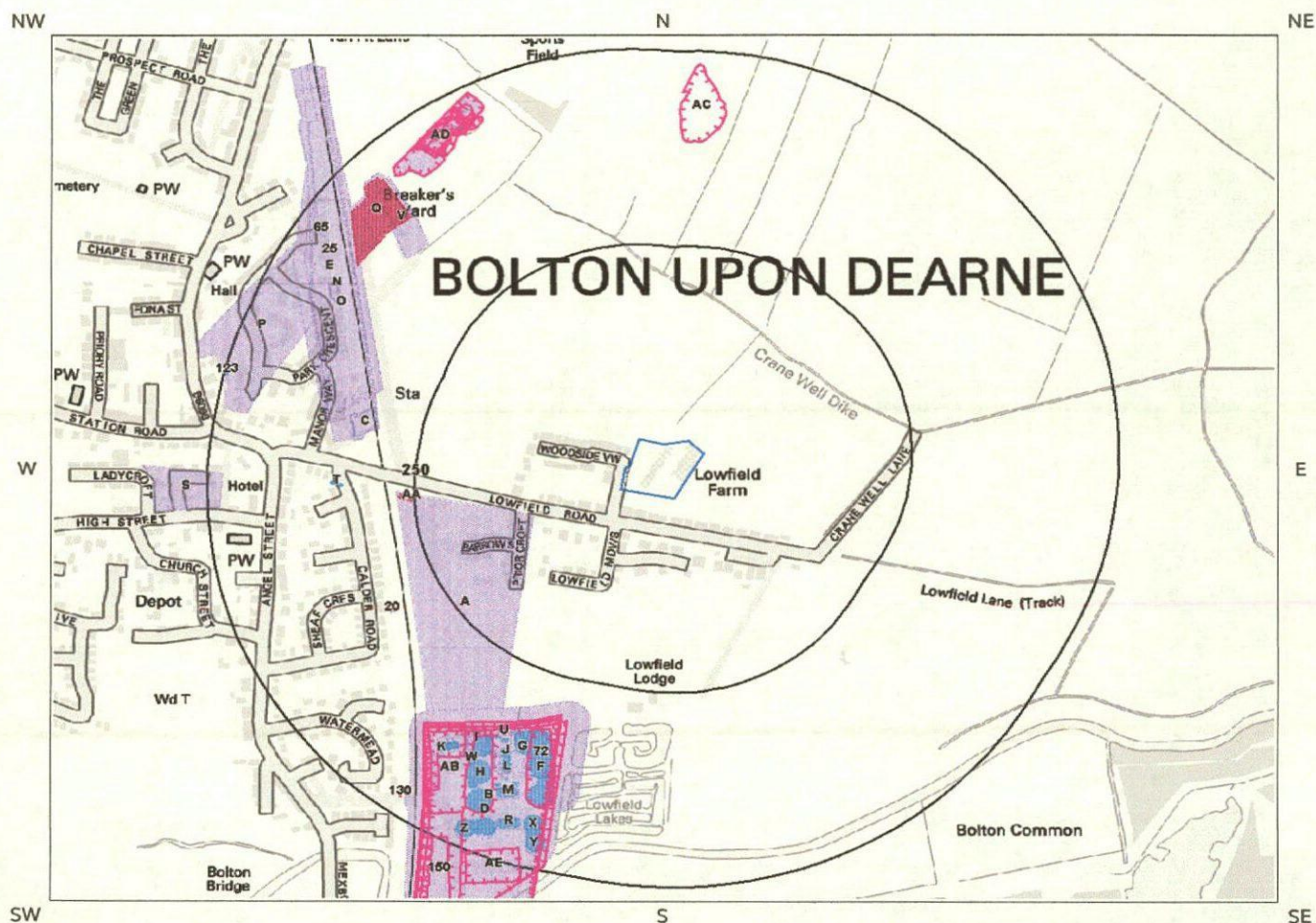
Note: Maps

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).

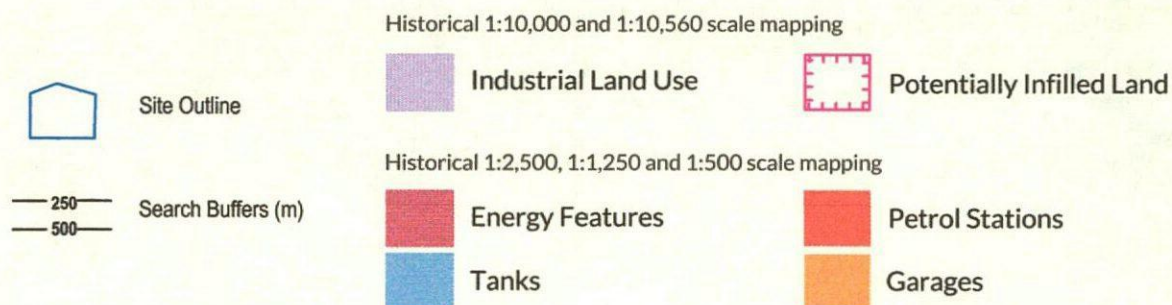
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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: 70

ID	Distance [m]	Direction	Use	Date
1A	111	W	Unspecified Factory	1974
2A	111	W	Unspecified Factory	1986
3B	279	S	Unspecified Works	1966
4B	298	S	Sewage Works	1951
5C	301	W	Railway Station	1938
6C	302	W	Railway Station	1951
7C	302	W	Railway Station	1966
8C	302	W	Railway Station	1986
9C	302	W	Railway Station	1974
10C	302	W	Railway Station	1948
11D	303	S	Sewage Works	1938
12C	304	W	Railway Station	1901
13D	304	S	Sewage Works	1948
14D	304	S	Sewage Works	1948
15D	305	S	Sewage Works	1974
16D	305	S	Sewage Works	1986
17N	309	W	Railway Sidings	1938
18O	310	W	Railway Sidings	1966
19E	312	W	Railway Sidings	1901
20	313	SW	Railway Building	1948
21E	315	W	Railway Sidings	1951
22G	320	S	Unspecified Tanks	1951
23F	320	S	Unspecified Tanks	1986
24F	320	S	Filter Beds	1974
25	322	W	Railway Sidings	1948
26G	323	S	Unspecified Tanks	1966
27G	325	S	Unspecified Tank	1938
28G	326	S	Unspecified Tanks	1948
29G	335	S	Unspecified Tanks	1938
30H	352	SW	Filter Beds	1974
31H	352	SW	Unspecified Tanks	1986
32F	353	S	Unspecified Tank	1938
33I	354	SW	Unspecified Tank	1951
34K	356	SW	Sewage Works	1901

35I	357	SW	Unspecified Tank	1938
36V	358	NW	Unspecified Yard	1986
37J	361	S	Unspecified Tanks	1986
38J	361	S	Unspecified Tank	1974
39J	362	SW	Unspecified Tanks	1938
40K	375	SW	Unspecified Tanks	1951
41K	379	SW	Unspecified Tanks	1966
42L	379	S	Unspecified Tanks	1986
43L	379	S	Unspecified Tank	1974
44L	380	S	Unspecified Tanks	1938
45K	380	SW	Unspecified Tanks	1938
46K	385	SW	Unspecified Tanks	1986
47Q	401	NW	Gas Works	1901
48M	402	S	Unspecified Tanks	1974
49M	402	S	Unspecified Tanks	1986
50N	403	NW	Goods Shed	1938
51O	404	NW	Goods Shed	1948
52N	406	NW	Railway Building	1901
53N	407	NW	Railway Building	1966
54N	407	NW	Goods Shed	1951
55P	422	W	Unspecified Mill	1974
56P	422	W	Timber Yard	1986
57P	422	W	Unspecified Mill	1966
58Q	423	NW	Gasometer	1901
59AD	426	NW	Old Clay Pit	1901
60X	436	S	Unspecified Tank	1986
61R	439	S	Unspecified Tanks	1986
62R	439	S	Unspecified Tanks	1974
63D	458	S	Unspecified Tank	1986
64Y	461	S	Unspecified Tank	1986
65	464	NW	Railway Building	1948
66Z	469	SW	Unspecified Tank	1986
67AE	478	S	Sludge Beds	1974
68S	481	W	Unspecified Depot	1986
69S	481	W	Unspecified Depot	1974
70S	481	W	Unspecified Depot	1966

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:

53

ID	Distance (m)	Direction	Use	Date
71G	324	S	Tanks	1961
72	324	S	Tanks	1962
73F	324	S	Tanks	1995
74G	334	S	Tanks	1962
75T	337	W	Tanks	1961
76T	337	W	Tanks	1962
77U	341	SW	Tanks	1982
78U	341	SW	Tanks	1979
79U	348	SW	Tanks	1982
80U	348	SW	Tanks	1979
81U	349	SW	Tanks	1930
82I	356	SW	Unspecified Tank	1962
83I	356	SW	Unspecified Tank	1961
84I	357	SW	Unspecified Tank	1995
85J	360	S	Unspecified Tank	1979
86J	360	S	Unspecified Tank	1982
87L	360	S	Tanks	1962
88L	379	S	Unspecified Tank	1979
89L	379	S	Unspecified Tank	1982
90K	381	SW	Tanks	1961
91K	381	SW	Tanks	1962
92K	381	SW	Tanks	1982
93K	381	SW	Tanks	1979
94K	384	SW	Tanks	1930
95H	386	SW	Unspecified Tank	1995
96W	387	SW	Tanks	1930
97L	396	S	Tanks	1982
98L	396	S	Tanks	1979
99M	396	S	Tanks	1979
100M	396	S	Tanks	1982
101V	397	NW	Gas Works	1891
102Q	397	NW	Gas Works	1903
103K	402	SW	Unspecified Tank	1982
104K	402	SW	Unspecified Tank	1979
105H	404	S	Tanks	1979
106H	404	S	Tanks	1982
107B	405	S	Tanks	1979
108B	405	S	Tanks	1982
109H	413	SW	Tanks	1930
110W	415	SW	Unspecified Tank	1979
111AB	415	SW	Unspecified Tank	1982

112B	420	SW	Unspecified Tank	1995
113Q	420	NW	Gasometer	1891
114Q	420	NW	Gasometer	1903
115X	431	S	Unspecified Tank	1982
116Y	432	S	Tanks	1995
117R	441	S	Tanks	1979
118R	441	S	Tanks	1982
119Z	452	S	Unspecified Tank	1982
120Z	453	S	Tanks	1995
121Y	456	S	Unspecified Tank	1982
122Z	463	SW	Unspecified Tank	1982
123	495	W	Tanks	1974

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:

7

ID	Distance (m)	Direction	Use	Date
124AA	252	W	Electricity Substation	1994
125AA	261	W	Electricity Substation	1974
126Q	397	NW	Gas Works	1891
127Q	397	NW	Gas Works	1903
128Q	420	NW	Gasometer	1891
129Q	420	NW	Gasometer	1903
130	470	SW	Electricity Substation	1995

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.

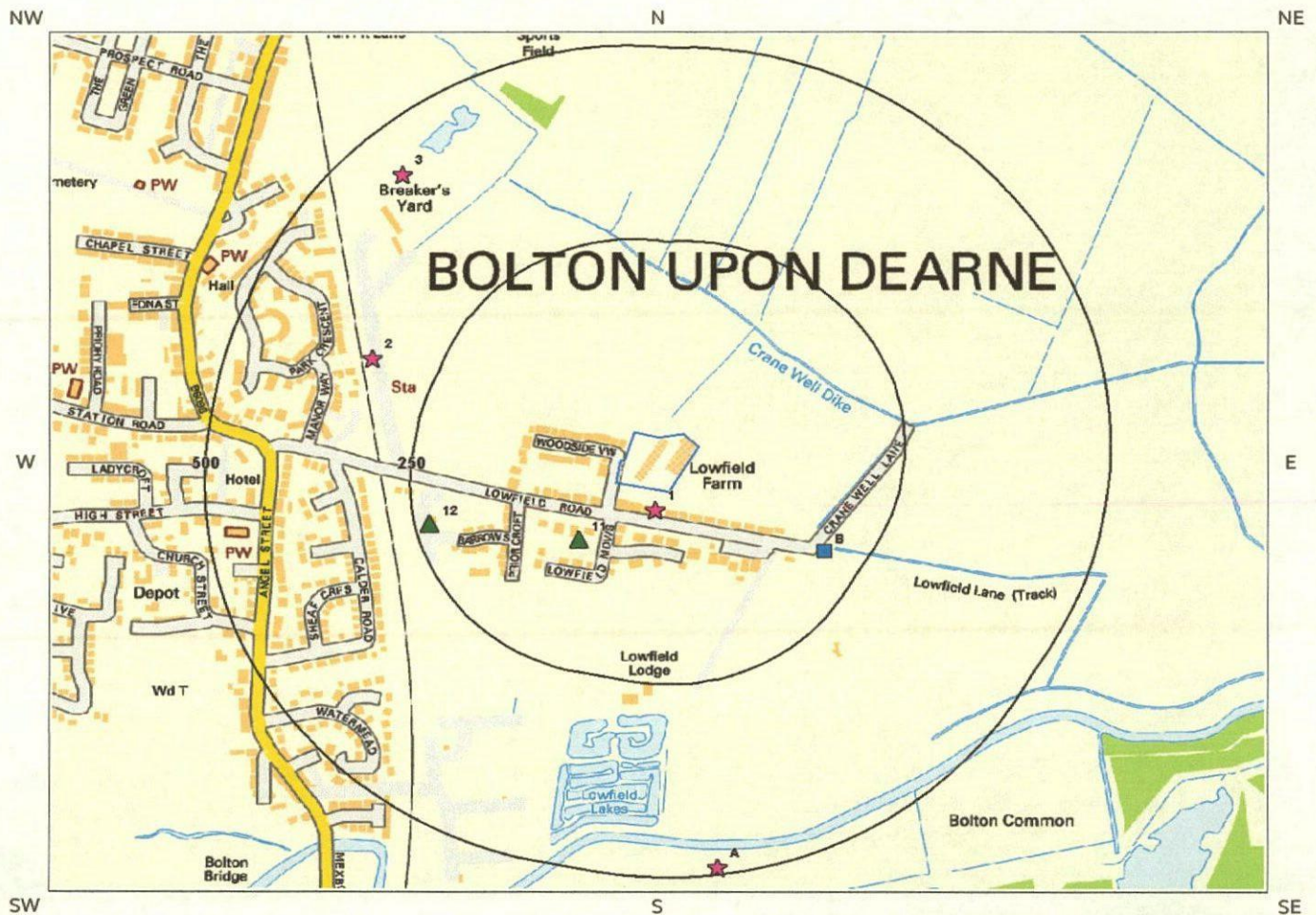
1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 20

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

ID	Distance(m)	Direction	Use	Date
131B	298	S	Sewage Works	1951
132Z	303	S	Sewage Works	1938
133B	304	S	Sewage Works	1948
134B	304	S	Sewage Works	1948
135B	305	S	Sewage Works	1986
136B	305	S	Sewage Works	1974
137F	320	S	Filter Beds	1974
138AB	352	SW	Filter Beds	1974
139K	356	SW	Sewage Works	1901
140AC	384	N	Pond	1986
141AC	384	N	Pond	1974
142AD	426	NW	Old Clay Pit	1901
143AD	432	NW	Pond	1986
144AD	432	NW	Pond	1974
145AD	437	NW	Pond	1948
146AD	439	NW	Pond	1938
147AD	443	NW	Pond	1951
148AD	443	NW	Pond	1966
149AE	478	S	Sludge Beds	1974
150	494	SW	Pond	1974

2. Environmental Permits, Incidents and Registers Map



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- | | | | | | |
|--|--------------|--|-------------------------------|--|--|
| | Site Outline | | Recorded Pollution Incident | | RAS 3 & 4 Authorisations |
| | 250 | | Dangerous Substances (List 1) | | Part A(1) Authorised Processes and Historic IPC Authorisations |
| | 500 | | Dangerous Substances (List 2) | | Part A(2) and Part B Authorised Processes |
| | | | Water Industry Referrals | | COMAH / NIHHS Sites |
| | | | Licenced Discharge Consents | | Sites Determined as Contaminated Land |
| | | | Red List Discharge Consents | | 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:

2

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
11	88	SW	446002 402513	Address: Addspace Furniture Limited, Lowfield Road, Bolton On Dearne, Rotherham, S63 8JE Process: Timber process Status: Historical Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	233	W	445820 402534	Address: Coltran Ltd, Lowfield Rd, Bolton Upon Dearne, Rotherham, S63 8JT Process: timber process Status: Historical Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

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:

3

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

ID	Distance (m)	Direction	NGR	Details
8B	201	SE	446300 402500	Address: SSO AT LOWFIELD ROAD PUMPING STATIO, N, BOLTON ON DEARNE (EMERGENCY O, VERFLOW) Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 3599 Permit Version: 3 Receiving Water: TRIB OF CRANE WELL DIKE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2003 Effective Date: 31-Mar-2003 Revocation Date: -
9B	201	SE	446300 402500	Address: SSO AT LOWFIELD ROAD PUMPING STATIO, N, BOLTON ON DEARNE (EMERGENCY O, VERFLOW) Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 3599 Permit Version: 2 Receiving Water: TRIB OF CRANE WELL DIKE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 05/12/2002 Effective Date: 05-Dec-2002 Revocation Date: 30/03/2003

ID	Distance (m)	Direction	NGR	Details	
10B	201	SE	446300 402500	Address: SSO AT LOWFIELD ROAD PUMPING STATIO, N, BOLTON ON DEARNE (EMERGENCY O, VERFLOW) Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 3599 Permit Version: 1	Receiving Water: TRIB OF CRANE WELL DIKE Status: TRANSFERRED FROM R(PP)A 1951- 1961 Issue date: 25/01/1982 Effective Date: 25-Jan-1982 Revocation Date: 04/12/2002

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:

7

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	27	S	446094 402553	Incident Date: 30-Aug-2002 Incident Identification: 104291 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

ID	Distance (m)	Direction	NGR	Details	
2	331	NW	445750 402750	Incident Date: 23-May-2003 Incident Identification: 160367 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	438	NW	445787 402988	Incident Date: 12-Dec-2003 Incident Identification: 206454 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
4A	490	S	446170 402090	Incident Date: 04-Oct-2004 Incident Identification: 270161 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
5A	490	S	446170 402090	Incident Date: 04-Oct-2004 Incident Identification: 270161 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
6A	490	S	446170 402090	Incident Date: 04-Oct-2004 Incident Identification: 270161 Pollutant: General Biodegradable Materials and Wastes: Specific Waste Materials Pollutant Description: Other General Biodegradable Material or Waste: Asbestos	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
7A	490	S	446170 402090	Incident Date: 10-Apr-2004 Incident Identification: 270161 Pollutant: General Biodegradable Materials and Wastes : Specific Waste Materials Pollutant Description: Other General Biodegradable Material or Waste : Asbestos	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) 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.

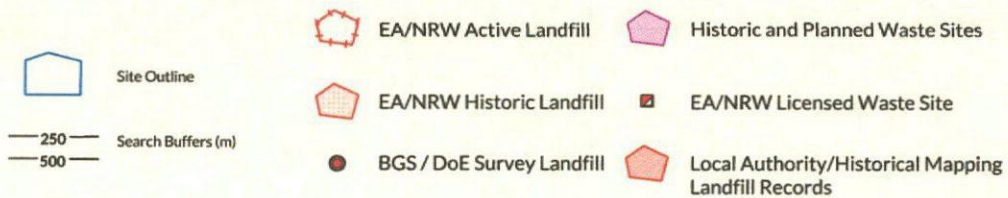
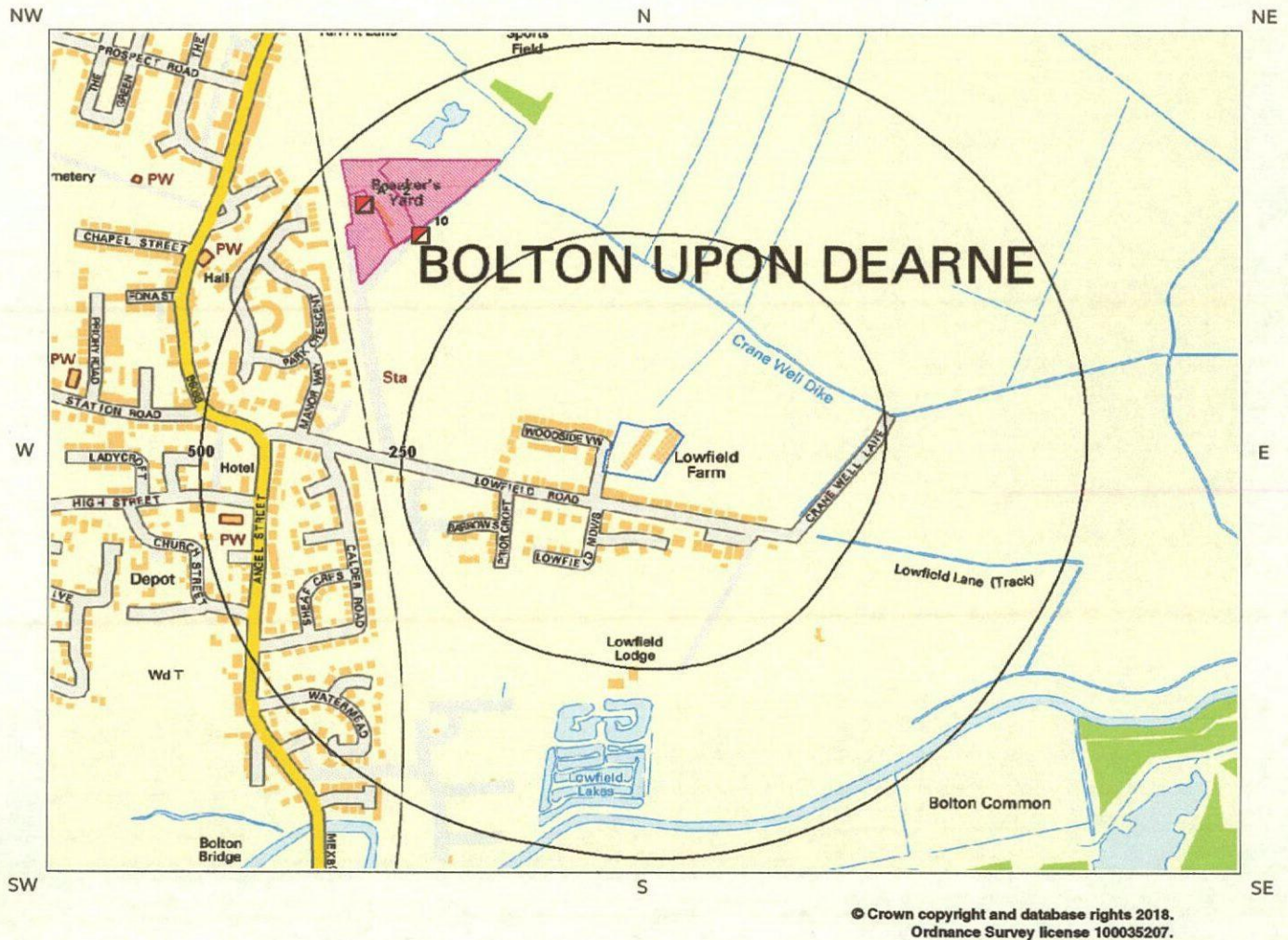
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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



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:

6

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	619	N	446300 403400	Site Address: Marsh Tip, Goldthorpe, Rotherham, South Yorkshire Waste Licence: Yes Site Reference: 4400/B3, 2B3(5), WD2 B3 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03-Nov-1976 Licence Surrendered: 31-Dec-1979 Licence Holder Address: - Operator: Deane Urban District Council Licence Holder: South Yorkshire County Council First Recorded: 31-Dec-1970 Last Recorded: 31-Dec-1979
Not shown	693	S	446400 401900	Site Address: Barnburgh Tip, Common Lane, Mexborough, Adwick Upon Dearne, Doncaster Waste Licence: Yes Site Reference: WD20/D1189, 4400/D1189, NE4065 Waste Type: Special Environmental Permitting Regulations (Waste) Reference: YQ1/L/AOG001 Licence Issue: 15-Oct-1999 Licence Surrendered: 24-May-2004 Licence Holder Address: Boston Hall, Boston Spa, Yorkshire Operator: - Licence Holder: A Ogden and Sons Limited First Recorded: - Last Recorded: -
Not shown	726	W	445200 402600	Site Address: Station Road, Bolton on Dearne, Rotherham Waste Licence: Yes Site Reference: WD20 B191, 4400/B191, 20B191(17) Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13-Mar-1979 Licence Surrendered: 12-Apr-1985 Licence Holder Address: Station Road, Bolton on Dearne, Rotherham, South Yorkshire Operator: Wath Skip Hire Limited Licence Holder: Wath Skip Hire Limited First Recorded: 31-Mar-1979 Last Recorded: 12-Apr-1985

ID	Distance (m)	Direction	NGR	Details	
Not shown	987	SW	445400 401700	Site Address: Wath Manvers Former Coal Preparation Site, Off Bolton Road, Wath Upon Dearne, Rotherham, South Yorkshire Waste Licence: Yes Site Reference: WD20/R1099, 4400/R1099, NE2175 Waste Type: Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: YQ1/L/ROT003	Licence Issue: 03-Aug-1994 Licence Surrendered: 12-Oct-2005 Licence Holder Address: Norfolk House, Walker Place, Rotherham, South Yorkshire Operator: Rotherham Metropolitan Borough Council Licence Holder: Rotherham Metropolitan Borough Council First Recorded: - Last Recorded: -
Not shown	1298	E	447400 402400	Site Address: Don Bait Company Limited, West Moot Lane, Harlington, Doncaster Waste Licence: Yes Site Reference: WD20 B157, 4400/B157 Waste Type: Industrial, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Jul-1977 Licence Surrendered: 01-Nov-1994 Licence Holder Address: Adwick Road, Mexborough Operator: Don Bait Company Limited Licence Holder: Don Bait Company Limited First Recorded: 31-Jul-1977 Last Recorded: 01-Nov-1994
Not shown	1456	S	445500 401000	Site Address: Land adjacent to Bolton Road, Managed workshops, Bolton Road, Wath upon Dearne Waste Licence: Yes Site Reference: WD2 R18, 4400/R18, WD2R18 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 04-Jul-1991 Licence Surrendered: - Licence Holder Address: - Operator: Director of Engineering, Rotherham Metropolitan Borough Council Licence Holder: Rotherham Metropolitan Borough Council First Recorded: - Last Recorded: -

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

1

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

ID	Distance (m)	Direction	NGR	Details	
Not shown	866	N	446300.0 403500.0	Address: Marsh Tip, Goldthorpe, Rotherham, S Yorks BGS Number: 1547.0	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:

3

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	781	SE	446330 401789	Refuse Tip	1997 mapping	Polygon
Not shown	853	N	446244 403510	Refuse Tip	1976 mapping	Polygon

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
Not shown	885	N	446436 403532	Refuse Tip	1976 mapping	Polygon

3.2 Other Waste Sites

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

2

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		
2	356	NW	445820 402918	Type of Site: Breaker's Yard Site Address: N/A	Planning Application Reference: N/A Date: 1994	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
3	358	NW	445768 402942	Type of Site: Breaker's Yard Site Address: N/A	Planning Application Reference: N/A Date: 1974	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

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

16

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

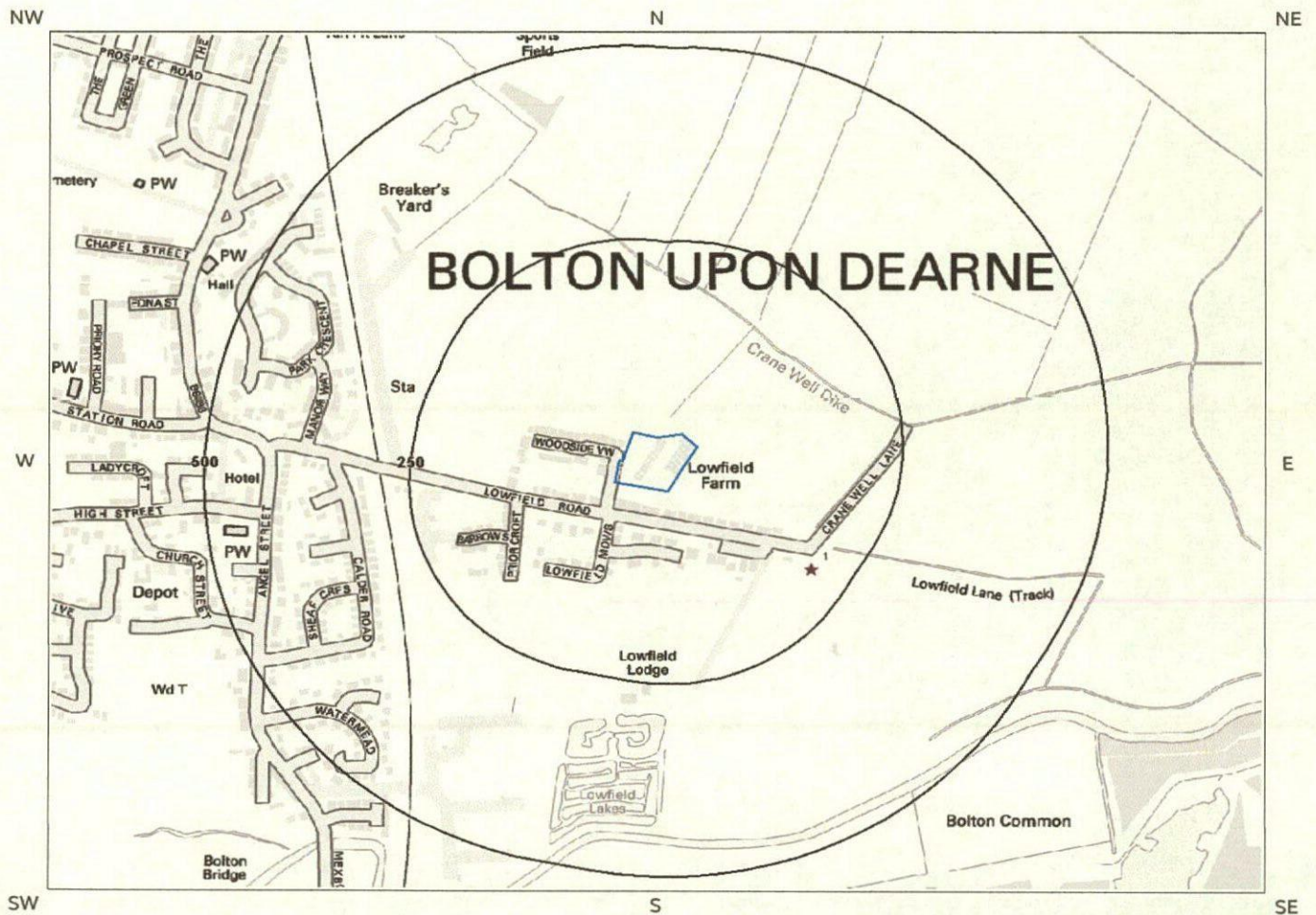
ID	Distance (m)	Direction	NGR	Details	
10	350	NW	445820 402900	Site Address: Lowfield Road, Side Of Railway Station, Bolton On Dearne, South Yorkshire Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRI001 EPR reference: EA/EPR/JP3190ZS/S002 Operator: Wright Sid Waste Management licence No: 60612 Annual Tonnage: 5000.0	Issue Date: 09/09/1993 Effective Date: - Modified: - Surrendered Date: 01/11/2000 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Bolton Car Spares Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
11A	429	NW	445750 402940	Site Address: Lowfield Road, Bolton-on-dearner, Rotherham, South Yorkshire, S63 8JD Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PIL010 EPR reference: EA/EPR/GP3194SP/T001 Operator: Lowfield Road Dismantlers Ltd Waste Management licence No: 60544 Annual Tonnage: 5000.0 Issue Date: 09/06/1993 Effective Date: 07/06/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Lowfield Road Dismantlers Correspondence Address: -
12A	429	NW	445750 402940	Site Address: Lowfield Road, Bolton On Dearner, Barnsley, S Yorks Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LEA001 EPR reference: - Operator: Leach Mr Waste Management licence No: 60544 Annual Tonnage: 0.0 Issue Date: 09/06/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Leach Bros Correspondence Address: 71, Calder Road, Bolton On Dearner, Barnsley, S Yorks, S63 8JH
13A	429	NW	445750 402940	Site Address: Leach Bros, Lowfield Road, Bolton-on-dearner, Rotherham, South Yorkshire, S63 8JD Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DES002 EPR reference: AP3291EP/T001 Operator: Desbro Paul Waste Management licence No: 60544 Annual Tonnage: 5000.0 Issue Date: 09/06/1993 Effective Date: 29/04/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Leach Bros Correspondence Address: -
Not shown	755	W	445300 402700	Site Address: Land At Station Road, Station Road, Bolton Upon Dearner, Rotherham, South Yorkshire, S63 Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRY002 EPR reference: EA/EPR/JP3090ZP/A001 Operator: Bryan Hargreaves Ltd Waste Management licence No: 60600 Annual Tonnage: 25000.0 Issue Date: 30/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Bryan Hargreaves Ltd Correspondence Address: -
Not shown	755	W	445300 402700	Site Address: Land At Station Road, Station Road, Bolton Upon Dearner, Rotherham, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BRY002 EPR reference: - Operator: Bryan Hargreaves Ltd Waste Management licence No: 60600 Annual Tonnage: 0.0 Issue Date: 30/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Bryan Hargreaves Ltd Correspondence Address: 1, Wath Wood Road, Wath Upon Dearner, Rotherham, S Yorks, S63 7PW

ID	Distance (m)	Direction	NGR	Details
Not shown	823	SE	446700 402000	Site Address: Common Lane, Adwick Upon Dearne, Doncaster, South Yorkshire, S63 8L Type: Other Landfill Site taking Special Waste Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AOG001 EPR reference: EA/EPR/NP3394ZA/S002 Operator: A Ogden & Sons Limited Waste Management licence No: 65076 Annual Tonnage: 23100.0 Issue Date: 15/10/1999 Effective Date: - Modified: 29/08/2001 Surrendered Date: 24/05/2004 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Barnburgh Tip Correspondence Address: -
Not shown	877	N	446350 403500	Site Address: Barnburgh Lane, Goldthorpe, Barnsley, S Yorks Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SED001 EPR reference: - Operator: Sedgwick F Waste Management licence No: 60611 Annual Tonnage: 0.0 Issue Date: 15/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: F. Sedgewick Correspondence Address: 8, Stuart Street, Thurnscoe, Barnsley, S Yorks, S63 0EF
Not shown	877	N	446350 403500	Site Address: Land At Marsh Tip, Barnburgh Lane, Goldthorpe, Barnsley, South Yorkshire, S63 9EU Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SED001 EPR reference: EA/EPR/JP3690ZC/A001 Operator: Sedgwick Mr F Waste Management licence No: 60611 Annual Tonnage: 4999.0 Issue Date: 15/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: F. Sedgewick Correspondence Address: -
Not shown	1228	SW	445200 401700	Site Address: Off Bolton Road, Wath Upon Dearne, Rotherham, S Yorks, S60 1QT Type: Other Landfill Site taking Special Waste Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROT003 EPR reference: - Operator: Rotherham Metropolitan Borough Council Waste Management licence No: 61558 Annual Tonnage: 0.0 Issue Date: 03/08/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wath Manvers Former Coal Preparation Site Correspondence Address: Norfolk House, Walker Place, Rotherham, S Yorks, S60 1QT
Not shown	1228	SW	445200 401700	Site Address: Off Bolton Road, Wath Upon Dearne, Rotherham, South Yorkshire, S60 1QT Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROT003 EPR reference: EA/EPR/RP3595ZM/S002 Operator: Rotherham Metropolitan Borough Council Waste Management licence No: 61558 Annual Tonnage: 4999.0 Issue Date: 03/08/1994 Effective Date: - Modified: - Surrendered Date: 12/10/2005 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Wath Manvers Former Coal Preparation Site Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
Not shown	1228	SW	445200 401700	Site Address: Off Bolton Road, Wath Upon Dearne, Rotherham, S Yorks, S60 1QT Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROT003 EPR reference: - Operator: Rotherham Metropolitan Borough Council Waste Management licence No: 61558 Annual Tonnage: 0.0 Issue Date: 03/08/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wath Manvers Former Coal Preparation Site Correspondence Address: Norfolk House, Walker Place, Rotherham, S Yorks, S60 1QT
Not shown	1301	N	446200 403950	Site Address: Hope Street, Low Valley, Barnsley, South Yorkshire, S73 0HX Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RJM001 EPR reference: EA/EPR/RP3390ZN/S002 Operator: R & J M Shaw Waste Disposal Waste Management licence No: 60561 Annual Tonnage: 21656.0 Issue Date: 13/03/1985 Effective Date: - Modified: - Surrendered Date: 05/07/2004 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: R & J M Shaw Correspondence Address: -
Not shown	1442	SW	445400 401300	Site Address: Bolton Road W T & R E Facility, Bolton Road, Manvers, Wath Upon Dearne, South Yorks, S63 2LL Type: Biological Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA114 EPR reference: EA/EPR/FB3339RS/A001 Operator: Shanks Waste Management Ltd Waste Management licence No: 103665 Annual Tonnage: 265000.0 Issue Date: 03/10/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Bolton Road Waste Treatment & Renewable Energy Facility Correspondence Address: -
Not shown	1442	SW	445400 401300	Site Address: Bolton Road W T & R E Facility, Bolton Road, Manvers, Wath Upon Dearne, South Yorkshire, S63 2LL Type: Biological Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA114 EPR reference: EA/EPR/FB3339RS/V004 Operator: Shanks Waste Management Limited Waste Management licence No: 103665 Annual Tonnage: 265000.0 Issue Date: 03/10/2012 Effective Date: - Modified: 15/02/2017 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Bolton Road Waste Treatment & Renewable Energy Facility Correspondence Address: -
Not shown	1442	SW	445400 401300	Site Address: Bolton Road W T & R E Facility, Bolton Road, Manvers, Wath Upon Dearne, South Yorkshire, S63 2LL Type: Biological Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA114 EPR reference: EA/EPR/FB3339RS/V005 Operator: Renewi U K Services Limited Waste Management licence No: 103665 Annual Tonnage: 265000.0 Issue Date: 03/10/2012 Effective Date: - Modified: 20/10/2017 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Bolton Road Waste Treatment & Renewable Energy Facility Correspondence Address: -

4. Current Land Use Map



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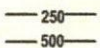
Site Outline



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:

1

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	200	SE	Water Pumping Station	446286 402477	S63	Water Pumping Stations	Industrial Features

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

Database searched and no data found.

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

5.3 Bedrock and Solid Geology

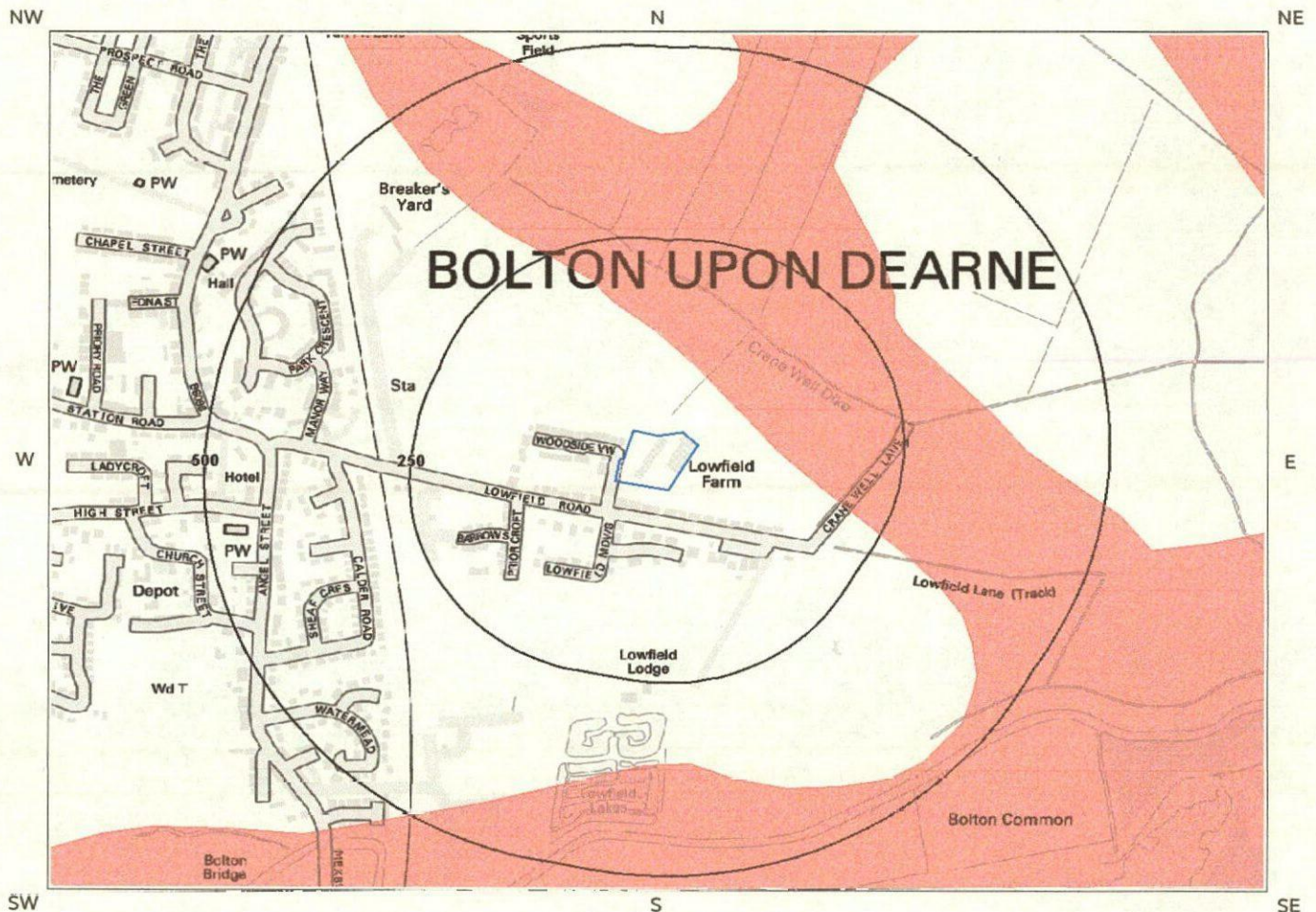
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MXR-SDST	MEXBOROUGH ROCK	SANDSTONE
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

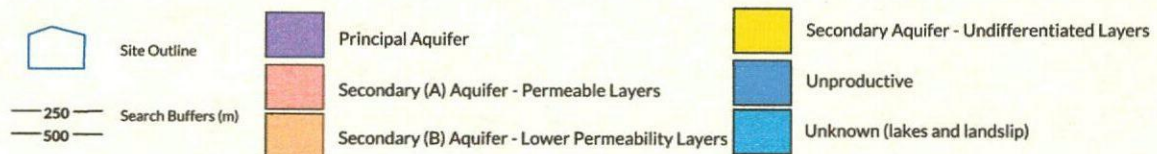
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

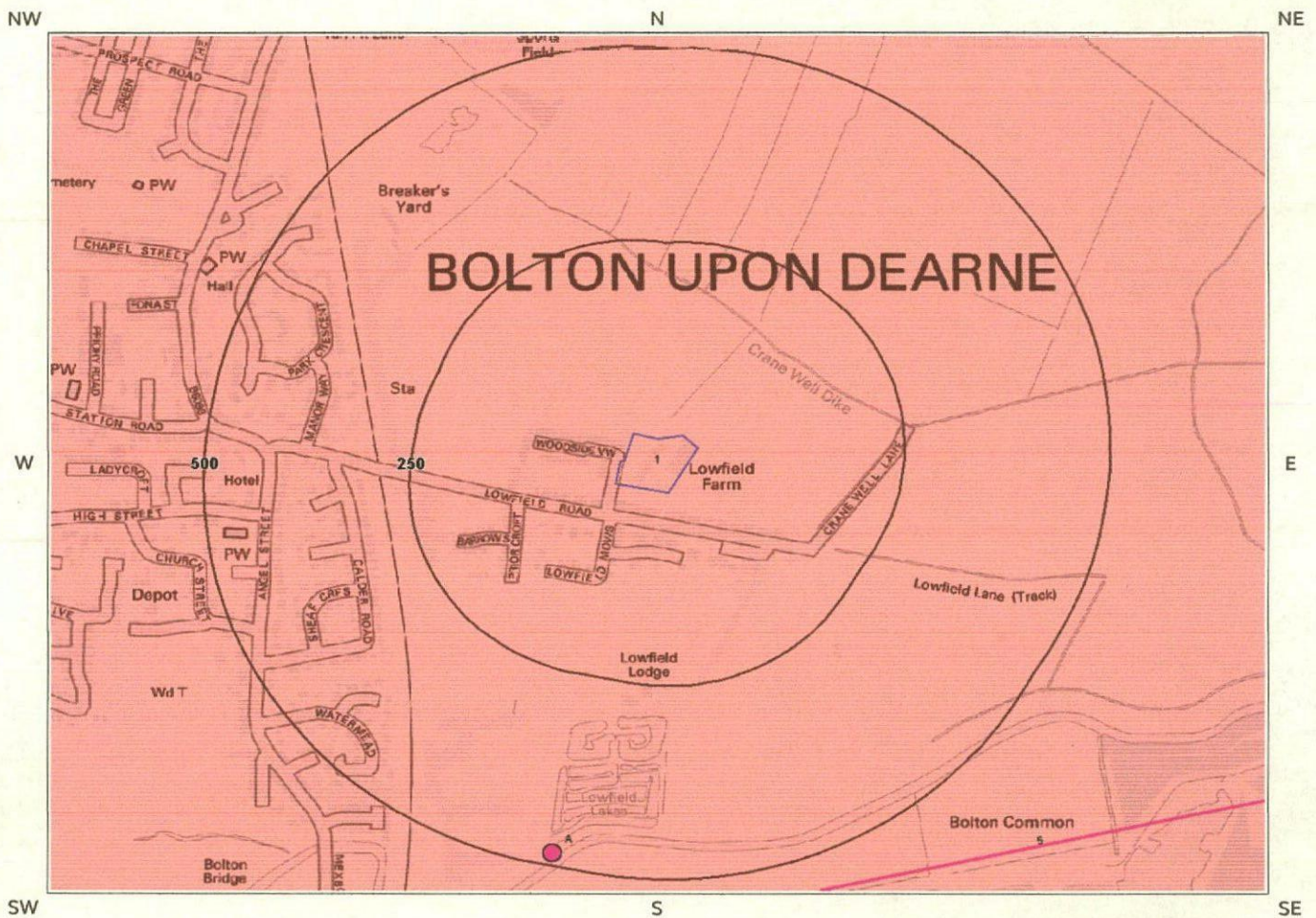
6a. Aquifer Within Superficial Geology



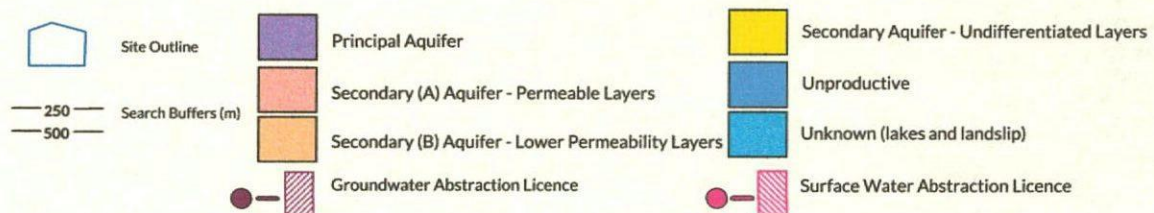
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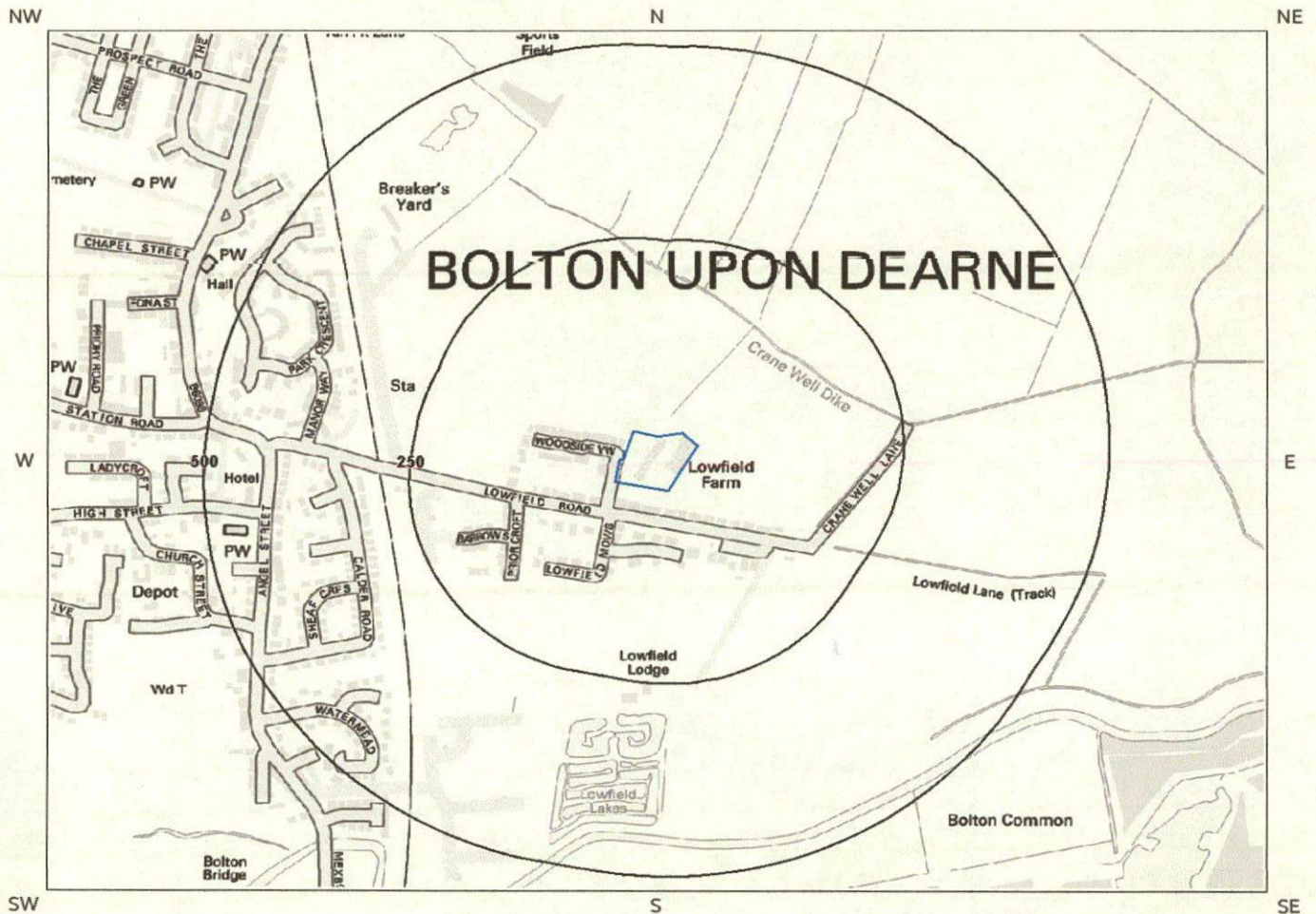
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



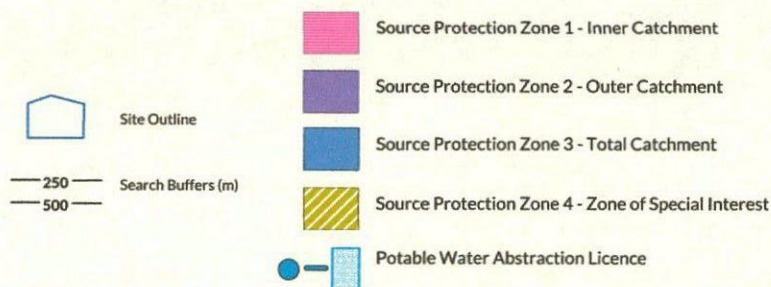
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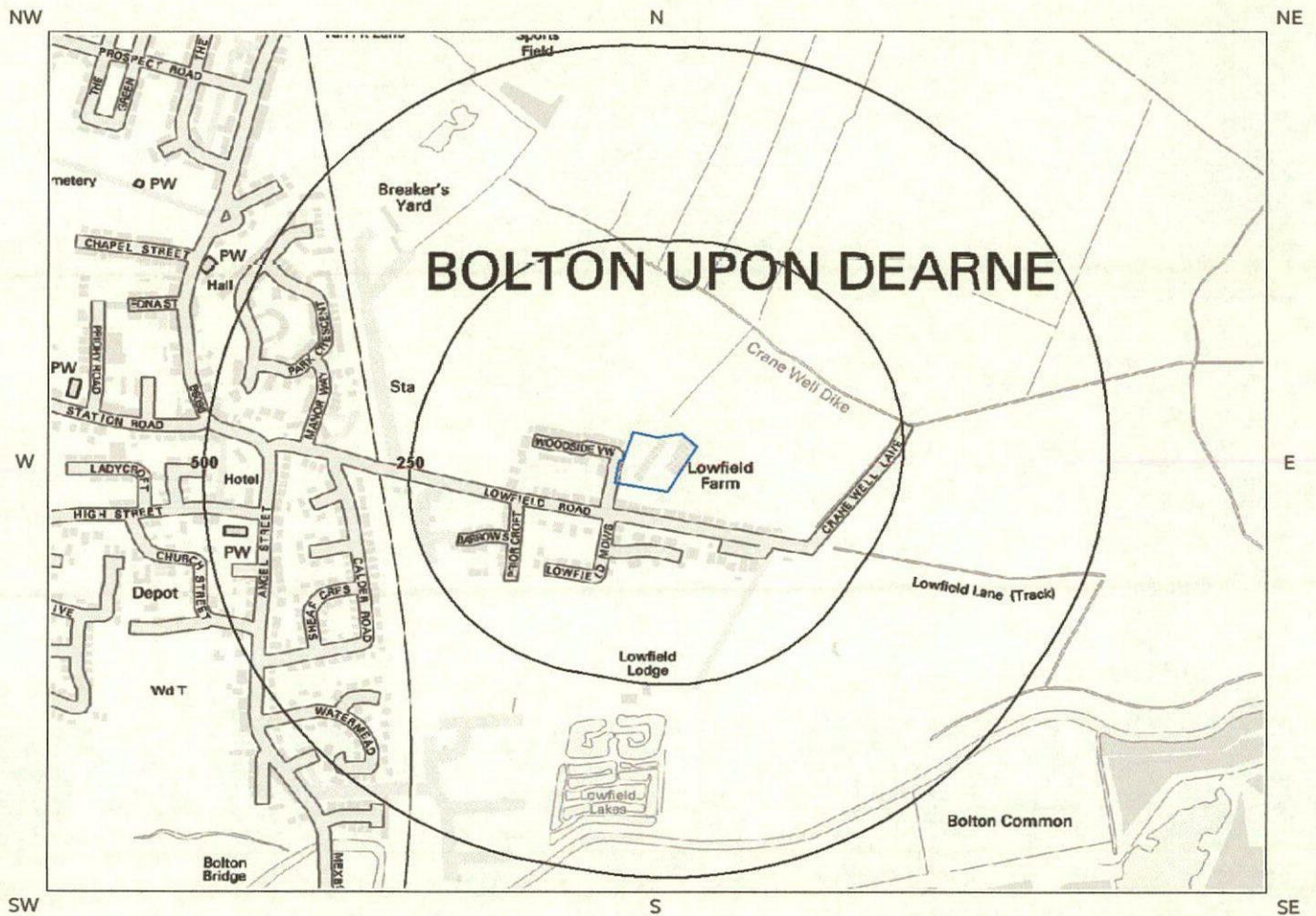
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



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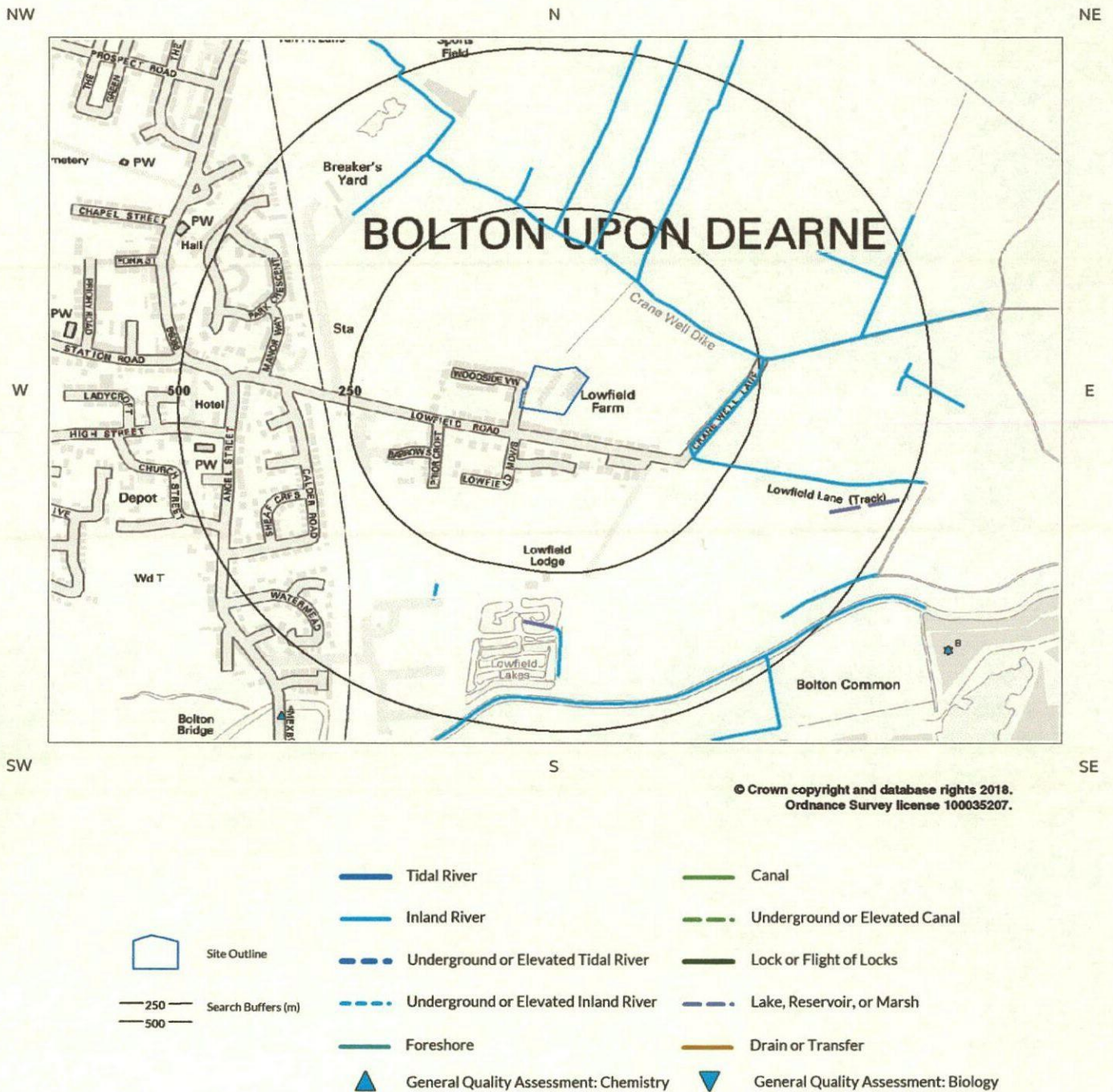


6d. Hydrogeology – Source Protection Zones within confined aquifer



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6e. Hydrology – Watercourse Network and River Quality



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/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 Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	66	NE	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/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

Are there any Groundwater Abstraction Licences within 2000m of the study site? **None identified**

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Are there any 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
2A	485	S	445970 402110	Status: Historical Licence No: 2/27/08/125 Details: Make-Up or Top Up Water Direct Source: Surface Water Point: River Dearne-lowfield Lane-wath On Dearne Data Type: Point Name: NASH Annual Volume (m³): - Max Daily Volume (m³): - Application No: 6938 Original Start Date: 20/9/1999 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 30/8/2002 Version End Date:
3A	485	S	445970 402110	Status: Historical Licence No: 2/27/08/125 Details: Make-Up or Top Up Water Direct Source: Surface Water Point: River Dearne Data Type: Point Name: NASH Annual Volume (m³): - Max Daily Volume (m³): - Application No: 6938 Original Start Date: 20/9/1999 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 20/9/1999 Version End Date:
4A	485	S	445970 402110	Status: Historical Licence No: 2/27/08/125 Details: Make-Up or Top Up Water Direct Source: Surface Water Point: Inland Water - River Dearne Data Type: Point Name: NASH Annual Volume (m³): - Max Daily Volume (m³): - Application No: 6938 Original Start Date: 20/9/1999 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 30/8/2002 Version End Date:
5	540	S	446000 402000	Status: Historical Licence No: 2/27/08/120 Details: General use relating to Secondary Category (High Loss) Direct Source: Surface Water Point: River Dearne Data Type: Line Name: A OGDEN & SONS LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 6819 Original Start Date: 25/6/1997 Expiry Date: 31/12/2006 Issue No: 101 Version Start Date: 15/3/2000 Version End Date:
Not shown	607	S	445900 402000	Status: Historical Licence No: 2/27/08/127 Details: Dust suppression Direct Source: Surface Water Point: Inland Water - Tributary Of River Dearne Data Type: Point Name: GATEWAYS FUELS LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 8022 Original Start Date: 2/8/2002 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: 2/8/2002 Version End Date:
Not shown	1630	E	447662 402033	Status: Active Licence No: NE/027/0008/010 Details: Fish Pass/Canoe Pass Direct Source: Surface Water Point: River Dearn At Adwick Weir Data Type: Point Name: ENVIRONMENT AGENCY Annual Volume (m³): 0 Max Daily Volume (m³): 0 Application No: NPS/WR/010885 Original Start Date: 14/5/2013 Expiry Date: 31/3/2029 Issue No: 1 Version Start Date: 15/5/2016 Version End Date:

6.5 Potable Water Abstraction Licences

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

None identified

Database searched and no data found.

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

None identified

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? 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

Is there any 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/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.
0	On Site	Minor Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.
246	W	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

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? Identified

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
37B	674	SE	446674 402205	River Name: Dearne Reach: Brook Dike Hound Hill Dyke End/Start of Stretch: End of Stretch NGR	D	D	D	D	D
Not shown	848	SE	446896 402237	River Name: West Moor Dike Reach: Goldthorpe Pit River Dearne End/Start of Stretch: End of Stretch NGR	C	C	C	C	C
Not shown	1294	SW	444911 401970	River Name: Dearne Reach: Brook Dike Hound Hill Dyke End/Start of Stretch: Start of Stretch NGR	D	D	D	D	D
Not shown	1294	SW	444911 401970	River Name: Brook Dike Reach: Wath Sewage Works River Dearne End/Start of Stretch: End of Stretch NGR	D	C	C	C	B
Not shown	1294	SW	444911 401970	River Name: Dearne Reach: Ings Dike Brook Dike End/Start of Stretch: End of Stretch NGR	D	D	D	D	D

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
42A	599	SW	445700 402100	River Name: River Dearne Reach: Knoll Beck Ings Dike End/Start of Stretch: Sample Point NGR	C	C	C	C	C
43A	599	SW	445700 402100	River Name: River Dearne Reach: River Dove Bulling Dike End/Start of Stretch: Sample Point NGR	C	C	C	C	C
44A	599	SW	445700 402100	River Name: River Dearne Reach: Ings Dike Brook Dike End/Start of Stretch: Sample Point NGR	C	C	C	C	C
45A	599	SW	445700 402100	River Name: River Dearne Reach: Brook Dike Hound Hill Dyke End/Start of Stretch: Sample Point NGR	C	C	C	C	C
46A	599	SW	445700 402100	River Name: River Dearne Reach: Bulling Dike Knoll Beck End/Start of Stretch: Sample Point NGR	C	C	C	C	C
47B	674	SE	446674 402205	River Name: River Dearne Reach: Hound Hill Dike West Moor Dyke End/Start of Stretch: Start of Stretch NGR	C	D	D	D	D
48B	674	SE	446674 402205	River Name: River Dearne Reach: Brook Dike Hound Hill Dyke End/Start of Stretch: End of Stretch NGR	C	C	C	C	C
Not shown	848	SE	446896 402237	River Name: River Dearne Reach: Hound Hill Dike West Moor Dyke End/Start of Stretch: End of Stretch NGR	C	D	D	D	D
Not shown	848	SE	446896 402237	River Name: River Dearne Reach: West Moor Dyke River Don End/Start of Stretch: Start of Stretch NGR	C	D	D	D	D
Not shown	1294	SW	444911 401970	River Name: River Dearne Reach: Ings Dike Brook Dike End/Start of Stretch: End of Stretch NGR	C	C	C	C	C
Not shown	1294	SW	444911 401970	River Name: River Dearne Reach: Brook Dike Hound Hill Dyke End/Start of Stretch: Start of Stretch NGR	C	C	C	C	C

6.10 Ordnance Survey MasterMap Water Network

Are there any Ordnance Survey MasterMap Water Network entries within 500m of the study site?

#DRN_Count#

#NDF_DRN_tag#

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	158 NE	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
25	158 NE	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
2	163 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
3	163 NE	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
26	163 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
27	163 NE	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
4	183 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.0
5	183 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
28	183 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.0

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
29	183 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
6	188 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.8
7	188 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
30	188 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.8
31	188 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
8	193 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
32	193 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
9	196 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 3.5
33	196 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 3.5
10	197 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 3.5
34	197 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 3.5
11	215 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.5

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
12	215 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
35	215 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.5
36	215 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
13	253 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
37	253 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
14	254 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
38	254 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
15	257 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.5
39	257 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.5
16	261 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
17	261 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.5
Not shown	261 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
Not shown	261 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 1.5
18	304 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	304 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
19	328 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	328 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
20	332 S	-	Lake, loch or reservoir.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	332 S	-	Lake, loch or reservoir.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
21	337 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	337 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
22	342 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	342 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
23	355 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
47	355 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
24	369 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	369 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
25	388 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.2
49	388 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.2
26	403 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.5
27	403 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	403 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.5
Not shown	403 E	Crane Well Dike	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
28	412 SE	-	Lake, loch or reservoir.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	412 SE	-	Lake, loch or reservoir.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
29	450 S	River Dearne	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 11.2

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
Not shown	450 S	River Dearne	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 11.2
30	451 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
Not shown	451 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 2.4
31	453 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
Not shown	453 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
32	463 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
Not shown	463 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
33	464 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.2
34	464 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
Not shown	464 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.2
Not shown	464 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 4.7
35	480 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
36	480 SE	River Dearne	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 13.1
Not shown	480 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: Not Provided
Not shown	480 SE	River Dearne	Inland river not influenced by normal tidal action.	Catchment Area: Don and Rother Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section: 13.1

6.11 Surface Water Features

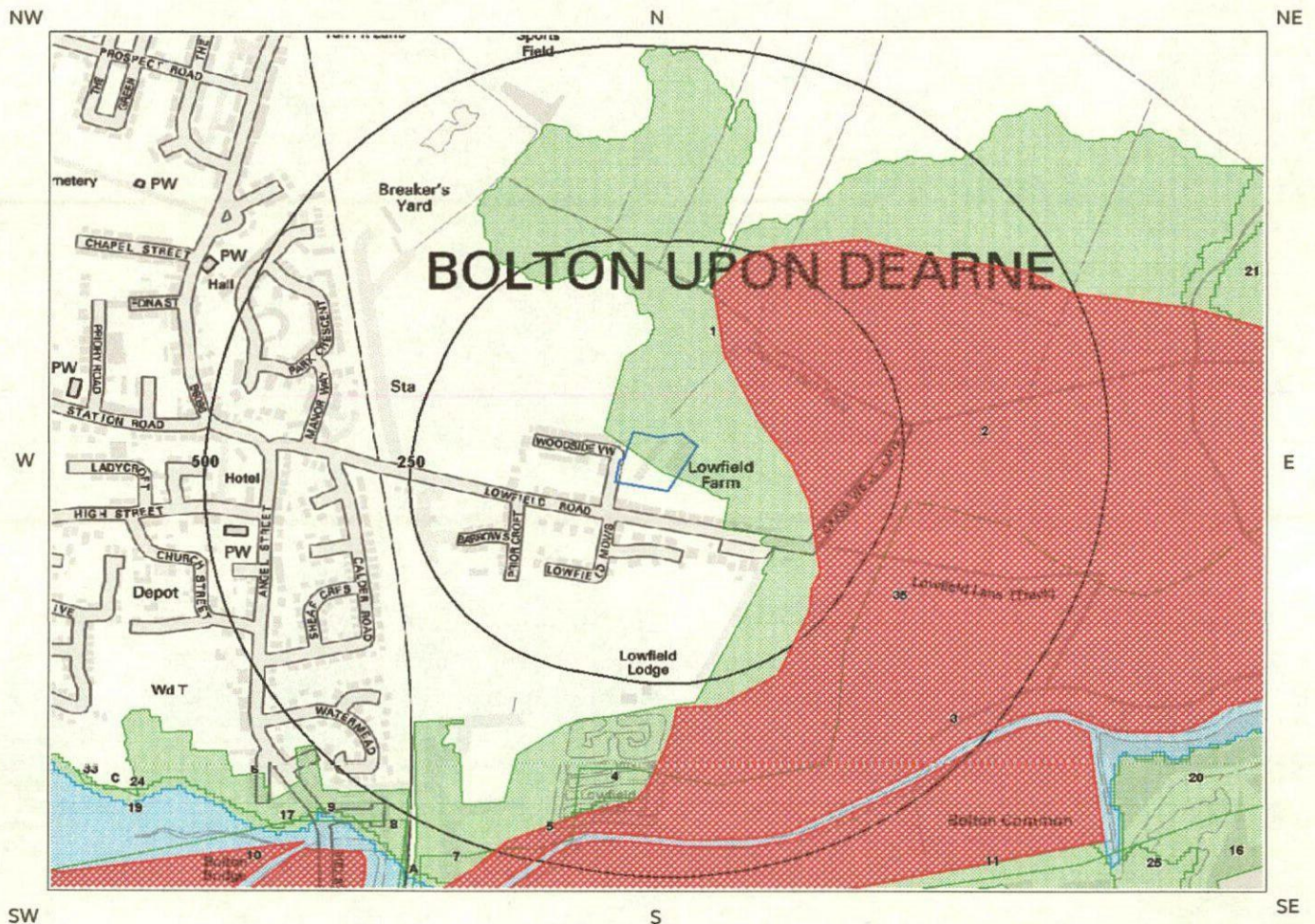
Are there any surface water features within 250m of the study site?

Identified

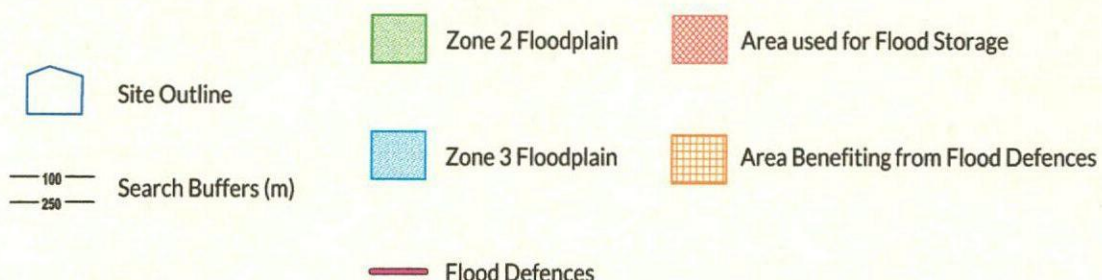
The following surface water records are not represented on mapping:

Distance (m)	Direction
25	N
156	NE
163	NE
174	NE
188	N
193	E
209	SE
211	N
216	N

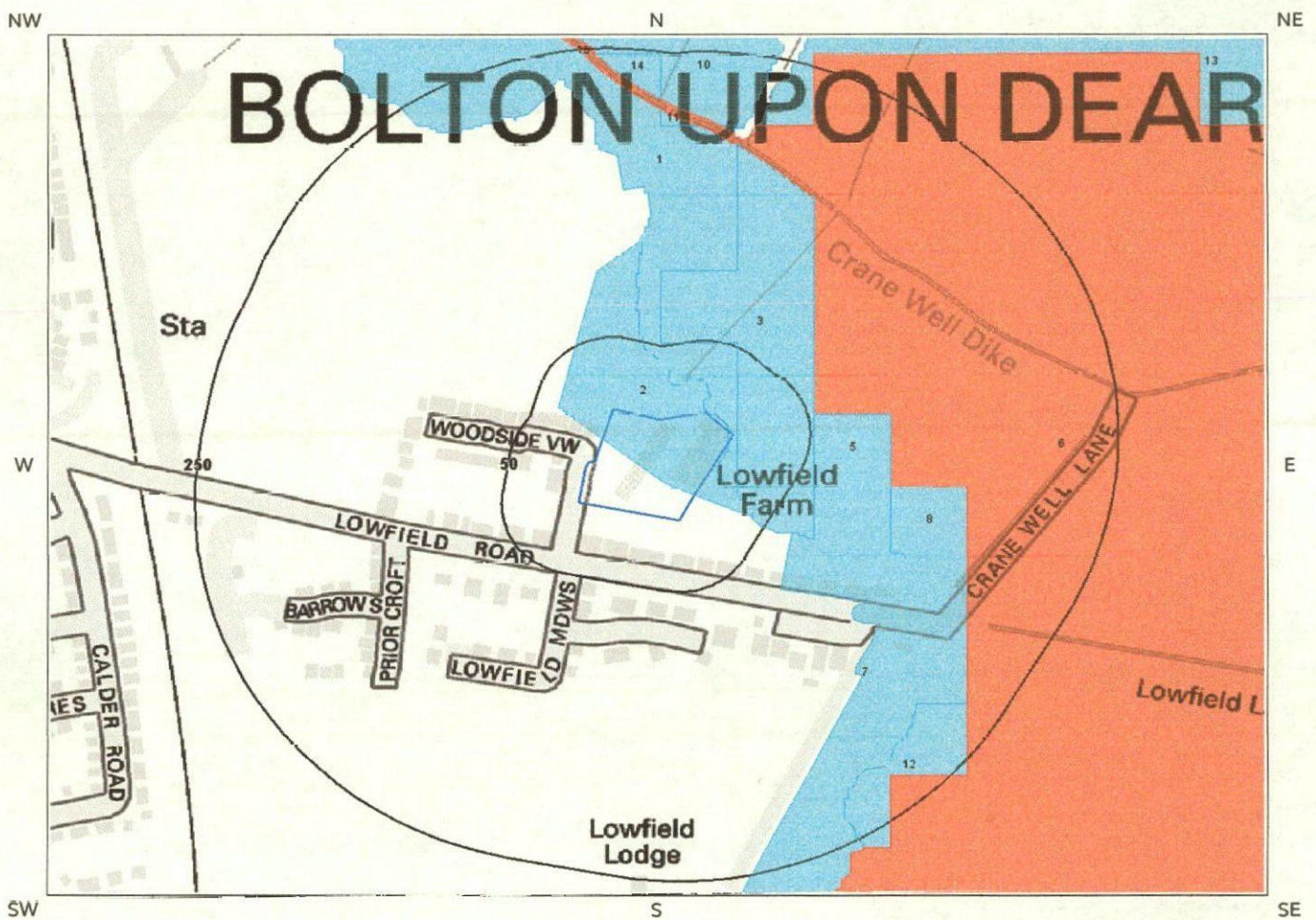
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



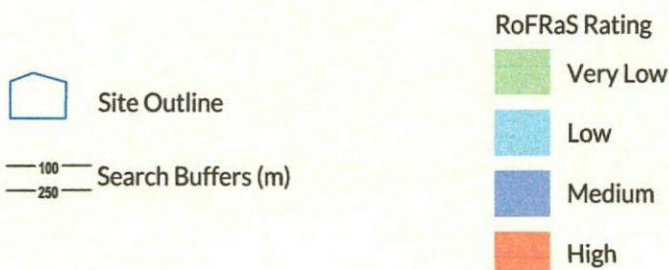
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? 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:

ID	Distance (m)	Direction	Update	Type
1	0	On Site	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
2	82	NE	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? 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.

ID	Distance (m)	Direction	Update	Type
1	82	NE	19-Mar-2018	Zone 3 - (Fluvial Models)

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

What is the highest risk of flooding onsite?

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 Low (greater than 1 in 1000 but less than 1 in 100) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

ID	Distance (m)	Direction	RoFRaS flood Risk
----	--------------	-----------	-------------------

1	0.0	On Site	Low
2	0.0	On Site	Low
3	2.0	E	Low
4	21.0	SE	Low

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? None identified
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? None identified

7.6 Areas benefiting from Flood Storage

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

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? Identified

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?

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

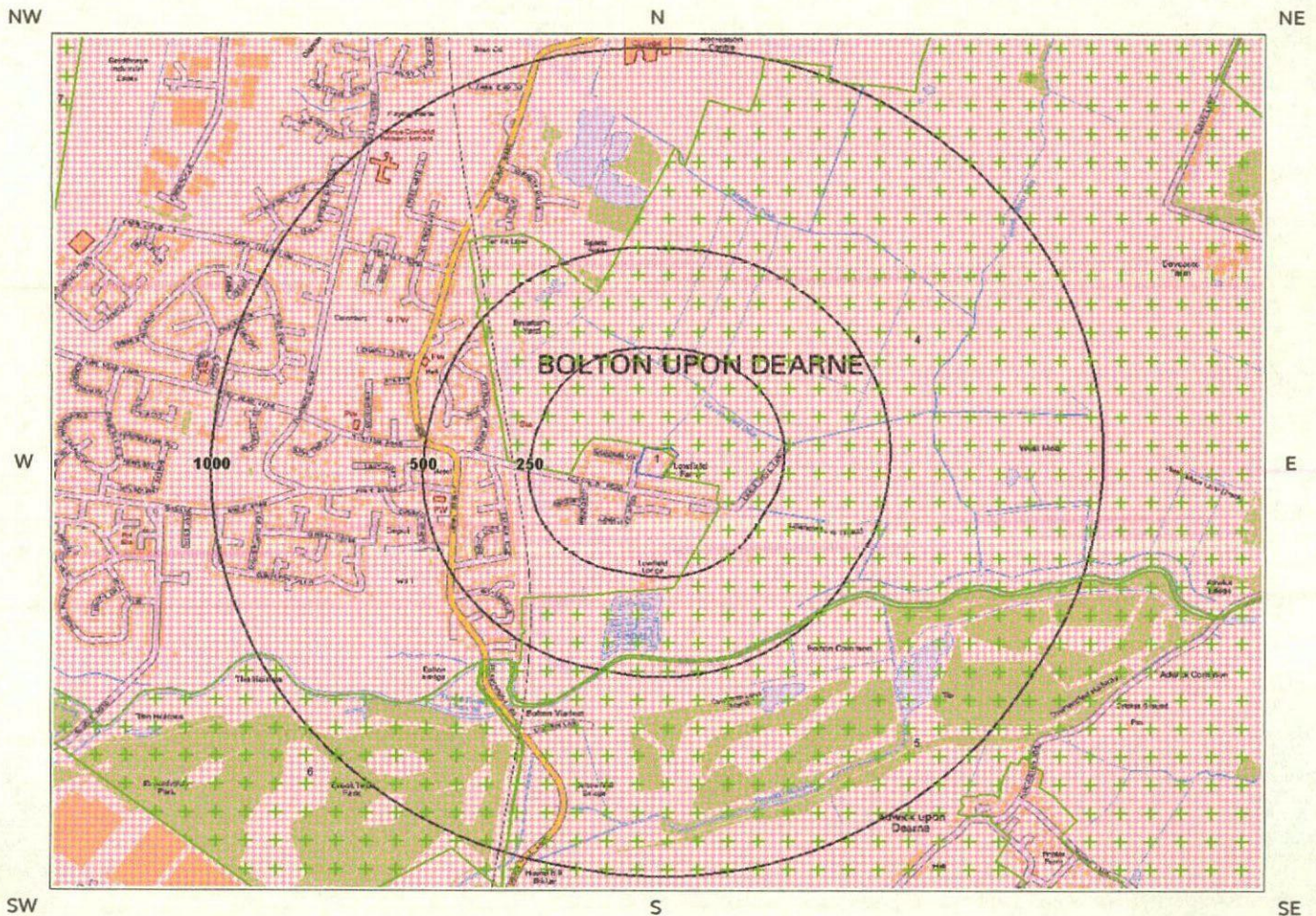
What is the British Geological Survey confidence rating in this result?

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?	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:

1

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	1967	NE	UNKNOWN	Ancient Replanted 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:

2

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	0	On Site	Existing	DEFRA
Not shown	1713	S	Existing	DEFRA

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

5

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ID	Distance	Direction	Green Belt Name	Local Authority Name
4	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
5	456	S	Liverpool, Manchester and West Yorks Greenbelt	Doncaster District (B)
6	599	SW	Liverpool, Manchester and West Yorks Greenbelt	Rotherham
7	1440	W	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
Not shown	1753	S	Liverpool, Manchester and West Yorks Greenbelt	Rotherham

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? Very Low

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

Hazard

Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

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? 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.

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? 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 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 site is in a Radon Affected Area, as between 1 and 3% 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? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any 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

Are there any Non-Coal Mining areas within 50m of the study site boundary?

None identified

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

None identified

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: 03708 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: Barnsley Metropolitan Borough Council
Phone: 01226 770770
Web: <http://www.barnsley.gov.uk/>
Address: PO Box 634, Barnsley, South Yorkshir, S70 9GG

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444



**Public Health
England**



**The Coal
Authority**



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