

Site Details:

PUBLIC OPEN SPACE, OLD
MILL LANE, BARNSELEY, S71
1LL

Client Ref: 253511-00
Report Ref: GS-4670518
Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1977-1982

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Edition N/A
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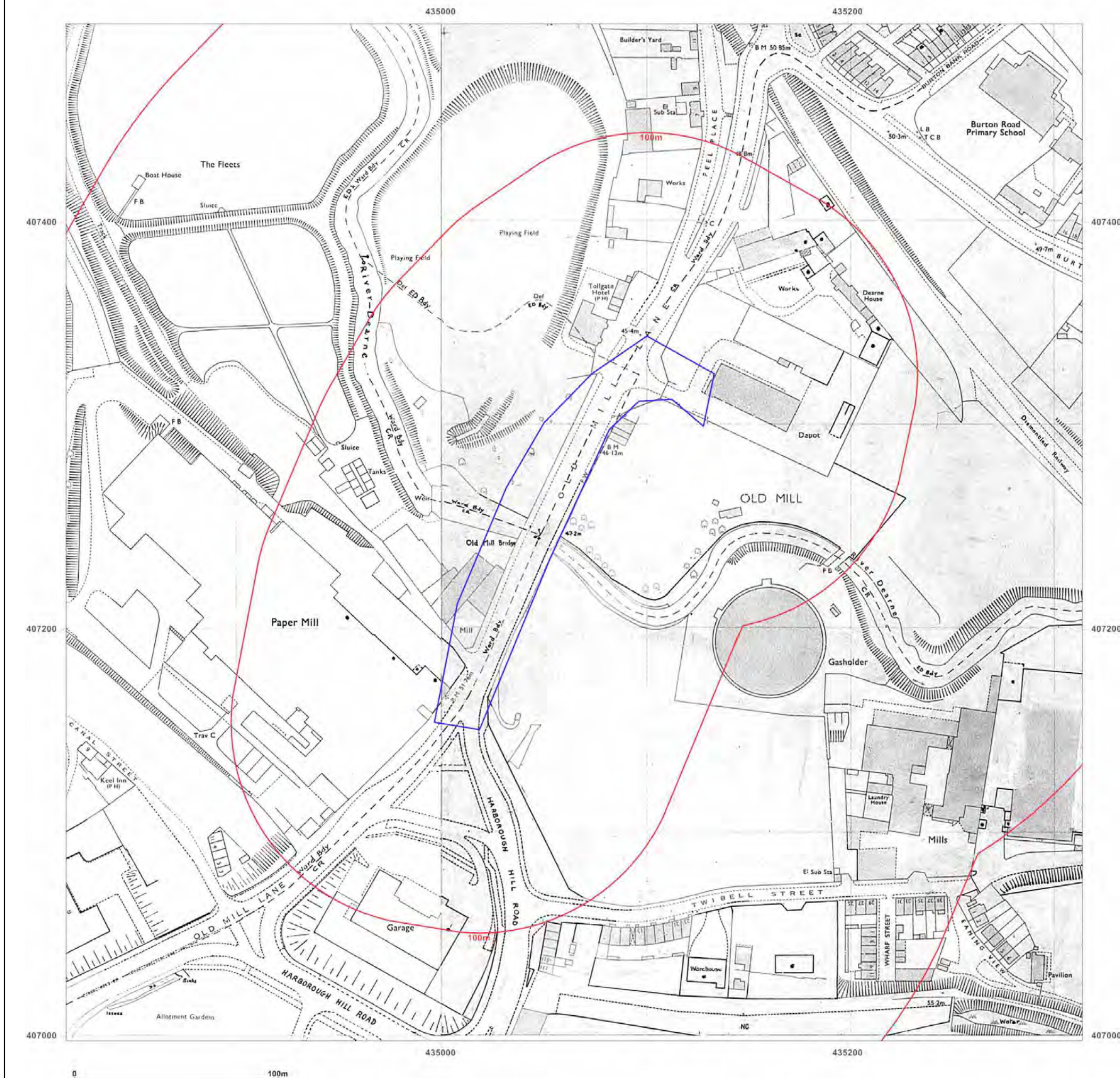


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Site Details:

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MILL LANE, BARNSELY, S71
1LL

Client Ref: 253511-00
Report Ref: GS-4670518
Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1979-1986

Scale: 1:1,250

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Client Ref: 253511-00
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Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1987-1991

Scale: 1:1,250

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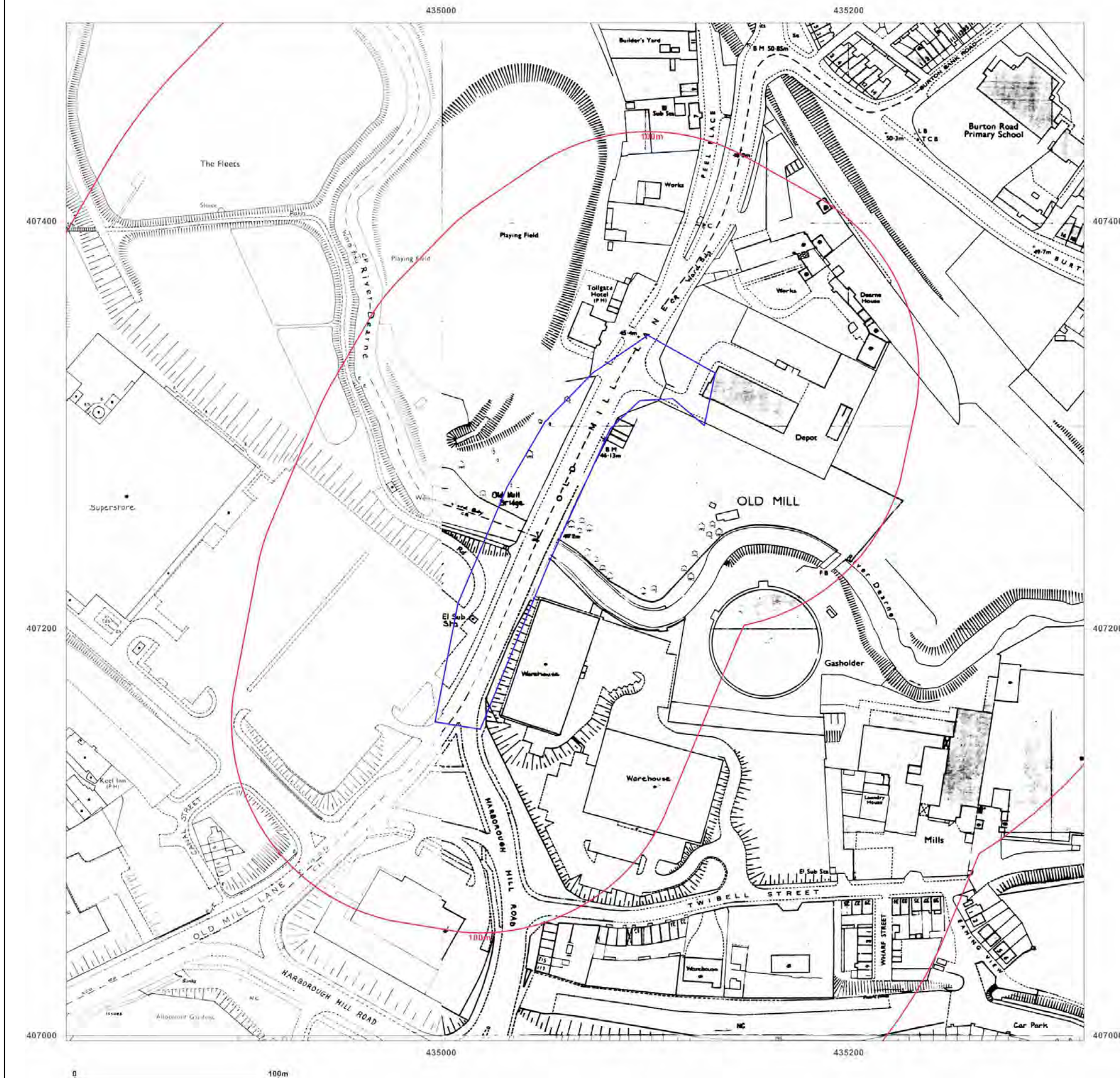


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Client Ref: 253511-00
Report Ref: GS-4670518
Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Surveyed 1963
Revised 1990
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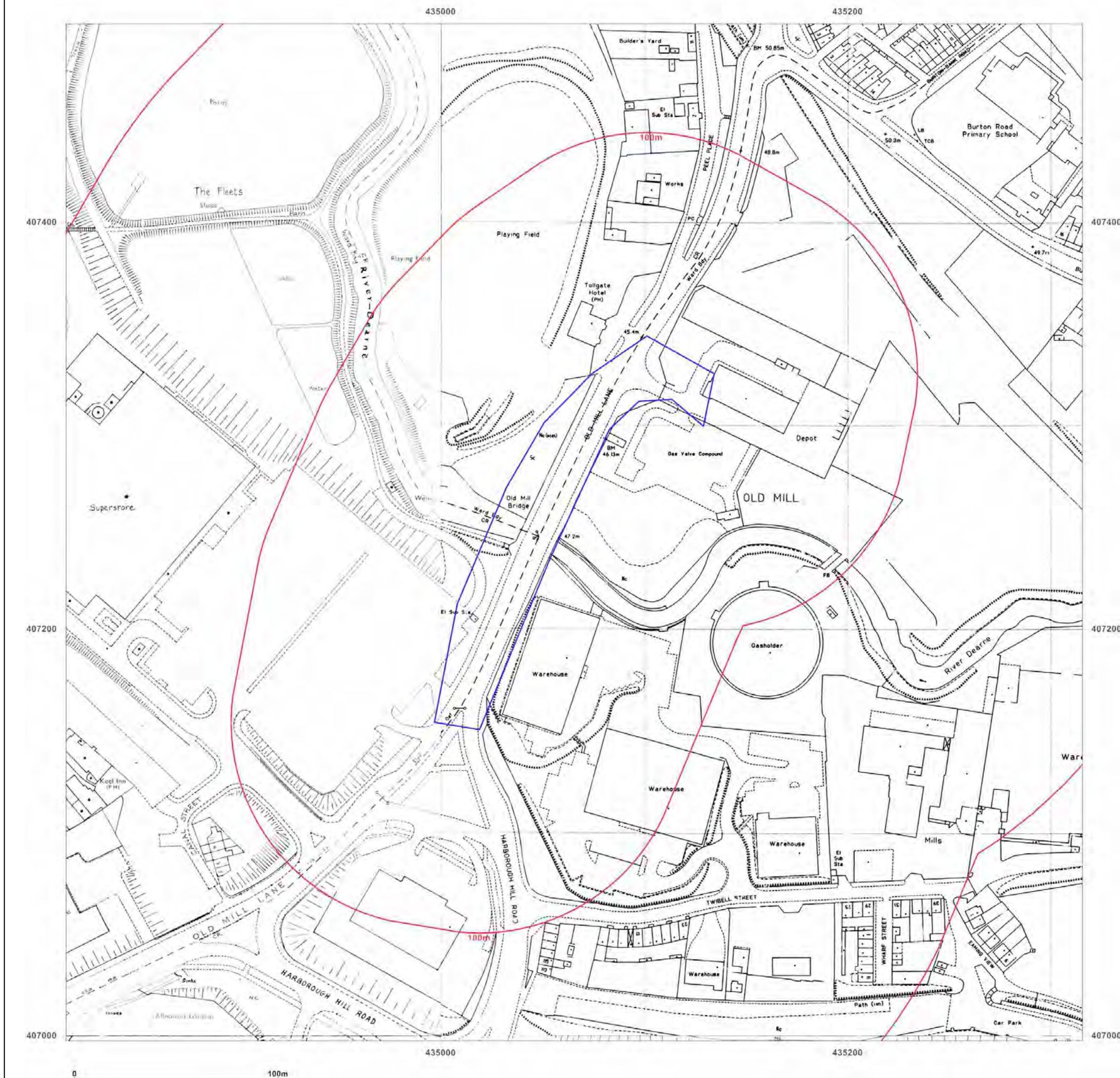


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Client Ref: 253511-00
Report Ref: GS-4670518
Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1993-1994

Scale: 1:1,250

Printed at: 1:2,000



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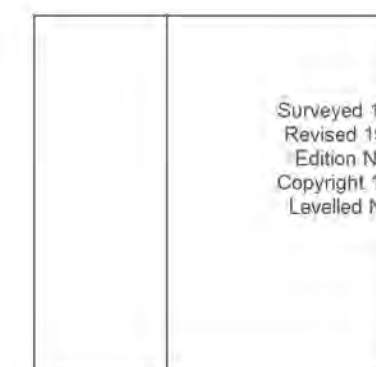
Client Ref: 253511-00
Report Ref: GS-4670518
Grid Ref: 435065, 407247

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

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Ove Arup & Partners International Ltd
3 St Paul's Place, Norfolk Street,
Sheffield, S1 2JE

Groundsure Reference: GS-4670517

Your Reference: 253511-00

Report Date 18 Jan 2018

Report Delivery Method: Email - pdf

Geo Insight

Address: PUBLIC OPEN SPACE, OLD MILL LANE, BARNSELY, S71 1LL

Dear Sir/ Madam,

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

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

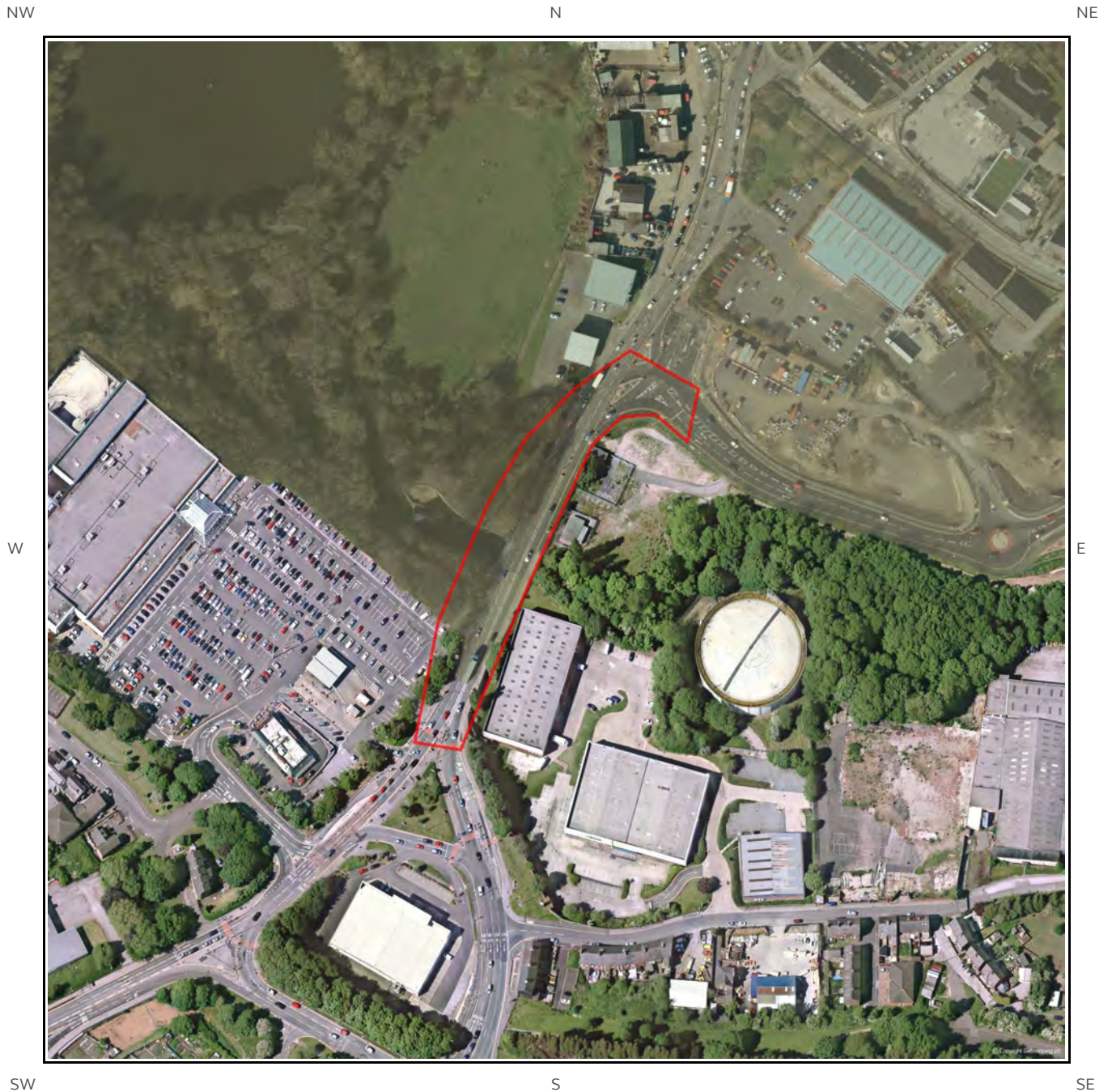
Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

Address: PUBLIC OPEN SPACE, OLD MILL LANE, BARNSELEY, S71 1LL
Date: 18 Jan 2018
Reference: GS-4670517
Client: Ove Arup & Partners International Ltd



Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 435038,407240
Site Size: 0.69ha

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Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the 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: Geology 1:10,000 Scale

1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	Yes
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes
	1.2.2 Are there any records of landslide within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	Yes

Section 2: Geology 1:50,000 Scale

2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	Yes
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	Yes
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes
	2.2.3 Are there any records of landslide within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features

2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.

2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

Yes

Section 3: Radon

3. Radon

3.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

3.2 Radon Protection

No radon protective measures are necessary.

Section 4: Ground Workings

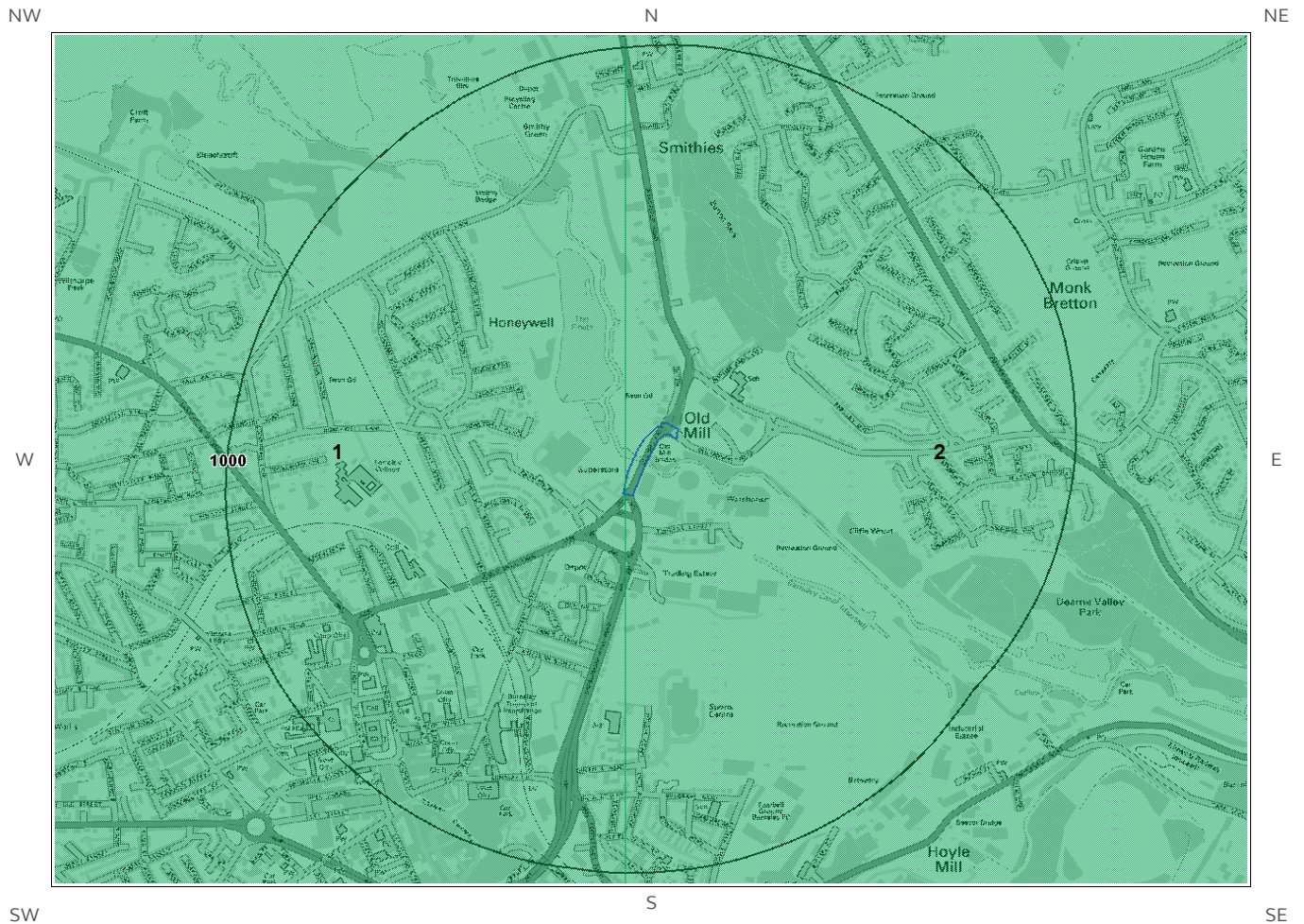
	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	0	6	39	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	1	1	17
4.3 Current Ground Workings	0	0	0	7	15

Section 5: Mining, Extraction & Natural Cavities

	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	1	1	17
5.2 Coal Mining	1	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	3	1	0	2	5
5.5 Non-Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	0	0	0	0	0

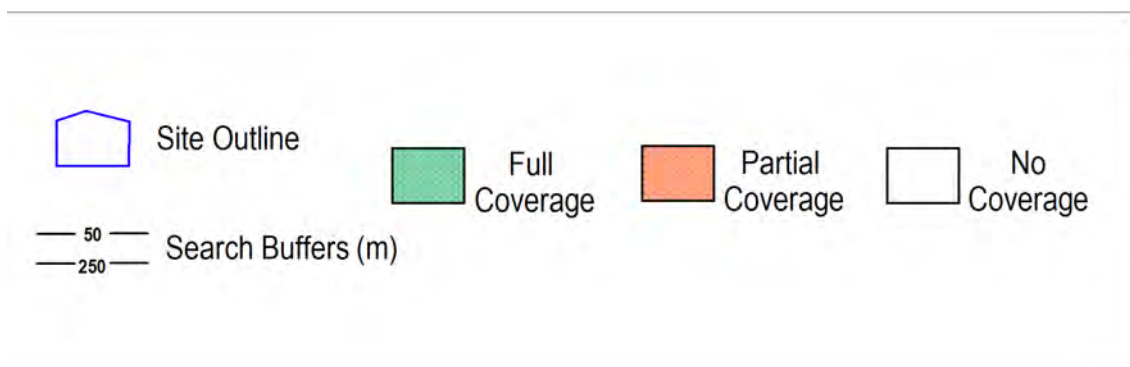
Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0
Section 6: Natural Ground Subsidence	On-site				
6.1 Shrink-Swell Clay	Low				
6.2 Landslides	Low				
6.3 Ground Dissolution of Soluble Rocks	Negligible				
6.4 Compressible Deposits	Moderate				
6.5 Collapsible Deposits	Very Low				
6.5 Running Sand	Low				
Section 7: Borehole Records	On-site	0-50m	51-250		
7 BGS Recorded Boreholes	0	1	13		
Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250		
8 Records of Background Soil Chemistry	4	6	0		
Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500	
9.1 Tunnels	0	0	0	Not Searched	
9.2 Historical Railway and Tunnel Features	11	4	20	Not Searched	
9.3 Historical Railways	0	0	1	Not Searched	
9.4 Active Railways	0	0	0	Not Searched	
9.5 Railway Projects	0	0	0	0	

1:10,000 Scale Availability



1_10,000 Availability Legend

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Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	Some deposits are mapped
2	0.0	Some deposits are mapped	Full	Full	No coverage

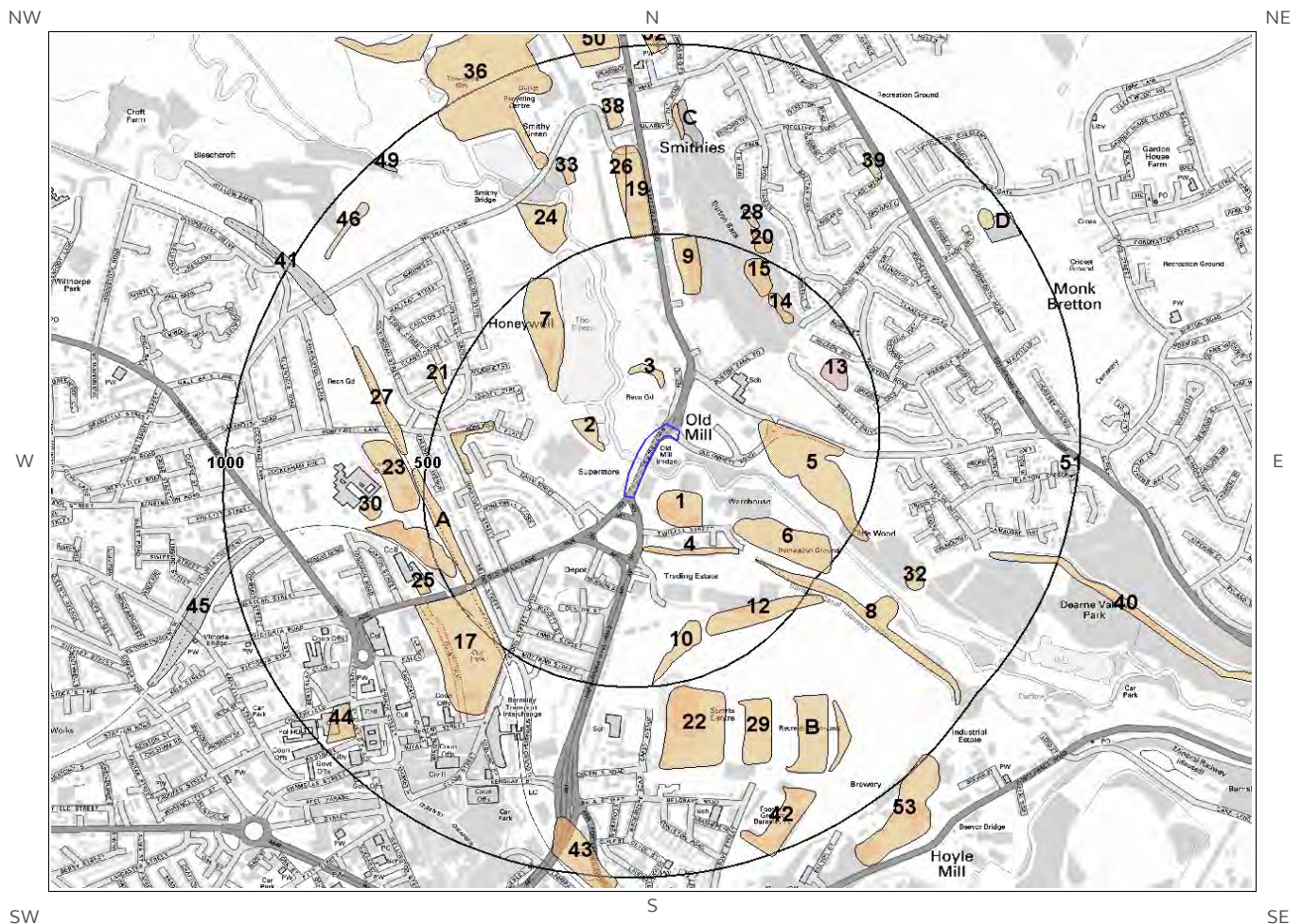
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage

1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)



Artificial Ground Legend

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1. Geology 1:10,000 scale

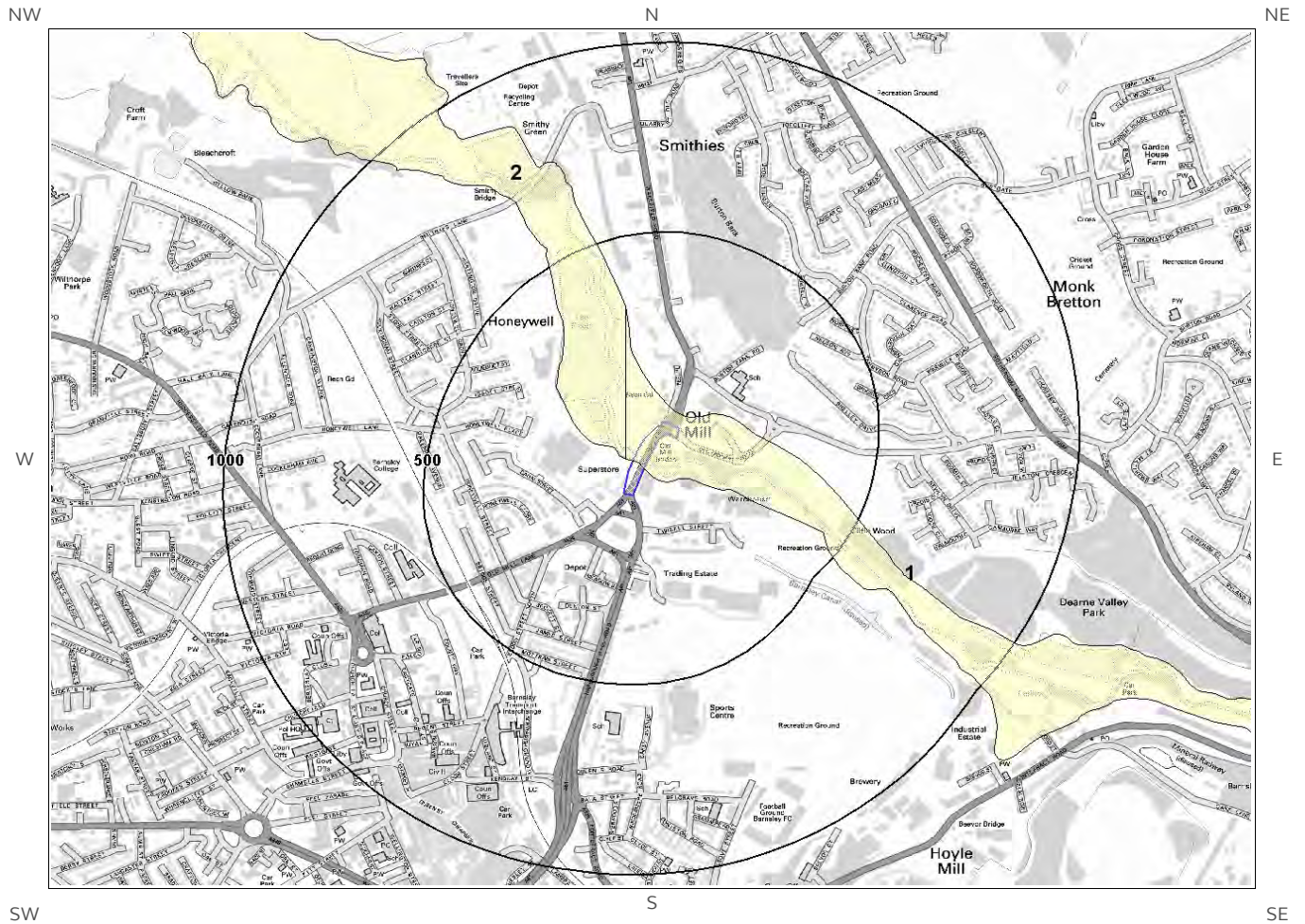
1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

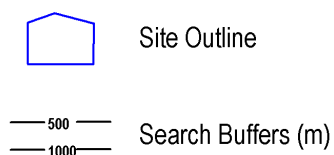
ID	Distance	Direction	LEX Code	Description	Rock Description
1	58.0	E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	81.0	NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	96.0	N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	133.0	S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	197.0	E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	258.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	259.0	NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	345.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	346.0	N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	354.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	358.0	W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	368.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	383.0	E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
14	389.0	NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	410.0	NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
16A	432.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	443.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18A	460.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
19	497.0	N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

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1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
2	20.0	NW	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt

1.2.2 Landslip

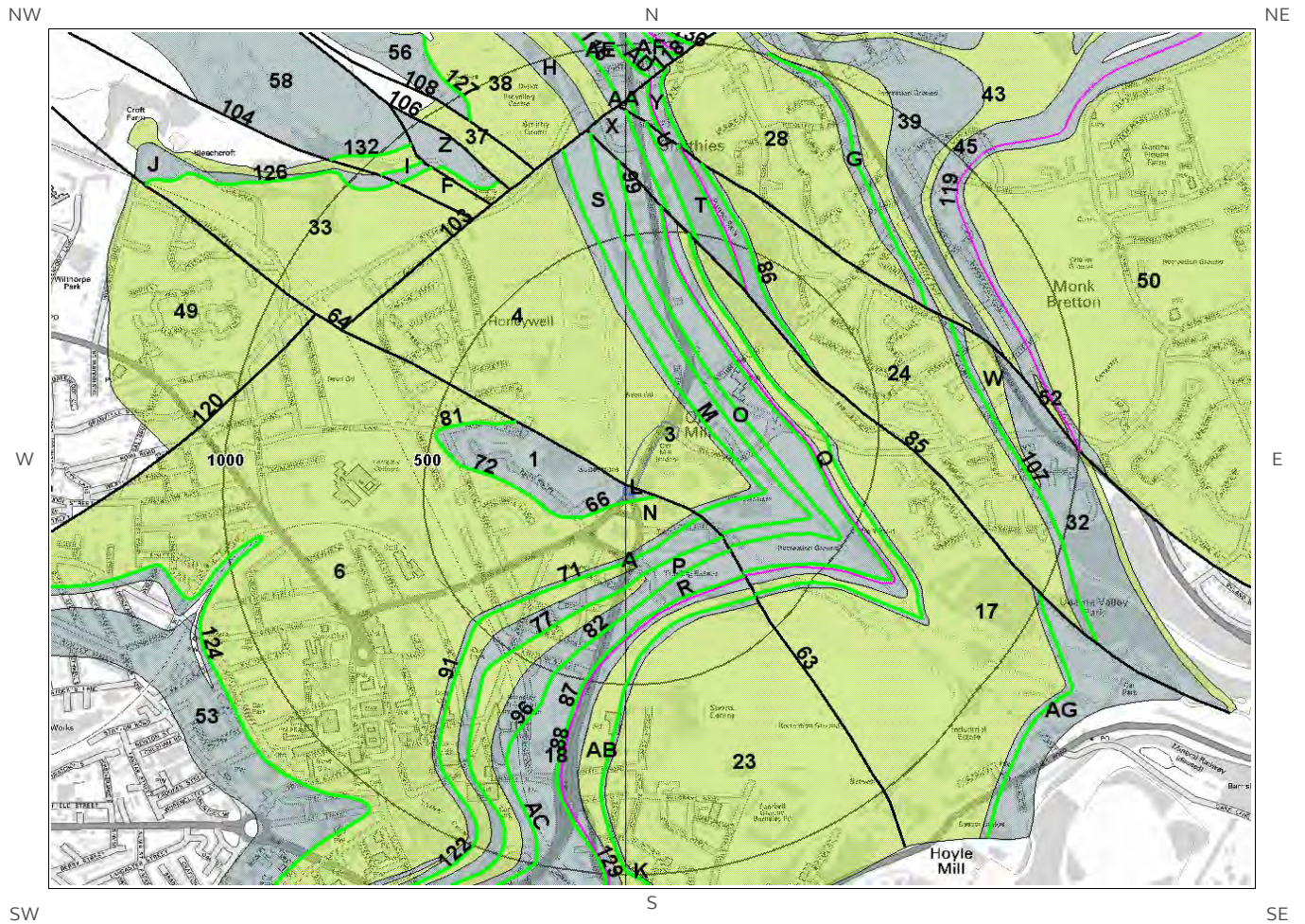
Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.3 Bedrock and linear features map (1:10,000 scale)

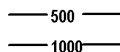


Bedrock and linear features Legend

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Site Outline



Search Buffers (m)

1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
2L	0.0	On Site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
3	0.0	On Site	KNR-SDST	Kent's Rock - Sandstone	Duckmantian Sub-age
4	1.0	W	KNR-SDST	Kent's Rock - Sandstone	Duckmantian Sub-age
5N	14.0	S	KNR-SDST	Kent's Rock - Sandstone	Duckmantian Sub-age
6	21.0	S	KNR-SDST	Kent's Rock - Sandstone	Duckmantian Sub-age
7O	46.0	NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
8P	124.0	SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
9	164.0	S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
10V	180.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
11A	180.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
12B	204.0	S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
13A	210.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
14C	238.0	NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
15B	245.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
16C	261.0	NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
17	268.0	NE	WE-SDST	Woolley Edge Rock - Sandstone	Duckmantian Sub-age
18	274.0	S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
19S	279.0	N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
20D	321.0	SE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
21D	348.0	SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
22T	355.0	NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
23	364.0	SE	WE-SDST	Woolley Edge Rock - Sandstone	Duckmantian Sub-age

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
24	376.0	NE	WE-SDST	Woolley Edge Rock - Sandstone	Duckmantian Sub-age
25AB	413.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? Yes

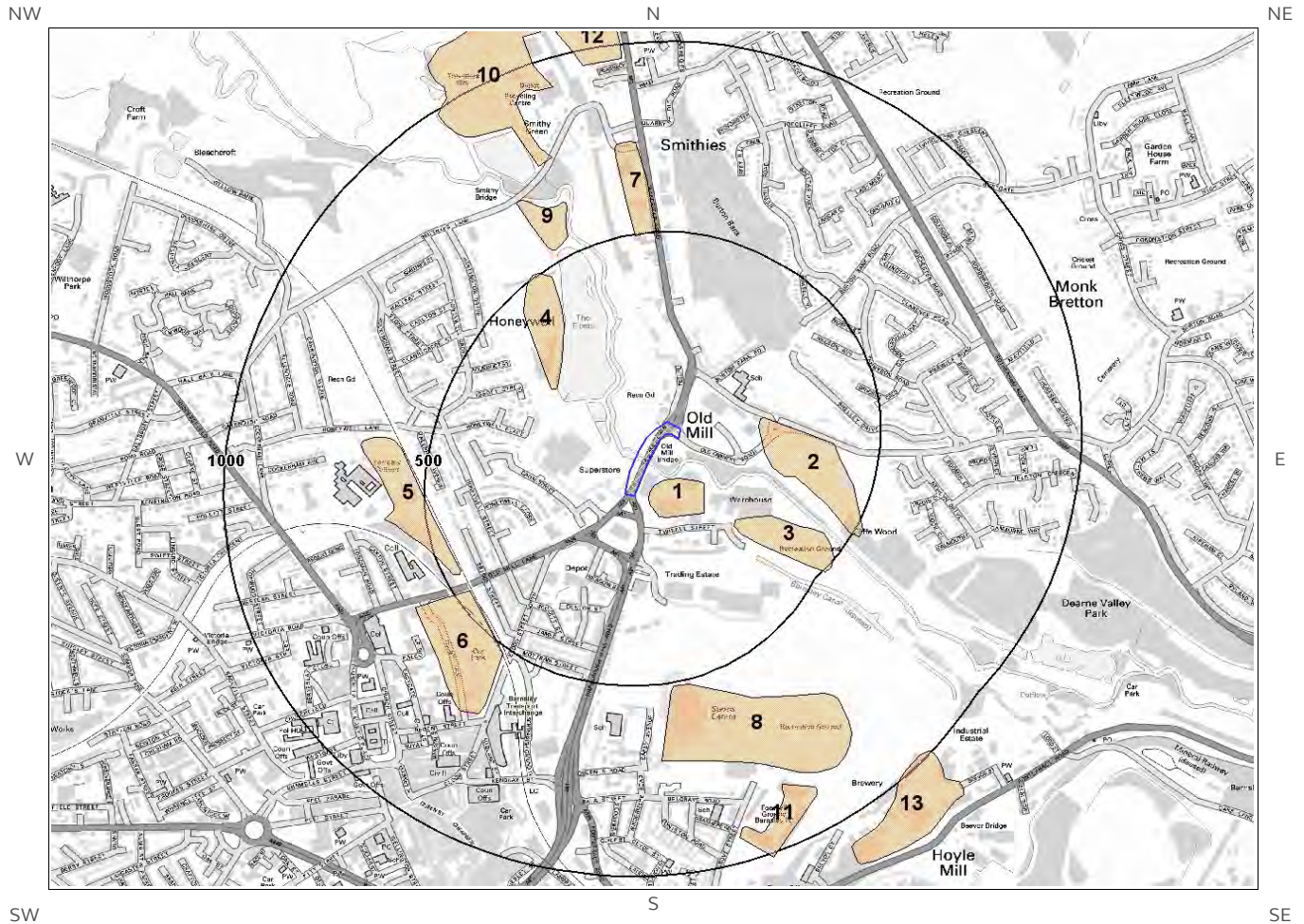
ID	Distance (m)	Direction	Category Description	Feature Description
63	0.0	On Site	FAULT	Normal fault, inferred
64	1.0	W	FAULT	Normal fault, inferred
65L	14.0	S	ROCK	Coal seam, inferred
66	21.0	S	ROCK	Coal seam, inferred
67M	61.0	NE	ROCK	Coal seam, inferred
68M	114.0	NE	ROCK	Coal seam, inferred
69N	146.0	SE	ROCK	Coal seam, inferred
70O	147.0	NE	ROCK	Coal seam, inferred
71	180.0	S	ROCK	Coal seam, inferred
72	193.0	W	ROCK	Coal seam, observed
73P	195.0	SE	ROCK	Coal seam, inferred
74Q	217.0	NE	ROCK	Coal seam, inferred
75Q	228.0	NE	FOSSIL_HORIZON	Fossil horizon, marine band
76P	241.0	SE	ROCK	Coal seam, inferred
77	245.0	S	ROCK	Coal seam, inferred
78C	261.0	NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
79R	297.0	SE	ROCK	Coal seam, inferred
80R	307.0	SE	FOSSIL_HORIZON	Fossil horizon, marine band
81	309.0	NW	ROCK	Coal seam, inferred
82	317.0	S	ROCK	Coal seam, inferred
83S	335.0	N	ROCK	Coal seam, inferred
84D	348.0	SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
85	355.0	NE	FAULT	Normal fault, inferred
86	367.0	NE	ROCK	Coal seam, inferred
87	372.0	S	ROCK	Coal seam, inferred
88	381.0	S	FOSSIL_HORIZON	Fossil horizon, marine band
89T	392.0	NE	FOSSIL_HORIZON	Fossil horizon, marine band
90T	399.0	NE	ROCK	Coal seam, inferred
91	419.0	SW	ROCK	Coal seam, observed
92S	475.0	N	ROCK	Coal seam, inferred
93U	479.0	N	ROCK	Coal seam, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

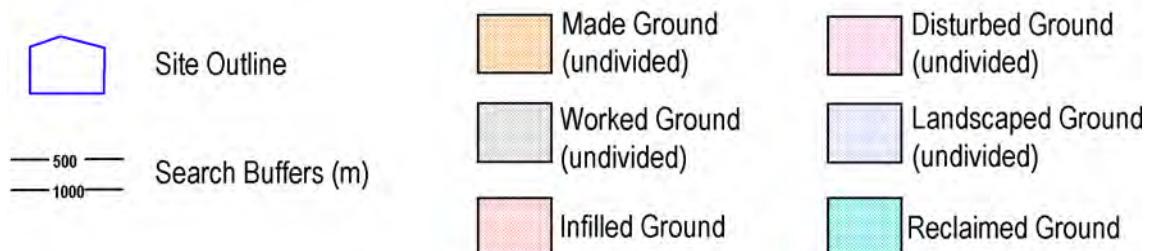
This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



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2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 087

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

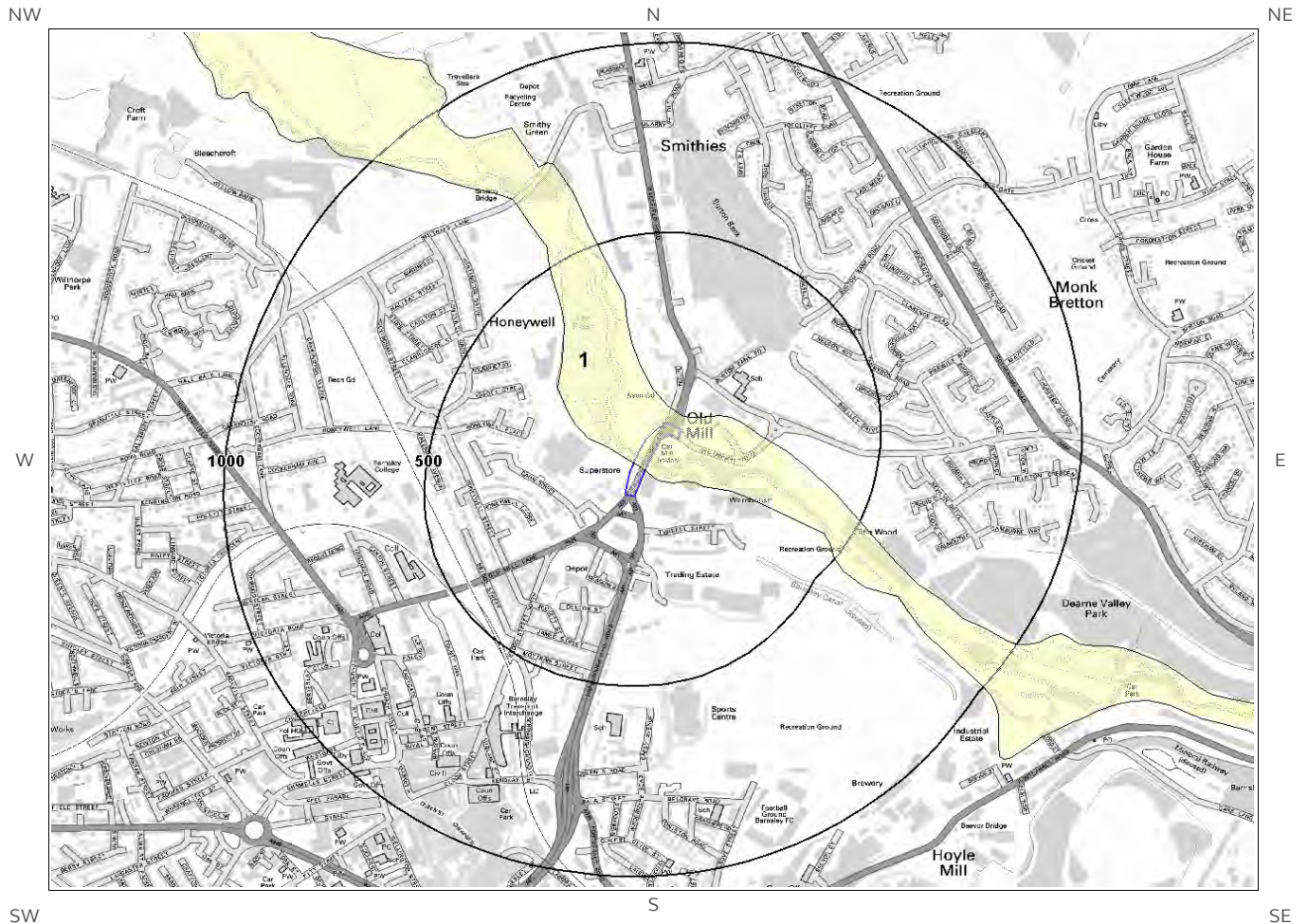
ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	33.0	E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	194.0	E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	257.0	SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	261.0	NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
5	456.0	SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	462.0	SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	496.0	N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
33.0	E	Mixed	Very High	Low

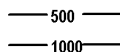
2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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Site Outline



Search Buffers (m)

2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Intergranular	Low	Very Low
22.0	NW	Intergranular	Low	Very Low

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

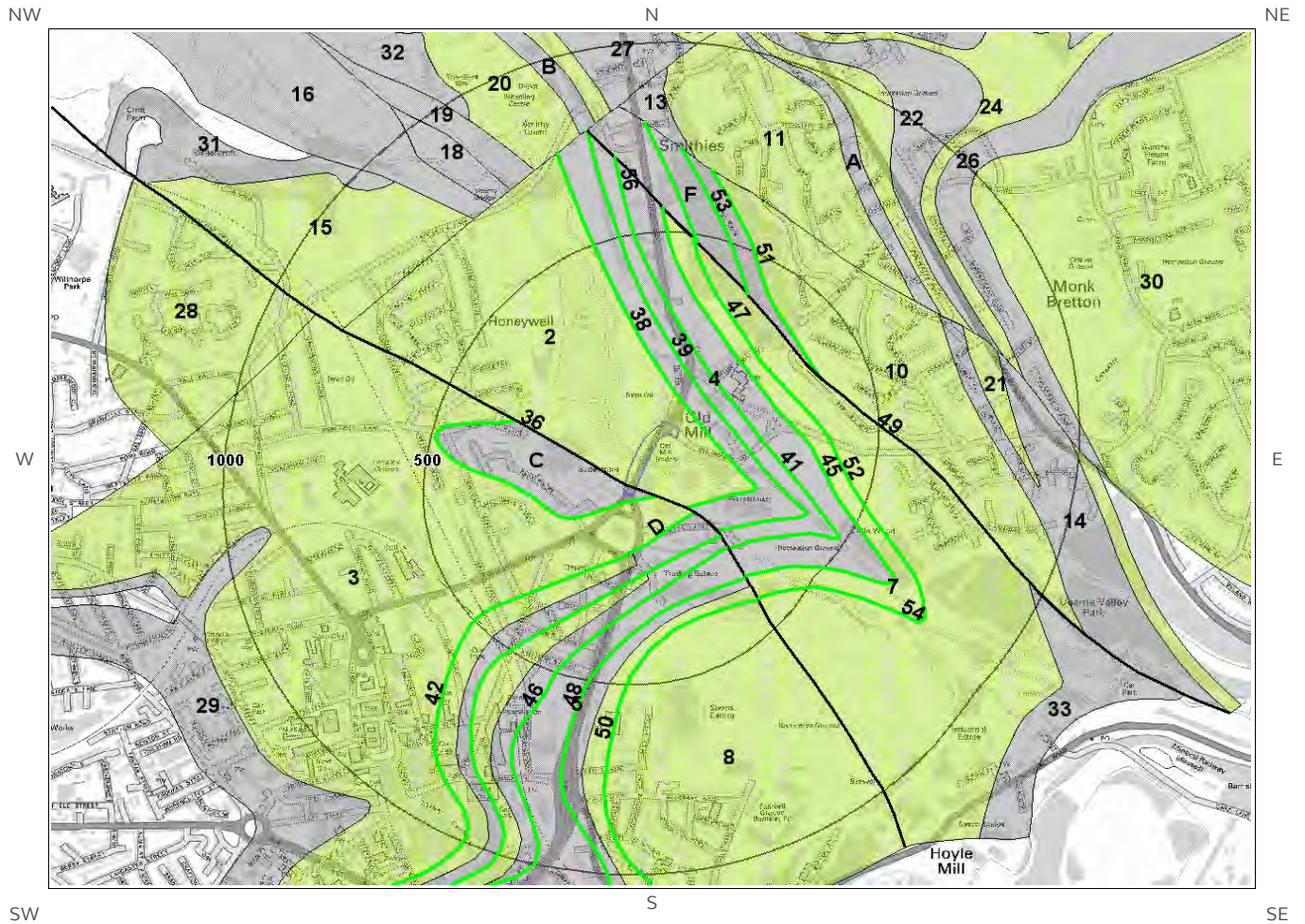
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

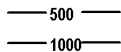
2.3 Bedrock and linear features map (1:50,000 scale)



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Site Outline



Search Buffers (m)

2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 087

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1C	0.0	On Site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	0.0	On Site	KNR-SDST	KENT'S ROCK - SANDSTONE	WESTPHALIAN
3	15.0	S	KNR-SDST	KENT'S ROCK - SANDSTONE	WESTPHALIAN
4	49.0	NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	126.0	SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6E	207.0	S	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	229.0	NE	WE-SDST	WOOLLEY EDGE ROCK - SANDSTONE	WESTPHALIAN
8	332.0	SE	WE-SDST	WOOLLEY EDGE ROCK - SANDSTONE	WESTPHALIAN
9F	356.0	NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	370.0	NE	WE-SDST	WOOLLEY EDGE ROCK - SANDSTONE	WESTPHALIAN

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	Moderate	Low
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	Moderate	Low
1.0	W	Fracture	High	Moderate
49.0	NE	Fracture	Moderate	Low

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary?

Yes

ID	Distance	Direction	Category Description	Feature Description
36	0.0	On Site	FAULT	Fault, inferred
37C	15.0	S	ROCK	Coal seam, inferred
38	49.0	NE	ROCK	Coal seam, inferred
39	104.0	NE	ROCK	Coal seam, inferred
40D	126.0	SE	ROCK	Coal seam, inferred
41	148.0	NE	ROCK	Coal seam, inferred
42	149.0	S	ROCK	Coal seam, inferred
43D	196.0	SE	ROCK	Coal seam, inferred
44E	207.0	S	ROCK	Coal seam, inferred
45	229.0	NE	ROCK	Coal seam, inferred
46	246.0	SE	ROCK	Coal seam, inferred
47	271.0	NE	ROCK	Coal seam, inferred
48	308.0	SE	ROCK	Coal seam, inferred
49	356.0	NE	FAULT	Fault, inferred
50	363.0	SE	ROCK	Coal seam, inferred
51	370.0	NE	ROCK	Coal seam, inferred
52	384.0	E	ROCK	Coal seam, inferred
53	392.0	NE	ROCK	Coal seam, inferred
54	413.0	SE	ROCK	Coal seam, inferred
55F	479.0	N	ROCK	Coal seam, inferred
56	496.0	N	ROCK	Coal seam, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3 Radon Data

3.1 Radon Affected Areas

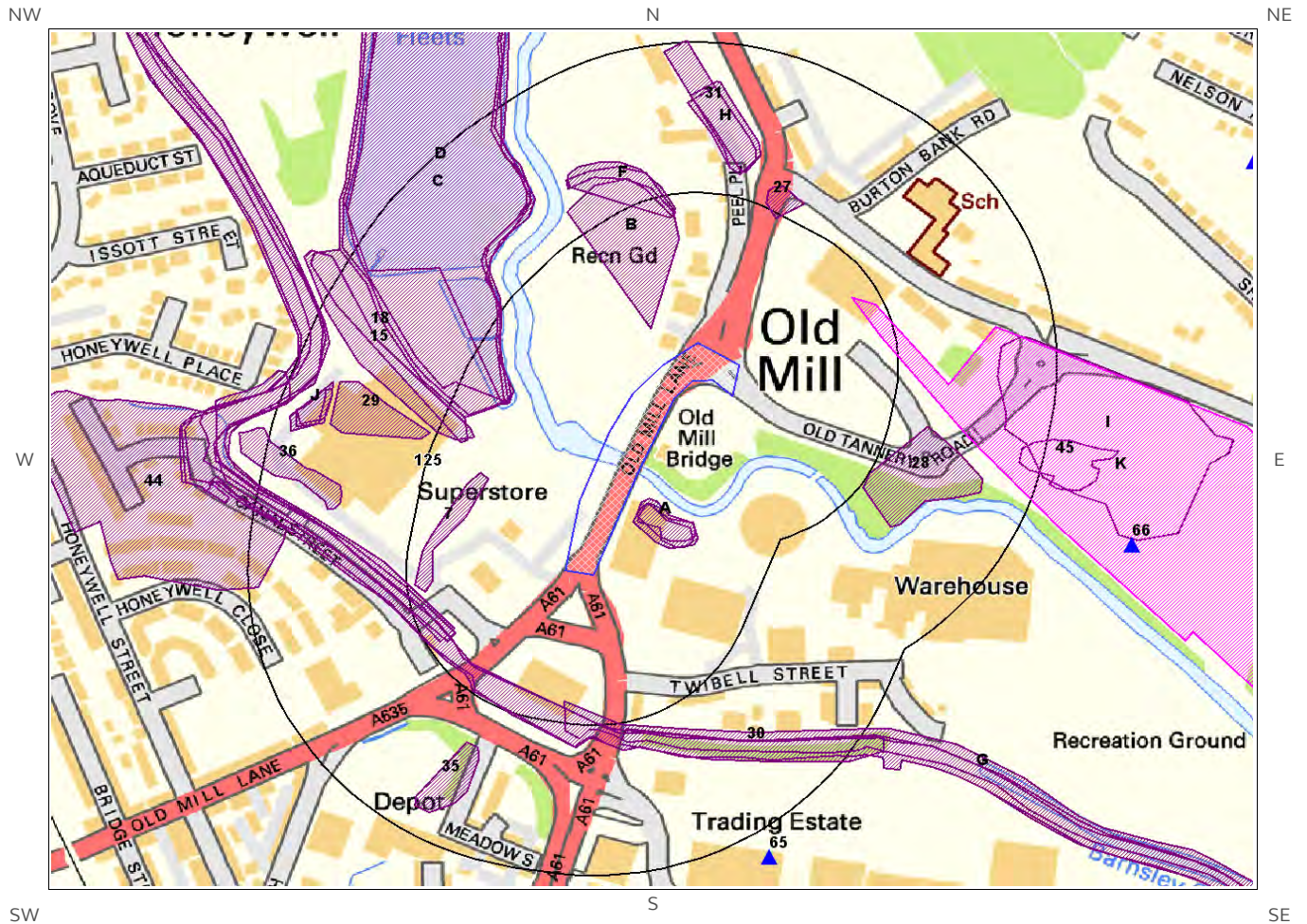
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

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.

3.2 Radon Protection

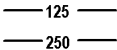
Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

4 Ground Workings map



Ground Workings Legend

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-  Site Outline
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground Workings
-  Search Buffers (m)
125
250

4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Use	Date
1A	12.0	E	435076 407197	Ponds	1951
2A	12.0	E	435074 407192	Ponds	1904
3A	15.0	E	435078 407192	Ponds	1948
4B	30.0	NW	435043 407418	Unspecified Pit	1992
5B	30.0	NW	435043 407418	Unspecified Pit	1974
6B	30.0	NW	435043 407418	Unspecified Pit	1982
7	74.0	W	434900 407186	Refuse Heap	1904
8D	83.0	NW	434899 407550	Ponds	1993
9C	84.0	NW	434897 407557	Ponds	1966
10C	84.0	NW	434897 407557	Ponds	1973
11C	84.0	NW	434897 407557	Ponds	1982
12D	84.0	NW	434892 407552	Ponds	1890
13C	86.0	NW	434889 407550	Water Body	1904
14C	86.0	NW	434889 407550	Ponds	1948
15	97.0	NW	434839 407342	Refuse Heap	1904
16	100.0	SW	434639 407835	Disused Canal	1966
17	101.0	SW	434769 407208	Ponds	1973
18	101.0	NW	434858 407341	Refuse Heap	1948
19E	102.0	SW	434762 407439	Canal	1948
20E	102.0	SW	434762 407439	Canal	1904
21E	103.0	SW	434759 407439	Canal	1890

ID	Distance (m)	Direction	NGR	Use	Date
22K	105.0	NE	435410 407214	Colliery	1948
23F	106.0	N	435042 407471	Unspecified Heap	1951
24F	107.0	N	435067 407470	Unspecified Ground Workings	1948
25G	107.0	S	436974 407501	Disused Canal	1966
26G	107.0	S	436974 407501	Canal	1951
27	120.0	NE	435170 407461	Cuttings	1951
28	126.0	SE	435278 407232	Unspecified Ground Workings	1966
29	130.0	NW	434851 407288	Refuse Heap	1948
30	131.0	S	435144 407009	Pond	1974
31	143.0	N	435120 407520	Cuttings	1890
32H	143.0	N	435120 407520	Cuttings	1948
33H	143.0	N	435120 407520	Cuttings	1904
34H	147.0	N	435123 407524	Cuttings	1951
35	162.0	SW	434904 406982	Unspecified Pit	1951
36	185.0	W	434781 407239	Ponds	1890
37I	203.0	E	435430 407265	Refuse Heap	1974
38I	203.0	E	435430 407265	Unspecified Disused Tip	1982
39I	203.0	E	435430 407265	Unspecified Disused Tip	1992
40J	212.0	W	434799 407290	Pond	1890
41J	212.0	W	434800 407294	Pond	1951
42J	215.0	W	434794 407288	Pond	1904
43J	215.0	W	434794 407288	Pond	1948
44	222.0	W	434673 407221	Dock	1948
45	232.0	E	435394 407242	Pond	1951

4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

ID	Distance (m)	Direction	NGR	Use	Date
46K	105.0	NE	435410 407214	Colliery	1948
Not shown	342.0	N	434987 407892	Colliery	1890
Not shown	515.0	N	435003 407854	Unspecified Old Shaft	1904
Not shown	531.0	N	434952 407979	Colliery	1904
Not shown	544.0	S	435027 406568	Colliery	1951
Not shown	546.0	S	435025 406567	Colliery	1948
Not shown	572.0	S	435046 406575	Unspecified Drift	1948
Not shown	579.0	S	435046 406567	Disused Air Shaft	1966
Not shown	582.0	SE	435647 407021	Unspecified Drift	1948
Not shown	608.0	S	435072 406541	Unspecified Drift	1951
Not shown	762.0	SE	435764 406872	Unspecified Old Shaft	1948
Not shown	762.0	SE	435764 406872	Unspecified Old Shaft	1904
Not shown	763.0	SE	435767 406877	Unspecified Old Shaft	1951
Not shown	773.0	SE	435776 406870	Unspecified Disused Shaft	1974
Not shown	773.0	SE	435776 406870	Unspecified Disused Shaft	1982
Not shown	773.0	SE	435776 406870	Unspecified Disused Shaft	1992
Not shown	781.0	N	434787 408318	Colliery	1904
Not shown	799.0	N	434786 408328	Colliery	1890
Not shown	863.0	N	434855 408510	Colliery	1904

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

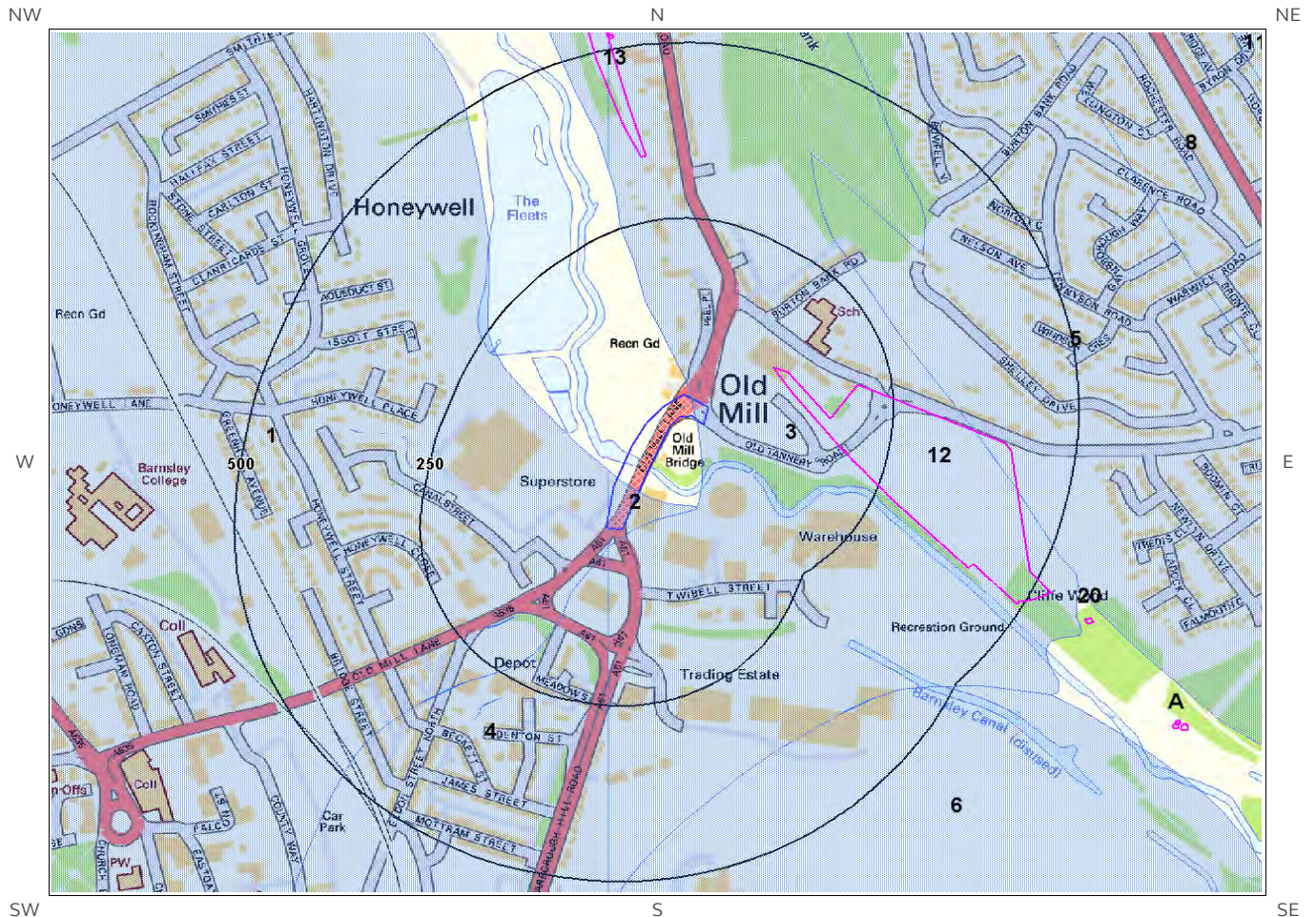
Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
65	272.0	SE	435157 406916	Coal, Deep	Mount Osborne Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
66	338.0	E	435443 407176	Coal, Deep	Mottram Wood Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
67	439.0	NE	435539 407495	Sandstone	Burton Bank	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	452.0	NE	435370 407711	Sandstone	Burton Bank	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	455.0	E	435589 407300	Sandstone	Old Shep Cote Gate	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	474.0	SE	435298 406768	Sandstone	Eaming Wood	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	474.0	NE	435296 407776	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	512.0	N	435288 407821	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	514.0	N	435242 407838	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	521.0	N	435006 407856	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	544.0	W	434467 407282	Coal, Deep	Honey Well Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	546.0	NE	435340 407835	Sandstone	Burton Bank	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

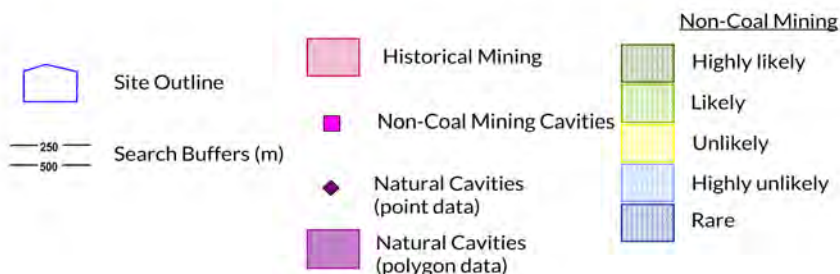
ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	588.0	N	435168 407928	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	593.0	N	435089 407937	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	616.0	NW	434611 407733	Coal, Deep	Gawber New Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	699.0	N	435016 408038	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	760.0	N	435121 408104	Coal, Deep	Wallsend Main Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	788.0	N	435157 408130	Sandstone	Smithies	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	848.0	W	434177 406937	Coal, Deep	Barnsley Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	912.0	NE	435923 407784	Sandstone	Monk Bretton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	967.0	S	435173 406196	Sandstone	Oakwell	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	986.0	N	434807 408285	Coal, Deep	Wharnccliffe Carlton Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

5 Mining, Extraction & Natural Cavities map



Mining, Extraction and Natural Cavities Legend

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5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

ID	Distance (m)	Direction	NGR	Details	Date
12	105.0	NE	435410 407214	Colliery	1948
13	342.0	N	434987 407892	Colliery	1890
14	515.0	N	435003 407854	Unspecified Old Shaft	1904
Not shown	531.0	N	434952 407979	Colliery	1904
Not shown	544.0	S	435027 406568	Colliery	1951
Not shown	546.0	S	435025 406567	Colliery	1948
Not shown	572.0	S	435046 406575	Unspecified Drift	1948
Not shown	579.0	S	435046 406567	Disused Air Shaft	1966
20	582.0	SE	435647 407021	Unspecified Drift	1948
Not shown	608.0	S	435072 406541	Unspecified Drift	1951
22A	762.0	SE	435764 406872	Unspecified Old Shaft	1904
23A	762.0	SE	435764 406872	Unspecified Old Shaft	1948
24A	763.0	SE	435767 406877	Unspecified Old Shaft	1951
25A	773.0	SE	435776 406870	Unspecified Disused Shaft	1974
26A	773.0	SE	435776 406870	Unspecified Disused Shaft	1982
27A	773.0	SE	435776 406870	Unspecified Disused Shaft	1992
Not shown	781.0	N	434787 408318	Colliery	1904
Not shown	799.0	N	434786 408328	Colliery	1890
Not shown	863.0	N	434855 408510	Colliery	1904

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

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

Distance (m)	Direction	Details
0.0	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.

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

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

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
1	0.0	On Site	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	0.0	On Site	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
3	0.0	On Site	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	27.0	S	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
5	273.0	NE	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
6	376.0	SE	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
Not shown	547.0	S	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
8	663.0	NE	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
Not shown	730.0	N	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
Not shown	757.0	S	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
11	877.0	NE	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

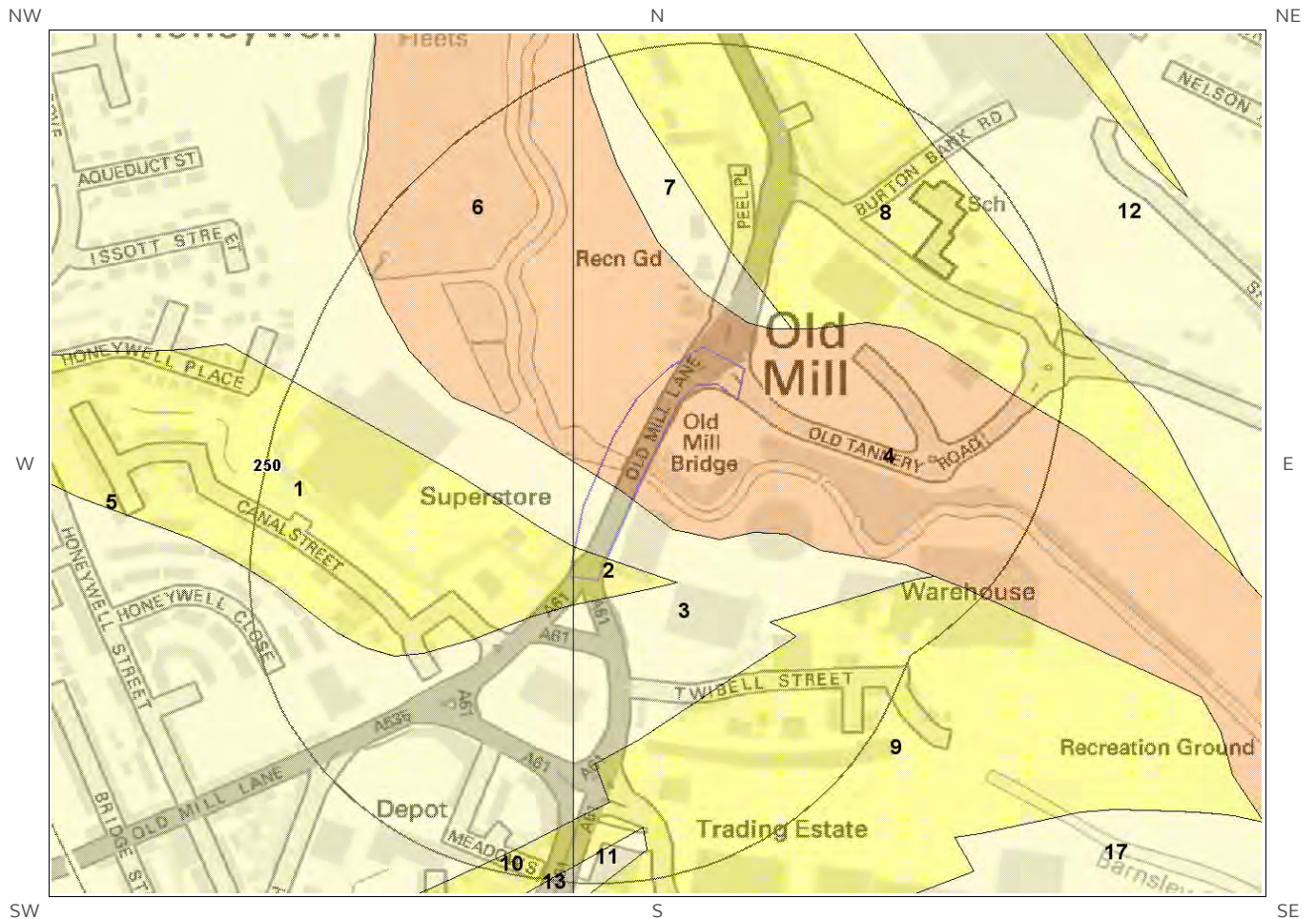
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

6 Natural Ground Subsidence

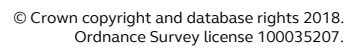
6.1 Shrink-Swell Clay map



Shrink Swell Clay Legend

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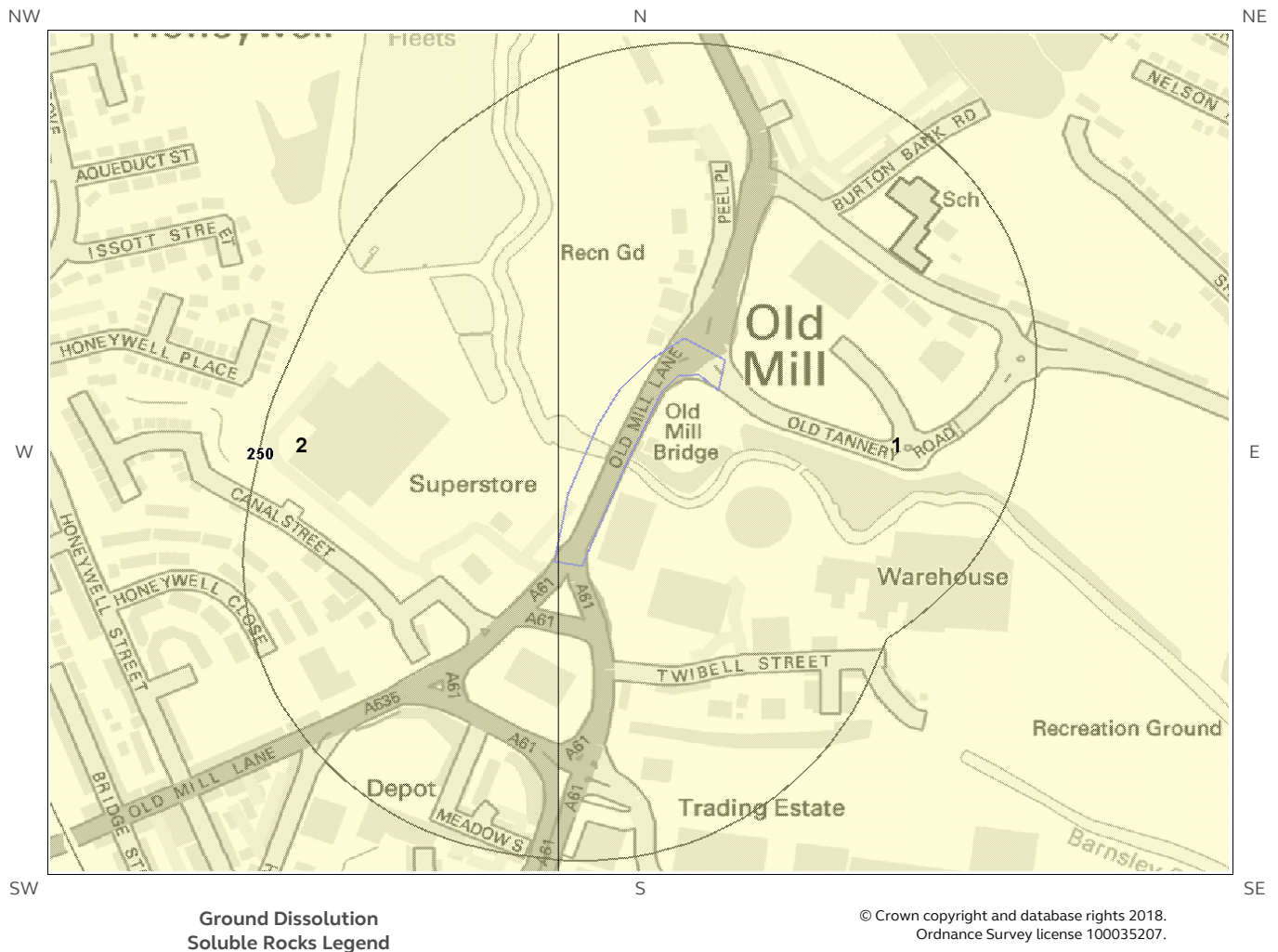


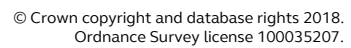
 Site Outline
  No Data / Null
  Low

 Search Buffers (m)
  Negligible
  Moderate

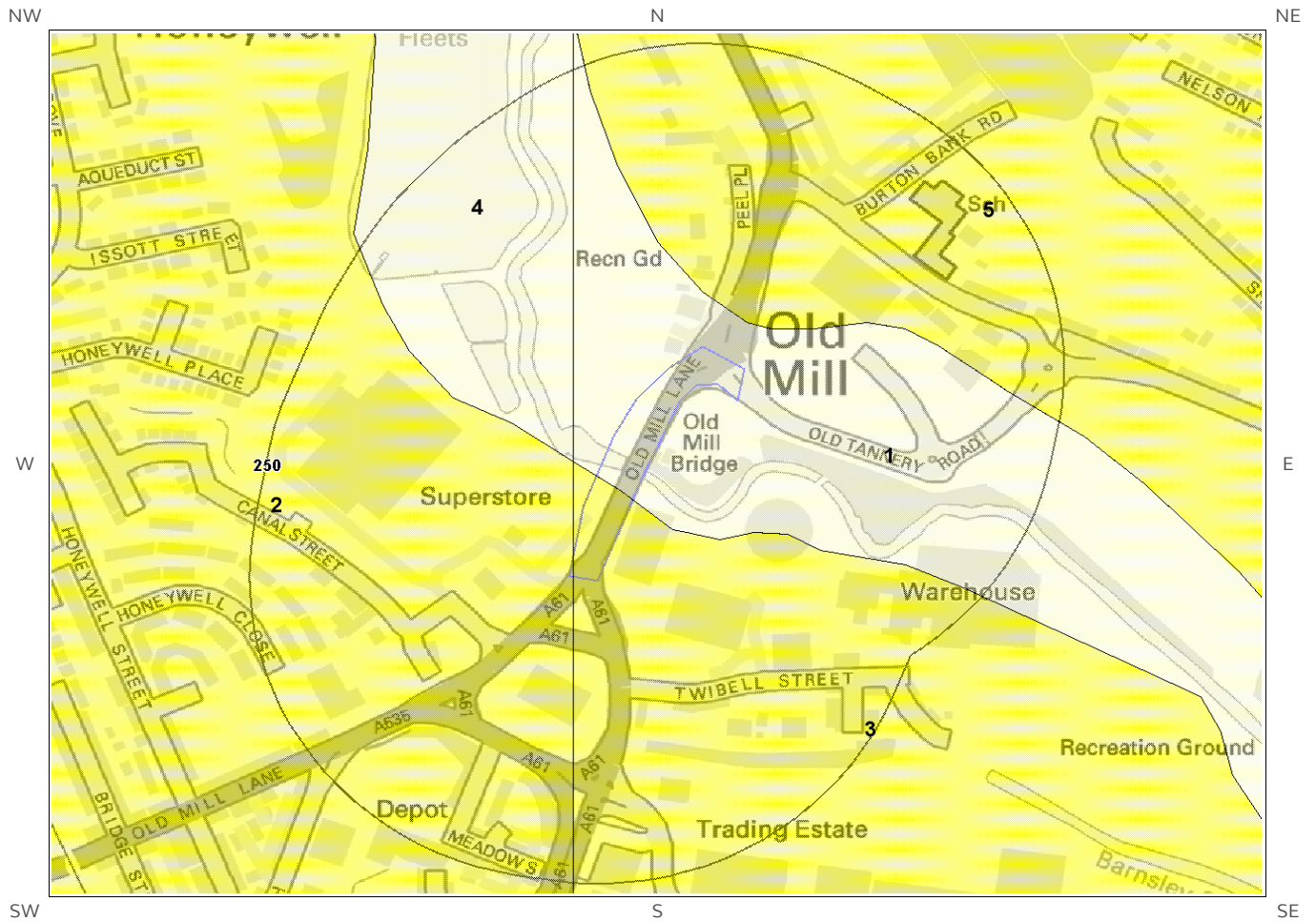
 Very Low
  High

6.3 Ground Dissolution of Soluble Rocks map





6.5 Collapsible Deposits map

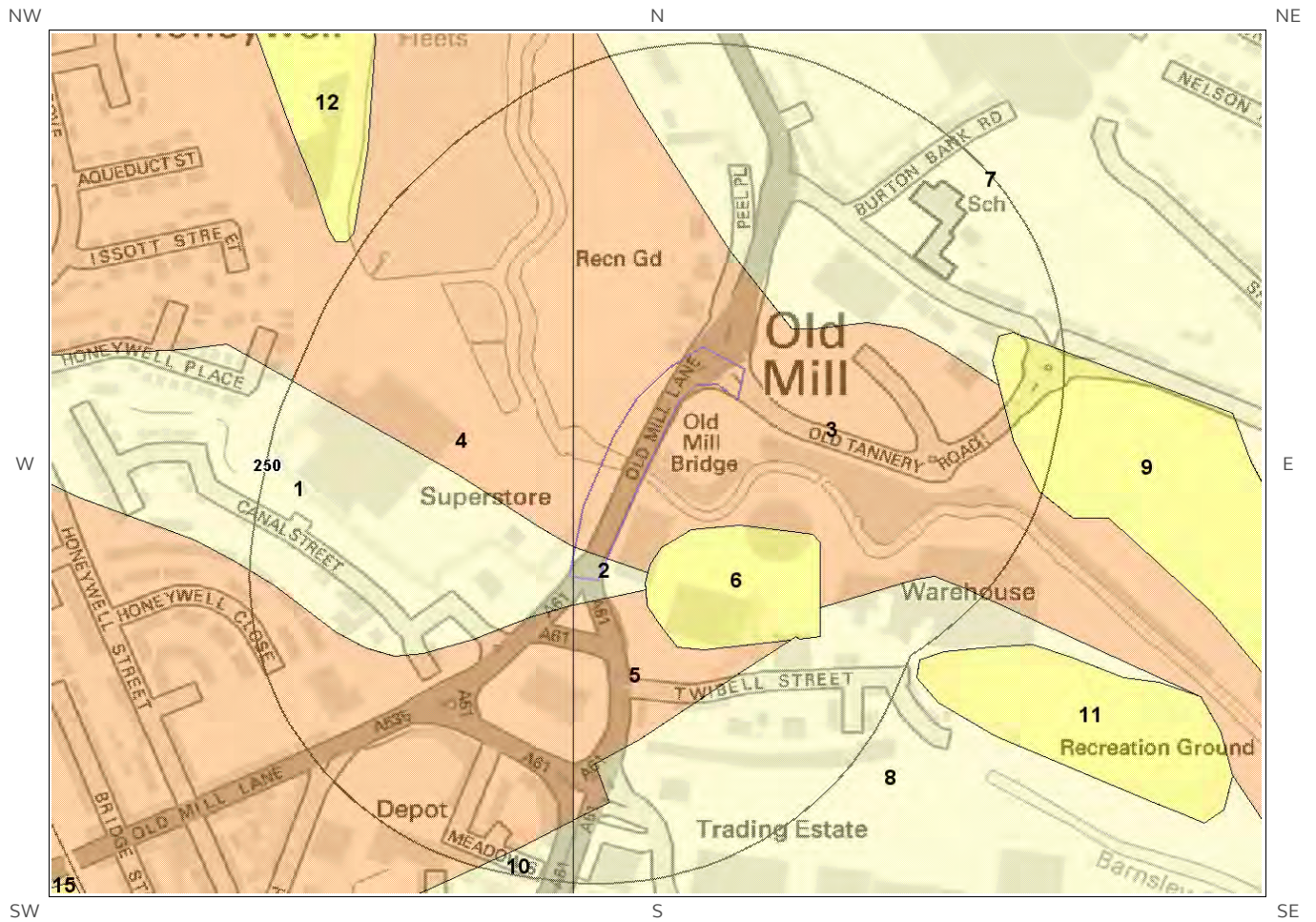


Collapsible Deposits Legend

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6.6 Running Sand map



Running Sand Legend

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6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site** boundary? Moderate

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	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.
2	0.0	On Site	Very Low	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.
3	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. 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 likely due to potential problems with shrink-swell clays.
4	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
5	1.0	W	Negligible	Ground conditions predominantly non-plastic. 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 likely due to potential problems with shrink-swell clays.

* This includes an automatically generated 50m buffer zone around the site

ID	Distance (m)	Direction	Hazard Rating	Details
6	22.0	NW	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
7	34.0	NE	Negligible	Ground conditions predominantly non-plastic. 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 likely due to potential problems with shrink-swell clays.
8	50.0	NE	Very Low	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.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
2	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
3	0.0	On Site	Very Low	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.

ID	Distance (m)	Direction	Hazard Rating	Details
4	0.0	On Site	Very Low	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.
5	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
6	6.0	S	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
7	6.0	E	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
8	22.0	NW	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	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.
2	0.0	On Site	Negligible	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.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	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.
2	0.0	On Site	Negligible	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.
3	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
4	22.0	NW	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
5	33.0	E	Very Low	Very low potential for compressible deposits to be present. 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.
6	34.0	NE	Negligible	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.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

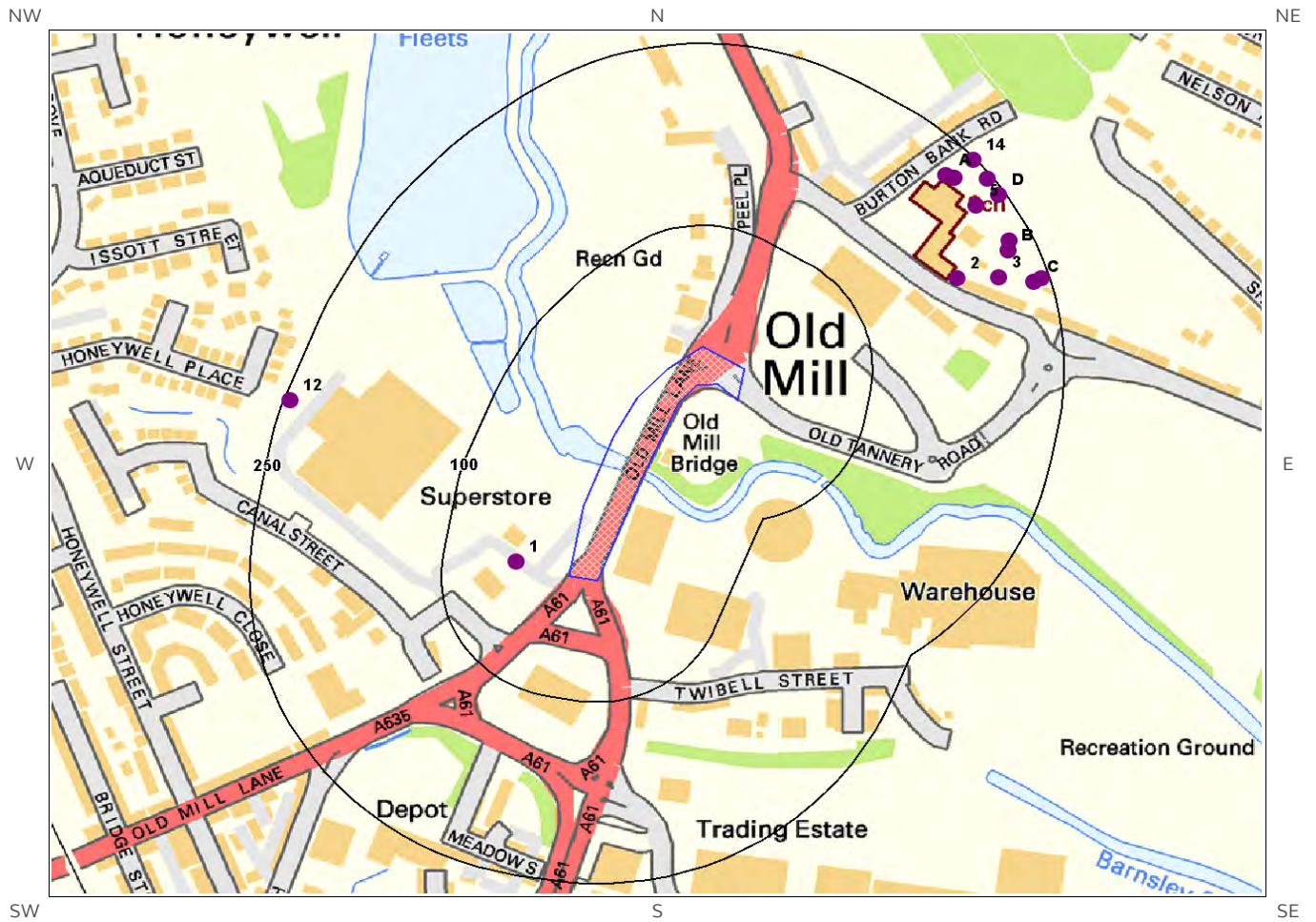
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Very Low	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.
3	0.0	On Site	Very Low	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.
4	22.0	NW	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
5	34.0	NE	Very Low	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.

6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

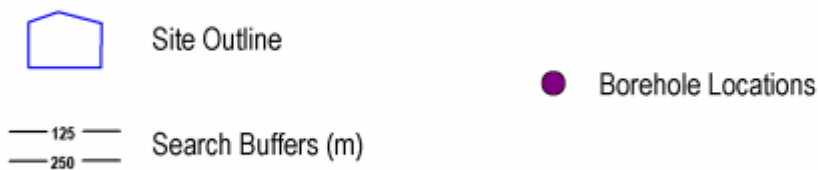
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	0.0	On Site	Negligible	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.
3	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
4	1.0	W	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
5	15.0	S	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
6	33.0	E	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
7	50.0	NE	Negligible	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.

7 Borehole Records map



Borehole Records Legend

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7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

14

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	43.0	W	434955 407166	SE30NW21	119.18	WELL AT PAPER MILLS OLD MILL LANE
2	182.0	NE	435300 407400	SE30NE121	3.0	BURTON BANK ROAD TP 5
3	213.0	E	435333 407401	SE30NE150	20.0	BURTON BANK ROAD 18
4A	224.0	NE	435291 407485	SE30NE147	20.0	BURTON BANK ROAD 15
5	225.0	NE	435315 407460	SE30NE148	20.0	BURTON BANK ROAD 16
6A	227.0	NE	435298 407483	SE30NE122	5.0	BURTON BANK ROAD TP 6
7B	228.0	NE	435340 407423	SE30NE128	4.0	BURTON BANK ROAD TP 12
8B	232.0	NE	435341 407431	SE30NE149	20.0	BURTON BANK ROAD 17
9C	237.0	E	435360 407397	SE30NE151	20.0	BURTON BANK ROAD 19
10C	243.0	E	435366 407400	SE30NE131	4.0	BURTON BANK ROAD TP 15
11D	245.0	NE	435333 407469	SE30NE129	4.0	BURTON BANK ROAD TP 13
12	246.0	W	434778 407299	SE30NW46	445.32	AQUEDUCT STREET BARNSELY
13D	246.0	NE	435324 407482	SE30NE140	20.0	BURTON BANK ROAD 8
14	248.0	NE	435313 407498	SE30NE139	20.0	BURTON BANK ROAD 7

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/83874
#2: scans.bgs.ac.uk/sobi_scans/boreholes/83637
#3: scans.bgs.ac.uk/sobi_scans/boreholes/83666
#4A: scans.bgs.ac.uk/sobi_scans/boreholes/83663
#5: scans.bgs.ac.uk/sobi_scans/boreholes/83664
#6A: scans.bgs.ac.uk/sobi_scans/boreholes/83638
#7B: scans.bgs.ac.uk/sobi_scans/boreholes/83644
#8B: scans.bgs.ac.uk/sobi_scans/boreholes/83665
#9C: scans.bgs.ac.uk/sobi_scans/boreholes/83667
#10C: scans.bgs.ac.uk/sobi_scans/boreholes/83647
#11D: scans.bgs.ac.uk/sobi_scans/boreholes/83645
#12: scans.bgs.ac.uk/sobi_scans/boreholes/83912
#13D: scans.bgs.ac.uk/sobi_scans/boreholes/83656
#14: scans.bgs.ac.uk/sobi_scans/boreholes/83655

8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

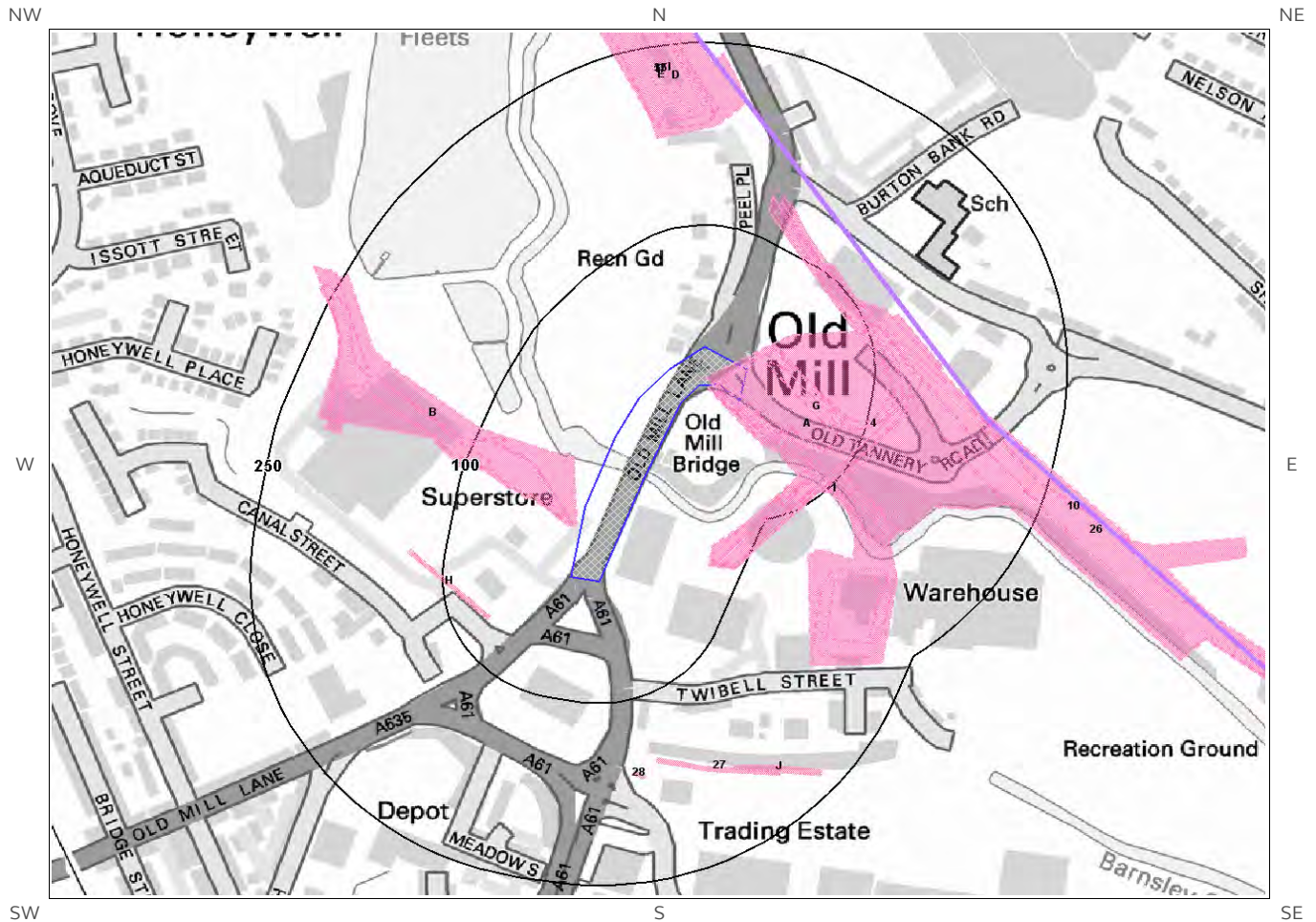
10

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	RuralSoil	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
0.0	On Site	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
8.0	SE	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
17.0	NW	RuralSoil	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
24.0	SW	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
27.0	S	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
29.0	S	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
30.0	S	RuralSoil	15 - 25 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg

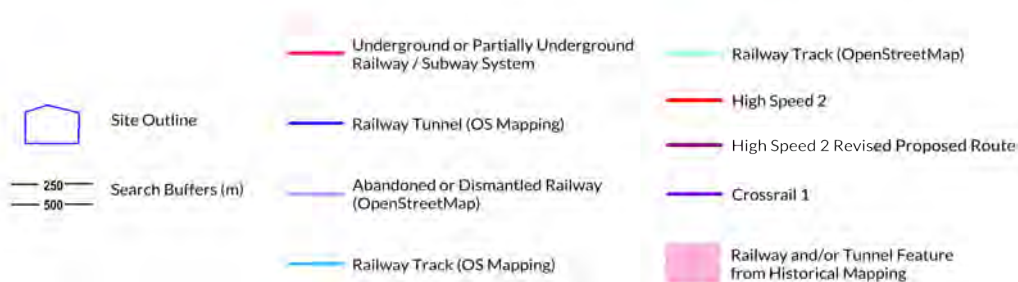
*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
1	0	On Site	435343 407254	Railway Sidings	1938
2A	0	On Site	435148 407314	Railway Sidings	1948
3A	0	On Site	435148 407314	Railway Sidings	1904
4	0	On Site	435231 407275	Railway Sidings	1966
5	0	On Site	435188 407223	Railway Sidings	1951
6G	0	On Site	435148 407314	Railway Sidings	1890

ID	Distance (m)	Direction	NGR	Details	Date
18F	0	On Site	435248 407341	Railway Sidings	1960
19F	0	On Site	435250 407338	Railway Sidings	1960
20G	0	On Site	435243 407333	Railway Sidings	1892
21G	0	On Site	435243 407333	Railway Sidings	1906
22G	0	On Site	435114 407309	Railway Sidings	1929
7B	3	W	434849 407300	Railway Sidings	1951
8	5	W	434815 407303	Railway Sidings	1948
9B	10	W	434815 407298	Railway Sidings	1938
23B	13	W	434815 407296	Railway Sidings	1929
24H	70	SW	434902 407149	Railway Sidings	1960
25H	71	SW	434902 407149	Railway Sidings	1960
10	105	NE	435382 407216	Railway Sidings	1948
26	109	E	435380 407207	Railway Sidings	1929
27	152	S	435112 406999	Railway Sidings	1906
11C	158	SE	435194 407125	Railway Sidings	1938
28	158	S	435050 406992	Railway Sidings	1960
12C	160	E	435216 407126	Railway Sidings	1948
29C	162	SE	435193 407125	Railway Sidings	1929
13D	175	N	435033 407677	Railway Sidings	1966
14D	175	N	435033 407677	Railway Sidings	1951
15E	181	N	434984 407765	Railway Sidings	1904
16E	181	N	434984 407765	Railway Sidings	1948
30J	184	SE	435158 406996	Railway Sidings	1961
31I	186	N	435061 407626	Disused Railway Sidings	1962
32I	186	N	435059 407631	Disused Railway Sidings	1960
33J	186	SE	435160 406996	Railway Sidings	1960
17	187	N	434981 407818	Railway Sidings	1938
34D	187	N	435037 407672	Railway Sidings	1906
35	188	N	434997 407767	Railway Sidings	1929

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Status
128	NE	Dismantled

Multiple sections of the same track may be listed in the detail above

Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above

Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? Yes

Is the study site within 500m of the route of the Crossrail 1 rail project? No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

Contact Details

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Standard Terms and Conditions

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<https://www.groundsure.com/terms-and-conditions-sept-2016/>



Ove Arup & Partners International Ltd
3 St Paul's Place, Norfolk Street,
Sheffield, S1 2JE

Groundsure Reference: GS-4670516

Your Reference: 253511-00

Report Date 18 Jan 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: PUBLIC OPEN SPACE, OLD MILL LANE, BARNSELEY, S71 1LL

Dear Sir/ Madam,

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

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

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: PUBLIC OPEN SPACE, OLD MILL LANE, BARNSELEY, S71 1LL

Date: 18 Jan 2018

Reference: GS-4670516

Client: Ove Arup & Partners International Ltd

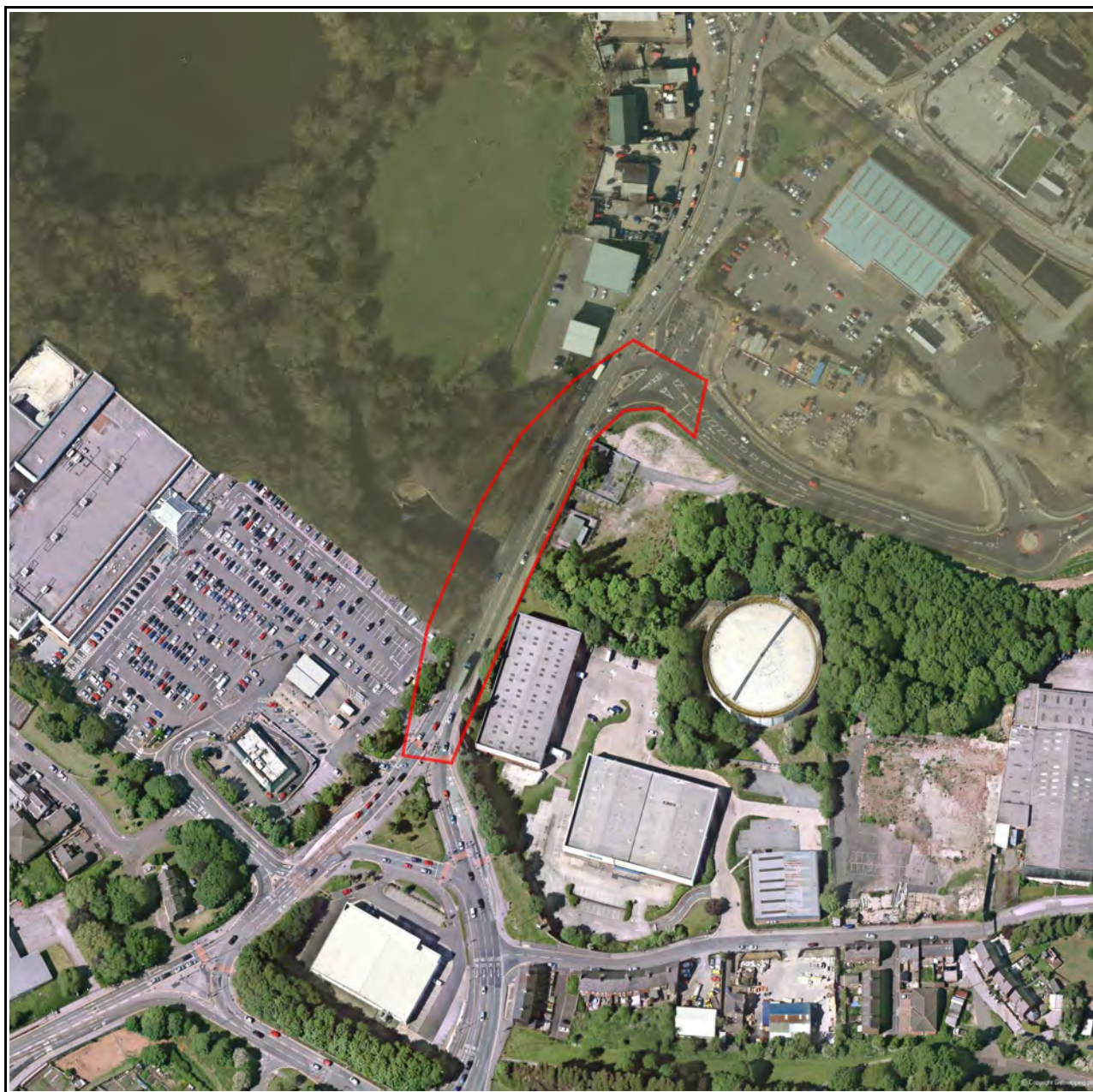
NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 26-Mar-2012

Grid Reference: 435038,407240

Site Size: 0.69ha

Report Reference: GS-4670516

Client Reference: 253511-00

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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	28	17	80	109
1.2 Additional Information – Historical Tank Database	3	8	25	13
1.3 Additional Information – Historical Energy Features Database	4	2	11	14
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	6	4
1.6 Potentially Infilled Land	0	7	52	80

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	1	0	1
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	2	0	5	1
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	2	0
2.2 Records of COMAH and NIHHS sites	1	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	2	3	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/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	1	4	3	7	9
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	1
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	1	0	3	2
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	5	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	2	0	8	2

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	3	17	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	1	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology						
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes					
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes					
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.						

Section 6: Hydrogeology and Hydrology	0-500m					
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes					
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	1	4
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	4	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	4
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	0	Not searched	Not searched

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	Yes	No	Yes	No
6.10 Detailed River Network entries within 500m of the site	1	0	0	1	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	No	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?	Yes					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Yes					
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	High					
7.4 Are there any Flood Defences within 250m of the study site?	Yes					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	Yes					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface					
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Low					

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
8.7 Records of Local Nature Reserves (LNR)	0	0	1	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	0
8.14 Records of Green Belt land	1	0	0	0	0	0

Section 9: Natural Hazards	
9.1 What is the maximum risk of natural ground subsidence?	Moderate
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	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?	Moderate
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?	Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is 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?	Yes
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	Yes
10.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

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

1. Historical Industrial Sites

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

2. Environmental Permits, Incidents and Registers

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

3. Landfills and Other Waste Sites

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

4. Current Land Uses

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

5. Geology

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

6. Hydrogeology and Hydrology

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

7. Flooding

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

8. Designated Environmentally Sensitive Sites

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

9. Natural Hazards

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

10. Mining

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

11. Contacts

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

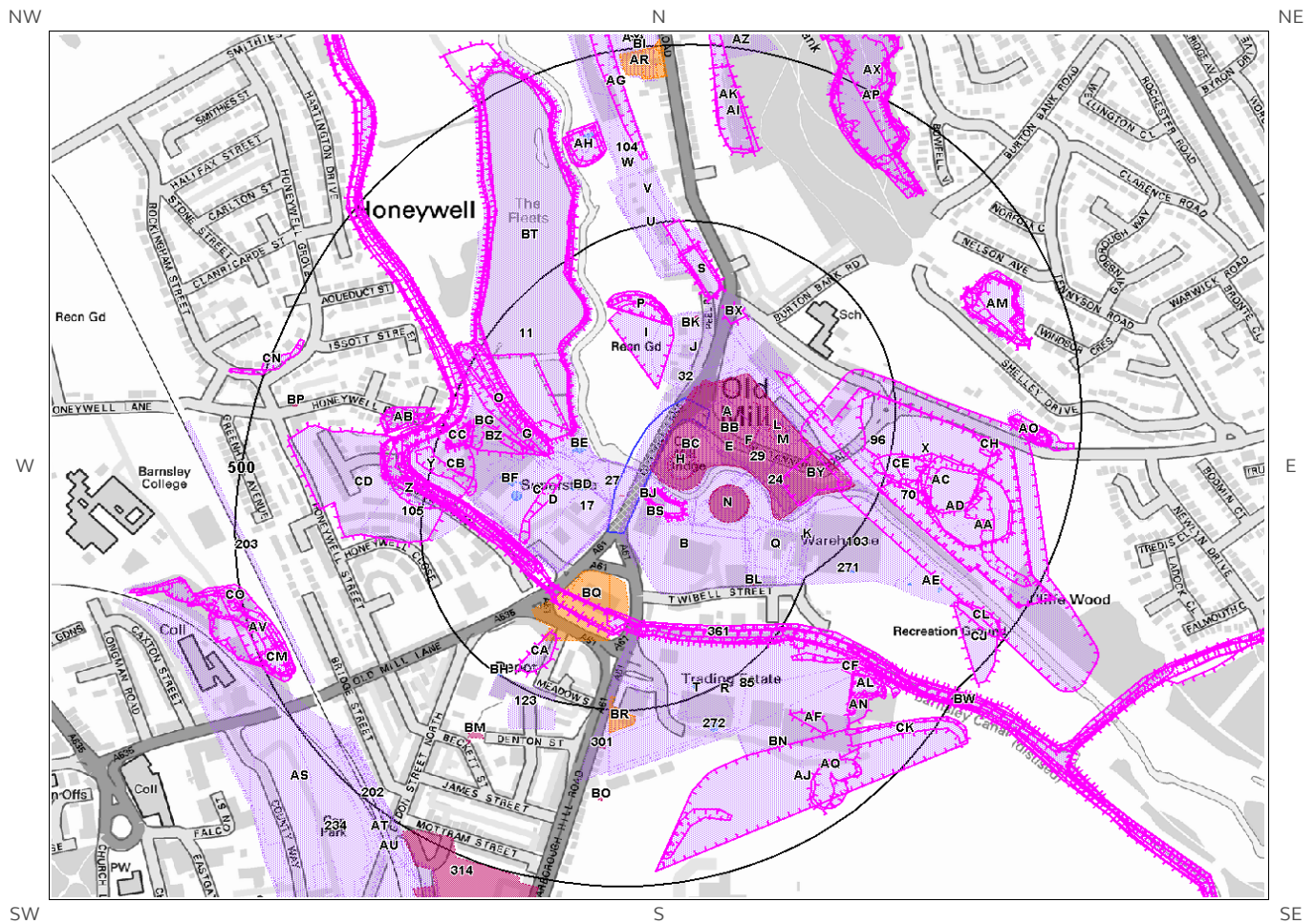
Note: Maps

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

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

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

1. Historical Land Use



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1. Historical Industrial Sites

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

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

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 234

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Unspecified Depot	1982
2A	0	On Site	Unspecified Depot	1992
3BB	0	On Site	Unspecified Old Mill	1951
4F	0	On Site	Unspecified Works	1966
5M	0	On Site	Railway Sidings	1966
6	0	On Site	Railway Sidings	1951
7BS	0	On Site	Unspecified Works	1966
8D	0	On Site	Paper Works	1951
9B	0	On Site	Unspecified Mill	1992
10B	0	On Site	Unspecified Mills	1982
11	0	On Site	Paper Works	1948
12A	0	On Site	Unspecified Depot	1974
13C	0	On Site	Unspecified Mill	1982
14C	0	On Site	Unspecified Mill	1973
15D	0	On Site	Paper Works	1938
16D	0	On Site	Paper Works	1904
17	0	On Site	Tannery	1890
18E	0	On Site	Gas Works	1904
19E	0	On Site	Unspecified Commercial/Industrial	1948
20BJ	0	On Site	Tannery	1890
21E	0	On Site	Unspecified Old Mill	1938
22F	0	On Site	Railway Sidings	1904
23E	0	On Site	Railway Sidings	1948
24	0	On Site	Railway Sidings	1938
25F	0	On Site	Railway Sidings	1890
26F	0	On Site	Unspecified Old Mill	1890
27	0	On Site	Oil Mill	1850
28C	0	W	Unspecified Mill	1966
29	1	SE	Unspecified Old Mill	1974
30G	3	W	Railway Sidings	1951
31G	5	W	Railway Sidings	1948
32	6	NW	Unspecified Old Mill	1850
33G	10	W	Railway Sidings	1938

34H	11	SE	Unspecified Tank	1951
35H	11	SE	Gas Holder	1974
36H	11	SE	Unspecified Tank	1966
37J	11	N	Police Station	1890
38H	13	SE	Unspecified Tank	1948
39H	13	SE	Unspecified Tank	1890
40H	13	SE	Gasometer	1904
41H	15	SE	Unspecified Tank	1938
42BC	28	SW	Unspecified Tank	1938
43I	30	NW	Unspecified Pit	1974
44I	30	NW	Unspecified Pit	1982
45I	30	NW	Unspecified Pit	1992
46J	60	N	Unspecified Old Mill	1850
47J	61	N	Unspecified Pump	1850
48K	67	S	Unspecified Mill	1992
49K	67	S	Unspecified Old Mill	1982
50C	74	W	Refuse Heap	1904
51L	78	E	Unspecified Tank	1951
52L	78	E	Unspecified Tank	1966
53M	79	E	Unspecified Tank	1890
54L	79	E	Gasometer	1904
55L	79	E	Unspecified Tank	1948
56L	81	E	Unspecified Tank	1938
57BK	81	N	Unspecified Old Mill	1850
58N	87	S	Gas Holder	1974
59N	87	S	Gas Holder	1982
60N	87	S	Gas Holder	1992
61N	87	S	Unspecified Tank	1966
62O	97	NW	Refuse Heap	1904
63BU	100	SW	Disused Canal	1966
64O	101	NW	Refuse Heap	1948
65O	101	NW	Refuse Heaps	1938
66O	101	NW	Refuse Heaps	1938
67P	104	N	Unspecified Heap	1938
68P	104	N	Unspecified Heap	1938
69AC	105	NE	Colliery	1948
70	105	NE	Railway Sidings	1948
71P	106	N	Unspecified Heap	1951
72P	107	N	Unspecified Ground Workings	1948
73BW	107	S	Disused Canal	1966
74BX	120	NE	Cuttings	1951
75BY	126	SE	Unspecified Ground Workings	1966
76AD	127	E	Disused Colliery	1951
77BZ	130	NW	Refuse Heap	1948

78R	134	S	Glass Works	1951
79Q	136	SE	Sawmills	1951
80Q	137	SE	Sawmills	1904
81Q	137	SE	Sawmills	1948
82Q	137	SE	Sawmills	1938
83Q	139	SE	Unspecified Works	1966
84R	140	S	Glass Works	1938
85	141	S	Glass Works	1948
86T	141	S	Glass Works	1904
87S	143	N	Cuttings	1948
88S	143	N	Cuttings	1904
89S	143	N	Cuttings	1890
90T	144	S	Unspecified Works	1966
91S	145	N	Cuttings	1938
92S	147	N	Cuttings	1951
93Q	158	SE	Railway Sidings	1938
94Q	160	E	Railway Sidings	1948
95CA	162	SW	Unspecified Pit	1951
96	171	E	Unspecified Old Mill	1966
97U	172	N	Unspecified Works	1992
98U	172	N	Unspecified Works	1982
99V	175	N	Railway Sidings	1966
100V	175	N	Railway Sidings	1951
101W	181	N	Railway Sidings	1948
102W	181	N	Railway Sidings	1904
103	182	SE	Unspecified Factory	1974
104	187	N	Railway Sidings	1938
105	188	W	Dock Yard	1850
106Y	191	W	Dock	1951
107U	193	N	Railway Buildings	1938
108X	203	E	Unspecified Disused Tip	1992
109X	203	E	Unspecified Disused Tip	1982
110X	203	E	Refuse Heap	1974
111Y	204	W	Dock	1938
112CB	204	W	Dock	1938
113U	215	N	Railway Building	1904
114U	215	N	Railway Building	1948
115U	217	N	Railway Building	1966
116U	217	N	Railway Building	1951
117R	220	SE	Colliery	1850
118CD	222	W	Dock	1948
119Z	231	W	Dock Works	1948
120Z	231	W	Dock Works	1951
121Z	232	W	Dock Works	1938
122Z	234	W	Unspecified Works	1966
123	239	S	Unspecified Depot	1993

124AA	247	E	Colliery	1938
125AA	247	E	Colliery	1938
126AB	264	NW	Unspecified Ground Workings	1938
127AB	264	NW	Unspecified Ground Workings	1938
128AB	268	NW	Unspecified Ground Workings	1904
129AB	268	NW	Unspecified Ground Workings	1948
130Z	269	W	Dock	1938
131Z	269	W	Dock	1938
132AB	269	NW	Unspecified Pit	1951
133CF	285	SE	Unspecified Ground Workings	1974
134AC	288	E	Unspecified Ground Workings	1966
135AD	297	E	Refuse Heap	1951
136AD	313	E	Refuse Heap	1948
137AE	336	SE	Unspecified Warehouse	1992
138AE	336	SE	Unspecified Warehouse	1982
139AF	339	SE	Unspecified Ground Workings	1974
140AF	339	SE	Unspecified Ground Workings	1966
141AG	342	N	Railway Sidings	1890
142AG	342	N	Colliery	1890
143AH	354	N	Old Sewage Works	1948
144AH	354	N	Sewage Works	1904
145AH	354	N	Old Sewage Works	1938
146AH	354	N	Old Sewage Works	1938
147AI	354	N	Unspecified Heap	1982
148AI	354	N	Unspecified Heap	1992
149AJ	355	SE	Unspecified Heap	1938
150AJ	355	SE	Unspecified Heap	1938
151AH	358	N	Old Sewage Works	1951
152AH	358	N	Unspecified Commercial/Industrial	1966
153AK	359	N	Unspecified Heap	1974
154AK	359	N	Unspecified Heap	1966
155AL	364	SE	Refuse Heap	1951
156AL	366	SE	Refuse Heap	1948
157AL	367	SE	Refuse Heap	1938
158AL	367	SE	Refuse Heap	1938
159CH	368	E	Unspecified Heap	1966
160AA	370	E	Refuse Heap	1938
161AA	370	E	Refuse Heap	1938
162AH	371	N	Unspecified Tank	1938
163AM	372	E	Old Sandstone Quarry	1850

164AH	373	N	Unspecified Tank	1948
165AM	374	E	Unspecified Old Quarry	1890
166AM	374	NE	Unspecified Ground Workings	1951
167AM	376	NE	Refuse Heap	1904
168AM	376	NE	Unspecified Heap	1948
169AH	376	N	Unspecified Tank	1951
170AM	377	NE	Unspecified Ground Workings	1938
171AM	377	NE	Unspecified Ground Workings	1938
172AM	382	E	Unspecified Ground Workings	1966
173AN	387	SE	Unspecified Heap	1974
174AN	387	SE	Unspecified Heap	1966
175AM	395	NE	Unspecified Pits	1948
176AM	395	NE	Unspecified Pits	1904
177AQ	400	SE	Sandstone Quarry	1850
178AO	401	E	Old Sandstone Quarry	1850
179CI	402	S	Unspecified Ground Workings	1904
180AO	402	E	Unspecified Ground Workings	1966
181AP	402	NE	Unspecified Disused Quarry	1966
182AP	402	NE	Unspecified Disused Quarry	1992
183AP	402	NE	Unspecified Disused Quarry	1974
184AP	402	NE	Unspecified Disused Quarry	1982
185AO	403	E	Unspecified Old Quarry	1890
186AO	403	E	Unspecified Pit	1904
187AP	408	NE	Unspecified Quarry	1890
188AP	413	NE	Unspecified Quarry	1938
189AP	413	NE	Unspecified Quarry	1948
190AP	416	NE	Unspecified Quarry	1951
191CJ	416	SE	Unspecified Heap	1974
192CK	417	SE	Unspecified Ground Workings	1904
193CL	418	SE	Unspecified Heap	1992
194AQ	421	SE	Unspecified Quarry	1890
195AQ	424	SE	Unspecified Quarry	1904
196AO	429	E	Unspecified Pit	1938
197AO	429	E	Unspecified Pit	1938
198AO	431	E	Unspecified Pit	1948
199AO	432	E	Unspecified Pit	1951
200AG	441	N	Railway Sidings	1951
201AX	441	NE	Unspecified Quarry	1904
202	443	SW	Railway Sidings	1993

203	445	SW	Railway Sidings	1890
204AS	448	SW	Railway Sidings	1966
205AR	451	N	Garage	1992
206AR	451	N	Garage	1982
207AS	452	SW	Railway Sidings	1951
208AU	454	SW	Railway Sidings	1890
209AT	454	SW	Railway Sidings	1973
210AT	454	SW	Railway Sidings	1982
211AU	456	SW	Railway Sidings	1948
212AS	456	SW	Railway Sidings	1938
213AU	459	SW	Railway Sidings	1904
214AV	460	W	Unspecified Heap	1966
215AV	460	W	Unspecified Heap	1973
216AV	462	SW	Unspecified Ground Workings	1951
217CM	462	SW	Unspecified Heap	1982
218AV	466	SW	Unspecified Ground Workings	1938
219AV	466	SW	Unspecified Ground Workings	1938
220CN	467	NW	Unspecified Ground Workings	1904
221AW	467	W	Unspecified Ground Workings	1850
222AW	468	SW	Unspecified Quarry	1890
223AR	469	N	Garage	1974
224AX	471	NE	Sandstone Quarry	1850
225AV	472	W	Unspecified Ground Workings	1948
226AV	472	W	Unspecified Ground Workings	1904
227AY	474	N	Unspecified Depot	1992
228AY	474	N	Unspecified Depot	1982
229AZ	479	N	Unspecified Depot	1992
230AZ	479	N	Unspecified Depot	1982
231BA	492	N	Unspecified Depot	1966
232BA	492	N	Unspecified Depot	1974
233CO	497	W	Unspecified Heap	1982
234	499	SW	Railway Sidings	1850

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:

49

ID	Distance (m)	Direction	Use	Date
235A	0	On Site	Gas Board Depot	1973
236BB	0	On Site	Gas Works	1892
237E	0	On Site	Gas Works	1906
238H	15	SE	Unspecified Tank	1906
239H	15	SE	Gasometer	1892
240H	18	SE	Gas Holder	1973
241H	18	SE	Unspecified Tank	1960
242H	19	SE	Unspecified Tank	1960
243BC	25	SW	Unspecified Tank	1960
244BC	25	SW	Unspecified Tank	1960
245BD	42	W	Unspecified Tank	1970
246BD	55	W	Unspecified Tank	1970
247BE	59	NW	Tanks	1970
248BE	59	NW	Tanks	1981
249BE	59	NW	Tanks	1979
250L	84	E	Gasometer	1892
251L	84	E	Gasometer	1906
252N	84	S	Unspecified Tank	1960
253N	85	S	Gasholder	1982
254N	85	S	Unspecified Tank	1960
255N	85	S	Gas Holder	1973
256N	85	S	Gasholder	1994
257L	89	E	Unspecified Tank	1960
258L	89	E	Unspecified Tank	1960
259C	123	W	Unspecified Tank	1970
260C	123	W	Unspecified Tank	1960
261C	123	W	Unspecified Tank	1960
262C	124	W	Unspecified Tank	1970
263BF	133	W	Tanks	1970
264BF	149	W	Tanks	1970
265BG	196	NW	Unspecified Tank	1989
266BG	196	NW	Unspecified Tank	1991
267T	234	SE	Unspecified Tank	1892
268BH	246	SW	Unspecified Tank	1972
269BH	246	SW	Unspecified Tank	1987
270BH	247	SW	Unspecified Tank	1986
271	274	SE	Tanks	1994
272	294	SE	Unspecified Tank	1892
273AE	351	SE	Unspecified Tank	1960
274AE	351	SE	Unspecified Tank	1960
275AE	387	SE	Tanks	1973

276AE	387	SE	Tanks	1982
277AH	387	N	Tanks	1990
278AH	387	N	Tanks	1991
279AH	387	N	Tanks	1970
280AR	462	N	Unspecified Tank	1992
281AR	462	N	Unspecified Tank	1977
282BI	498	N	Unspecified Tank	1992
283BI	498	N	Unspecified Tank	1977

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:

31

ID	Distance (m)	Direction	Use	Date
284A	0	On Site	Gas Board Depot	1973
285BJ	0	On Site	Electricity Substation	1994
286E	0	On Site	Gas Works	1892
287E	0	On Site	Gas Works	1906
288H	15	SE	Gasometer	1892
289H	18	SE	Gas Holder	1973
290L	84	E	Gasometer	1906
291L	84	E	Gasometer	1892
292N	85	S	Gasholder	1982
293N	85	S	Gas Holder	1973
294N	85	S	Gasholder	1994
295BK	109	N	Electricity Substation	1994
296BK	109	N	Electricity Substation	1973
297BK	109	N	Electricity Substation	1982
298BL	186	E	Electricity Substation	1973
299BL	186	E	Electricity Substation	1994
300BL	187	E	Electricity Substation	1982
301	300	S	Electricity Substation	1987
302BM	325	SW	Electricity Substation	1987
303BM	348	SW	Electricity Substation	1986
304BN	362	SE	Electricity Substation	1990
305BN	362	SE	Electricity Substation	1989
306BO	372	S	Electricity Substation	1987
307BO	372	S	Electricity Substation	1972
308BO	372	S	Electricity Substation	1986
309BP	443	W	Electricity Substation	1991
310BP	443	W	Electricity Substation	1979

311BP	443	W	Electricity Substation	1981
312BP	443	W	Electricity Substation	1989
313BP	444	W	Electricity Substation	1970
314	481	SW	Electricity Board Depot	1972

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: 10

ID	Distance (m)	Direction	Use	Date
315BQ	58	S	Garage	1981
316BQ	58	S	Garage	1979
317BQ	59	S	Garage	1970
318BQ	60	S	Garage	1973
319BR	230	S	Garage	1983
320BR	245	S	Garage	1989
321AR	454	N	Garage	1977
322AR	454	N	Garage	1992
323AR	455	N	Garage	1960
324AR	456	N	Garage	1962

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 139

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

ID	Distance(m)	Direction	Use	Date
325BS	12	E	Ponds	1951
326BS	12	E	Ponds	1904
327BS	15	E	Ponds	1948
328BS	16	E	Ponds	1938

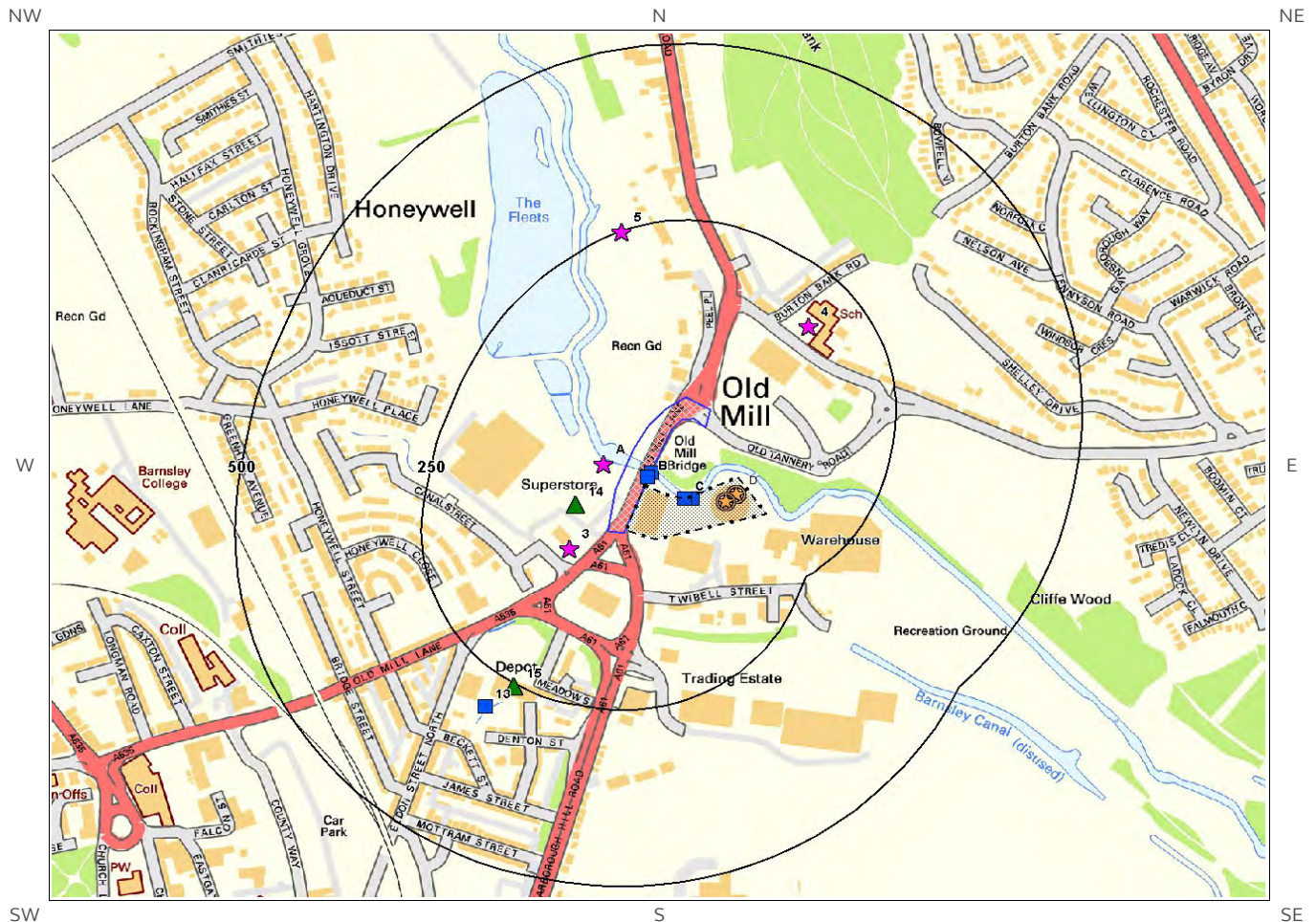
329I	30	NW	Unspecified Pit	1982
330I	30	NW	Unspecified Pit	1992
331I	30	NW	Unspecified Pit	1974
332C	74	W	Refuse Heap	1904
333BT	83	NW	Ponds	1993
334BT	84	NW	Ponds	1973
335BT	84	NW	Ponds	1982
336BT	84	NW	Ponds	1966
337BT	84	NW	Ponds	1890
338BT	86	NW	Ponds	1948
339BT	86	NW	Water Body	1904
340O	97	NW	Refuse Heap	1904
341BU	100	SW	Disused Canal	1966
342	100	SW	Canal	1938
343	101	SW	Ponds	1973
344O	101	NW	Refuse Heap	1948
345O	101	NW	Refuse Heaps	1938
346O	101	NW	Refuse Heaps	1938
347BV	102	SW	Canal	1948
348BV	102	SW	Canal	1904
349BV	103	SW	Canal	1890
350P	104	N	Unspecified Heap	1938
351P	104	N	Unspecified Heap	1938
352AC	105	NE	Colliery	1948
353P	106	N	Unspecified Heap	1951
354P	107	N	Unspecified Ground Workings	1948
355BW	107	S	Canal	1951
356BW	107	S	Disused Canal	1966
357BX	120	NE	Cuttings	1951
358BY	126	SE	Unspecified Ground Workings	1966
359AD	127	E	Disused Colliery	1951
360BZ	130	NW	Refuse Heap	1948
361	131	S	Pond	1974
362S	143	N	Cuttings	1904
363S	143	N	Cuttings	1890
364S	143	N	Cuttings	1948
365S	145	N	Cuttings	1938
366S	147	N	Cuttings	1951
367CA	162	SW	Unspecified Pit	1951
368Y	185	W	Ponds	1890
369Y	191	W	Dock	1951
370X	203	E	Unspecified Disused Tip	1982
371X	203	E	Refuse Heap	1974
372X	203	E	Unspecified Disused Tip	1992

373CB	204	W	Dock	1938
374CB	204	W	Dock	1938
375BG	212	W	Pond	1890
376BG	212	W	Pond	1951
377BG	212	W	Pond	1938
378CC	215	W	Pond	1948
379CC	215	W	Pond	1904
380CD	222	W	Dock	1948
381CE	232	E	Pond	1951
382AA	247	E	Colliery	1938
383AA	247	E	Colliery	1938
384CE	258	E	Ponds	1966
385AB	264	NW	Unspecified Ground Workings	1938
386AB	264	NW	Unspecified Ground Workings	1938
387AB	268	NW	Unspecified Ground Workings	1948
388AB	268	NW	Unspecified Ground Workings	1904
389Z	269	W	Dock	1938
390Z	269	W	Dock	1938
391AB	269	NW	Unspecified Pit	1951
392CF	285	SE	Unspecified Ground Workings	1974
393AC	288	E	Unspecified Ground Workings	1966
394AD	297	E	Refuse Heap	1951
395AD	313	E	Refuse Heap	1948
396AF	339	SE	Unspecified Ground Workings	1974
397AF	339	SE	Unspecified Ground Workings	1966
398AG	342	N	Colliery	1890
399CG	345	SE	Ponds	1992
400CG	345	SE	Ponds	1982
401CG	345	SE	Ponds	1974
402AH	354	N	Sewage Works	1904
403AH	354	N	Old Sewage Works	1948
404AH	354	N	Old Sewage Works	1938
405AH	354	N	Old Sewage Works	1938
406AI	354	N	Unspecified Heap	1982
407AI	354	N	Unspecified Heap	1992
408AJ	355	SE	Unspecified Heap	1938
409AJ	355	SE	Unspecified Heap	1938
410AH	358	N	Old Sewage Works	1951
411AK	359	N	Unspecified Heap	1974
412AK	359	N	Unspecified Heap	1966

413AL	364	SE	Refuse Heap	1951
414AL	366	SE	Refuse Heap	1948
415AL	367	SE	Refuse Heap	1938
416AL	367	SE	Refuse Heap	1938
417CH	368	E	Unspecified Heap	1966
418AA	370	E	Refuse Heap	1938
419AA	370	E	Refuse Heap	1938
420AM	374	E	Unspecified Old Quarry	1890
421AM	374	NE	Unspecified Ground Workings	1951
422AM	376	NE	Unspecified Heap	1948
423AM	376	NE	Refuse Heap	1904
424AM	377	NE	Unspecified Ground Workings	1938
425AM	377	NE	Unspecified Ground Workings	1938
426AM	382	E	Unspecified Ground Workings	1966
427AN	387	SE	Unspecified Heap	1966
428AN	387	SE	Unspecified Heap	1974
429AM	395	NE	Unspecified Pits	1948
430AM	395	NE	Unspecified Pits	1904
431CI	402	S	Unspecified Ground Workings	1904
432AO	402	E	Unspecified Ground Workings	1966
433AP	402	NE	Unspecified Disused Quarry	1966
434AP	402	NE	Unspecified Disused Quarry	1992
435AP	402	NE	Unspecified Disused Quarry	1982
436AP	402	NE	Unspecified Disused Quarry	1974
437AO	403	E	Unspecified Old Quarry	1890
438AO	403	E	Unspecified Pit	1904
439AP	408	NE	Unspecified Quarry	1890
440AP	413	NE	Unspecified Quarry	1938
441AP	413	NE	Unspecified Quarry	1948
442AP	416	NE	Unspecified Quarry	1951
443CJ	416	SE	Unspecified Heap	1974
444CK	417	SE	Unspecified Ground Workings	1904
445CL	418	SE	Unspecified Heap	1992
446AQ	421	SE	Unspecified Quarry	1890
447AQ	424	SE	Unspecified Quarry	1904
448AO	429	E	Unspecified Pit	1938
449AO	429	E	Unspecified Pit	1938
450AO	431	E	Unspecified Pit	1948
451AO	432	E	Unspecified Pit	1951

452AX	441	NE	Unspecified Quarry	1904
453AV	460	W	Unspecified Heap	1966
454AV	460	W	Unspecified Heap	1973
455AV	462	SW	Unspecified Ground Workings	1951
456CM	462	SW	Unspecified Heap	1982
457AV	466	SW	Unspecified Ground Workings	1938
458AV	466	SW	Unspecified Ground Workings	1938
459CN	467	NW	Unspecified Ground Workings	1904
460AW	468	SW	Unspecified Quarry	1890
461AV	472	W	Unspecified Ground Workings	1904
462AV	472	W	Unspecified Ground Workings	1948
463CO	497	W	Unspecified Heap	1982

2. Environmental Permits, Incidents and Registers Map



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- | | | | | | |
|---|--------------------|---|-------------------------------|---|--|
|  | Site Outline |  | Recorded Pollution Incident |  | RAS 3 & 4 Authorisations |
|  | Search Buffers (m) |  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |
| | |  | 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
14	49	W	434954 407189	Address: Asda Petrol Filling Station, Old Mill Lane, Barnsley, S71 1LN Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
15	256	SW	434869 406931	Address: Walter Fisher Ltd, Meadow St, Barnsley, S71 1DE Process: waste oil burning 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:

8

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

ID	Distance (m)	Direction	NGR	Details
6B	0	On Site	435050 407230	Address: OLD MILL LANE CSO, OLD MILL LANE (ADJ WAREHOUSE), OLD MILL, BARNSELY, SOUTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA9206 Permit Version: 1 Receiving Water: RIVER DEARNE Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/08/2007 Effective Date: 28-Aug-2007 Revocation Date: -
7B	0	SE	435055 407237	Address: UNDEFINED SITE, SEE OUTLET NGR OR COMMENTS, FOR MORE INFO ABOUT THE SITE, (DO NOT CHANGE THESE DETAILS), NK Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/8 Permit Version: 1 Receiving Water: VARIES WITH OUTLET Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 29/05/1963 Effective Date: 29-May-1963 Revocation Date: 31/03/2005

ID	Distance (m)	Direction	NGR	Details
8C	56	E	435100 407200	Address: BARNSLEY MFI CSO, TWIBELL STREET, HARBOROUGHILL ROAD (OFF), BARNSLEY, SOUTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 3671 Permit Version: 2 Receiving Water: RIVER DEARNE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 03/02/2004 Effective Date: 31-Mar-2004 Revocation Date: -
9C	56	E	435100 407200	Address: BARNSLEY MFI CSO, TWIBELL STREET, HARBOROUGHILL ROAD (OFF), BARNSLEY, SOUTH YORKSHIRE Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 3558 Permit Version: 1 Receiving Water: RIVER DEARNE Status: REVOKED - UNSPECIFIED Issue date: 04/08/1981 Effective Date: 04-Aug-1981 Revocation Date: 25/08/2000
10C	56	E	435100 407200	Address: BARNSLEY MFI CSO, TWIBELL STREET, HARBOROUGHILL ROAD (OFF), BARNSLEY, SOUTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 3671 Permit Version: 1 Receiving Water: RIVER DEARNE Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 19/01/1983 Effective Date: 19-Jan-1983 Revocation Date: 30/03/2004
11C	56	E	435100 407200	Address: BARNSLEY MFI CSO, TWIBELL STREET, HARBOROUGHILL ROAD (OFF), BARNSLEY, SOUTH YORKSHIRE Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 3558 Permit Version: 1 Receiving Water: RIVER DEARNE Status: REVOKED - UNSPECIFIED Issue date: 04/08/1981 Effective Date: 04-Aug-1981 Revocation Date: 25/08/2000
12C	65	E	435110 407200	Address: NO.4 GASHOLDER, OLD MILL DEPOT, BARNSLEY, SOUTH YORKSHIRE Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: C3558 Permit Version: 1 Receiving Water: RIVER DEARNE Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 04/08/1981 Effective Date: 04-Aug-1981 Revocation Date: 25/08/2000
13	298	SW	434832 406906	Address: REGENT STREET, BARNSLEY, SOUTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: YWUCD2/4 Permit Version: 1 Receiving Water: TRIB OF RIVER DEARNE Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/11/1997 Effective Date: 12-Nov-1997 Revocation Date: -

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:

2

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

ID	Distance (m)	Direction	Application Reference Number	NGR	Application Status	Application Date	Address	Details	Details of Enforcement Action
19D	103	S	HSC/00/0002/BA	435168407205	Approved	06/06/2000	Transco PLC, Barnsley Holder Station, Old Mill Lane, Barnsley, South Yorkshire, S70 1DL	Storage And Distribution Of Natural Gas	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
20D	108	S	HSC/92/5	435154407195	Historical Consent	16/11/1992	Barnsley Gas Holder Station, Old Mill Lane, Barnsley, S71 1LN	Natural Gas.	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

2.2 Dangerous or Hazardous Sites

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

1

The following COMAH & NIHHS Authorisation records provided by the Health and Safety Executive are represented as polygons or buffered points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	Company	Address	Operational Status	Tier
16C	0	On Site	British Gas	British Gas, Old Mill Lane, Barnsley, S71 1LT	Historical NIHHS Site	-

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:

5

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

ID	Distance (m)	Direction	NGR	Details
1A	31	NW	434990407249	Incident Date: 27-Nov-2001 Incident Identification: 45203 Pollutant: Contaminated Water Pollutant Description: Urban Run-Off Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
2A	31	NW	434990 407249	Incident Date: 27-Nov-2001 Incident Identification: 45203 Pollutant: Contaminated Water Pollutant Description: Urban Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	58	SW	434945 407129	Incident Date: 22-Nov-2001 Incident Identification: 44308 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	176	NE	435265 407444	Incident Date: 27-Feb-2002 Incident Identification: 60807 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5	250	N	435014 407578	Incident Date: 02-Mar-2004 Incident Identification: 220137 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	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

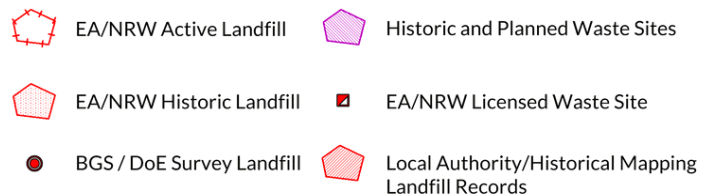
Database searched and no data found.

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

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:

24

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
8	24	SE	Site Address: Emgas Depot, Old Mill Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B187, 4400/B187, 20B187(71) Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 11-Jan-1978 Licence Surrendered: 11-May-1984 Licence Holder Address: PO Box 145, De Montfort Street, Leicester Operator: East Midlands Gas Licence Holder: East Midlands Gas First Recorded: 31-Jan-1978 Last Recorded: 11-May-1984
9	90	SW	Site Address: Disused Canal, Old Mill Lane, Barnsley Waste Licence: - Site Reference: 4400/(22) Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Barnsley Metropolitan Borough Council Licence Holder: Barnsley Metropolitan Borough Council First Recorded: - Last Recorded: -
10	95	NW	Site Address: Star Paper Limited, Old Mill Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B4(i), 4400/B4 Waste Type: Inert, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 11-Jan-1978 Licence Surrendered: 25-Feb-1982 Licence Holder Address: - Operator: Star Paper Limited Licence Holder: Star Paper Mills First Recorded: 31-Jan-1978 Last Recorded: 25-Feb-1982

ID	Distance (m)	Direction	NGR	Details
11	158	NW		Site Address: The Fleets Dam, Off Smithies Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B774, 4400/B774, 20B774 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 05-Sep-1990 Licence Surrendered: Licence Holder Address: Stainborough Fisheries, The Wickets, Low Lane, Stainborough, Barnsley Operator: - Licence Holder: Mr A Hanson First Recorded: 30-Sep-1990 Last Recorded: 31-Dec-1994
12	180	NW		Site Address: Star Paper Mill, Barnsley Waste Licence: - Site Reference: 4400/B59, WD20/B4(ii) Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Star Paper Mill Licence Holder: Star Paper Mills First Recorded: 31-Jan-1978 Last Recorded: 31-Dec-1990
13	268	SE		Site Address: Canal to the rear of Twibell Street, Barnsley Waste Licence: Yes Site Reference: WD20 B369, 4400/B369, 20B369(83) Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 16-Sep-1982 Licence Surrendered: 06-Jun-1988 Licence Holder Address: 8A, Eastgate, Barnsley Operator: Barnsley Trades Council Licence Holder: Barnsley Trades Council First Recorded: 30-Sep-1982 Last Recorded: 06-Jun-1988
14	453	W		Site Address: Land off Old Mill Lane, Town Centre, Barnsley Waste Licence: Yes Site Reference: WD20 B446 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14-Nov-1984 Licence Surrendered: 30-Mar-1994 Licence Holder Address: c/o Twibell Plant Limited, Twibell Street, Barnsley Operator: Mr M White Licence Holder: White and Peace First Recorded: 30-Nov-1984 Last Recorded: 31-Dec-1989
15	495	N		Site Address: Wakefield Road, Barnsley Waste Licence: Yes Site Reference: 20B320(79), WD20 B320, 4400/B320 Waste Type: Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 28-Jul-1981 Licence Surrendered: 09-May-1988 Licence Holder Address: c/c C E Smith and Son, 14 Regent Street, Barnsley Operator: Booth Excavations Limited Licence Holder: Booth Excavations Limited First Recorded: 28-Jul-1981 Last Recorded: 09-May-1988
16	512	NW		Site Address: Star Paper Limited, Old Mill Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B4(i), 4400/B4 Waste Type: Inert, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 11-Jan-1978 Licence Surrendered: 25-Feb-1982 Licence Holder Address: - Operator: Star Paper Limited Licence Holder: Star Paper Mills First Recorded: 31-Jan-1978 Last Recorded: 25-Feb-1982
17C	555	NW		Site Address: Smithy Green Tip, Smithies Lane, Barnsley, Yorkshire Waste Licence: - Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Barnsley County Borough Council Licence Holder: - First Recorded: 31-Dec-1948 Last Recorded: -
Not shown	851	NW		Site Address: Smithies Tip, Smithies Tip, Off Smithies Lane, Barnsley Waste Licence: - Site Reference: 4400/(141) Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details
Not shown	878	NE	Site Address: Rotherham Road, Monk Bretton, Barnsley Waste Licence: Yes Site Reference: 20B456(94), WD20 B456, 4400/B456 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 13-Mar-1985 Licence Surrendered: 04-Jun-1986 Licence Holder Address: Department of Architecture and Planning, Regent House, Barnsley Operator: Barnsley Metropolitan Borough Council Licence Holder: Barnsley Metropolitan Borough Council First Recorded: 13-Mar-1985 Last Recorded: 04-Jun-1986
Not shown	930	SE	Site Address: Barnsley Football Ground, Oakwell Road, Barnsley Waste Licence: - Site Reference: 4400/(164) Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Mowlem Construction Licence Holder: Mowlem Construction First Recorded: 01-Jun-1995 Last Recorded: 31-Aug-1995
Not shown	931	NE	Site Address: Land to the rear of Nos. 16 to 26 Byron Drive, Byron Drive, Monk Bretton, Barnsley Waste Licence: Yes Site Reference: 3(b), 20B395(37), 4400/B359, WD20 B359 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 15-Sep-1982 Licence Surrendered: 05-Apr-1992 Licence Holder Address: Westgate, Monk Bretton, Barnsley Operator: D Thackery Licence Holder: Mr D Thackery First Recorded: 30-Sep-1982 Last Recorded: 31-Dec-1987
Not shown	964	N	Site Address: Dalestone Works, Wakefield Road, Barnsley Waste Licence: - Site Reference: 4400/(142) Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1025	SE	Site Address: Former Wood Brothers Tip, Glasstip, Railway Cutting, Beevor Street, Hoyle Mill, Barnsley Waste Licence: Yes Site Reference: WD20 B353, 4400/B353, 20B353, WD20 B353a Waste Type: Commercial, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 22-Mar-1982 Licence Surrendered: 09-May-1984 Licence Holder Address: High Holborn Road, Codnor Gate Industrial Estate, Ripley, Derbyshire Operator: - Licence Holder: Nuttall Lighting Limited First Recorded: - Last Recorded: -
Not shown	1064	SE	Site Address: Land to the rear of Chapel Street-Beevor Street, Glasstip, Railway Cutting, Beevor Street Waste Licence: Yes Site Reference: WD20 B6(I), 4400/B6, 20B6(38), 4400/0573 Waste Type: Inert, Industrial, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 05-Dec-1977 Licence Surrendered: 31-Dec-1984 Licence Holder Address: Borough Flint Glassworks, Barnsley, South Yorkshire Operator: Barnsley Metropolitan Borough Council Licence Holder: Wood Brothers Glass Company Limited First Recorded: 05-Dec-1977 Last Recorded: 31-Dec-1984
Not shown	1075	N	Site Address: Land adjacent to Wakefield Road, Barnsley Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Prospect Estates Limited Licence Holder: - First Recorded: 01-Jun-1997 Last Recorded: 30-Nov-1997

ID	Distance (m)	Direction	NGR	Details
Not shown	1131	S	Site Address: The Old Vicarage, Doncaster Road, Barnsley Waste Licence: Yes Site Reference: WD20 B812, 20B812 Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Jul-1991 Licence Surrendered: 17-Jan-1994 Licence Holder Address: Oak House, Doncaster Road, Barnsley Operator: - Licence Holder: Mr K Sykes - Aytee Portable Equipment Limited First Recorded: - Last Recorded: -
Not shown	1188	SE	Site Address: Mount Osborne Industrial Park, Barnsley, South Yorkshire Waste Licence: Yes Site Reference: 4400/B62 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 11-Jul-1995 Licence Surrendered: - Licence Holder Address: - Operator: - Licence Holder: Barnsey Group First Recorded: - Last Recorded: -
Not shown	1295	NE	Site Address: Monk Bretton Recreation Ground, Lamb Lane, Monk Bretton, Barnsley Waste Licence: Yes Site Reference: 20B328(12), 4400/B328, WD20 B328 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 28-Jul-1981 Licence Surrendered: 20-Apr-1983 Licence Holder Address: Department of Amenities and Recreation, 12/18 Eldon Street, Barnsley Operator: Barnsley Metropolitan Borough Council Licence Holder: Barnsley Metropolitan Borough Council First Recorded: 31-Aug-1981 Last Recorded: 20-Apr-1983
Not shown	1388	NE	Site Address: Monk Bretton Recreation Ground, Lamb Lane, Monk Bretton, Barnsley Waste Licence: Yes Site Reference: 20B328(12), 4400/B328, WD20 B328 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 28-Jul-1981 Licence Surrendered: 20-Apr-1983 Licence Holder Address: Department of Amenities and Recreation, 12/18 Eldon Street, Barnsley Operator: Barnsley Metropolitan Borough Council Licence Holder: Barnsley Metropolitan Borough Council First Recorded: 31-Aug-1981 Last Recorded: 20-Apr-1983
Not shown	1427	SW	Site Address: Spring Street, Barnsley Waste Licence: - Site Reference: 4400/(159), (159)B, WD24 B343, WD34.16.16 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: - Licence Surrendered: - Licence Holder Address: - Operator: Mr A J Shaw Licence Holder: Mr A J Shaw First Recorded: 31-Dec-1993 Last Recorded: 31-Dec-1993
Not shown	1460	NW	Site Address: Croft Farm, Willow Bank, Barnsley Waste Licence: Yes Site Reference: WD20 B742 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 10-Jul-1990 Licence Surrendered: 31-Dec-1993 Licence Holder Address: Croft Farm, Willow Bank, Barnsley Operator: Mr K Hadfield Licence Holder: Mr K Hadfield First Recorded: 30-Sep-1990 Last Recorded: 31-Dec-1993

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	1037	NW	434700.0 408300.0	Address: Smithy Green Tip, Smithies Lane, Barnsley, Yorks BGS Number: 1890.0 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:

6

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
44	204	E	435419 407268	Refuse Tip	1972 mapping	Polygon
45C	586	NW	434789 407894	Refuse Tip	1970 mapping	Polygon
Not shown	962	NW	434625 408347	Refuse Tip	1970 mapping	Polygon
Not shown	975	N	434875 408352	Refuse Tip	1970 mapping	Polygon
Not shown	1004	SE	435798 406428	Refuse Tip	1970 mapping	Polygon
Not shown	1499	SW	434273 405813	Spring Street	Barnsley Metropolitan Borough Council	Point

3.2 Other Waste Sites

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

6

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	139	S	435080 407006	Type of Site: Scrap Metal Yard Site Address: N/A Planning Application Reference: N/A Date: 1972 Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

ID	Distance (m)	Direction	NGR	Details		
3A	254	E	435433 407229	Type of Site: Ground Workings and Refuse Heap Site Address: N/A	Planning Application Reference: N/A Date: 1960	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
4A	254	E	435433 407229	Type of Site: Ground Workings and Refuse Heap Site Address: N/A	Planning Application Reference: N/A Date: 1960	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
5	290	W	434709 407261	Type of Site: Scrap Metal Yard Site Address: N/A	Planning Application Reference: N/A Date: 1970	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
6B	454	N	435016 407896	Type of Site: Ground Workings and Refuse Heap Site Address: N/A	Planning Application Reference: N/A Date: 1960	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
7B	454	N	435016 407896	Type of Site: Ground Workings and Refuse Heap Site Address: N/A	Planning Application Reference: N/A Date: 1960	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:

12

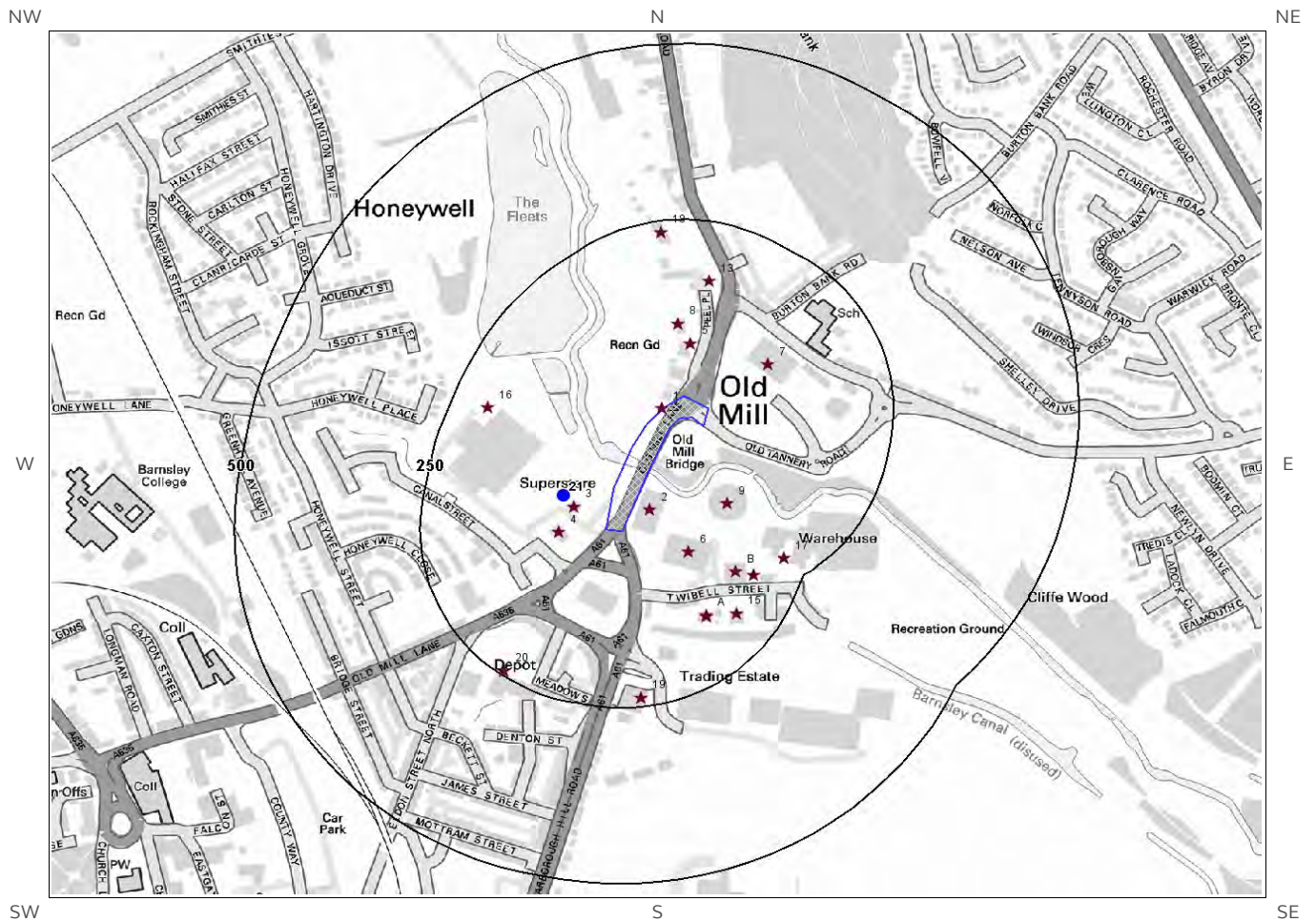
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
32	70	E	435200 407300	Site Address: Old Mill Lane, Barnsley, South Yorkshire Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRA002 EPR reference: EA/EPR/WP3790ZL/S002 Operator: British Gas Transco Plc Waste Management licence No: 60545 Annual Tonnage: 316.0	Issue Date: 15/07/1993 Effective Date: - Modified: - Surrendered Date: 06/09/2000 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Barnsley Depot Correspondence Address: Old Mill Lane, Barnsley, South Yorksh
33	149	N	435123 407492	Site Address: Unit 7, Peel Place, Barnsley, South Yorkshire, S71 1LU Type: Treatment of waste to produce soil <75,000 tpy Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DUN001 EPR reference: EA/EPR/EB3509CF/A001 Operator: G M M Multi Utilities Limited Waste Management licence No: 403601 Annual Tonnage: 75.0	Issue Date: 24/10/2016 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Unit 7 Correspondence Address: Unit 7, Peel Place, Barnsley, South Yorkshire, S71

ID	Distance (m)	Direction	NGR	Details
34	541	S	434800 406650	Site Address: Harborough Hill Road, Harborough, Barnsley, South Yorkshire, S71 1BD Type: - Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR005 EPR reference: EA/EPR/JP3390ZX/S002 Operator: Yorkshire Electricity Waste Management licence No: 60598 Annual Tonnage: 0.0 Issue Date: 14/09/1992 Effective Date: - Modified: - Surrendered Date: 13/05/1999 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: - Correspondence Address: Harborough Hill Road, Harborough, Barnsley, South Yorkshire, S71
Not shown	781	N	434870 408090	Site Address: Smithies Lane, Smithies, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REG006 EPR reference: - Operator: Regional Waste Recycling Plc Waste Management licence No: 60609 Annual Tonnage: 5000.0 Issue Date: 14/06/1993 Effective Date: 08/12/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Smithies Lane Civic Amenity Site Correspondence Address: 2 Cecil Court, 49-55, London Road, Enfield, Middlesex, EN2 6DE
Not shown	781	N	434870 408090	Site Address: Smithies Lane, Smithies, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR013 EPR reference: - Operator: South Herts Waste Management Ltd Waste Management licence No: 60609 Annual Tonnage: 0.0 Issue Date: 14/06/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Smithies Lane Civic Amenity Site Correspondence Address: 48, Cardigan Road, Stanion, Northants, NN14 1BY
Not shown	781	N	434870 408090	Site Address: Smithies Lane Civic Amenity Site, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71 1NL Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS067 EPR reference: EA/EPR/DP3992LS/T001 Operator: Waste Recycling Ltd Waste Management licence No: 60609 Annual Tonnage: 24999.0 Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Smithies Lane H W R C Site Correspondence Address: Smithies Lane Civic Amenity Site, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71
Not shown	781	N	434870 408090	Site Address: Smithies Lane Civic Amenity Site, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71 1NL Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS067 EPR reference: EA/EPR/DP3992LS/T001 Operator: Waste Recycling Ltd Waste Management licence No: 60609 Annual Tonnage: 24999.0 Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Smithies Lane H W R C Site Correspondence Address: Ground Floor West, 900, Pavilion Drive, Northampton Business Park, Northampton, NN4 7RG

ID	Distance (m)	Direction	NGR	Details
Not shown	781	N	434870 408090	Site Address: Smithies Lane H W R C, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71 1NL Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS067 EPR reference: EA/EPR/DP3992LS/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 60609 Annual Tonnage: 24999.0 Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: 23/11/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Smithies Lane Household Waste Recycling Centre Correspondence Address: Smithies Lane H W R C, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71
Not shown	976	N	435300 408300	Site Address: Rotherham Road, Carlton, Barnsley, South Yorkshire, S27 2AG Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR007 EPR reference: - Operator: Yorkshire Water Services Waste Management licence No: 60547 Annual Tonnage: 0.0 Issue Date: 31/01/1994 Effective Date: - Modified: - Surrendered Date: 01/11/2000 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Carlton Road Depot Correspondence Address: Western House, Western Way, Halifax Road, Bradford, West Yorkshire, BD6 2LZ
Not shown	976	N	435300 408300	Site Address: Rotherham Road, Carlton, Barnsley, South Yorkshire, S27 2AG Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR007 EPR reference: EA/EPR/AP3090ZE/S002 Operator: Yorkshire Water Services Ltd Waste Management licence No: 60547 Annual Tonnage: 39521.0 Issue Date: 31/01/1994 Effective Date: - Modified: - Surrendered Date: 01/11/2000 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Carlton Road Depot Correspondence Address: Rotherham Road, Carlton, Barnsley, South Yorkshire, S27
Not shown	1200	SE	435650 406130	Site Address: Unit 5, Oakwell Business Centre, Oakwell View, Barnsley, South Yorkshire, S71 1HX Type: 75kte WEEE Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRW001 EPR reference: EA/EPR/BP3598EY/A001 Operator: S R Waste Recycling Ltd Waste Management licence No: 100239 Annual Tonnage: 4999.0 Issue Date: 12/03/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked Site Name: S R Waste Recycling Ltd Correspondence Address: Unit 5, Oakwell Business Centre, Oakwell View, Barnsley, South Yorkshire, S71
Not shown	1200	SE	435650 406130	Site Address: Unit 5, Oakwell Business Centre, Oakwell View, Barnsley, South Yorkshire, S71 1HX Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRW001 EPR reference: - Operator: S R Waste Recycling Ltd Waste Management licence No: 100239 Annual Tonnage: 0.0 Issue Date: 12/03/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: S R Waste Recycling Ltd Correspondence Address: 5, Oakwell Business Centre, Oakwell View, Barnsley, South Yorks, S71 1HX

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:

20

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	2	NW	Electricity Sub Station	435072 407327	S71	Electrical Features	Infrastructure and Facilities
2	21	E	Warehouse	435055 407183	S71	Container and Storage	Transport, Storage and Delivery
3	49	W	Asda Petrol	434953 407187	Old Mill Lane, Barnsley, S71 1LN	Petrol and Fuel Stations	Road and Rail
4	64	W	Asda Barnsley	434932 407150	Old Mill Lane, Barnsley, South Yorkshire, S71 1LN	Petrol and Fuel Stations	Road and Rail
5	75	N	Works	435110 407419	S71	Unspecified Works Or Factories	Industrial Features
6	93	E	Warehouse	435108 407123	S71	Container and Storage	Transport, Storage and Delivery
7	102	NE	Warehouse	435214 407389	S71	Container and Storage	Transport, Storage and Delivery
8	103	N	M O T Centre	435093 407447	5, Peel Place, Barnsley, S71 1LU	Vehicle Repair, Testing and Servicing	Repair and Servicing
9	112	S	Gas Holder	435160 407192	S71	Gas Features	Infrastructure and Facilities
10B	162	E	Warehouse	435171 407095	S71	Container and Storage	Transport, Storage and Delivery
11A	163	SE	Denis Bray's Ltd	435132 407033	Unit 1 Twibell Street, Barnsley, S71 1DG	Vehicle Repair, Testing and Servicing	Repair and Servicing
12A	164	SE	Warehouse	435132 407032	S71	Container and Storage	Transport, Storage and Delivery
13	167	N	Form It UK Ltd	435134 407507	14, Peel Place, Barnsley, S71 1LU	Concrete Products	Industrial Products
14B	186	E	Electricity Sub Station	435195 407090	S71	Electrical Features	Infrastructure and Facilities
15	192	SE	Hayes Fencing & Sheds Ltd	435172 407035	Twibell Street, Barnsley, S71 1DL	Fences, Gates and Railings	Industrial Products
16	201	NW	Electricity Sub Station	434838 407328	S71	Electrical Features	Infrastructure and Facilities
17	214	SE	Depot	435236 407114	S71	Container and Storage	Transport, Storage and Delivery
18	235	N	Works	435071 407577	S71	Unspecified Works Or Factories	Industrial Features
19	236	S	Halfords	435044 406915	Dryden Road, Barnsley, S71 1JE	Vehicle Parts and Accessories	Motoring

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
20	243	SW	Tank	434859 406954	S71	Tanks (Generic)	Industrial Features

4.2 Petrol and Fuel Sites

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

1

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

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
21	66	W	434939 407202	Asda	Asda Barnsley, Old Mill Lane, Old Mill Lane, Barnsley, South Yorkshire, S71 1LN	No	Open

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

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

Lex Code	Description	Rock Type
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

5.3 Bedrock and Solid Geology

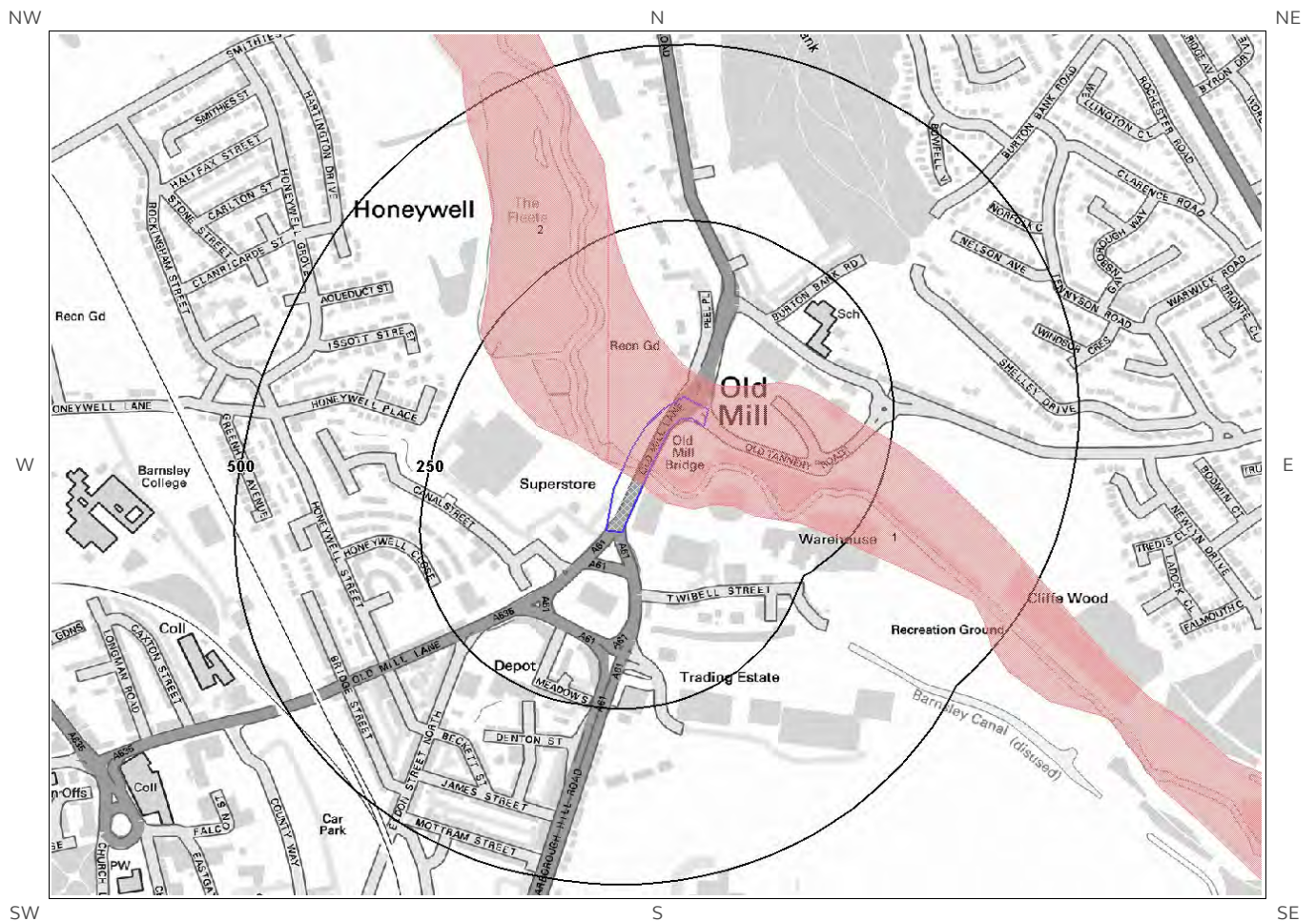
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
KNR-SDST	KENT'S ROCK	SANDSTONE
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
KNR-SDST	KENT'S ROCK	SANDSTONE
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

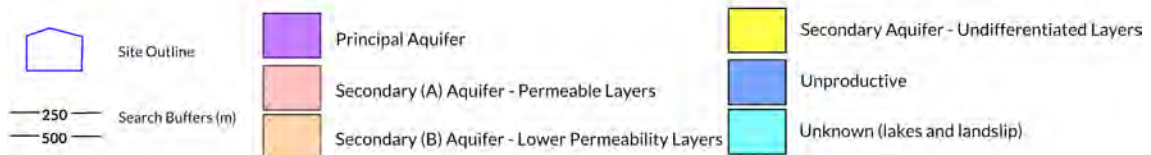
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

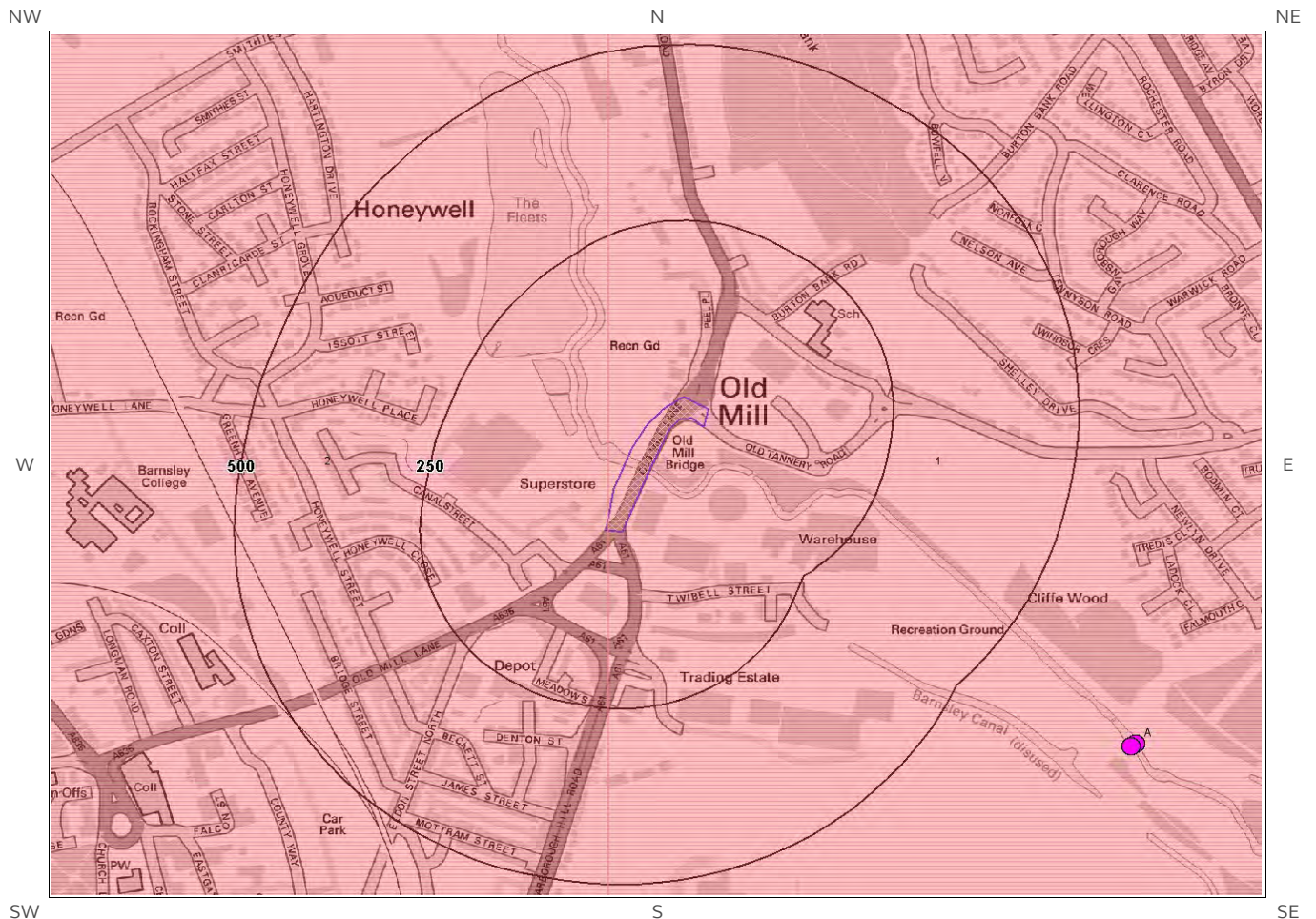
6a. Aquifer Within Superficial Geology



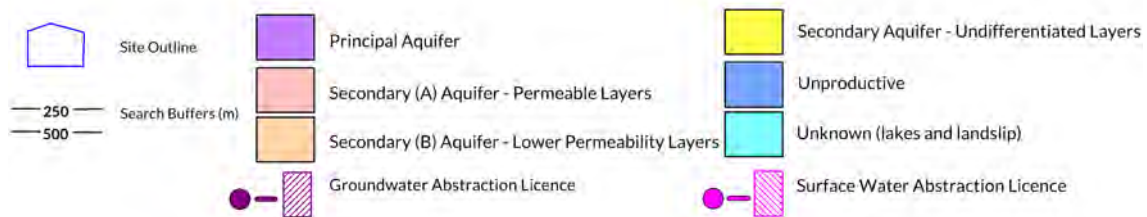
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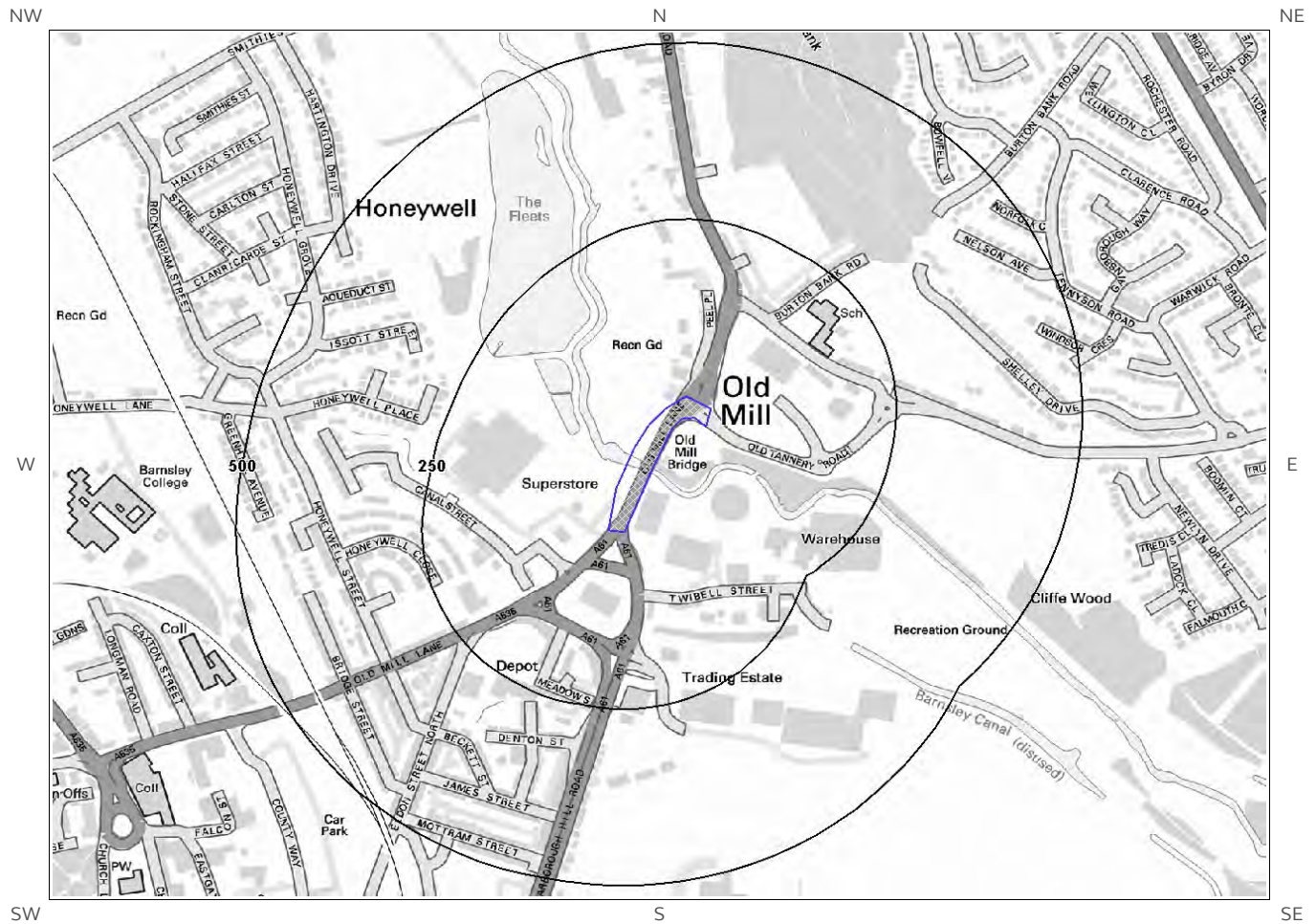
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



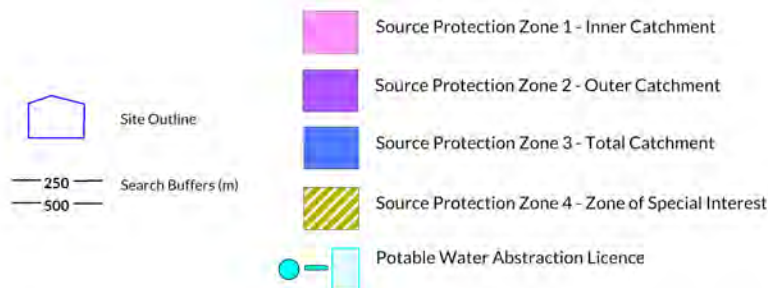
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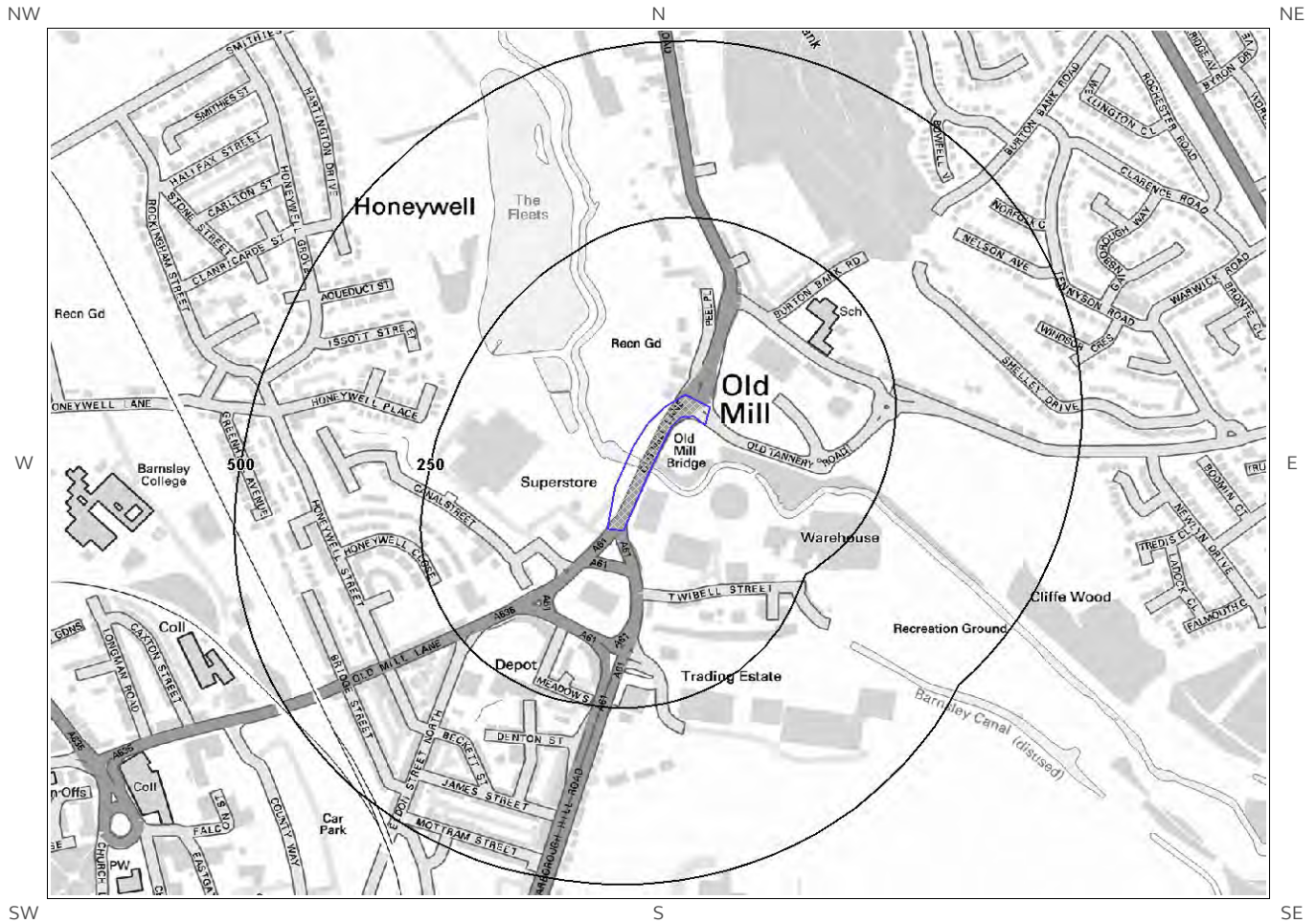
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



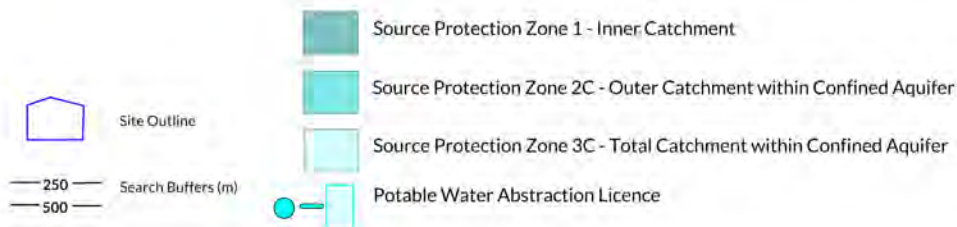
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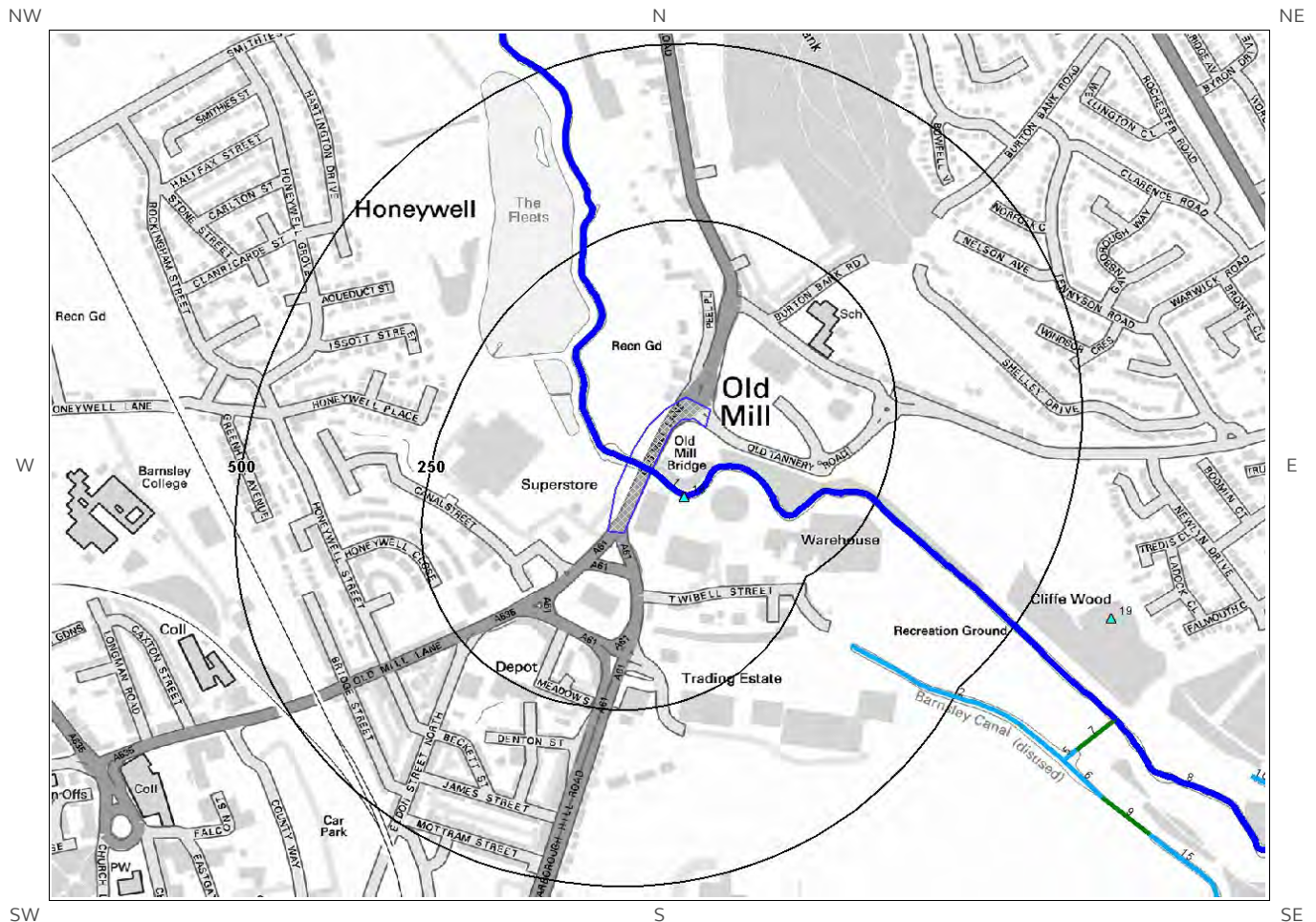
6d. Hydrogeology – Source Protection Zones within confined aquifer



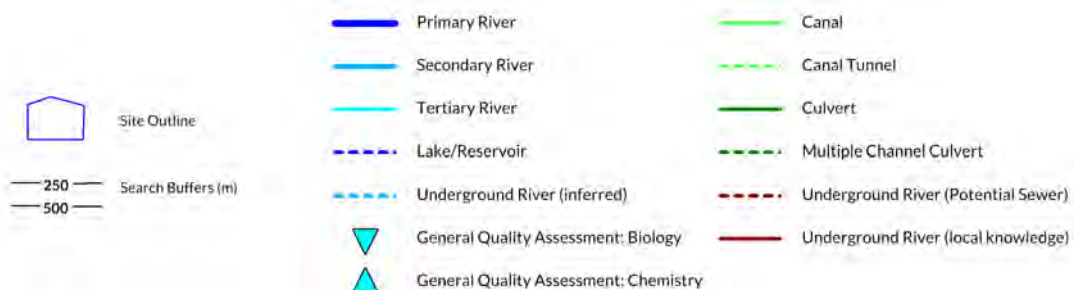
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6e. Hydrology – Detailed River Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

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

From 1 April 2010, the Environment Agency/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	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
2	22	NW	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
2	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.3 Groundwater Abstraction Licences

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

Yes

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

ID	Distance (m)	Direction	NGR	Details
Not shown	777	SE	435336 406441	Status: Active Licence No: NE/027/0008/014 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole - Coal Measures - Oakwell Road - Barnsley Data Type: Point Name: Barnsley Football Club 2002 Ltd Annual Volume (m³): 21400 Max Daily Volume (m³): 100 Original Application No: NPS/WR/016056 Original Start Date: 29/6/2015 Expiry Date: 31/3/2029 Issue No: 1 Version Start Date: 29/6/2015 Version End Date:
Not shown	1697	SW	433700 406060	Status: Historical Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 08082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: 1/1/2004 Version End Date:
Not shown	1697	SW	433700 406060	Status: Historical Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring - Sandstone&middle Coal Measures - Barnsley Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): 350000 Max Daily Volume (m³): 1400 Original Application No: 8082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: 1/1/2004 Version End Date:
Not shown	1736	SW	433700 406000	Status: Historical Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Well/spring - Sandstone/middle Coal Measures - Shaw Lane Data Type: Point Name: SHELDALDE WATER LIMITED Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 100 Version Start Date: 1/12/1999 Version End Date:
Not shown	1736	SW	433700 406000	Status: Historical Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 101 Version Start Date: 8/4/2003 Version End Date:

6.4 Surface Water Abstraction Licences

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

Yes

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

ID	Distance (m)	Direction	NGR	Details
8A	733	SE	435704 406846	Status: Active Licence No: 2/27/08/141/R01 Details: Make-Up Or Top Up Water Direct Source: Surface Water Point: River Dearne At Dearne Valley Country Park Data Type: Point Name: BARNSLEY METROPOLITAN BOROUGH COUNCIL Annual Volume (m³): 5850 Max Daily Volume (m³): 86.6 Application No: NPS/WR/021590 Original Start Date: 12/4/2017 Expiry Date: 31/3/2029 Issue No: 1 Version Start Date: 12/4/2017 Version End Date:
9A	735	SE	435710 406850	Status: Historical Licence No: 2/27/08/141 Details: Make-Up Or Top Up Water Direct Source: Surface Water Point: River Dearne Data Type: Point Name: BARNSLEY METROPOLITAN BOROUGH COUNCIL Annual Volume (m³): 7800 Max Daily Volume (m³): 86.6 Application No: 8254 Original Start Date: 13/3/2007 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: 1/4/2008 Version End Date:
10A	735	SE	435710 406850	Status: Historical Licence No: 2/27/08/122 Details: Make-Up or Top Up Water Direct Source: Surface Water Point: River Dearne Data Type: Point Name: BARNSLEY METROPOLITAN BOROUGH COUNCIL Annual Volume (m³): 7800 Max Daily Volume (m³): 86.6 Application No: 6891 Original Start Date: 7/10/1998 Expiry Date: 31/10/2006 Issue No: 101 Version Start Date: 1/8/2002 Version End Date:
11A	735	SE	435710 406850	Status: Historical Licence No: 2/27/08/122 Details: Make-Up or Top Up Water Direct Source: Surface Water Point: River Dearne Data Type: Point Name: BARNSLEY METROPOLITAN BOROUGH COUNCIL Annual Volume (m³): - Max Daily Volume (m³): - Application No: 6891 Original Start Date: 7/10/1998 Expiry Date: 31/10/2006 Issue No: 101 Version Start Date: 1/8/2002 Version End Date:

6.5 Potable Water Abstraction Licences

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

Yes

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

ID	Distance (m)	Direction	NGR	Details
Not shown	1697	SW	433700 406060	Status: Historical Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring - Sandstone&middle Coal Measures - Barnsley Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): 350000 Max Daily Volume (m³): 1400 Original Application No: 8082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1697	SW	433700 406060	Status: Historical Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 08082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: Version End Date:
Not shown	1736	SW	433700 406000	Status: Historical Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point Name: SHELDALDE DEVELOPMENTS LTD Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 101 Version Start Date: Version End Date:
Not shown	1736	SW	433700 406000	Status: Historical Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Well/spring - Sandstone/middle Coal Measures - Shaw Lane Data Type: Point Name: SHELDALDE WATER LIMITED Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 100 Version Start Date: Version End Date:

6.6 Source Protection Zones

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

No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

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

No

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

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

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

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/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.
150	NW	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.

6.9 River Quality

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

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). 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
18	56	E	435100 407200	River Name: River Dearne Reach: New Lodge Old Mill End/Start of Stretch: Sample Point NGR	D	B	C	C	D
19	608	SE	435673 407028	River Name: River Dearne Reach: New Lodge Old Mill End/Start of Stretch: End of Stretch NGR	D	B	C	C	D

6.10 Detailed River Network

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

Yes

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

ID	Distance (m)	Direction	Details
1	0	On Site	River Name: River Dearne Welsh River Name: - Alternative Name: - River Type: Primary River Main River Status: Currently Undefined
2	343	SE	River Name: Barnsley Canal (disused) Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined

6.11 Surface Water Features

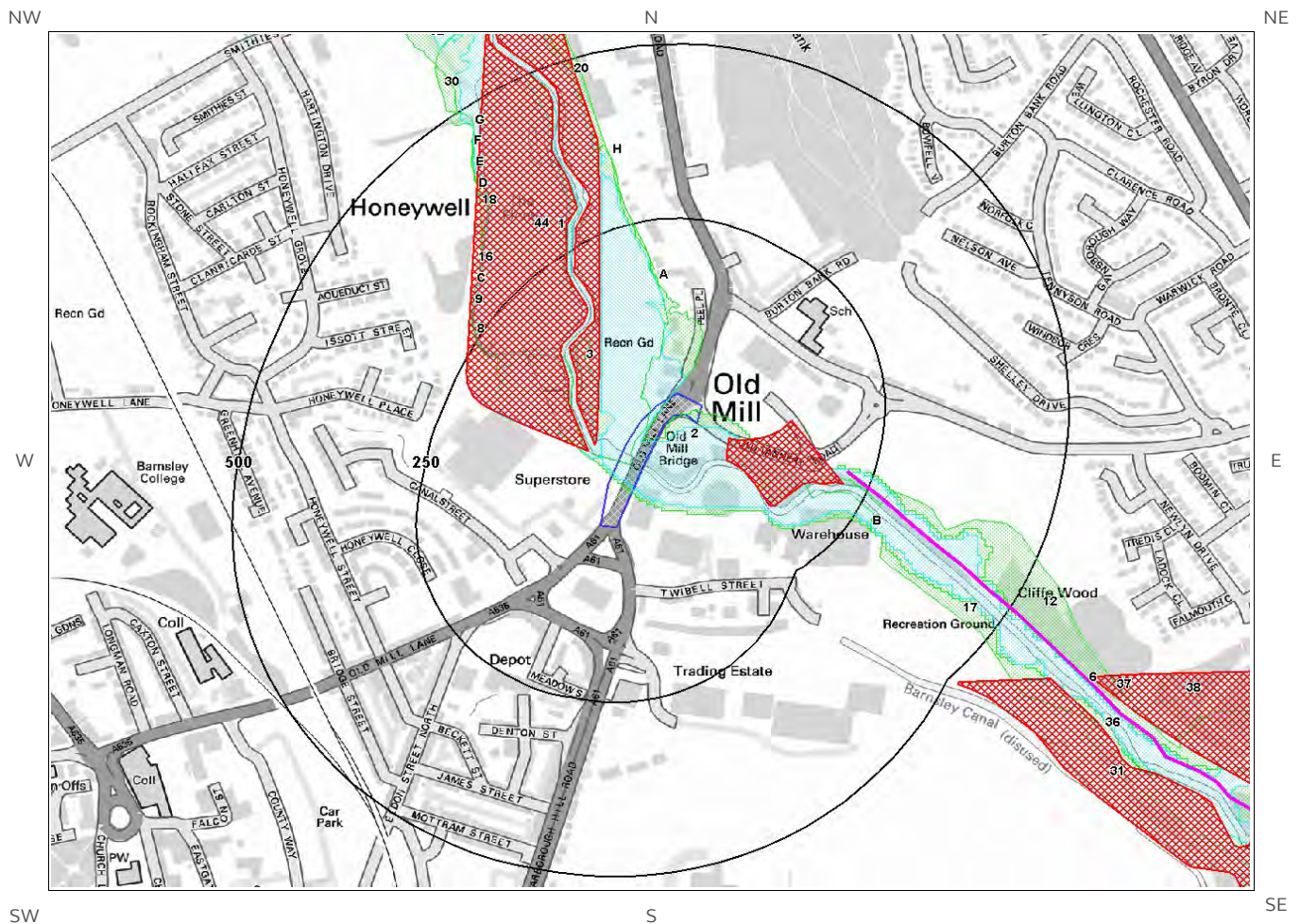
Are there any surface water features within 250m of the study site?

Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	On Site
0	On Site
80	NW
95	SE
115	NW
157	NW

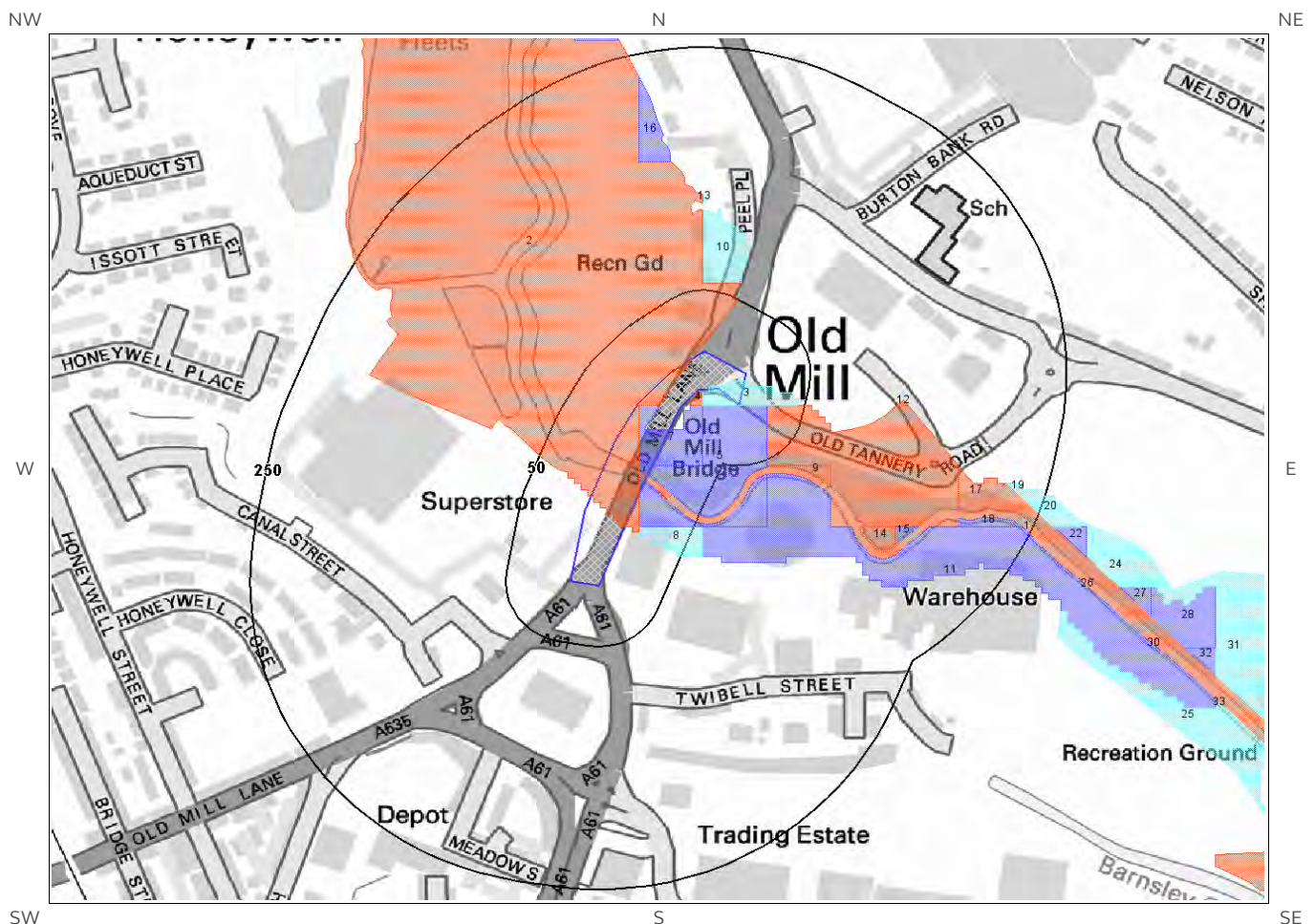
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



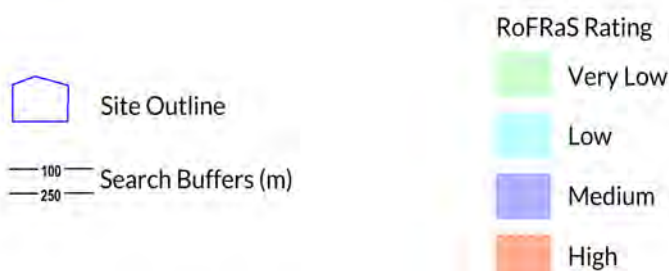
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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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? Yes

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	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
2	0	On Site	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
3	88	NW	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
4A	159	N	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
5A	160	N	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
6	173	SE	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
7	177	N	24-Nov-2017	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? Yes

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	0	On Site	24-Nov-2017	Zone 3 - (Fluvial Models)
2	23	NW	24-Nov-2017	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?

High

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 High (1 in 30 or greater) 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	High
2	0.0	On Site	High
3	0.0	On Site	Low
4	0.0	On Site	High
5	0.0	On Site	Medium
6	0.0	On Site	Medium
7	0.0	On Site	Medium
8	10.0	E	Low

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site?

Yes

The following flood defence records are represented as lines on the Flood Map:

ID	Distance (m)	Direction	Update
51	214	E	29-Nov-2017

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?

No

7.6 Areas benefiting from Flood Storage

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

Yes

7.7 Groundwater Flooding Susceptibility Areas

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

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

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

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

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

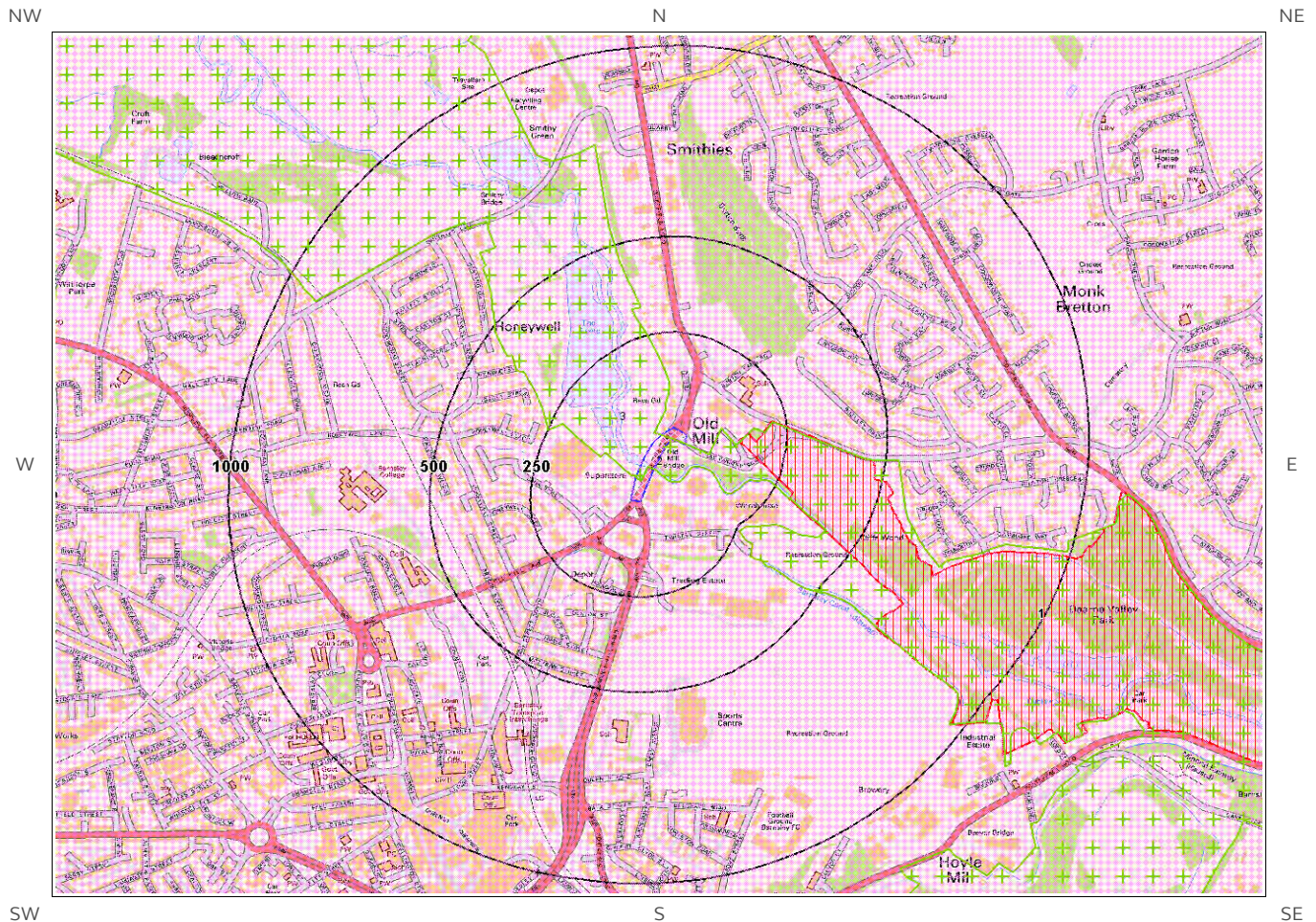
7.8 Groundwater Flooding Confidence Areas

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

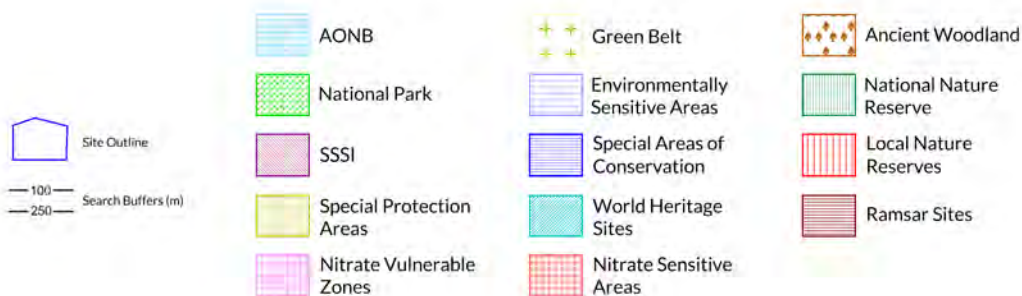
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

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

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	130	E	Dearne Valley Park	Natural England

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:

1

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
2	0	On Site	Existing	DEFRA

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

1

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

ID	Distance	Direction	Green Belt Name	Local Authority Name
3	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

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

9.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Low

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

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

9.1.2 Landslides

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

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

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

9.1.3 Soluble Rocks

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?

Moderate

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

Hazard
Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site?

Very Low

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

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

9.1.6 Running Sand

What is the maximum Running Sand** hazard rating identified on the study site?

Low

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

Hazard
Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely.

* 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 property 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?

Yes

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

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

10.2 Non-Coal Mining

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

Yes

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

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
0.0	On Site	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
0.0	On Site	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
27.0	S	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

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

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?
Guidance: No Guidance Required.

No

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 Yorkshire, S70 9GG

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



Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.

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Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:
<https://www.groundsure.com/terms-and-conditions-sept-2016>

Appendix C

Coal Authority mining report



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

PUBLIC OPEN SPACE, OLD MILL LANE,
BARNSELY, S71 1LL
SOUTH YORKSHIRE

Date of enquiry: 18 January 2018
Date enquiry received: 18 January 2018
Issue date: 18 January 2018

Our reference: 51001774043001
Your reference: GS-4670668



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

GROUNDSURE LIMITED

Enquiry address

PUBLIC OPEN SPACE, OLD MILL LANE, BARNSELY,
S71 1LL, SOUTH YORKSHIRE

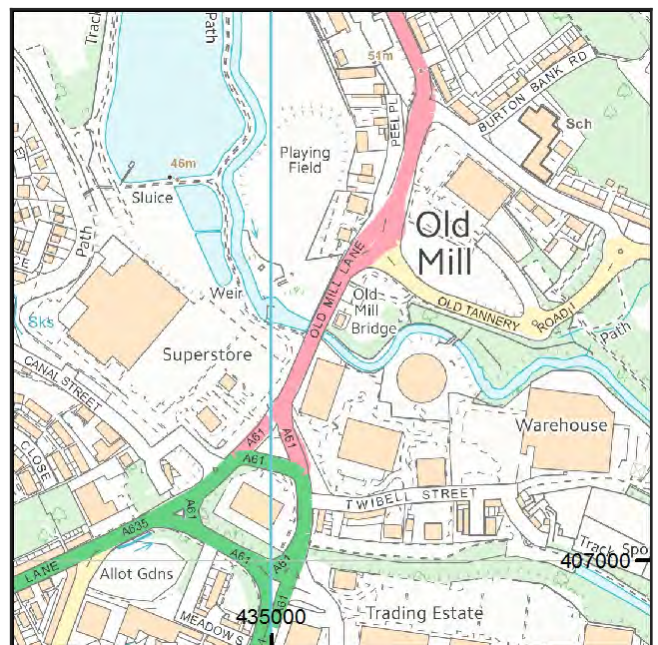
How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority
 /thecoalauthority
 /coalauthority



Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	Yes
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 3 seams of coal at 90m to 400m depth, and last worked in 1986.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

The property is in an area where notices to withdraw support were given in 1952, 1981 and 1982.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment

thereof.

14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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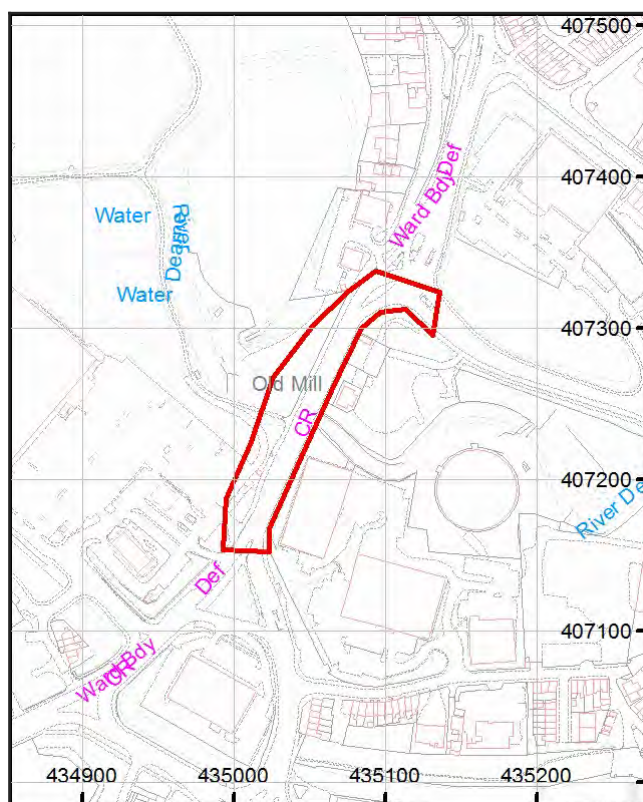
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

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 /coalauthority



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Appendix D

SYMAS mining report

BARNSELY
Metropolitan Borough Council

FAO: Michael Lewis

Your Ref: B3.088

Ext: 2689

Subject: PRINCIPAL BRIDGE INSPECTION B3.088 OLD MILL LANE BRIDGE, BARNSELY.

Made ground/landfill is recorded as being present in adjacent areas.

CONCLUSION:

The location of the bridge can be regarded as stable as it is remote from the active coalfield.

THIS REPORT IS BASED ON AND LIMITED TO THE RECORDS IN THE POSSESSION OF SYMAS AT THE TIME THE ENQUIRY IS ANSWERED.

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Report prepared by P James 29th January 2015



Principal Mining Engineer.

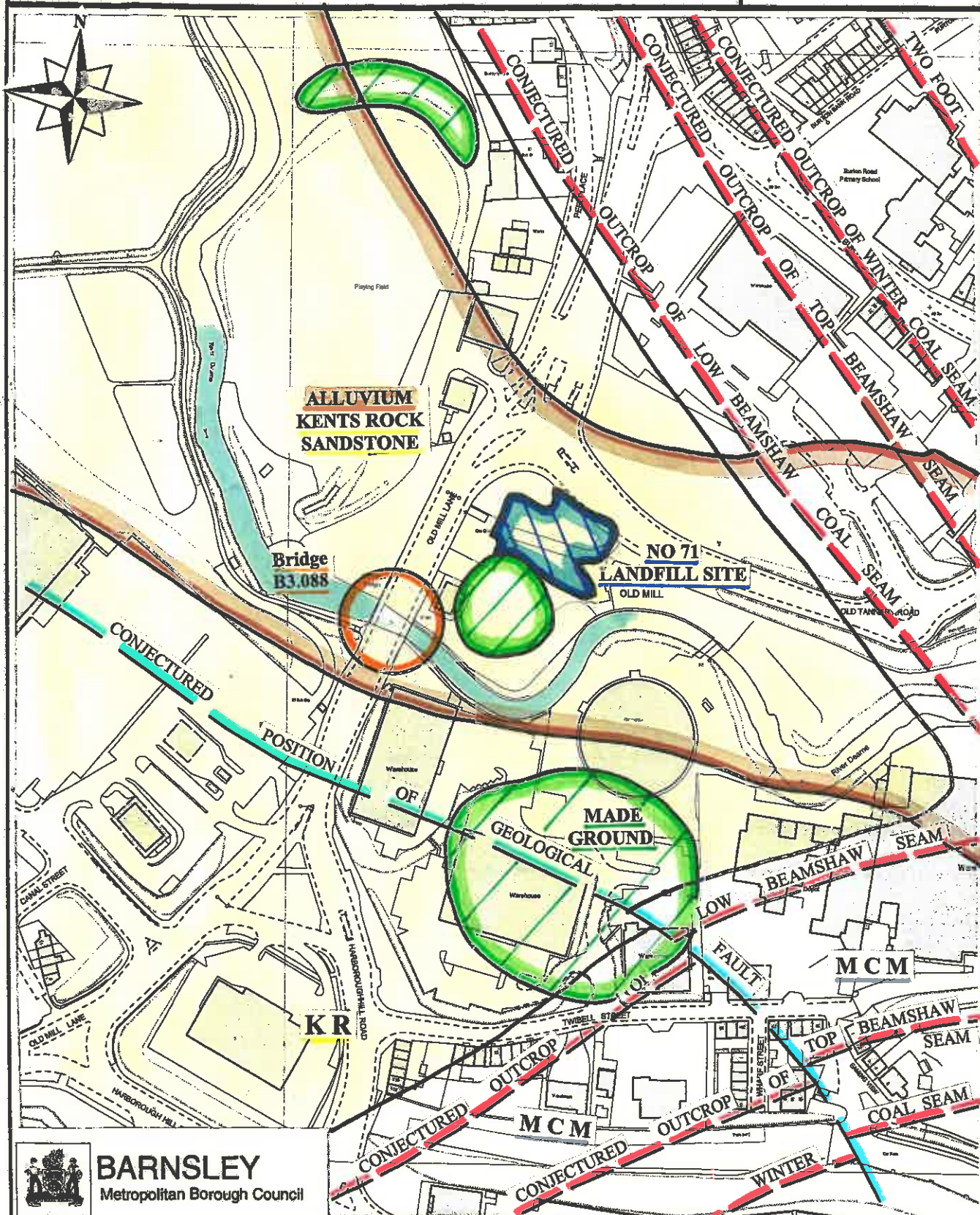
Enc.

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**M4146B/
B3.088**

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SCALE
1:2500

BARNSELEY
Metropolitan Borough Council

SCALE

1:2500

DATE _____

21.1.15

SOUTH YORKSHIRE MINING

ADVISORY SERVICE

O.S. REFERENCE

SE 3507

**P. JAMES BSc (Hons).
PRINCIPAL MINING ENGINEER**

Appendix E

Utility survey