

APPENDIX B

Enviro+GeoInsight Report

BANK TOP FARM, BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU

Order Details

Date: 15/02/2022
Your ref: 7357-22019-JE
Our Ref: GS-8520810
Client: bek enviro ltd

Site Details

Location: 393599 415664
Area: 0.32 ha
Authority: [Rochdale Metropolitan Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	3	30	77	-
19	1.2	<u>Historical tanks</u>	0	0	19	28	-
21	1.3	<u>Historical energy features</u>	0	0	0	3	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
22	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
23	2.1	<u>Historical industrial land uses</u>	0	4	35	101	-
29	2.2	<u>Historical tanks</u>	0	0	29	40	-
31	2.3	<u>Historical energy features</u>	0	0	0	3	-
32	2.4	Historical petrol stations	0	0	0	0	-
32	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	0	-
33	3.2	<u>Historical landfill (BGS records)</u>	0	0	0	1	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	1	1	-
35	3.5	Historical waste sites	0	0	0	0	-
35	3.6	Licensed waste sites	0	0	0	0	-
35	3.7	<u>Waste exemptions</u>	0	0	12	12	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
38	4.1	<u>Recent industrial land uses</u>	0	0	6	-	-
39	4.2	Current or recent petrol stations	0	0	0	0	-
39	4.3	Electricity cables	0	0	0	0	-
39	4.4	Gas pipelines	0	0	0	0	-
39	4.5	Sites determined as Contaminated Land	0	0	0	0	-



39	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	1	0	0	-
40	4.7	Regulated explosive sites	0	0	0	0	-
40	4.8	<u>Hazardous substance storage/usage</u>	0	0	3	0	-
41	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	9	0	-
42	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
42	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	0	-
42	4.12	Radioactive Substance Authorisations	0	0	0	0	-
43	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	1	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	<u>List 1 Dangerous Substances</u>	0	0	1	1	-
44	4.17	<u>List 2 Dangerous Substances</u>	0	0	1	0	-
44	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	8	-
45	4.19	Pollution inventory substances	0	0	0	0	-
45	4.20	Pollution inventory waste transfers	0	0	0	0	-
46	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
47	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
49	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
50	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
51	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
51	5.5	Groundwater vulnerability- local information	None (within 0m)				
52	5.6	<u>Groundwater abstractions</u>	0	0	0	0	6
54	5.7	<u>Surface water abstractions</u>	0	0	9	15	19
65	5.8	<u>Potable abstractions</u>	0	0	0	0	5
66	5.9	Source Protection Zones	0	0	0	0	-
67	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
68	6.1	<u>Water Network (OS MasterMap)</u>	0	0	1	-	-



69	6.2	Surface water features	0	0	2	-	-
69	6.3	WFD Surface water body catchments	1	-	-	-	-
69	6.4	WFD Surface water bodies	0	0	1	-	-
70	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
71	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
72	7.2	Historical Flood Events	0	0	1	-	-
72	7.3	Flood Defences	0	0	0	-	-
72	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
72	7.5	Flood Storage Areas	0	0	0	-	-
73	7.6	Flood Zone 2	None (within 50m)				
73	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
74	8.1	Surface water flooding	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
76	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
77	10.1	Sites of Special Scientific Interest (SSSI)	0	0	1	0	2
78	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
78	10.3	Special Areas of Conservation (SAC)	0	0	1	0	2
79	10.4	Special Protection Areas (SPA)	0	0	0	0	2
79	10.5	National Nature Reserves (NNR)	0	0	0	0	0
80	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
80	10.7	Designated Ancient Woodland	0	0	0	0	4
80	10.8	Biosphere Reserves	0	0	0	0	0
81	10.9	Forest Parks	0	0	0	0	0
81	10.10	Marine Conservation Zones	0	0	0	0	0
81	10.11	Green Belt	1	0	0	0	0
81	10.12	Proposed Ramsar sites	0	0	0	0	0



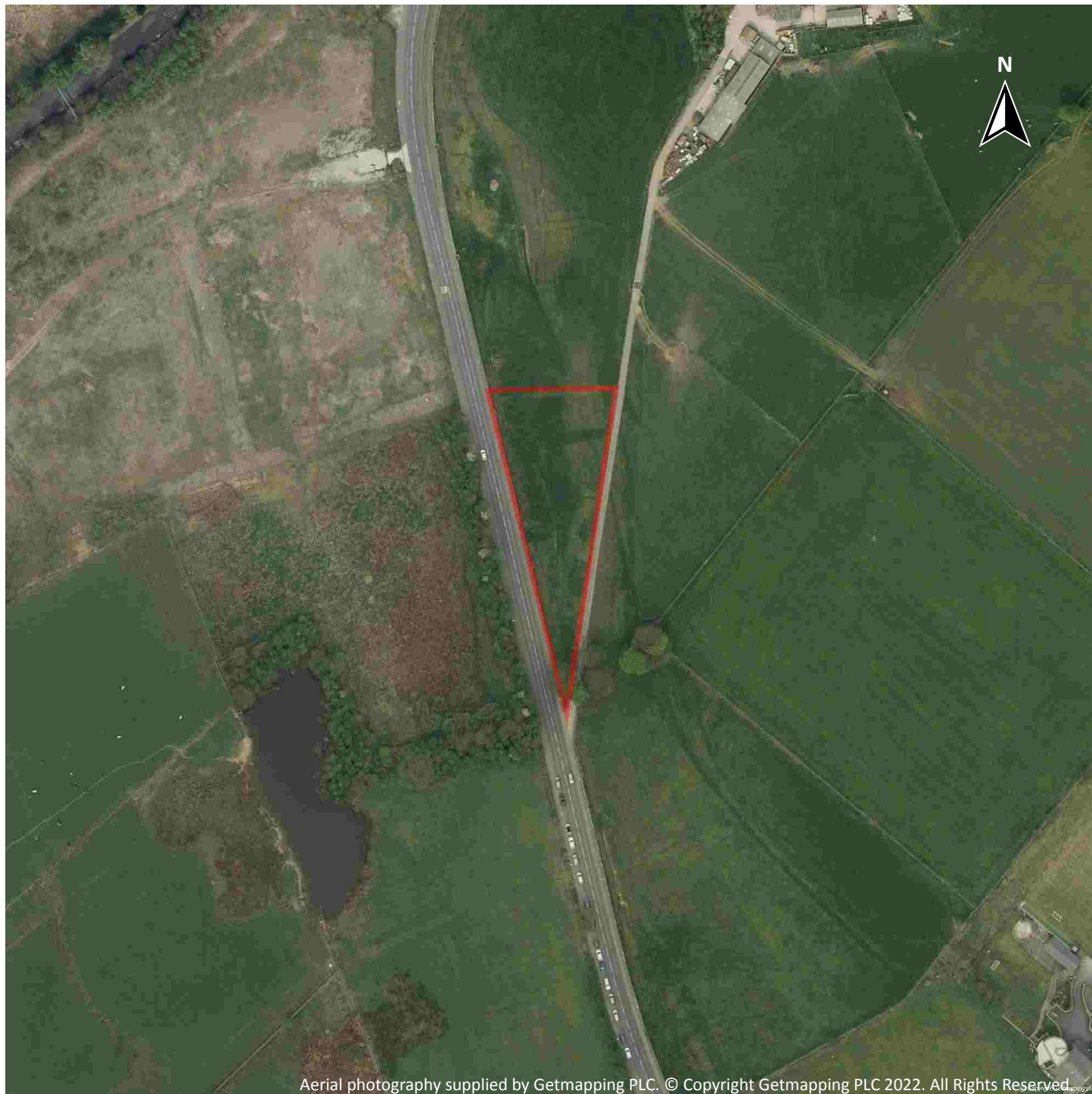
82	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
82	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
82	10.15	Nitrate Sensitive Areas	0	0	0	0	0
82	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
83	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
85	<u>10.18</u>	<u>SSSI Units</u>	0	0	1	0	2
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
87	11.1	World Heritage Sites	0	0	0	-	-
87	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
87	11.3	National Parks	0	0	0	-	-
87	11.4	Listed Buildings	0	0	0	-	-
88	11.5	Conservation Areas	0	0	0	-	-
88	11.6	Scheduled Ancient Monuments	0	0	0	-	-
88	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
89	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
90	12.2	Open Access Land	0	0	0	-	-
90	12.3	Tree Felling Licences	0	0	0	-	-
90	<u>12.4</u>	<u>Environmental Stewardship Schemes</u>	1	0	0	-	-
91	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
92	<u>13.1</u>	<u>Priority Habitat Inventory</u>	0	0	1	-	-
93	<u>13.2</u>	<u>Habitat Networks</u>	0	0	3	-	-
93	13.3	Open Mosaic Habitat	0	0	0	-	-
93	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
94	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
95	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	0	7	7	-
97	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	2	3	-

98	14.4	<u>Landslip (10k)</u>	1	0	1	2	-
99	14.5	<u>Bedrock geology (10k)</u>	2	2	4	9	-
100	14.6	<u>Bedrock faults and other linear features (10k)</u>	2	1	2	16	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
102	15.1	<u>50k Availability</u>	Identified (within 500m)				
103	15.2	<u>Artificial and made ground (50k)</u>	0	0	0	1	-
104	15.3	Artificial ground permeability (50k)	0	0	-	-	-
105	15.4	<u>Superficial geology (50k)</u>	1	0	2	3	-
106	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
106	15.6	<u>Landslip (50k)</u>	0	0	1	1	-
107	15.7	Landslip permeability (50k)	None (within 50m)				
108	15.8	<u>Bedrock geology (50k)</u>	2	2	4	7	-
109	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
110	15.10	<u>Bedrock faults and other linear features (50k)</u>	2	1	2	12	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
111	16.1	<u>BGS Boreholes</u>	0	0	1	-	-
Page	Section	Natural ground subsidence					
112	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
113	17.2	<u>Running sands</u>	Very low (within 50m)				
115	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
116	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
117	17.5	<u>Landslides</u>	Moderate (within 50m)				
119	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
121	18.1	Natural cavities	0	0	0	0	-
122	18.2	<u>BritPits</u>	0	0	1	1	-
122	18.3	<u>Surface ground workings</u>	0	4	27	-	-
124	18.4	<u>Underground workings</u>	0	0	0	24	14
125	18.5	Historical Mineral Planning Areas	0	0	0	0	-



125	18.6	Non-coal mining	0	0	0	0	0
126	18.7	Mining cavities	0	0	0	0	0
126	18.8	JPB mining areas	None (within 0m)				
126	18.9	<u>Coal mining</u>	Identified (within 0m)				
126	18.10	Brine areas	None (within 0m)				
127	18.11	Gypsum areas	None (within 0m)				
127	18.12	Tin mining	None (within 0m)				
127	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
128	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
129	20.1	<u>BGS Estimated Background Soil Chemistry</u>	2	5	-	-	-
129	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
130	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
131	21.1	Underground railways (London)	0	0	0	-	-
131	21.2	Underground railways (Non-London)	0	0	0	-	-
132	21.3	Railway tunnels	0	0	0	-	-
132	21.4	<u>Historical railway and tunnel features</u>	0	0	4	-	-
132	21.5	Royal Mail tunnels	0	0	0	-	-
133	21.6	Historical railways	0	0	0	-	-
133	21.7	Railways	0	0	0	-	-
133	21.8	Crossrail 1	0	0	0	0	-
133	21.9	Crossrail 2	0	0	0	0	-
133	21.10	HS2	0	0	0	0	-

Recent aerial photograph

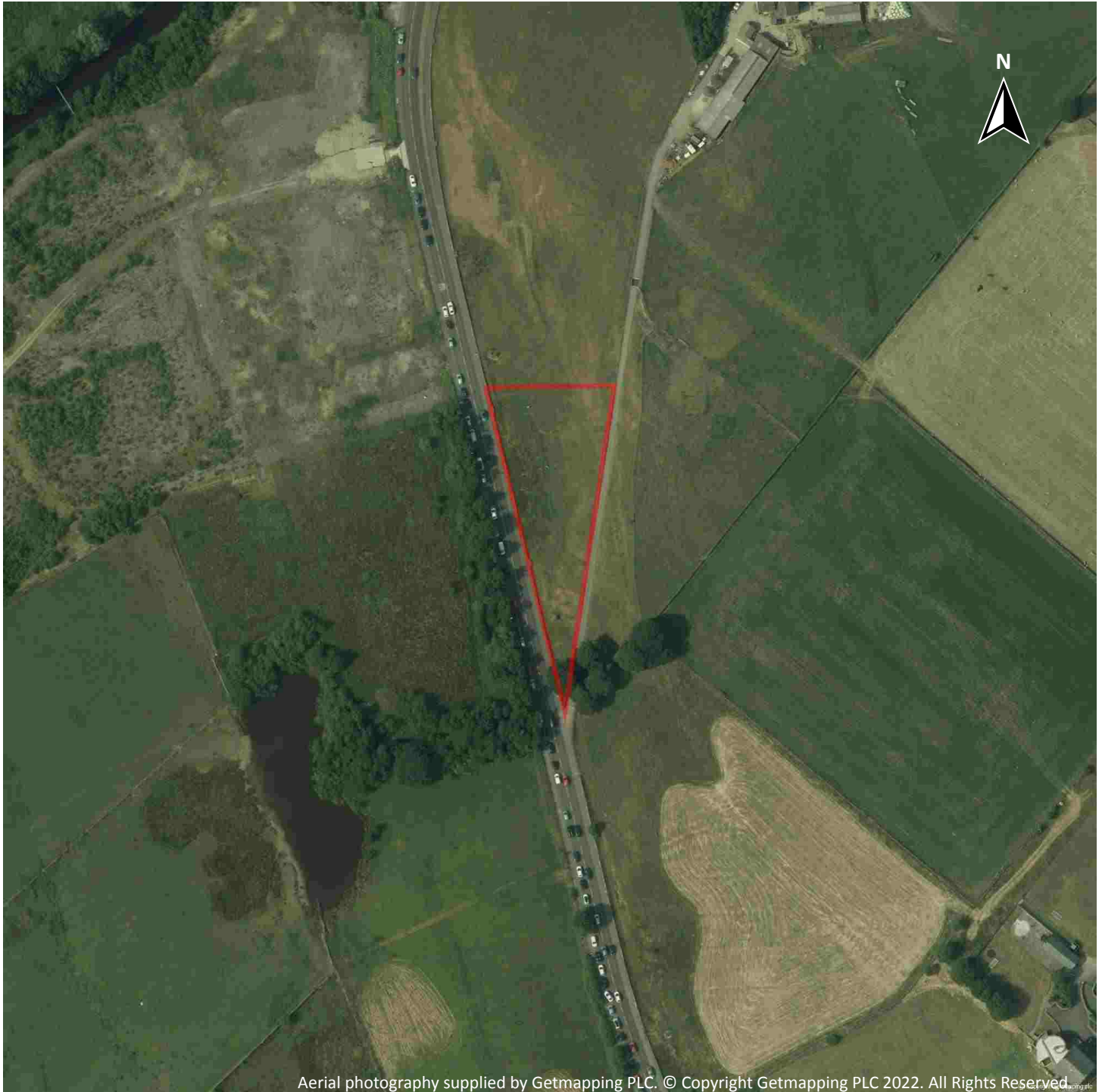


Capture Date: 23/05/2019

Site Area: 0.32ha



Recent site history - 2018 aerial photograph



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Capture Date: 01/07/2018

Site Area: 0.32ha



Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 0.32ha



Recent site history - 2001 aerial photograph



Capture Date: 12/05/2001

Site Area: 0.32ha



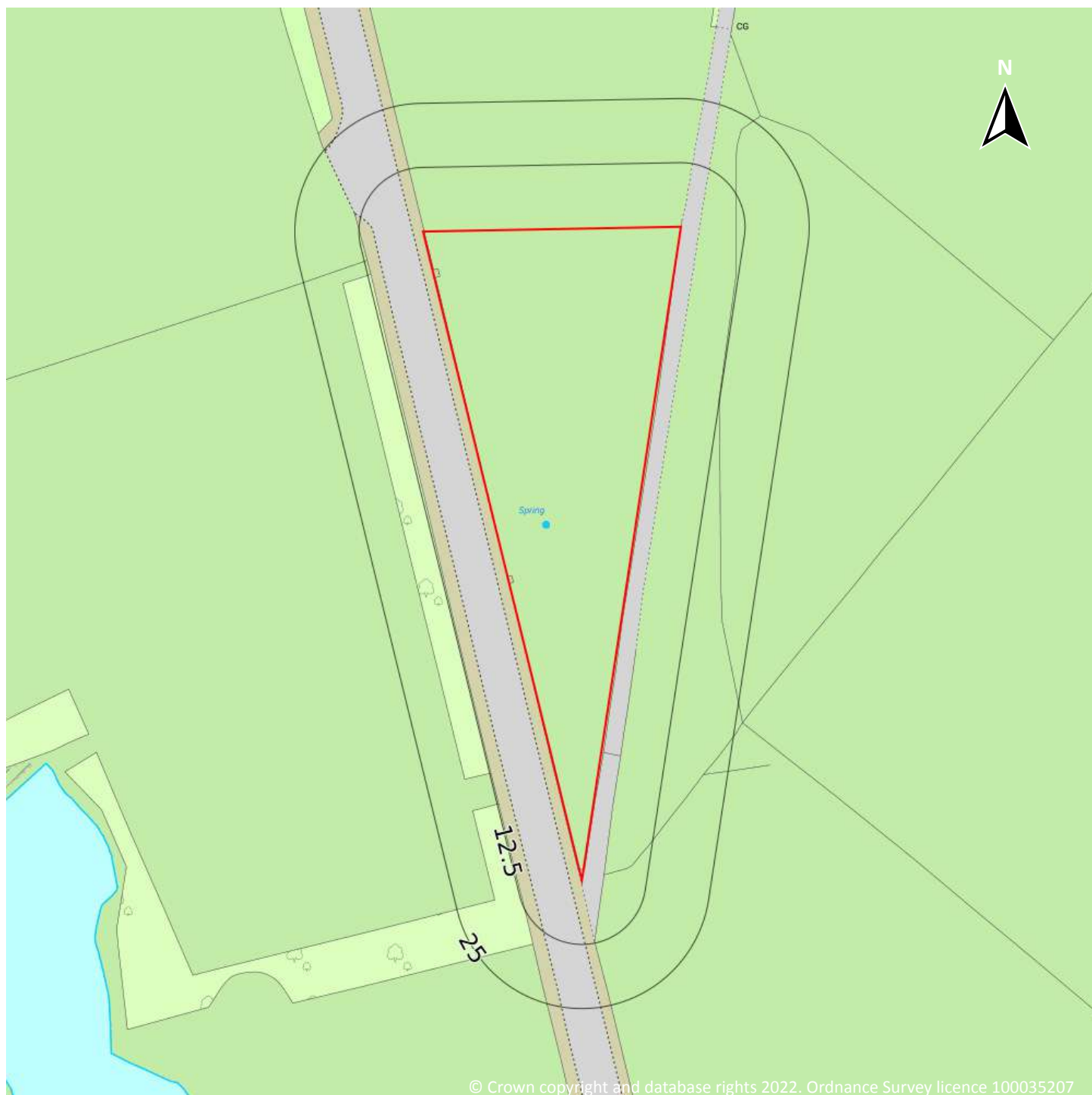
Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.32ha

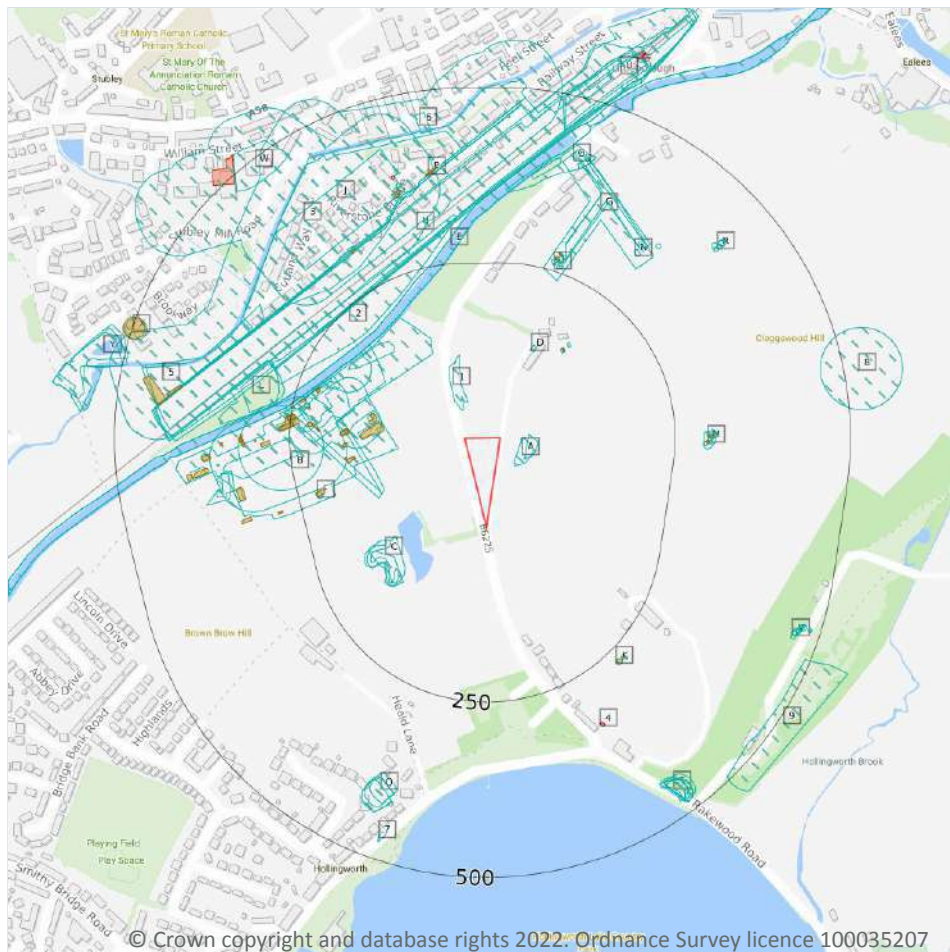
OS MasterMap site plan



Site Area: 0.32ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

110

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	25m E	Unspecified Pit	1928 - 1938	732986



ID	Location	Land use	Dates present	Group ID
A	39m E	Unspecified Pit	1949	716892
1	41m N	Unspecified Ground Workings	1938 - 1949	724535
B	96m W	Unspecified Works	1989	767216
B	120m W	Unspecified Works	1890	739128
B	121m W	Unspecified Tanks	1989	666384
B	126m NW	Unspecified Works	1938	766624
C	128m W	Unspecified Pit	1938 - 1949	744174
B	129m W	Unspecified Works	1949	714199
D	132m N	Unspecified Tank	1938	674562
B	133m W	Unspecified Tank	1989	674557
C	137m W	Unspecified Ground Workings	1928	647815
C	138m W	Unspecified Pits	1968 - 1989	763875
D	150m NE	Unspecified Tank	1928	674561
B	160m NW	Unspecified Heap	1938	650668
B	160m NW	Sandstone Quarry	1851	687452
D	161m NE	Unspecified Tank	1949	674560
B	167m W	Field Works	1908 - 1928	787507
B	169m W	Unspecified Works	1976	772044
B	169m W	Unspecified Tank	1989	674558
E	190m NW	Disused Canal	1989	752921
E	190m NW	Disused Canal	1976	754144
B	192m W	Unspecified Works	1890	750321
B	202m W	Oil Distillery	1949	665919
2	206m NW	Unspecified Pit	1989	690611
F	215m W	Unspecified Tank	1989	674698
B	227m W	Old Coal Pit	1851	682300
G	239m N	Railway Sidings	1908	754581
B	239m W	Unspecified Works	1968	697384



ID	Location	Land use	Dates present	Group ID
B	247m W	Unspecified Tanks	1989	666386
H	247m NW	Railway Sidings	1908	722984
H	248m NW	Railway Sidings	1938	722406
H	248m NW	Railway Sidings	1928	721033
H	250m NW	Railway Sidings	1949 - 1968	696002
H	251m NW	Railway Sidings	1890	780778
I	256m N	Old Air Shaft	1928 - 1938	745722
I	258m N	Clay Level	1908	672435
I	258m N	Unspecified Tank	1928	674563
J	260m NW	Unspecified Works	1968	779166
I	262m N	Unspecified Tank	1938	674564
I	266m N	Unspecified Disused Shaft	1989	664280
K	266m SE	Unspecified Tank	1928 - 1938	786311
L	266m W	Refuse Heap	1908 - 1928	745023
I	266m N	Old Air Shaft	1949	652018
G	270m N	Railway Sidings	1911	753415
K	271m SE	Unspecified Tank	1949	674697
I	272m N	Unspecified Tank	1949	674565
G	273m N	Railway Sidings	1911	748549
L	273m W	Refuse Heap	1938	785747
3	280m NW	Unspecified Works	1976	772004
M	290m E	Unspecified Heap	1938	650653
M	290m E	Unspecified Tank	1908	724296
M	290m E	Unspecified Tank	1928	759130
M	295m E	Unspecified Tank	1989	771849
M	297m E	Unspecified Tank	1911	752103
M	298m E	Unspecified Tank	1938	674559
M	304m E	Unspecified Tank	1949	780319



ID	Location	Land use	Dates present	Group ID
J	307m NW	Unspecified Works	1928 - 1938	719709
J	309m NW	Unspecified Tank	1928 - 1938	760024
J	310m NW	Tannery	1949	691825
N	324m NE	Clay Level	1908	672436
B	326m W	Unspecified Tanks	1989	666410
J	330m NW	Unspecified Commercial/Industrial	1989	643243
5	332m NW	Railway Sidings	1968	712106
B	336m W	Oil Distillery	1938	750387
N	339m NE	Clay Level	1911	716526
B	341m W	Oil Distillery	1908 - 1928	790163
N	351m NE	Coal Pit	1851	654273
O	351m N	Colliery	1851	645211
H	356m N	Unspecified Tanks	1928 - 1938	777583
B	367m W	Unspecified Tank	1989	674699
H	370m N	Unspecified Tanks	1949	666383
O	372m N	Coke Ovens	1851	682877
B	372m W	Unspecified Tanks	1989	666385
Q	380m S	Unspecified Quarry	1949 - 1968	704685
Q	388m SW	Unspecified Quarry	1938	700426
Q	389m SW	Unspecified Old Quarry	1890 - 1908	773471
Q	394m SW	Unspecified Quarry	1928	760064
O	400m N	Coke Ovens	1851	682876
R	406m NE	Old Air Shaft	1928 - 1938	763914
R	406m NE	Ventilator	1851	656647
R	417m NE	Unspecified Old Shaft	1968	651803
R	417m NE	Unspecified Disused Shaft	1976	664279
R	425m NE	Old Air Shaft	1949	652017
6	440m N	Machine Works	1908	682801



ID	Location	Land use	Dates present	Group ID
T	440m SE	Unspecified Pit	1928	790756
T	443m SE	Unspecified Ground Workings	1908	647816
T	443m SE	Unspecified Pit	1938	701602
T	444m SE	Unspecified Pit	1949 - 1976	741849
T	445m SE	Unspecified Pit	1910	716094
T	448m SE	Unspecified Pit	1910	747426
U	448m N	Railway Sidings	1911	708705
U	453m N	Railway Sidings	1892	711996
7	457m S	Sandstone Quarry	1851	687454
V	461m E	Coal Pit	1851	654271
V	462m E	Old Coal Shafts	1908	684755
V	462m E	Unspecified Old Shafts	1928 - 1938	767632
8	466m E	Unspecified Old Level	1949	763067
V	468m E	Old Coal Shafts	1911	748444
W	468m NW	Unspecified Works	1989	769545
V	468m E	Unspecified Shaft	1890	665133
V	470m E	Unspecified Disused Shaft	1968 - 1976	732659
V	474m E	Unspecified Old Shafts	1949	640176
X	479m W	Unspecified Tank	1968 - 1989	764782
V	482m E	Unspecified Shaft	1892	665138
9	484m SE	Refuse Heap	1968	677850
Y	493m W	Unspecified Mill	1928 - 1938	725376
Y	494m W	Unspecified Mill	1949	749447
Y	499m W	Glue, Grease and Manure Mill	1908	657586
U	500m N	Railway Building	1928 - 1938	754559

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

47

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	116m W	Tanks	1987	87607
B	128m W	Tanks	1987	87606
D	153m NE	Unspecified Tank	1930 - 1938	94322
B	158m W	Tanks	1987	87609
B	165m W	Tanks	1959 - 1960	103604
B	166m W	Tanks	1987	90454
B	167m W	Tanks	1987	87608
B	207m W	Unspecified Tank	1987	84036
F	212m W	Tanks	1987	87610
B	214m W	Tanks	1959 - 1960	103427
B	217m W	Tanks	1910 - 1938	103580
B	219m W	Unspecified Tank	1987	84037
B	220m W	Unspecified Tank	1891	84035
B	224m W	Tanks	1930 - 1938	97452
B	234m W	Tanks	1959 - 1987	97583
B	237m W	Tanks	1987	91626
B	244m W	Tanks	1959 - 1960	95907
B	244m W	Tanks	1960	102329
B	248m W	Unspecified Tank	1959 - 1960	95773
I	265m N	Unspecified Tank	1910 - 1937	92494
K	267m SE	Unspecified Tank	1959 - 1992	92278



ID	Location	Land use	Dates present	Group ID
K	268m SE	Unspecified Tank	1930 - 1938	94701
I	274m N	Unspecified Tank	1959 - 1960	91703
B	277m W	Unspecified Tank	1987	84044
B	277m W	Unspecified Tank	1987	84043
M	294m E	Unspecified Tank	1910 - 1938	100543
B	298m W	Unspecified Tank	1960	89940
B	298m W	Unspecified Tank	1959	94123
M	298m E	Unspecified Tank	1959 - 1960	92676
J	309m NW	Unspecified Tank	1930 - 1937	97900
B	314m W	Tanks	1959	88651
B	314m W	Tanks	1960	103058
B	317m W	Unspecified Tank	1987	84039
B	317m W	Tanks	1987	94683
B	322m W	Unspecified Tank	1987	84045
B	324m W	Tanks	1987	87611
B	345m W	Unspecified Tank	1987	84042
H	356m N	Tanks	1930	87605
B	364m W	Tanks	1987	87612
H	366m N	Unspecified Tank	1937	84064
B	369m W	Tanks	1987	87613
P	378m N	Tanks	1985	92387
P	378m N	Tanks	1959 - 1960	97739
B	392m W	Tanks	1987	87614
S	410m W	Unspecified Tank	1938	84038
S	429m W	Tanks	1938	87598
X	482m W	Unspecified Tank	1959 - 1987	96920

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m**3**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
4	323m SE	Electricity Substation	1992	45410
H	383m N	Electricity Substation	1988	45411
W	490m NW	Electricity Substation	1910	47018

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

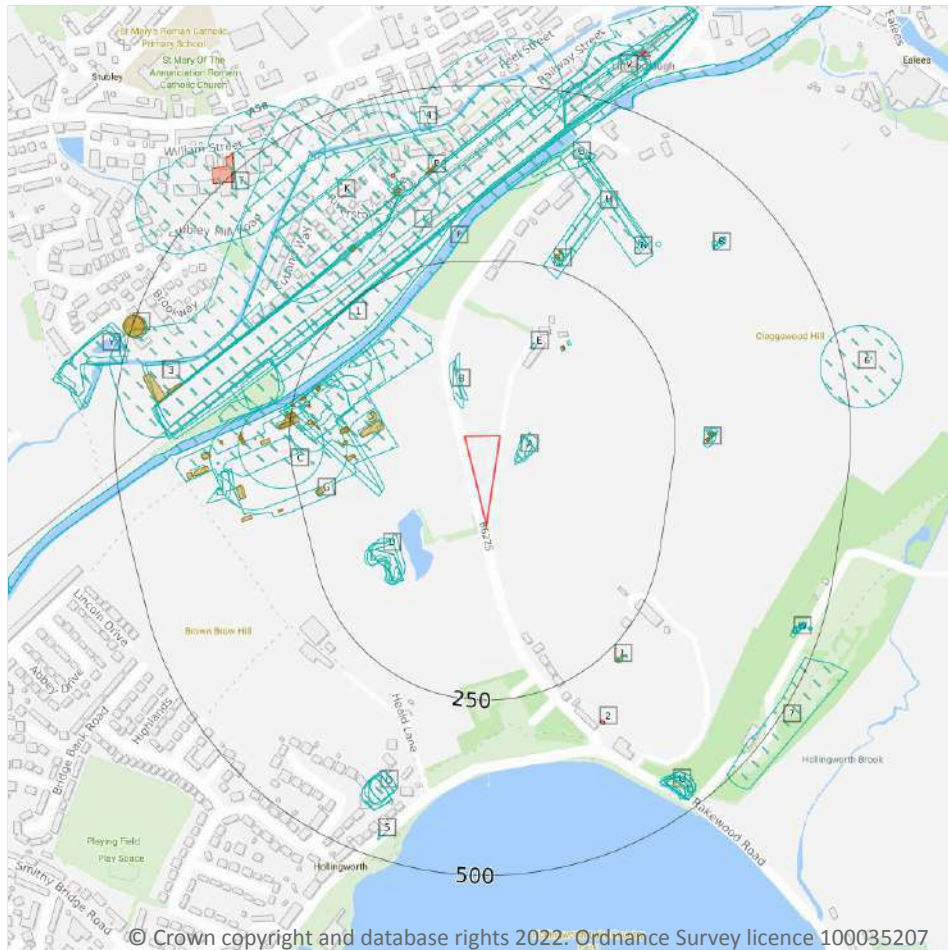
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

140

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
A	25m E	Unspecified Pit	1928	732986
A	27m E	Unspecified Pit	1938	732986
A	39m E	Unspecified Pit	1949	716892



ID	Location	Land Use	Date	Group ID
B	41m N	Unspecified Ground Workings	1938	724535
B	51m N	Unspecified Ground Workings	1949	724535
C	96m W	Unspecified Works	1989	767216
C	120m W	Unspecified Works	1890	739128
C	121m W	Unspecified Tanks	1989	666384
C	126m NW	Unspecified Works	1938	766624
D	128m W	Unspecified Pit	1949	744174
C	129m W	Unspecified Works	1949	714199
E	132m N	Unspecified Tank	1938	674562
C	133m W	Unspecified Tank	1989	674557
D	134m W	Unspecified Pit	1938	744174
D	137m W	Unspecified Ground Workings	1928	647815
D	138m W	Unspecified Pits	1989	763875
D	138m W	Unspecified Pits	1976	763875
D	138m W	Unspecified Pits	1968	763875
E	150m NE	Unspecified Tank	1928	674561
C	160m NW	Unspecified Heap	1938	650668
C	160m NW	Sandstone Quarry	1851	687452
E	161m NE	Unspecified Tank	1949	674560
C	167m W	Field Works	1928	787507
C	167m W	Field Works	1908	787507
C	169m W	Unspecified Works	1976	772044
C	169m W	Unspecified Tank	1989	674558
F	190m NW	Disused Canal	1989	752921
F	190m NW	Disused Canal	1976	754144
C	192m W	Unspecified Works	1890	750321
C	202m W	Oil Distillery	1949	665919
1	206m NW	Unspecified Pit	1989	690611

ID	Location	Land Use	Date	Group ID
G	215m W	Unspecified Tank	1989	674698
C	227m W	Old Coal Pit	1851	682300
H	239m N	Railway Sidings	1908	754581
C	239m W	Unspecified Works	1968	697384
C	247m W	Unspecified Tanks	1989	666386
I	247m NW	Railway Sidings	1908	722984
I	248m NW	Railway Sidings	1938	722406
I	248m NW	Railway Sidings	1928	721033
I	250m NW	Railway Sidings	1949	696002
I	250m NW	Railway Sidings	1968	696002
I	251m NW	Railway Sidings	1890	780778
J	256m N	Old Air Shaft	1928	745722
J	257m N	Old Air Shaft	1938	745722
J	258m N	Unspecified Tank	1928	674563
J	258m N	Clay Level	1908	672435
K	260m NW	Unspecified Works	1968	779166
J	262m N	Unspecified Tank	1938	674564
J	266m N	Unspecified Disused Shaft	1989	664280
L	266m SE	Unspecified Tank	1928	786311
C	266m W	Refuse Heap	1928	745023
J	266m N	Old Air Shaft	1949	652018
L	268m SE	Unspecified Tank	1938	786311
H	270m N	Railway Sidings	1911	753415
L	271m SE	Unspecified Tank	1949	674697
J	272m N	Unspecified Tank	1949	674565
C	273m W	Refuse Heap	1938	785747
H	273m N	Railway Sidings	1911	748549
K	280m NW	Unspecified Works	1976	772004



ID	Location	Land Use	Date	Group ID
M	290m E	Unspecified Tank	1928	759130
M	290m E	Unspecified Tank	1908	724296
M	290m E	Unspecified Heap	1938	650653
M	295m E	Unspecified Tank	1989	771849
C	296m W	Refuse Heap	1908	745023
M	297m E	Unspecified Tank	1911	752103
M	298m E	Unspecified Tank	1911	752103
M	298m E	Unspecified Tank	1938	674559
M	304m E	Unspecified Tank	1949	780319
K	307m NW	Unspecified Works	1938	719709
K	309m NW	Unspecified Tank	1938	760024
K	310m NW	Tannery	1949	691825
K	311m NW	Unspecified Tank	1928	760024
N	324m NE	Clay Level	1908	672436
C	326m W	Unspecified Tanks	1989	666410
K	329m NW	Unspecified Works	1928	719709
K	330m NW	Unspecified Commercial/Industrial	1989	643243
3	332m NW	Railway Sidings	1968	712106
C	336m W	Oil Distillery	1938	750387
N	339m NE	Clay Level	1911	716526
N	339m NE	Clay Level	1911	716526
C	341m W	Oil Distillery	1928	790163
C	341m W	Oil Distillery	1908	790163
N	351m NE	Coal Pit	1851	654273
O	351m N	Colliery	1851	645211
I	356m N	Unspecified Tanks	1928	777583
I	356m N	Unspecified Tanks	1938	777583
C	367m W	Unspecified Tank	1989	674699

ID	Location	Land Use	Date	Group ID
I	370m N	Unspecified Tanks	1949	666383
O	372m N	Coke Ovens	1851	682877
C	372m W	Unspecified Tanks	1989	666385
Q	380m S	Unspecified Quarry	1949	704685
Q	380m S	Unspecified Quarry	1968	704685
Q	388m SW	Unspecified Quarry	1938	700426
Q	389m SW	Unspecified Old Quarry	1890	773471
Q	394m SW	Unspecified Quarry	1928	760064
Q	394m SW	Unspecified Old Quarry	1908	773471
O	400m N	Coke Ovens	1851	682876
R	406m NE	Old Air Shaft	1928	763914
R	406m NE	Ventilator	1851	656647
R	412m NE	Old Air Shaft	1938	763914
T	415m NW	Unspecified Works	1976	772004
R	417m NE	Unspecified Disused Shaft	1976	664279
R	417m NE	Unspecified Old Shaft	1968	651803
R	425m NE	Old Air Shaft	1949	652017
4	440m N	Machine Works	1908	682801
U	440m SE	Unspecified Pit	1928	790756
U	443m SE	Unspecified Ground Workings	1908	647816
U	443m SE	Unspecified Pit	1938	701602
U	444m SE	Unspecified Pit	1976	741849
U	444m SE	Unspecified Pit	1949	741849
U	444m SE	Unspecified Pit	1968	741849
U	445m SE	Unspecified Pit	1910	716094
U	448m SE	Unspecified Pit	1910	747426
U	448m SE	Unspecified Pit	1910	747426
V	448m N	Railway Sidings	1911	708705

ID	Location	Land Use	Date	Group ID
V	450m N	Railway Sidings	1911	708705
V	453m N	Railway Sidings	1892	711996
5	457m S	Sandstone Quarry	1851	687454
W	461m E	Coal Pit	1851	654271
W	462m E	Old Coal Shafts	1908	684755
W	462m E	Unspecified Old Shafts	1928	767632
W	466m E	Unspecified Old Shafts	1938	767632
6	466m E	Unspecified Old Level	1949	763067
W	468m E	Old Coal Shafts	1911	748444
T	468m NW	Unspecified Works	1989	769545
W	468m E	Old Coal Shafts	1911	748444
W	468m E	Unspecified Shaft	1890	665133
W	470m E	Unspecified Disused Shaft	1976	732659
W	470m E	Unspecified Disused Shaft	1968	732659
W	474m E	Unspecified Old Shafts	1949	640176
X	479m W	Unspecified Tank	1989	764782
X	479m W	Unspecified Tank	1976	764782
X	479m W	Unspecified Tank	1968	764782
W	482m E	Unspecified Shaft	1892	665138
7	484m SE	Refuse Heap	1968	677850
Y	493m W	Unspecified Mill	1938	725376
Y	494m W	Unspecified Mill	1949	749447
Y	499m W	Unspecified Mill	1928	725376
Y	499m W	Glue, Grease and Manure Mill	1908	657586
V	500m N	Railway Building	1928	754559

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

69

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
C	116m W	Tanks	1987	87607
C	128m W	Tanks	1987	87606
E	153m NE	Unspecified Tank	1930	94322
E	153m NE	Unspecified Tank	1938	94322
C	158m W	Tanks	1987	87609
C	165m W	Tanks	1959	103604
C	165m W	Tanks	1960	103604
C	166m W	Tanks	1987	90454
C	167m W	Tanks	1987	87608
C	207m W	Unspecified Tank	1987	84036
G	212m W	Tanks	1987	87610
C	214m W	Tanks	1959	103427
C	215m W	Tanks	1960	103427
C	217m W	Tanks	1910	103580
C	217m W	Tanks	1930	103580
C	217m W	Tanks	1938	103580
C	219m W	Unspecified Tank	1987	84037
C	220m W	Unspecified Tank	1891	84035
C	224m W	Tanks	1930	97452
C	224m W	Tanks	1938	97452
C	234m W	Tanks	1959	97583
C	234m W	Tanks	1960	97583
C	236m W	Tanks	1987	97583



ID	Location	Land Use	Date	Group ID
C	237m W	Tanks	1987	91626
C	244m W	Tanks	1959	95907
C	244m W	Tanks	1960	102329
C	245m W	Tanks	1960	95907
C	248m W	Unspecified Tank	1959	95773
C	248m W	Unspecified Tank	1960	95773
J	265m N	Unspecified Tank	1910	92494
J	265m N	Unspecified Tank	1930	92494
J	265m N	Unspecified Tank	1937	92494
L	267m SE	Unspecified Tank	1992	92278
L	267m SE	Unspecified Tank	1960	92278
L	267m SE	Unspecified Tank	1959	92278
L	268m SE	Unspecified Tank	1930	94701
L	268m SE	Unspecified Tank	1938	94701
J	274m N	Unspecified Tank	1959	91703
J	274m N	Unspecified Tank	1960	91703
C	277m W	Unspecified Tank	1987	84044
C	277m W	Unspecified Tank	1987	84043
M	294m E	Unspecified Tank	1910	100543
M	294m E	Unspecified Tank	1930	100543
M	294m E	Unspecified Tank	1938	100543
C	298m W	Unspecified Tank	1959	94123
C	298m W	Unspecified Tank	1960	89940
M	298m E	Unspecified Tank	1960	92676
M	299m E	Unspecified Tank	1959	92676
K	309m NW	Unspecified Tank	1930	97900
K	309m NW	Unspecified Tank	1937	97900
C	314m W	Tanks	1959	88651

ID	Location	Land Use	Date	Group ID
C	314m W	Tanks	1960	103058
C	317m W	Unspecified Tank	1987	84039
C	317m W	Tanks	1987	94683
C	322m W	Unspecified Tank	1987	84045
C	324m W	Tanks	1987	87611
C	345m W	Unspecified Tank	1987	84042
I	356m N	Tanks	1930	87605
C	364m W	Tanks	1987	87612
I	366m N	Unspecified Tank	1937	84064
C	369m W	Tanks	1987	87613
P	378m N	Tanks	1985	92387
P	378m N	Tanks	1959	97739
P	378m N	Tanks	1960	97739
C	392m W	Tanks	1987	87614
S	410m W	Unspecified Tank	1938	84038
S	429m W	Tanks	1938	87598
X	482m W	Unspecified Tank	1959	96920
X	484m W	Unspecified Tank	1987	96920

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

3

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
2	323m SE	Electricity Substation	1992	45410
I	383m N	Electricity Substation	1988	45411



ID	Location	Land Use	Date	Group ID
T	490m NW	Electricity Substation	1910	47018

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

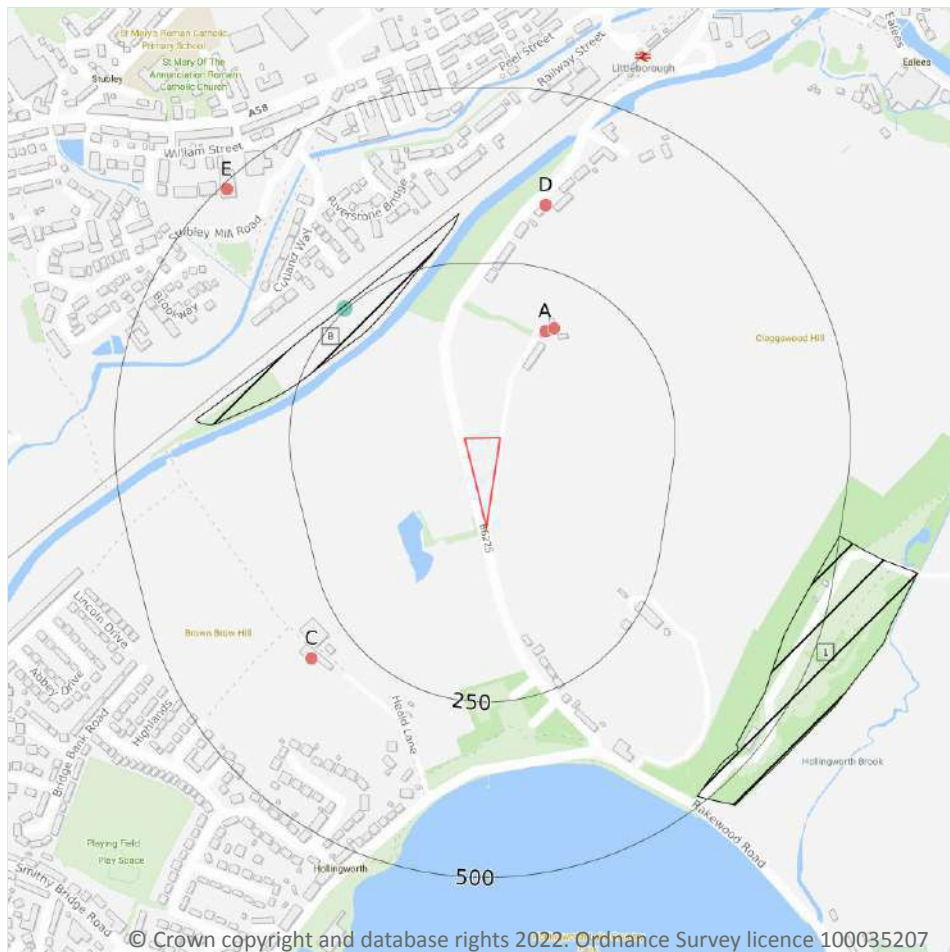
Records within 500m	0
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

1

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Address	BGS Number	Risk	Waste Type
B	253m NW	Clough Field Works, Canal Side, L'borough, Lancs	504	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0
----------------------------	----------

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	2
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Details		
B	207m NW	Site Address: Clough Field Works, Canal Side, Littleborough, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Armourthess Chemicals Limited Licence Holder: - First Recorded 31/12/1835 Last Recorded: -
1	451m E	Site Address: Rakewood Road, Littleborough, Greater Manchester, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D058 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Littleborough Urban District Council Licence Holder: - First Recorded 31/12/1932 Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

24

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Using waste exemption	On a farm	Use of waste in construction
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Disposing of waste exemption	On a farm	Burning waste in the open
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
A	165m NE	BANK TOP, HOLLINGWORTH ROAD, LITTLEBOROUGH, OL15 0AU	WEX169759	Using waste exemption	On a farm	Use of mulch
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
A	174m NE	Bank Top Hollingworth Road LITTLEBOROUGH Lancashire OL15 0AU	EPR/RH0077LF /A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
C	313m SW	LOWER CLEGGSWOOD FARM, HEALD LANE, LITTLEBOROUGH, OL15 0AE	WEX005867	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	313m SW	LOWER CLEGGSWOOD FARM, HEALD LANE, LITTLEBOROUGH, OL15 0AE	WEX005867	Using waste exemption	On a farm	Use of waste for a specified purpose

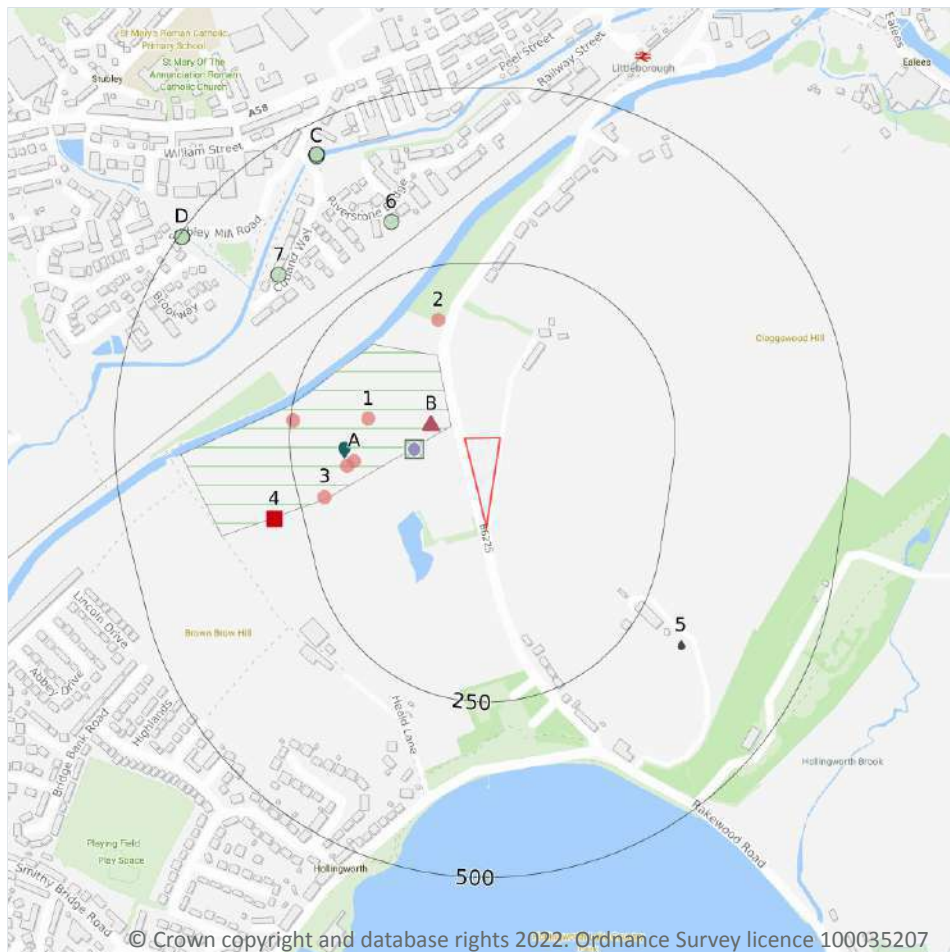


ID	Location	Site	Reference	Category	Sub-Category	Description
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Disposing of waste exemption	On a farm	Burning waste in the open
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Using waste exemption	On a farm	Use of waste in construction
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Using waste exemption	On a farm	Use of mulch
D	338m N	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	WEX011255	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	492m NW	BUTTERWORTH STREET, LITTLEBOROUGH, OL15 8JS	WEX228871	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
E	492m NW	BUTTERWORTH STREET, LITTLEBOROUGH, OL15 8JS	WEX228871	Treating waste exemption	Not on a farm	Manual treatment of waste
E	492m NW	BUTTERWORTH STREET, LITTLEBOROUGH, OL15 8JS	WEX230809	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	492m NW	BUTTERWORTH STREET, LITTLEBOROUGH, OL15 8JS	WEX085853	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Company	Address	Activity	Category
1	141m W	Tanks	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
A	161m W	Tank	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
A	173m W	Tank	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
2	173m N	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	214m W	Tanks	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
A	246m W	Tanks	Greater Manchester, OL15	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

1

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Company	Address	Operational status	Tier
A	26m NW	Akzo Chemie (uk) Ltd	Akzo Chemie (uk) Ltd, Hollingworth Road, Littleborough, OL15 0BA	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
----------------------------	----------

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	3
----------------------------	----------

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Details	
B	52m NW	Application reference number: 01/D38893 Application status: Approved Application date: 30/05/2001 Address: Akzo Nobel Chemicals Ltd, Cloughfield Works, Hollingworth Road, Littleborough, Rochdale, Lancashire, England, OL15 0NE	Details: Application for Hazardous Substances Consent. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	52m NW	Application reference number: 99/D37052 Application status: Historical Consent Application date: 15/10/1999 Address: Akzo Nobel Chemicals Ltd, Hollingworth Road, Littleborough, Lancashire, OL15 0BA	Details: Application for consent to store hazardous substances. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	54m NW	Application reference number: 92/D28806 Application status: Historical Consent Application date: 17/11/2002 Address: Akzo Nobel Chemicals Ltd, Hollingworth Road, Littleborough, Lancashire, OL15 0BA	Details: Application for Hazardous Substances Consent (Deemed Consent). Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

9

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Details	
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Combustion Processes Permit Number: AG5552	Original Permit Number: IPCAIRAPP Date Approved: 17-2-1993 Effective Date: 17-2-1993 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Combustion Processes Permit Number: AJ3948	Original Permit Number: IPCMINVAR Date Approved: 16-9-1993 Effective Date: 16-9-1993 Status: Revoked
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Manufacture And Use Of Organic Chemicals Permit Number: AK3412	Original Permit Number: IPCAIRAPP Date Approved: 21-2-1994 Effective Date: 21-2-1994 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Manufacture And Use Of Organic Chemicals Permit Number: AW1454	Original Permit Number: IPCMINVAR Date Approved: 3-11-1997 Effective Date: 3-11-1997 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Manufacture And Use Of Organic Chemicals Permit Number: BD6522	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Inorganic Chemical Processes Permit Number: BG8181	Original Permit Number: IPCAPP Date Approved: 11-11-1999 Effective Date: 15-11-1999 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Inorganic Chemical Processes Permit Number: BI3148	Original Permit Number: IPCMINVAR Date Approved: 8-6-2000 Effective Date: 19-6-2000 Status: Revoked



ID	Location	Details	
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Manufacture And Use Of Organic Chemicals Permit Number: BJ8448	Original Permit Number: IPCMINVAR Date Approved: 20-12-2000 Effective Date: 20-12-2000 Status: Superseded By Variation
B	73m W	Operator: Akzo Nobel Chemicals Ltd Address: Hollingworth Road, Littleborough, Lancashire, OL15 0BA Process: Manufacture And Use Of Organic Chemicals Permit Number: BL3412	Original Permit Number: IPCMINVAR Date Approved: 5-9-2001 Effective Date: 10-9-2001 Status: Revoked

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0
----------------------------	----------

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	1
----------------------------	----------

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Address	Details	
A	172m W	Akzo Chemicals Ltd, Hollingworth Rd	Process: Chemical & Acid Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
----------------------------	----------

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

1

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Address	Details	
5	324m SE	CLEGGSWOOD FARM, HOLLINGWORTH LAKE, LITTLEBOROUGH, ROCHDALE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993939 Permit Version: 1 Receiving Water: LAND VIA SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/08/2007 Effective Date: 23/08/2007 Revocation Date: 15/09/2009

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

2

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	74m W	Akzo Nobel Chemicals Ltd	Not Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium



ID	Location	Name	Status	Receiving Water	Authorised Substances
4	292m W	Akzo Nobel Chemicals	Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	1
----------------------------	----------

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	74m W	Akzo Nobel Chemicals Ltd, Hollingworth Road Littleborough	Not Active	River Roch	Zinc

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	8
----------------------------	----------

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 38**

ID	Location	Details	
6	326m N	Incident Date: 21/06/2001 Incident Identification: 10682 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
7	352m NW	Incident Date: 02/05/2001 Incident Identification: 4163 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	455m NW	Incident Date: 18/08/2002 Incident Identification: 101261 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
C	456m NW	Incident Date: 04/09/2002 Incident Identification: 107304 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	457m NW	Incident Date: 14/12/2001 Incident Identification: 48154 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	457m NW	Incident Date: 03/06/2007 Incident Identification: 499854 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	496m NW	Incident Date: 11/04/2003 Incident Identification: 150418 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	496m NW	Incident Date: 11/04/2003 Incident Identification: 150418 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0
----------------------------	----------

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0
----------------------------	----------

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.21 Pollution inventory radioactive waste

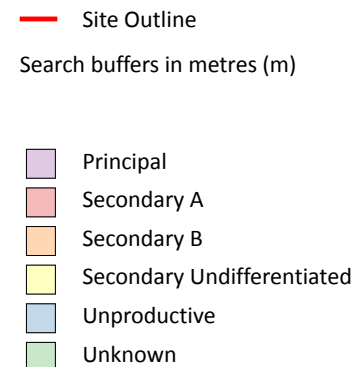
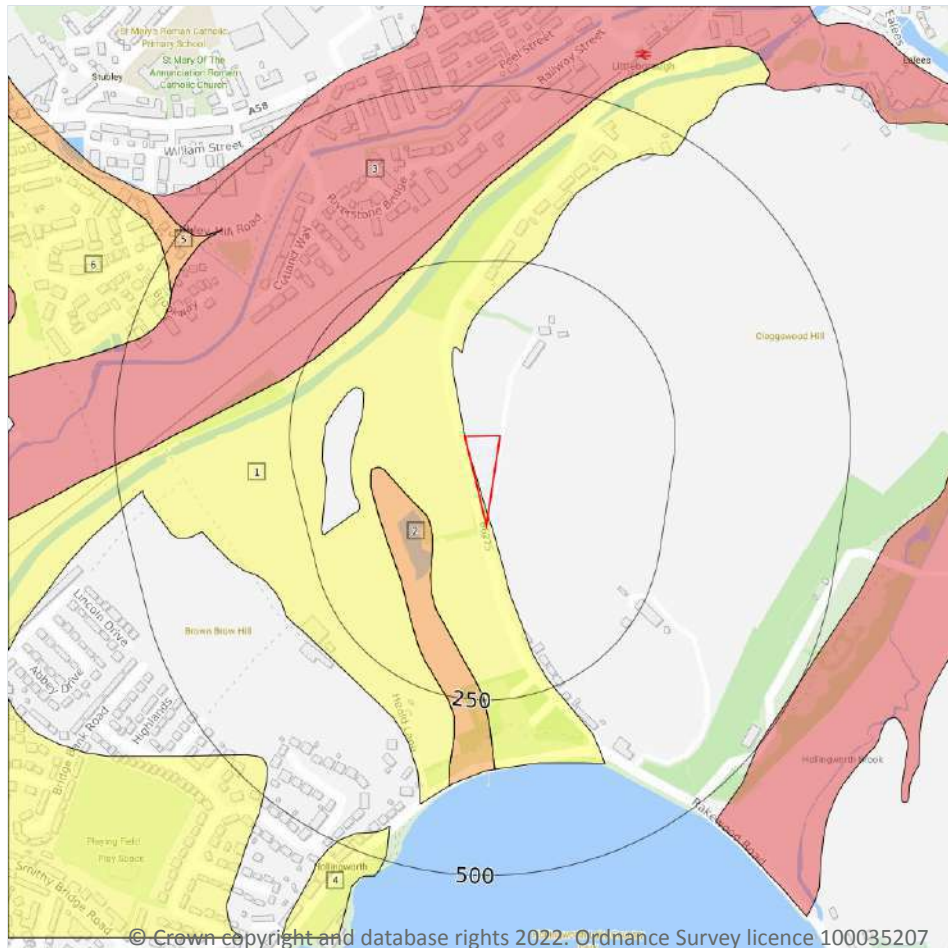
Records within 500m
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 47**

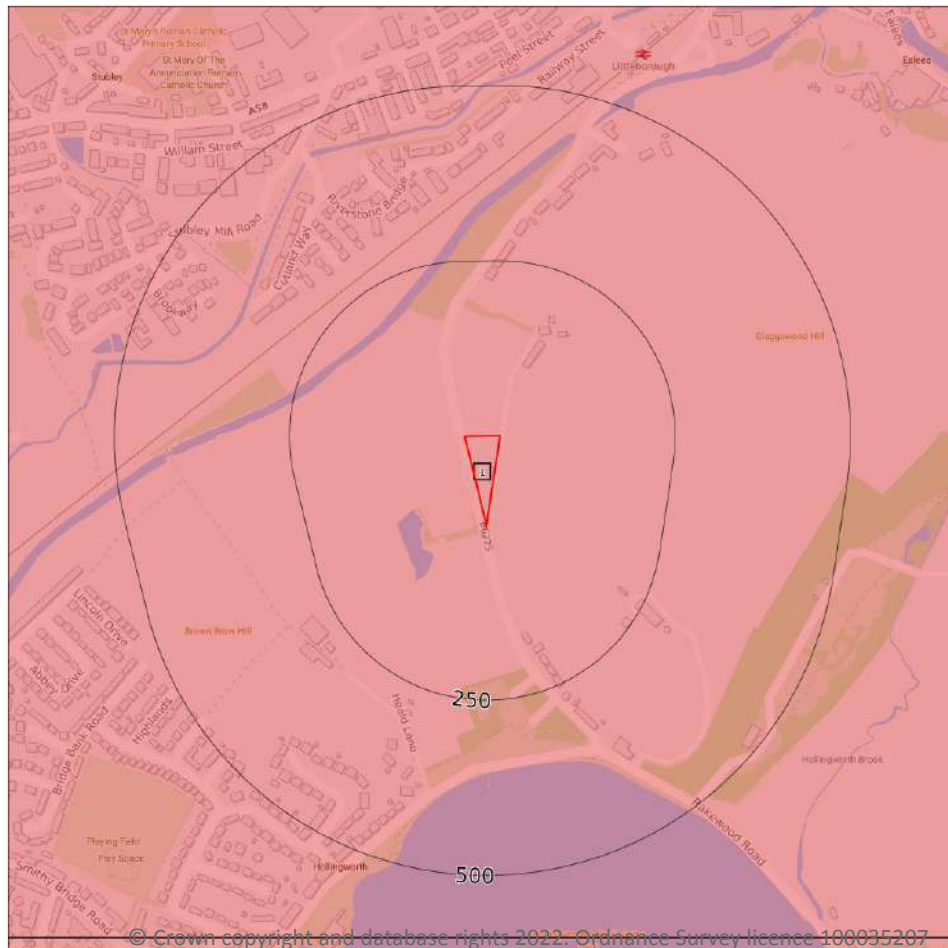
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	78m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Location	Designation	Description
3	223m 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
4	451m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	456m NW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
6	461m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

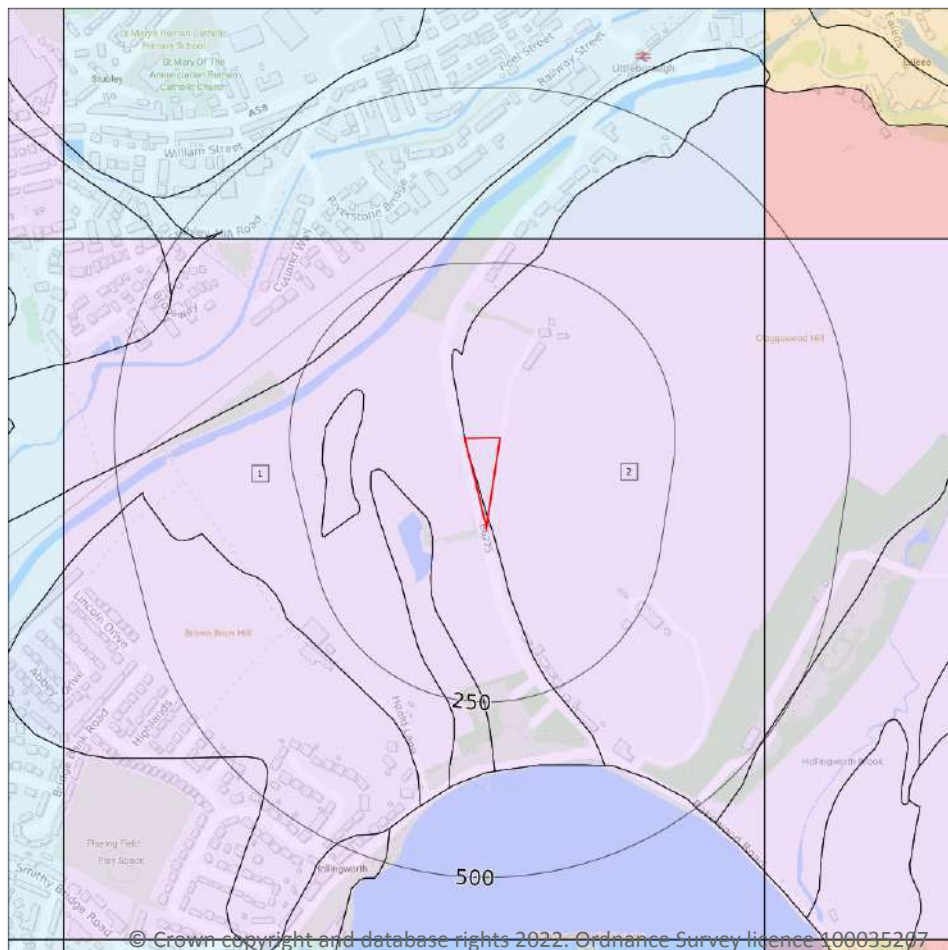
Features are displayed on the Bedrock aquifer map on **page 49**

ID	Location	Designation	Description
1	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



— Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 50**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

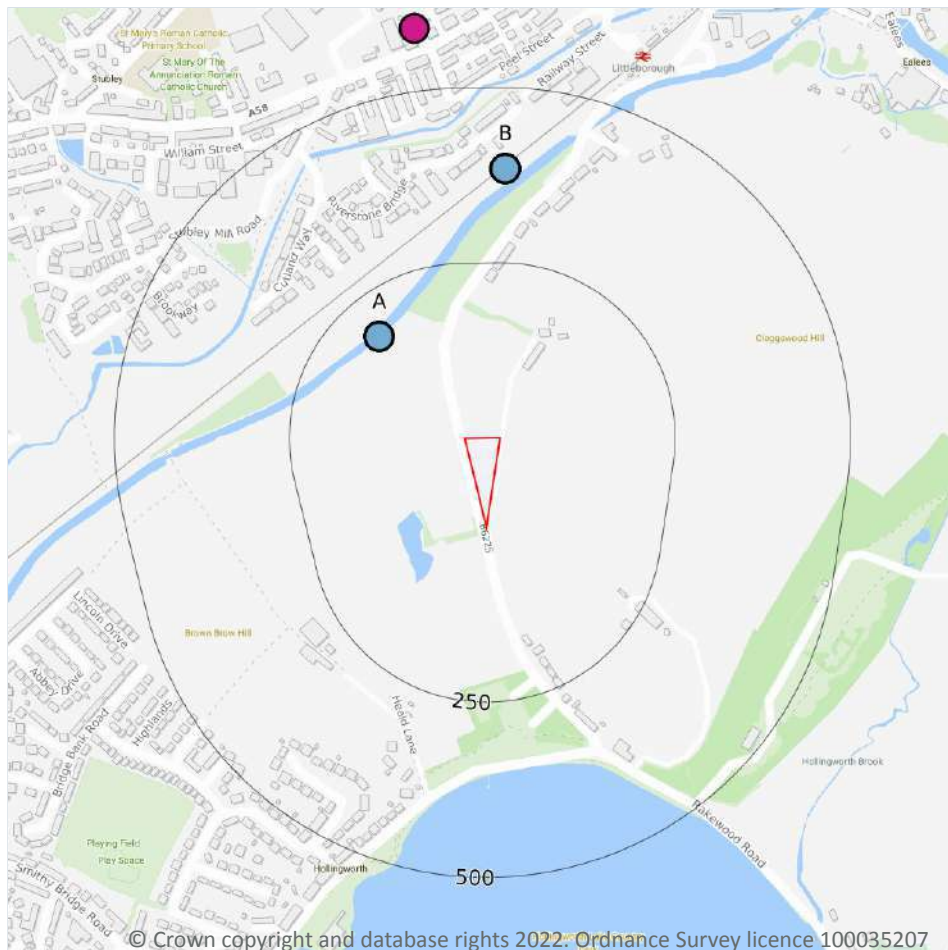
Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

6

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 52**



ID	Location	Details	
1	589m N	Status: Historical Licence No: 2569002250 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOCKTON STREET LITTLEBOROUGH Data Type: Point Name: VITA THERMOPLASTIC COMPOUNDS LTD Easting: 393500 Northing: 416300	Annual Volume (m ³): 72730 Max Daily Volume (m ³): 331 Original Application No: - Original Start Date: 23/01/1991 Expiry Date: - Issue No: 101 Version Start Date: 24/10/2005 Version End Date: -
-	1110m E	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1110m E	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1110m E	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -

ID	Location	Details	
-	1654m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH" Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -
-	1654m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

43

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 52**

ID	Location	Details	
A	189m NW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
A	189m NW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
A	189m NW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	189m NW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
B	384m N	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
B	384m N	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
B	384m N	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH S95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
B	384m N	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	384m N	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	896m E	Status: Active Licence No: 2569002136 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35,641 Max Daily Volume (m ³): 136 Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -



ID	Location	Details	
-	896m E	Status: Active Licence No: 2569002136 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35,641 Max Daily Volume (m ³): 136 Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -
-	1080m E	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1080m E	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1196m E	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -

ID	Location	Details	
-	1196m E	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1196m E	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1196m E	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1464m N	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW AT LI Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 393800 Northing: 417170	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -

ID	Location	Details	
-	1571m N	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW111 Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 394110 Northing: 417210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -
-	1706m N	Status: Historical Licence No: 2569001244 Details: Make-Up or Top Up Water Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -
-	1706m N	Status: Historical Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: BARBER Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 3 Version Start Date: 01/04/2000 Version End Date: -
-	1706m N	Status: Historical Licence No: 2569001244 Details: Make-Up Or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): 72000 Max Daily Volume (m ³): 197.26 Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -
-	1706m N	Status: Active Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: Todmorden Anglers Society Easting: 393300 Northing: 417400	Annual Volume (m ³): 72,000 Max Daily Volume (m ³): 197.26 Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 5 Version Start Date: 24/12/2018 Version End Date: -



ID	Location	Details	
-	1787m E	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SHORE LANE BRK AT LITTLEBOROUGH, LANCS" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1787m E	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH, LANCS Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1791m SE	Status: Historical Licence No: 2569002047 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONGDEN END BRK AT PREMISES, RAKEWOOD, LITTLEBOROUGH" Data Type: Point Name: J CLEGG BROS RAKEWOOD LTD Easting: 394600 Northing: 414100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/05/1999 Version End Date: -
-	1791m SE	Status: Historical Licence No: 2569002047 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: LONGDEN END BRK AT PREMISES, RAKEWOOD, LITTLEBOROUGH Data Type: Point Name: J CLEGG BROS RAKEWOOD LTD Easting: 394600 Northing: 414100	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 618.256 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/05/1999 Version End Date: -



ID	Location	Details	
-	1791m SE	Status: Historical Licence No: 2569002047 Details: Lake & Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: LONGDEN END BRK AT PREMISES, RAKEWOOD, LITTLEBOROUGH Data Type: Point Name: J CLEGG & BROS RAKEWOOD LTD Easting: 394600 Northing: 414100	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 618.3 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: 31/03/2014 Issue No: 102 Version Start Date: 04/09/2007 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	5
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 52**

ID	Location	Details	
-	1110m E	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1110m E	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -

ID	Location	Details	
-	1110m E	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -
-	1196m E	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1196m E	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

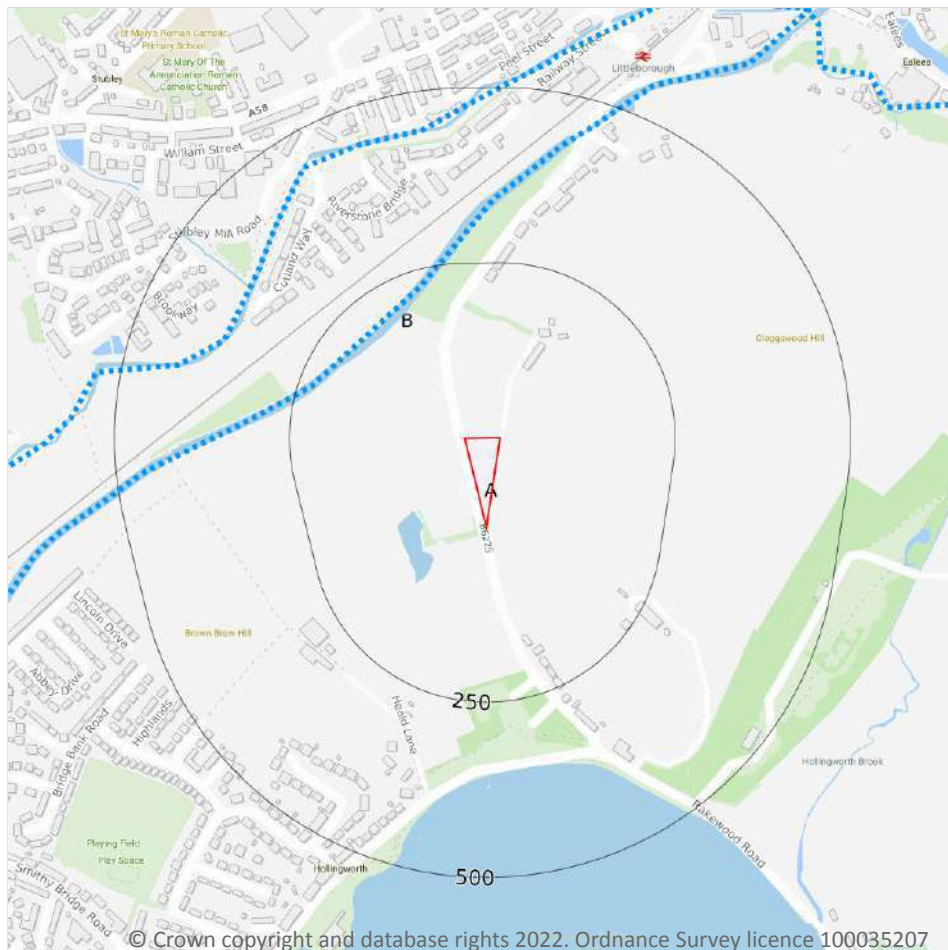
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

1

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 68**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	193m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

2

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 68**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 68**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Source to Spodden)	GB112069064720	Roch Irk Medlock	Irwell

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

2

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 68**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
B	203m NW	Canal	Rochdale Canal, western section	GB71210517	Moderate	Fail	Moderate	2019



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	370m NW	River	Roch (Source to Spodden)	GB112069064720	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 68**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.



7.2 Historical Flood Events

Records within 250m

1

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 71**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	165m N	Inghams Lane	2019-03-16 2019-03-16	Unknown	Unknown	Fluvial

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

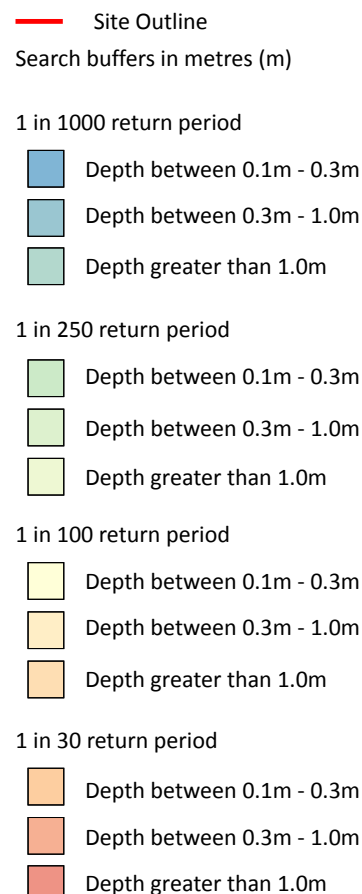
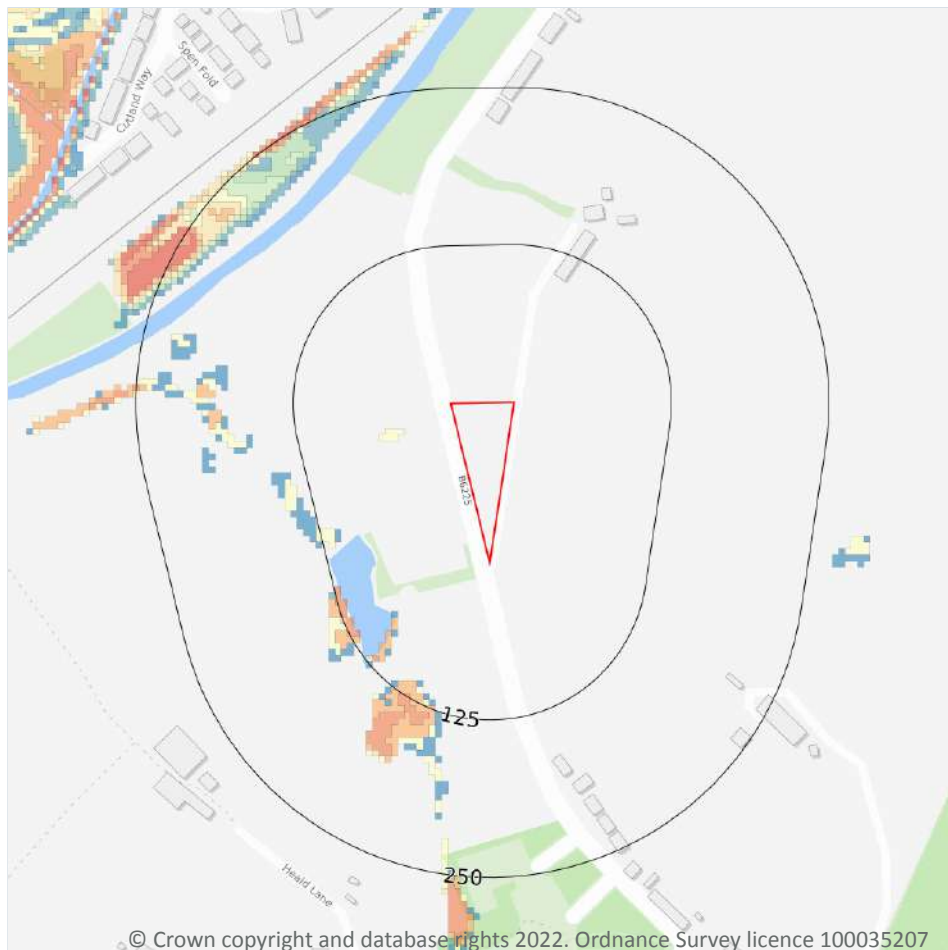
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 100 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 74**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

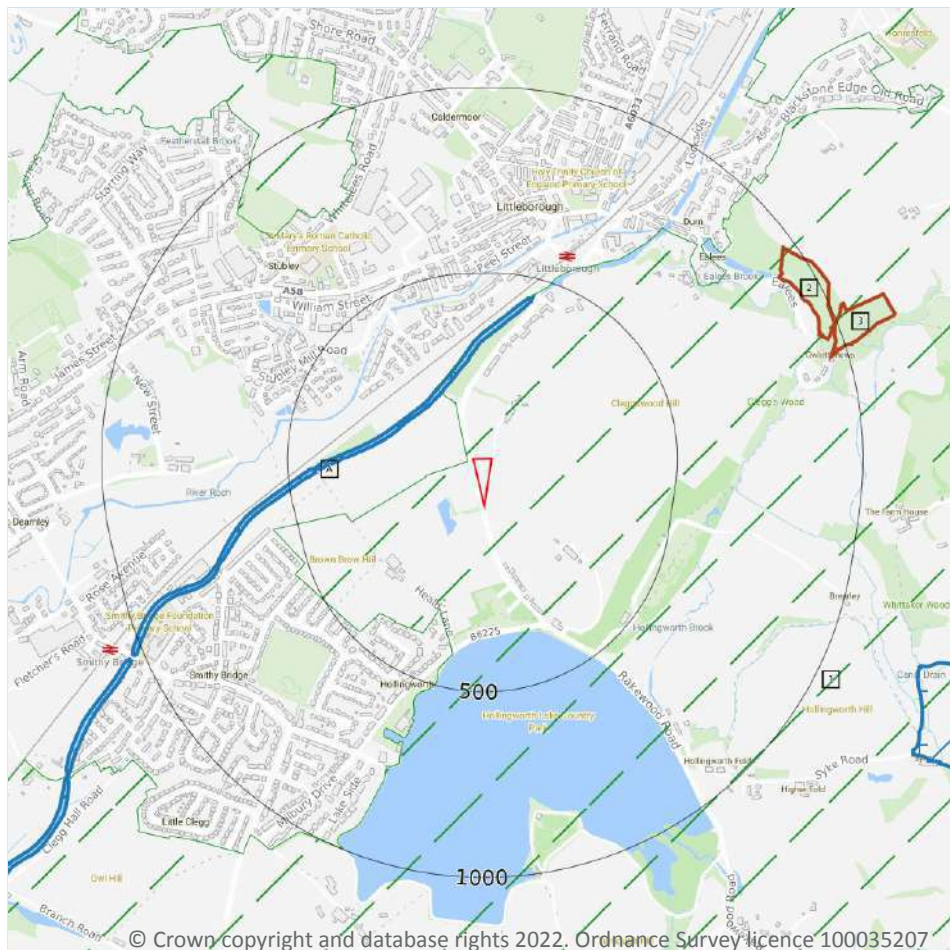
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 76**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 77**

ID	Location	Name	Data source
A	187m NW	Rochdale Canal	Natural England



ID	Location	Name	Data source
B	1038m SW	Rochdale Canal	Natural England
C	1248m E	South Pennine Moors	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

3

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 77**

ID	Location	Name	Features of interest	Habitat description	Data source
A	187m NW	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
B	1038m SW	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

ID	Location	Name	Features of interest	Habitat description	Data source
C	1248m E	South Pennine Moors	Wet heathland with cross-leaved heath; Dry heaths; Blanket bog; Very wet mires often identified by an unstable 'quaking' surface; Western acidic oak woodland.	Inland water bodies (Standing water, Running water); Humid grassland, Mesophile grassland; Mixed woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Dry grassland, Steppes	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

2

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on **page 77**

ID	Location	Name	Species of interest	Habitat description	Data source
4	1248m E	South Pennine Moors Phase 2	Merlin; European golden plover; Short-eared owl	Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
-	1461m E	South Pennine Moors Phase 2	Merlin; European golden plover; Short-eared owl	Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**4**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 77**

ID	Location	Name	Woodland Type
2	915m NE	Ealees Wood	Ancient & Semi-Natural Woodland
3	956m E	Ealees Wood	Ancient & Semi-Natural Woodland
-	1496m N	Unknown	Ancient & Semi-Natural Woodland
-	1524m N	Unknown	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 77**

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Rochdale

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

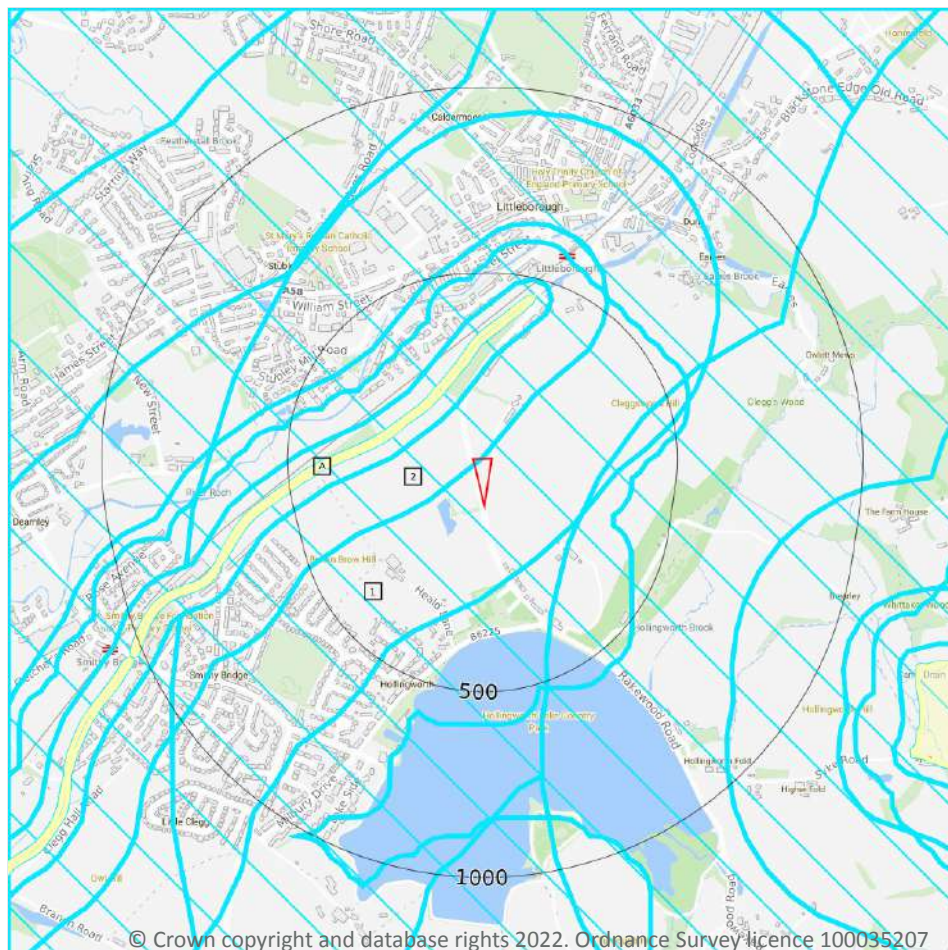
Records within 2000m**0**

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 83**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .
2	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause air pollution or dust either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

3

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 83**

ID: A
 Location: 187m NW
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: 22
 Location: 1038m SW
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: 26
 Location: 1248m E
 SSSI name: South Pennine Moors
 Unit name: Clegg Moor
 Broad habitat: Bogs - Upland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Golden plover, Pluvialis apricaria	-	-



Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Twite, <i>Carduelis flavirostris</i>	-	-
Assemblages of breeding birds - Upland moorland and grassland with water bodies	-	-
Assemblages of breeding birds - Upland moorland and grassland without water bodies	-	-
H4010 Northern Atlantic wet heaths with <i>Erica tetralix</i>	Unfavourable - Recovering	31/01/2014
H4030 European dry heaths	Unfavourable - Recovering	31/01/2014
H7130 Blanket bog	Unfavourable - Recovering	31/01/2014
Wet heath (upland)	-	-

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

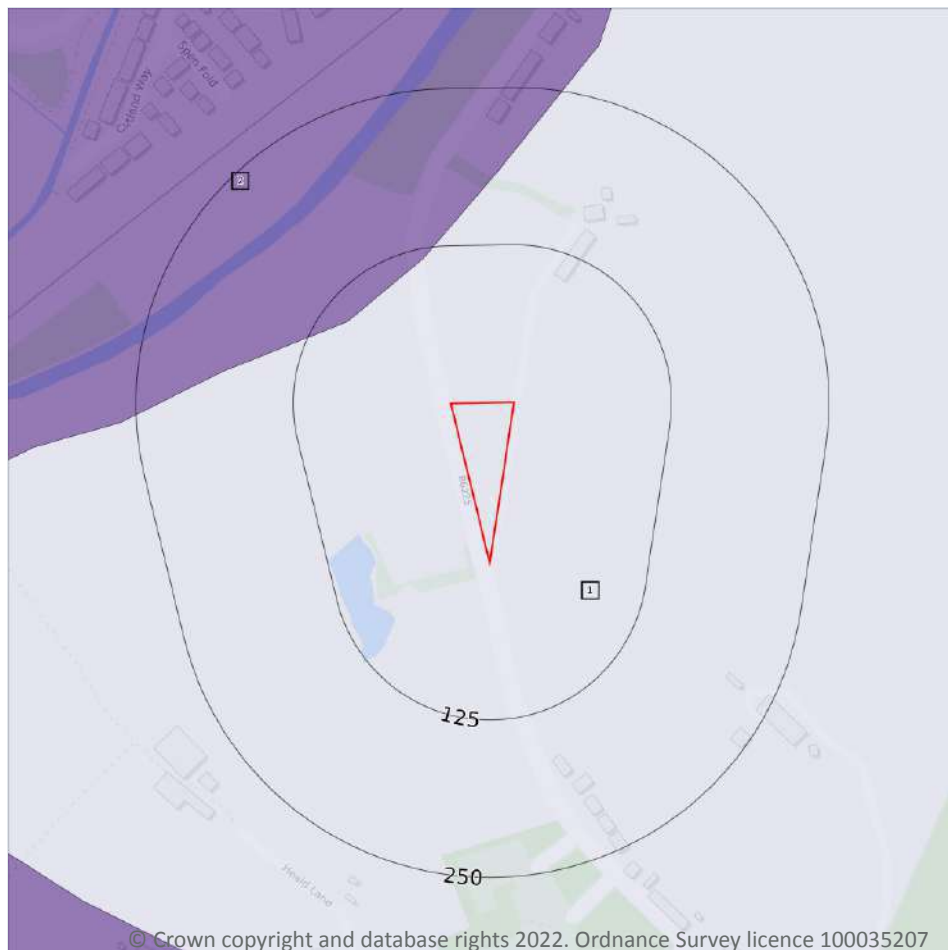
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 89**

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

ID	Location	Classification	Description
2	102m NW	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
On site	AG00456262	Entry Level Stewardship	01/10/2013	30/09/2018

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

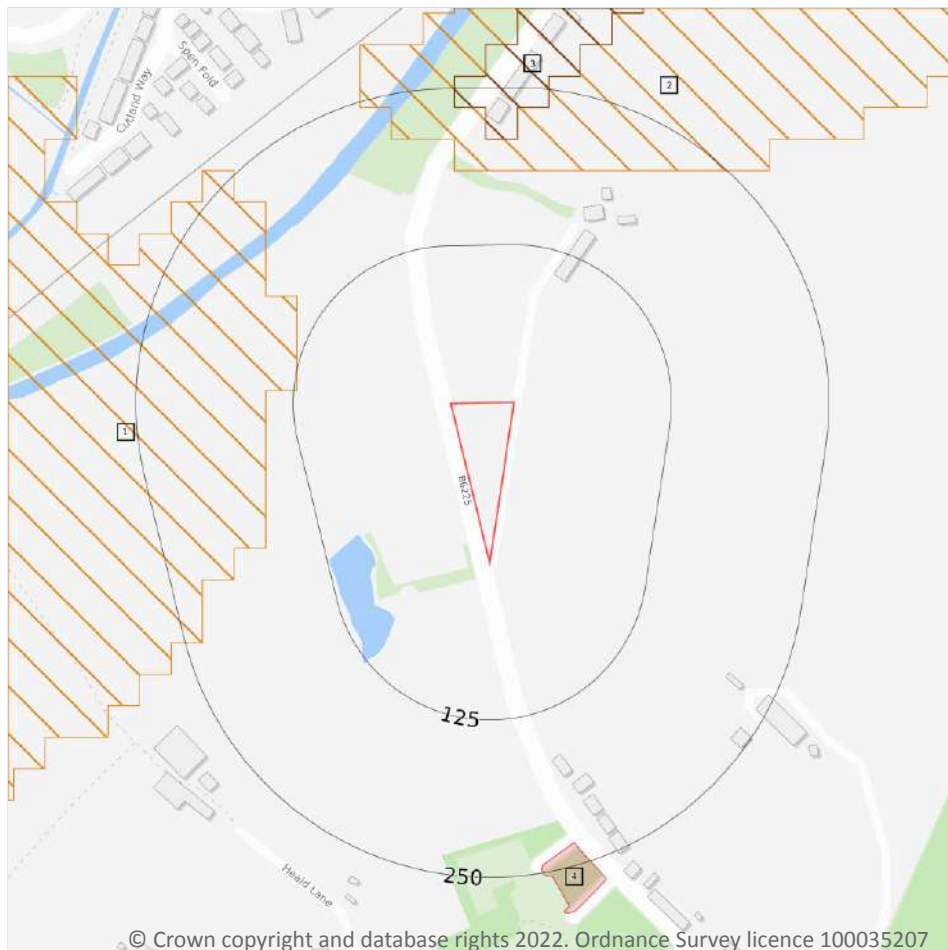
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Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 92**

ID	Location	Main Habitat	Other habitats
4	232m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

3

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on **page 92**

ID	Location	Type	Habitat
1	123m W	Network Enhancement Zone 1	Not specified
2	184m N	Network Enhancement Zone 1	Not specified
3	209m N	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

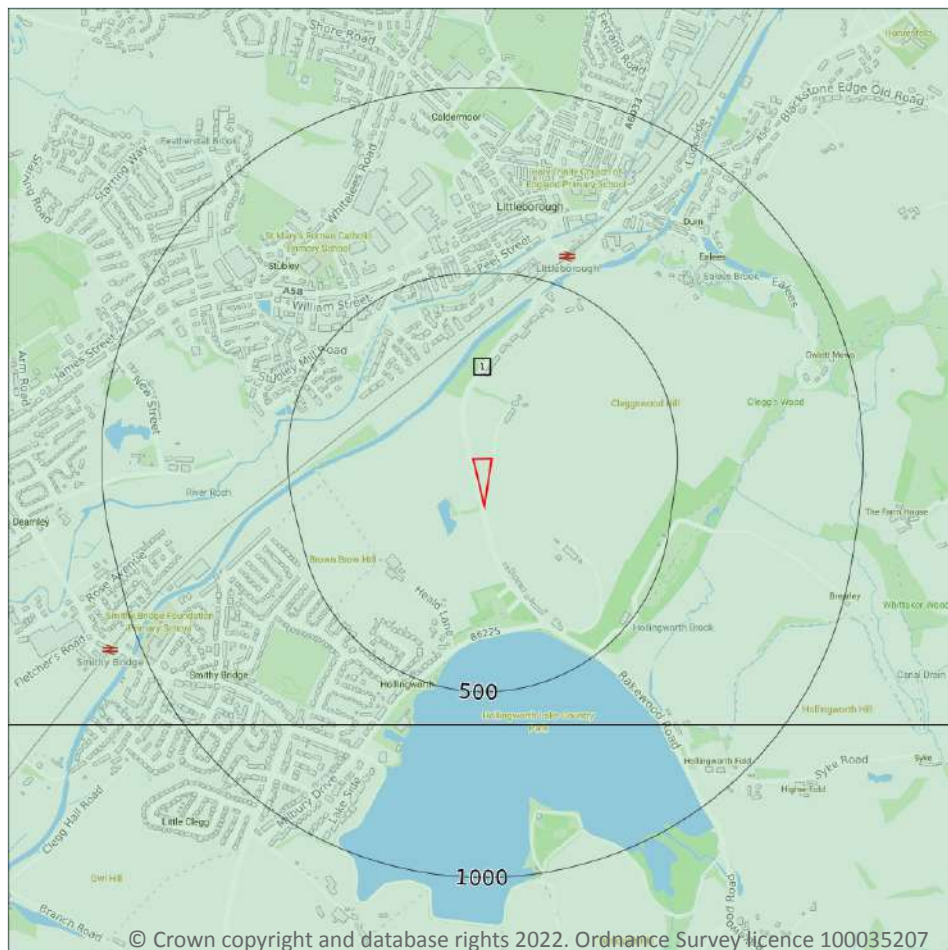
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 94**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD91NW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

14

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 95**

ID	Location	LEX Code	Description	Rock description
1	80m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	124m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	145m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	182m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

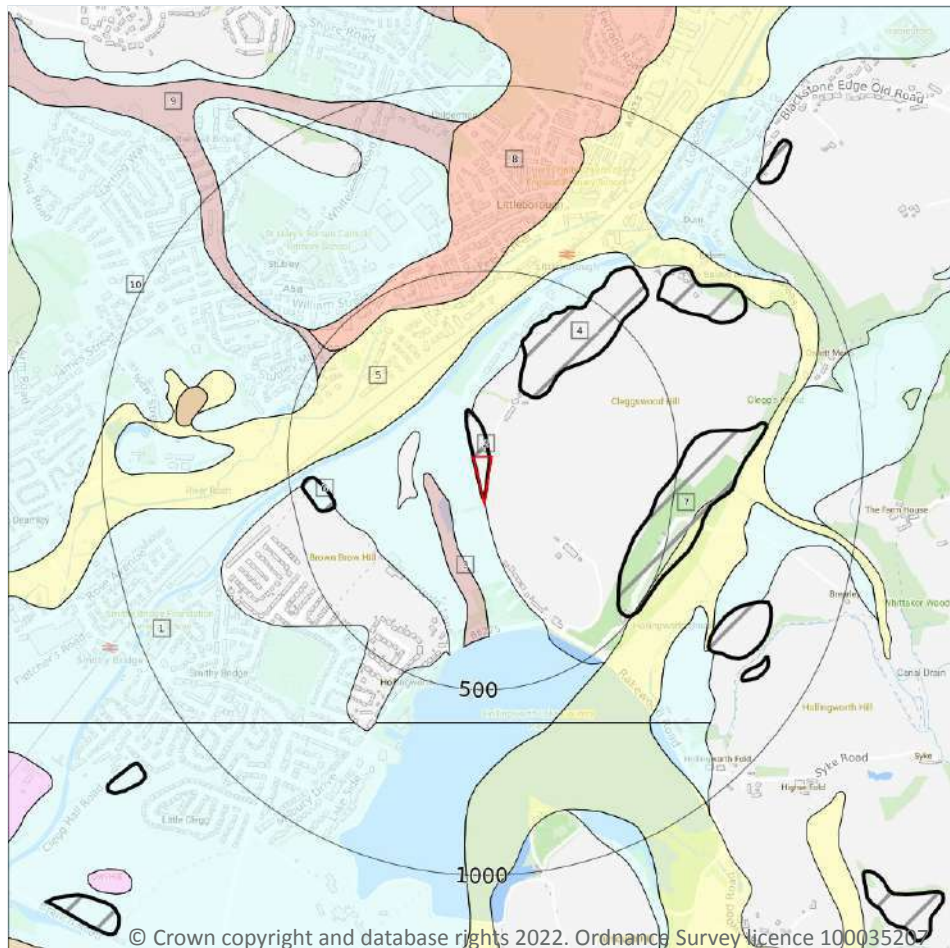


ID	Location	LEX Code	Description	Rock description
5	191m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	200m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	225m W	WGR-VOID	Worked Ground (Undivided)	Void
8	326m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	342m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	396m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	442m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	469m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	470m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	474m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)
 Landslip (10k)
Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

6

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 97**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	91m W	HEAD-DMTN	Head - Diamicton	Diamicton
5	208m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
8	422m N	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
9	455m NW	HEAD-DMTN	Head - Diamicton	Diamicton
10	461m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

4

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

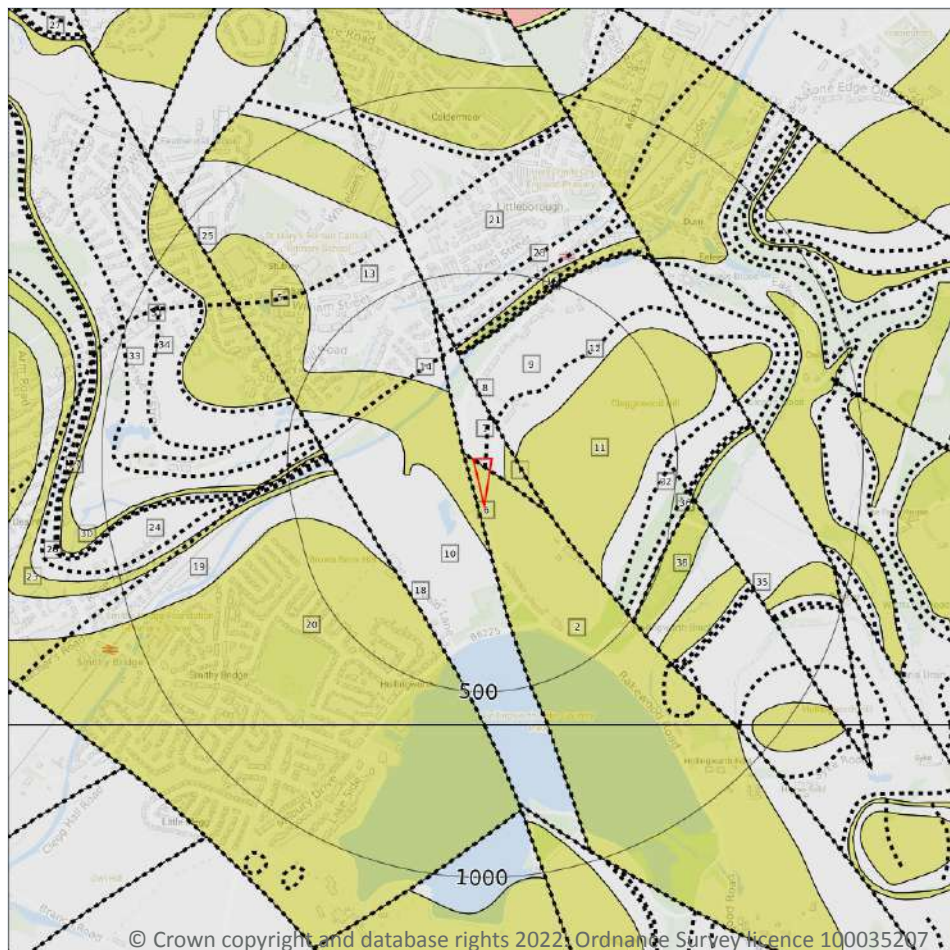
Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 97**

ID	Location	LEX Code	Description	Rock description
2	On site	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
4	192m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
6	393m W	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
7	407m E	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

17

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 99**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
5	18m W	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
7	34m E	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
9	55m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	60m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	64m E	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
13	190m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	281m N	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
19	297m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	297m SW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
21	299m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	369m W	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
24	374m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
30	400m W	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
31	408m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
38	491m SE	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

21

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 99**

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred
4	On site	ROCK	Coal seam, inferred

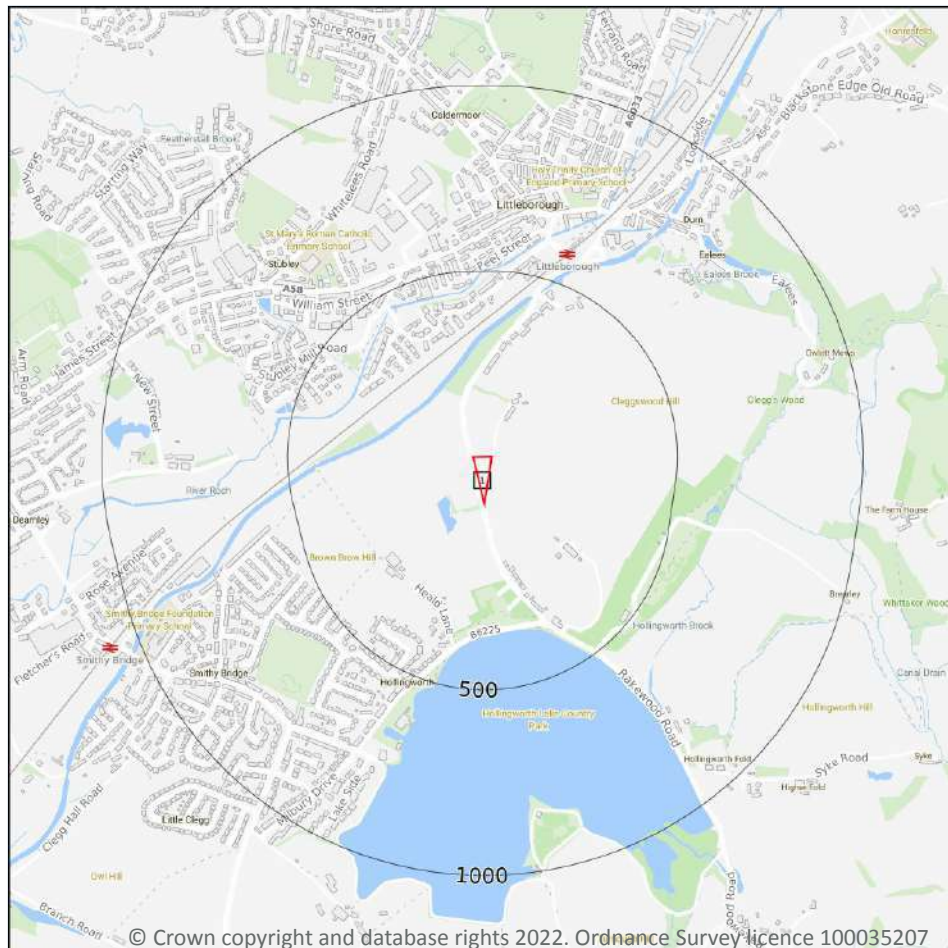


ID	Location	Category	Description
6	18m W	FAULT	Normal fault, inferred
8	55m NE	FAULT	Normal fault, inferred
12	92m N	ROCK	Coal seam, inferred
14	277m NW	LANDFORM	Buried channel or valley margin
15	281m N	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
17	286m N	ROCK	Coal seam, inferred
18	297m SW	FAULT	Normal fault, inferred
22	336m N	ROCK	Coal seam, inferred
25	374m W	FAULT	Normal fault, inferred
26	389m W	ROCK	Coal seam, inferred
27	392m W	FOSSIL_HORIZON	Fossil horizon, marine band
28	394m N	ROCK	Coal seam, inferred
29	396m W	ROCK	Coal seam, inferred
32	418m E	ROCK	Coal seam, inferred
33	422m W	ROCK	Coal seam, inferred
34	453m W	ROCK	Coal seam, inferred
35	461m E	FAULT	Normal fault, inferred
36	465m SE	FOSSIL_HORIZON	Fossil horizon, marine band
37	491m SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

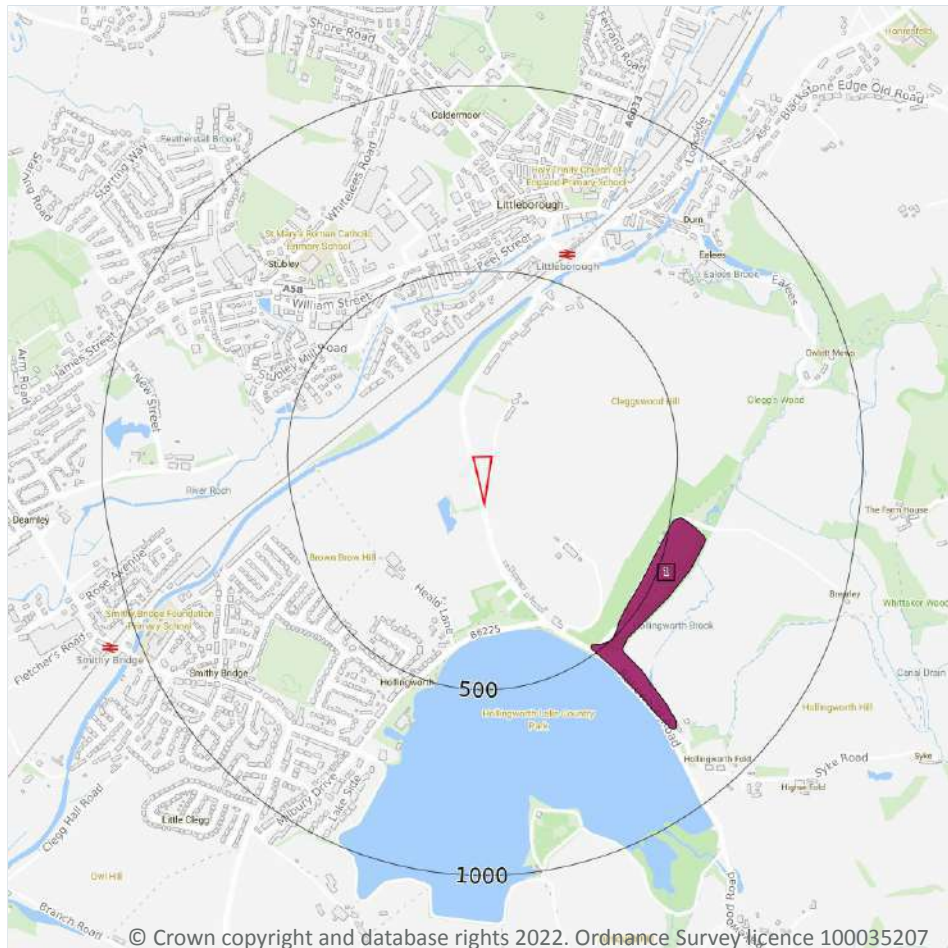
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW076_rochdale_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 103**

ID	Location	LEX Code	Description	Rock description
1	470m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

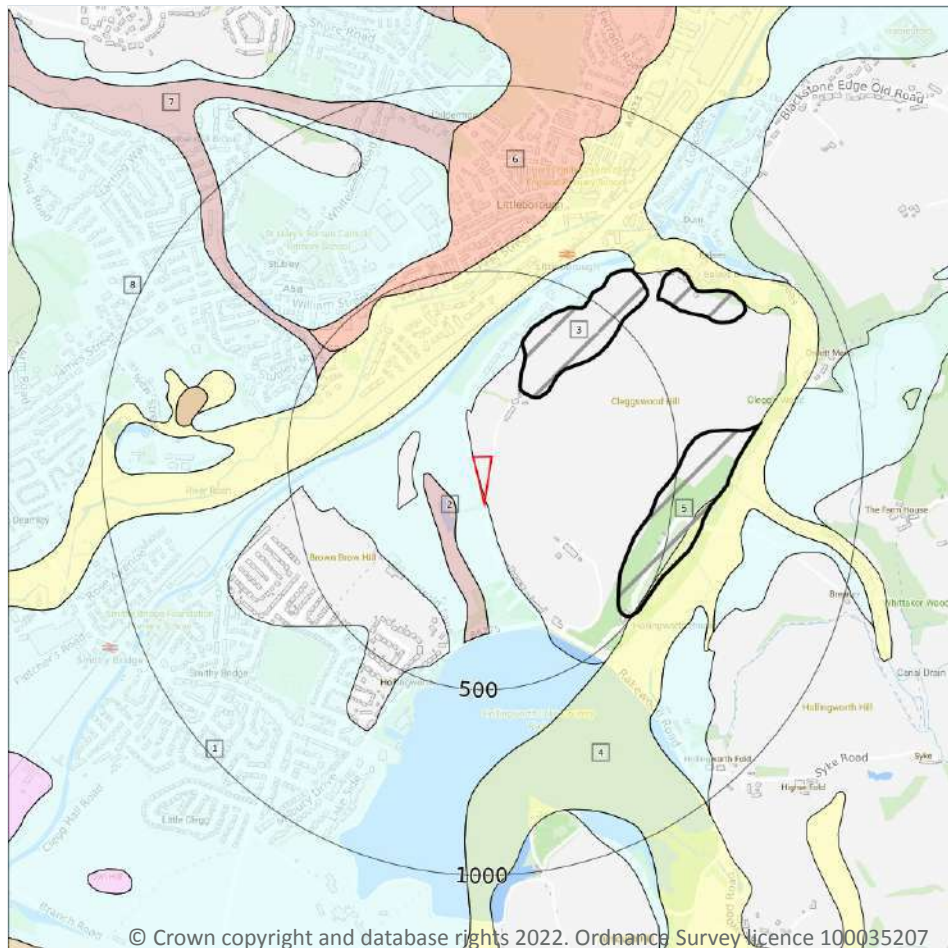
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

6

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 105**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	78m W	HEAD-DMTN	HEAD	DIAMICTON
4	223m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
6	447m NW	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
7	456m NW	HEAD-DMTN	HEAD	DIAMICTON
8	461m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

2

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 105**

ID	Location	LEX Code	Description	Rock description
3	193m NE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
5	407m E	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

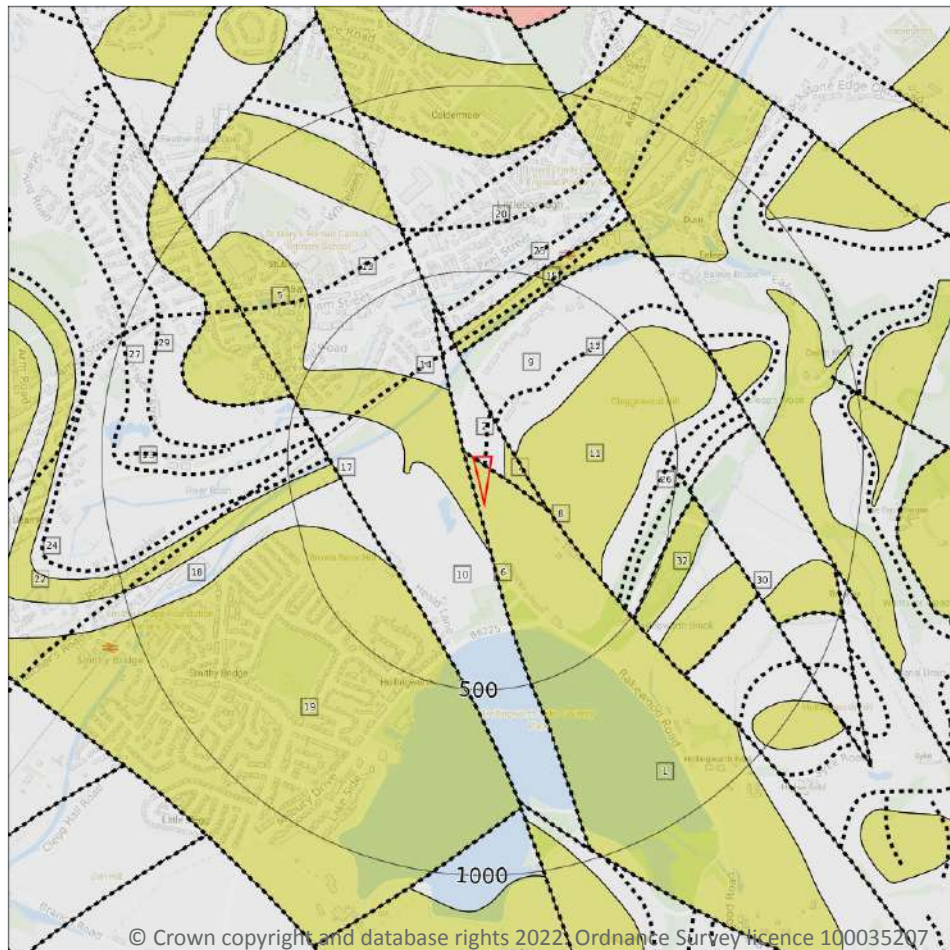
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

15

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 108**

ID	Location	LEX Code	Description	Rock age
1	On site	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	18m W	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
7	34m E	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
9	55m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	60m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	64m E	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
13	190m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	280m N	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
18	297m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	297m SW	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
20	336m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	361m W	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
23	381m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	492m SE	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

3

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
34m E	Fracture	High	Moderate

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

17

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 108**

ID	Location	Category	Description
3	On site	ROCK	Coal seam, inferred
4	On site	FAULT	Fault, inferred, displacement unknown
6	18m W	FAULT	Fault, inferred
8	55m NE	FAULT	Fault, inferred
12	93m N	ROCK	Coal seam, inferred
14	277m NW	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
16	280m N	ROCK	Coal seam, inferred
17	297m SW	FAULT	Fault, inferred
21	336m N	ROCK	Coal seam, inferred
24	389m W	ROCK	Coal seam, inferred
25	394m N	ROCK	Coal seam, inferred
26	418m E	ROCK	Coal seam, inferred
27	422m W	ROCK	Coal seam, inferred
28	442m E	FOSSIL_HORIZON	Marine band
29	453m W	ROCK	Coal seam, inferred
30	461m E	FAULT	Fault, inferred
31	492m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

1

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

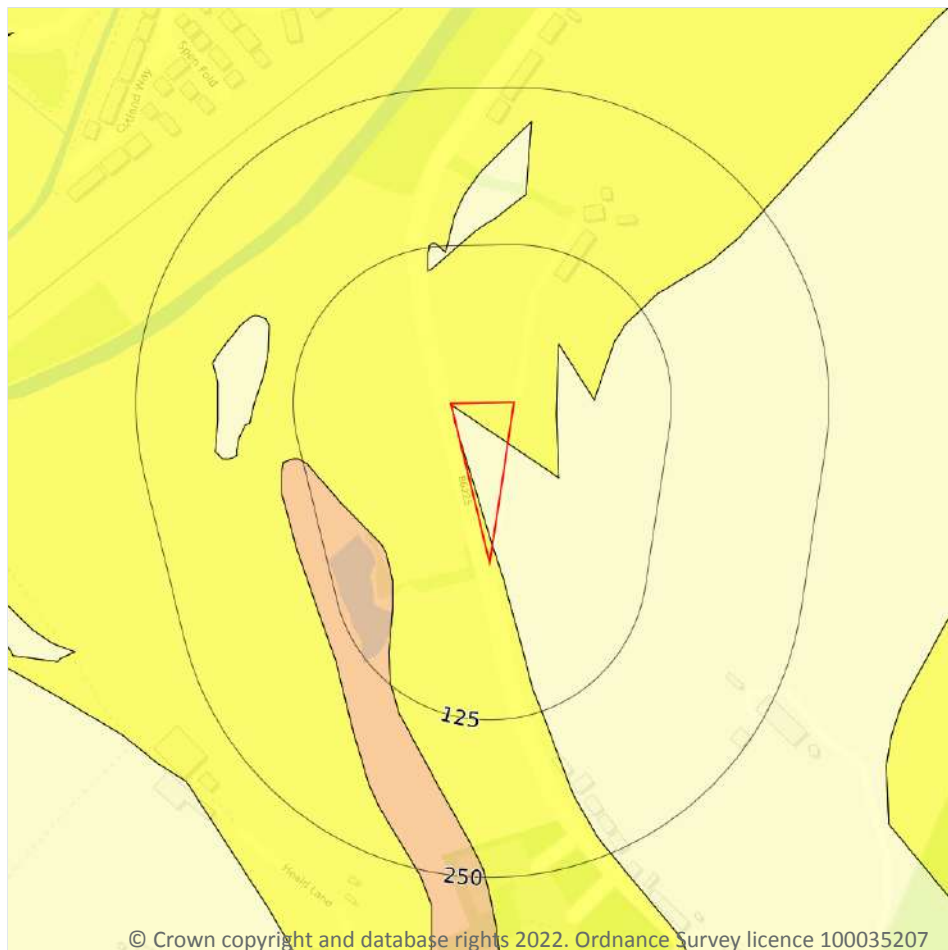
Features are displayed on the Boreholes map on **page 111**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	234m W	393344 415766	CLEGGSWOOD COLLIERY	115.21	N	34814

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

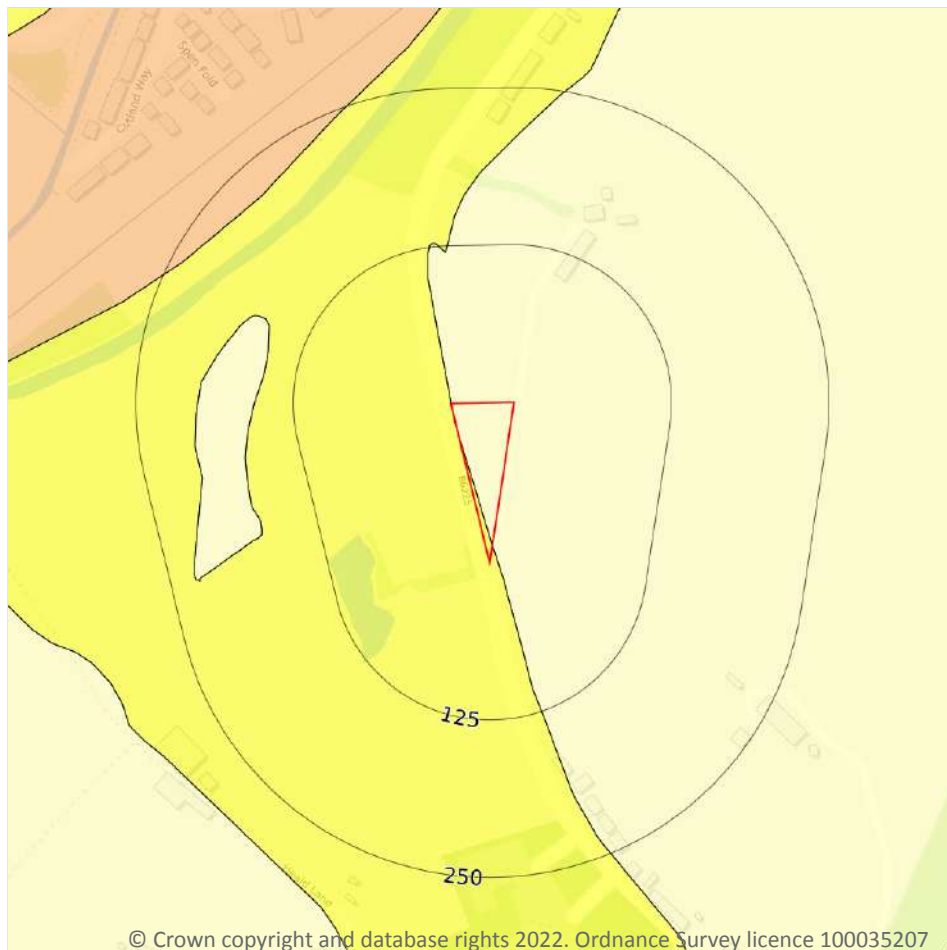
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 112**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 113**

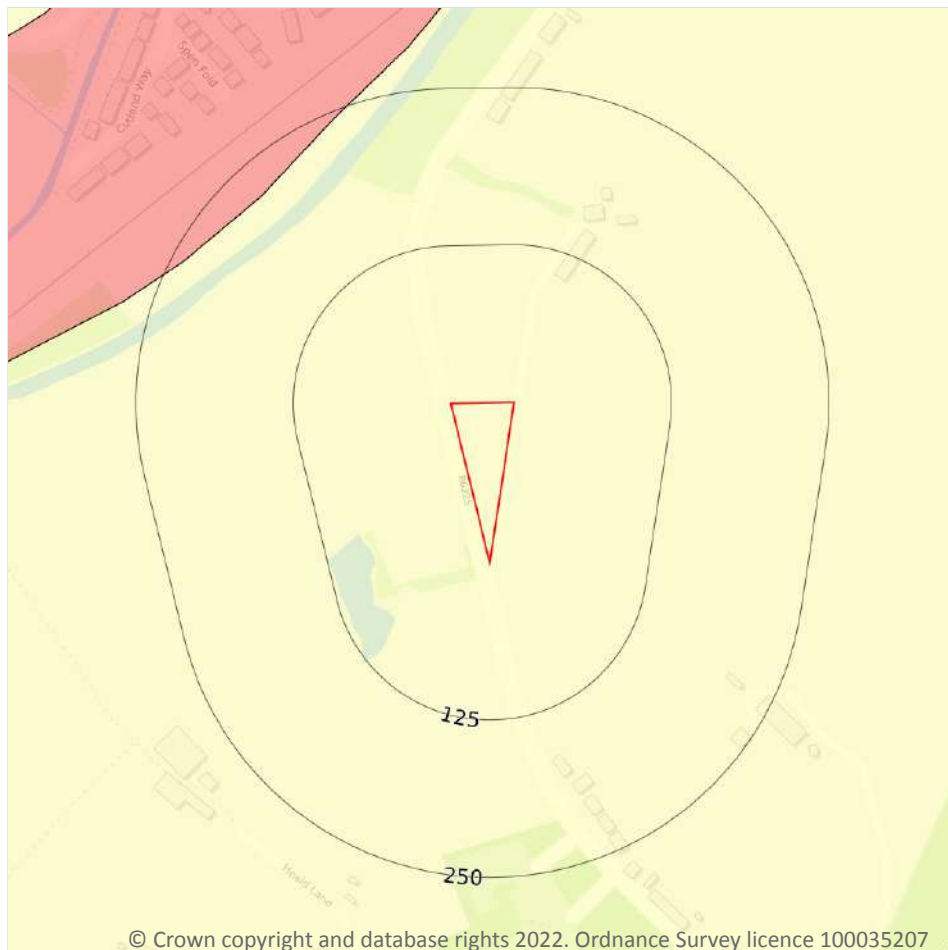
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

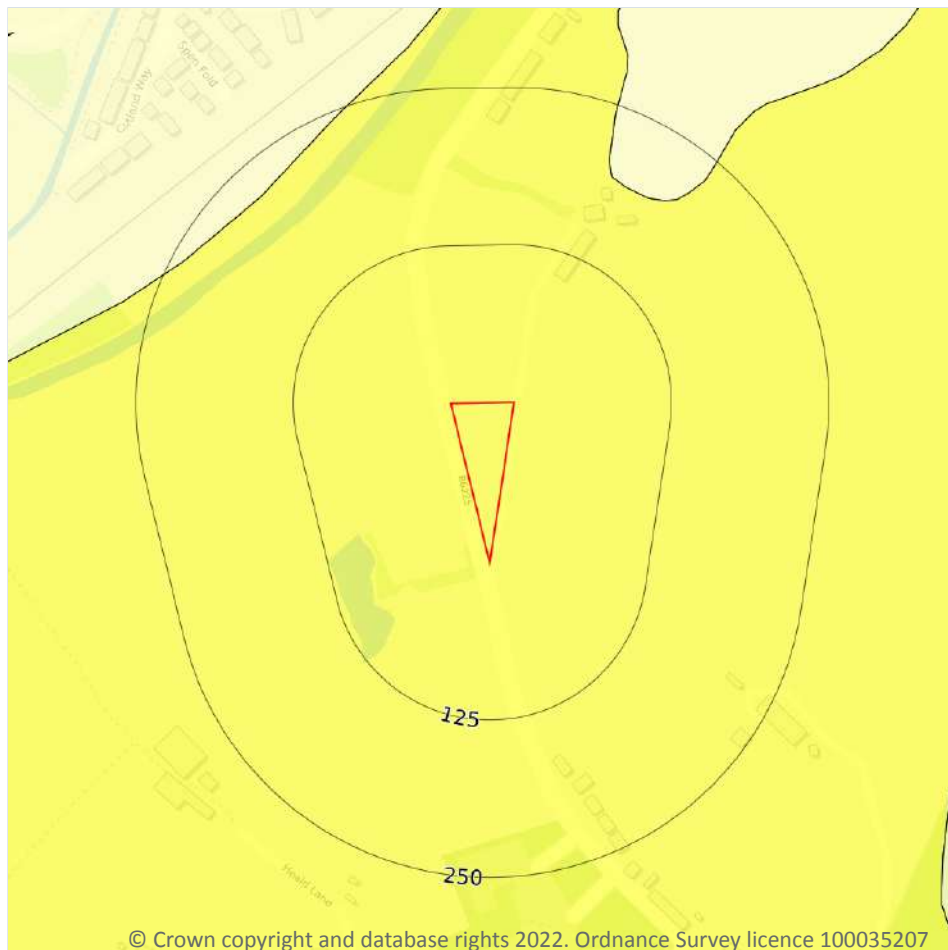
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 115**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

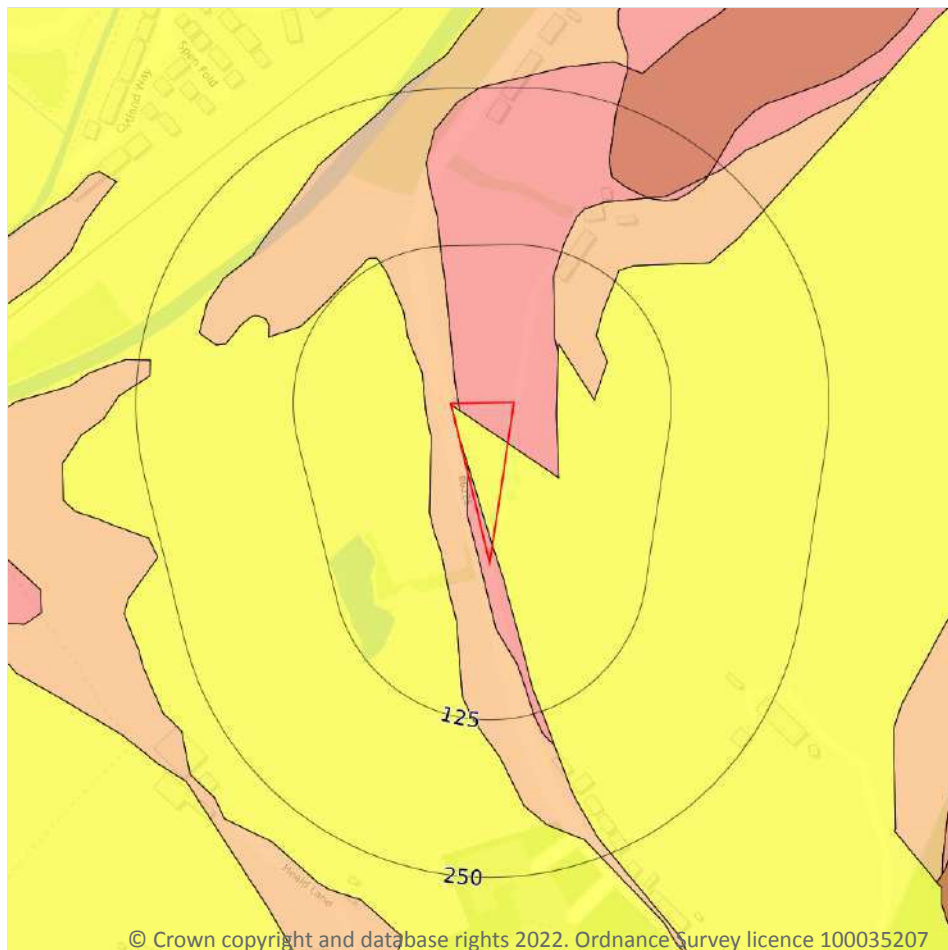
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 116**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

3

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 117**

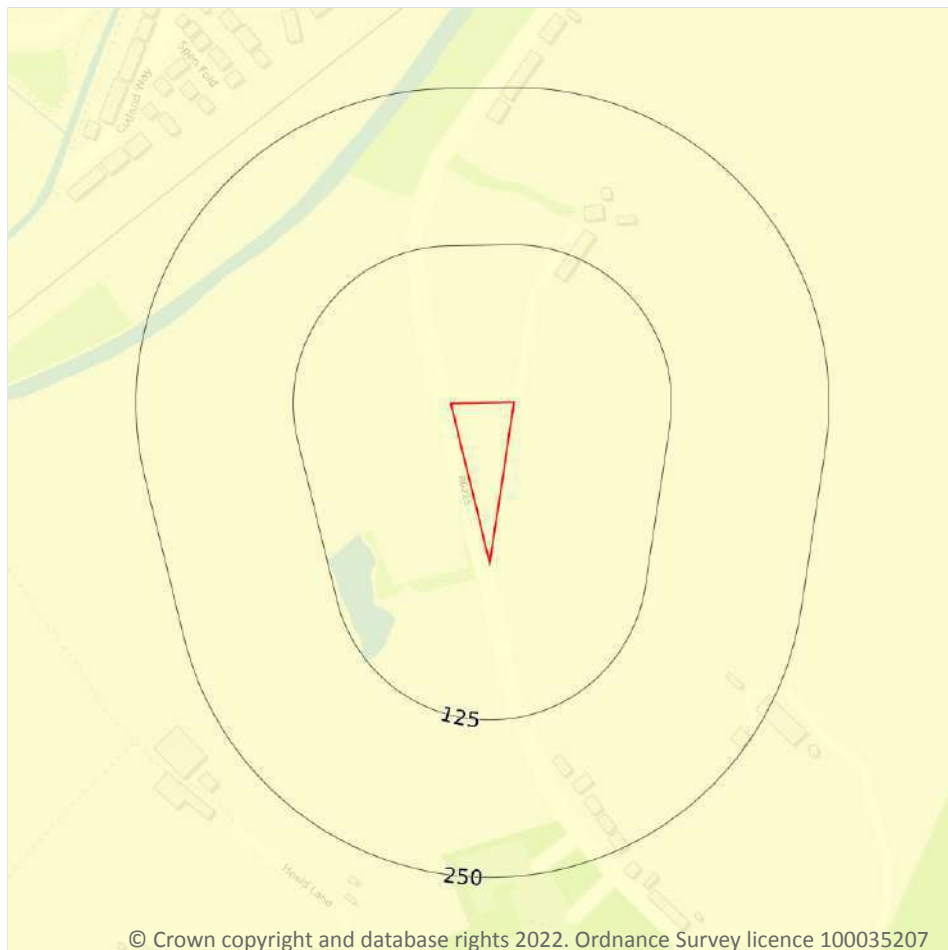
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

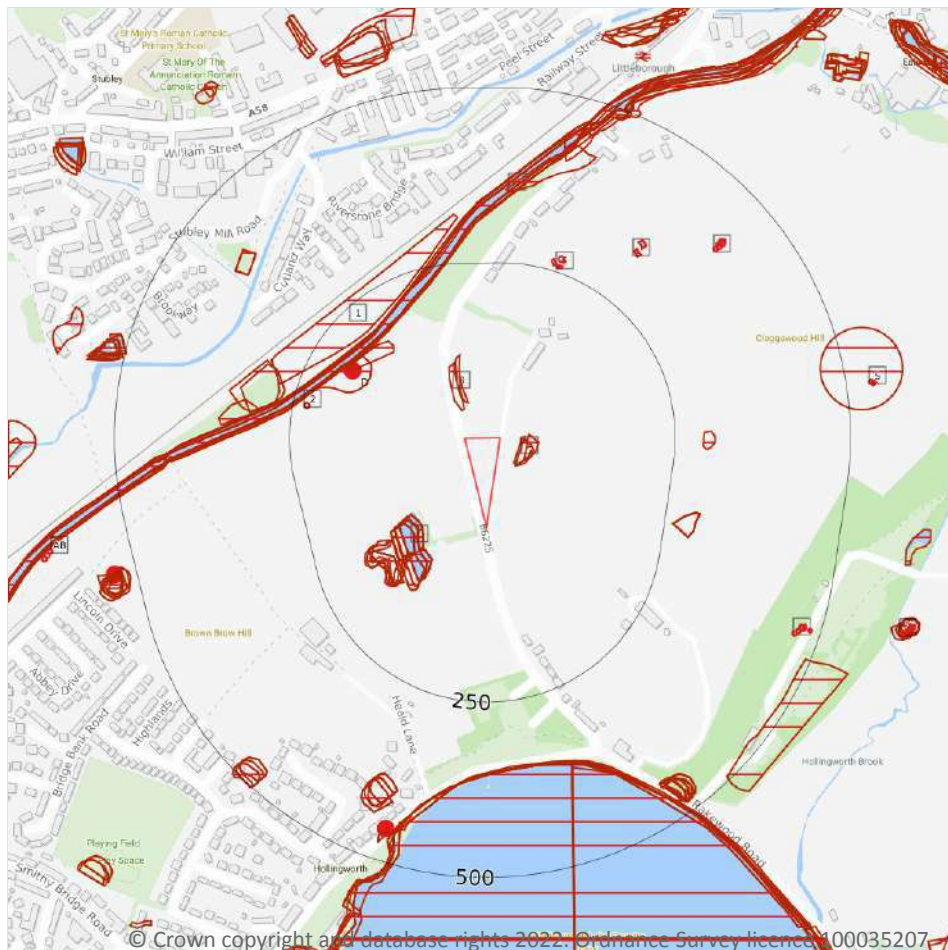
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 119**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

2

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 121**

ID	Location	Details	Description
D	187m NW	Name: Clough Field Address: LITTLEBOROUGH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	453m S	Name: Hollingworth Address: Hollingworth, LITTLEBOROUGH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

31

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 121**

ID	Location	Land Use	Year of mapping	Mapping scale
A	25m E	Unspecified Pit	1928	1:10560
A	27m E	Unspecified Pit	1938	1:10560
A	39m E	Unspecified Pit	1949	1:10560
B	41m N	Unspecified Ground Workings	1938	1:10560
B	51m N	Unspecified Ground Workings	1949	1:10560
C	89m W	Pond	1989	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
C	89m W	Pond	1976	1:10000
C	89m W	Reservoir	1949	1:10560
C	89m W	Pond	1968	1:10560
C	94m W	Reservoir	1890	1:10560
C	96m W	Reservoir	1938	1:10560
C	103m W	Reservoir	1928	1:10560
C	103m W	Reservoir	1908	1:10560
C	128m W	Unspecified Pit	1949	1:10560
C	134m W	Unspecified Pit	1938	1:10560
C	137m W	Unspecified Ground Workings	1928	1:10560
C	138m W	Unspecified Pits	1989	1:10000
C	138m W	Unspecified Pits	1976	1:10000
C	138m W	Unspecified Pits	1968	1:10560
D	160m NW	Unspecified Heap	1938	1:10560
D	160m NW	Sandstone Quarry	1851	1:10560
E	185m NW	Canal	1938	1:10560
E	187m NW	Canal	1890	1:10560
E	188m NW	Canal	1928	1:10560
E	188m NW	Canal	1908	1:10560
E	190m NW	Disused Canal	1989	1:10000
E	190m NW	Disused Canal	1976	1:10000
E	190m NW	Canal	1949	1:10560
E	190m NW	Canal	1968	1:10560
1	206m NW	Unspecified Pit	1989	1:10000
2	227m W	Old Coal Pit	1851	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

38

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 121**

ID	Location	Land Use	Year of mapping	Mapping scale
F	256m N	Old Air Shaft	1928	1:10560
F	257m N	Old Air Shaft	1938	1:10560
F	258m N	Clay Level	1908	1:10560
F	266m N	Unspecified Disused Shaft	1989	1:10000
F	266m N	Old Air Shaft	1949	1:10560
I	324m NE	Clay Level	1908	1:10560
I	339m NE	Clay Level	1911	1:10560
N	406m NE	Old Air Shaft	1928	1:10560
N	406m NE	Air Shaft	1908	1:10560
N	412m NE	Old Air Shaft	1938	1:10560
N	413m NE	Air Shaft	1890	1:10560
N	417m NE	Unspecified Disused Shaft	1976	1:10000
N	417m NE	Unspecified Old Shaft	1968	1:10560
N	419m NE	Air Shaft	1911	1:10560
N	425m NE	Old Air Shaft	1949	1:10560
Q	462m E	Old Coal Shafts	1908	1:10560
Q	462m E	Unspecified Old Shafts	1928	1:10560
Q	466m E	Unspecified Old Shafts	1938	1:10560
Q	468m E	Old Coal Shafts	1911	1:10560
Q	468m E	Unspecified Shaft	1890	1:10560
Q	470m E	Unspecified Disused Shaft	1976	1:10000
Q	470m E	Unspecified Disused Shaft	1968	1:10560
Q	474m E	Unspecified Old Shafts	1949	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
Q	482m E	Unspecified Shaft	1892	1:10560
S	533m E	Unspecified Old Level	1928	1:10560
S	535m E	Unspecified Old Level	1938	1:10560
Z	609m E	Old Coal Shafts	1908	1:10560
Z	609m E	Unspecified Old Shafts	1928	1:10560
AB	609m W	Old Air Shaft	1949	1:10560
Z	615m E	Unspecified Old Shafts	1938	1:10560
AB	615m W	Old Air Shaft	1938	1:10560
Z	620m E	Old Coal Shafts	1911	1:10560
Z	620m E	Unspecified Disused Shaft	1976	1:10000
Z	620m E	Unspecified Disused Shaft	1968	1:10560
AB	620m W	Old Air Shaft	1928	1:10560
AB	620m W	Old Air Shaft	1908	1:10560
Z	623m E	Unspecified Old Shafts	1949	1:10560
-	708m E	Colliery	1892	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.



18.7 Mining cavities

Records within 1000m**0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site**0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site**1**

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site**0**

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.



18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

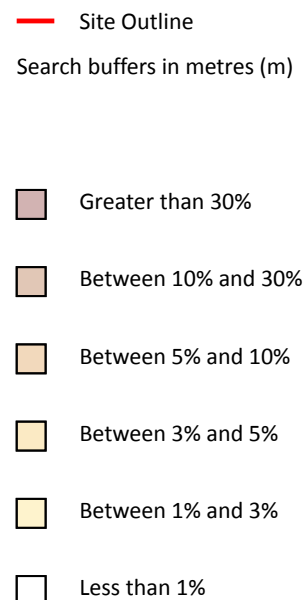
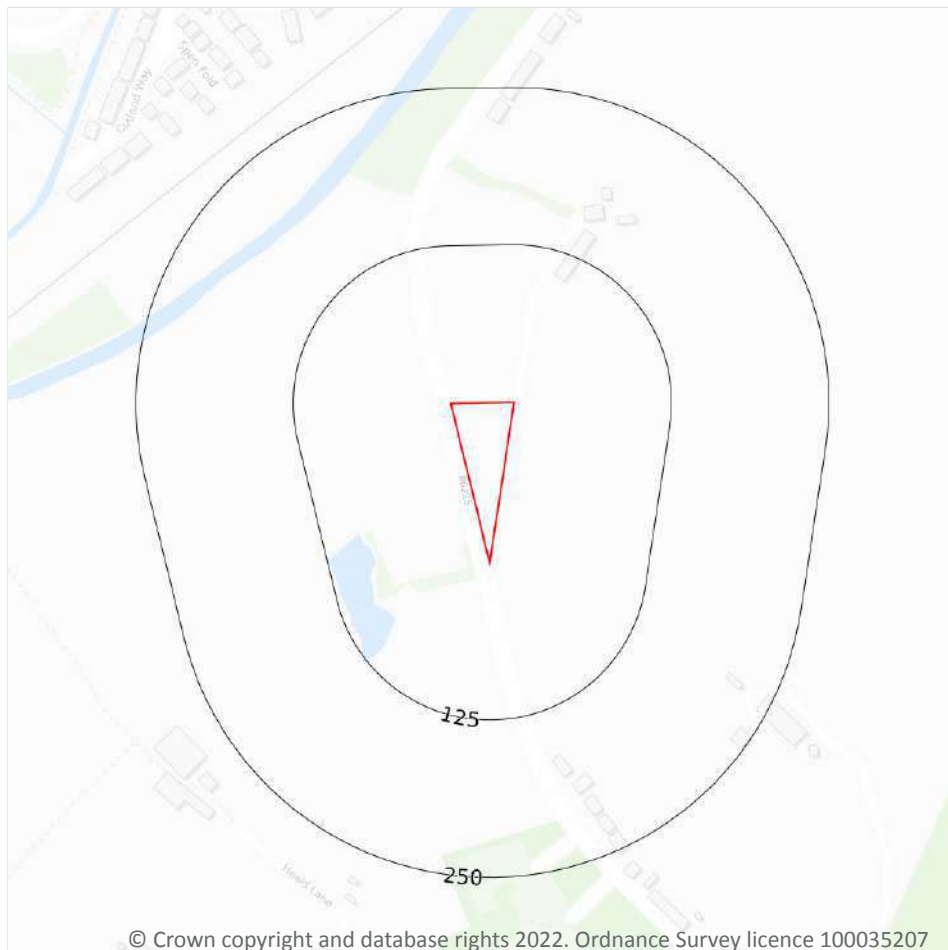
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 128**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

7

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
7m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m W	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m NW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
36m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m SW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

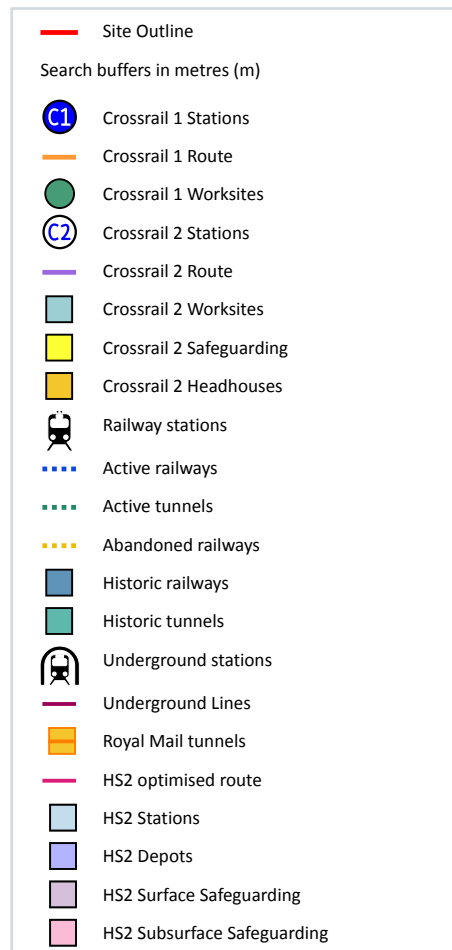
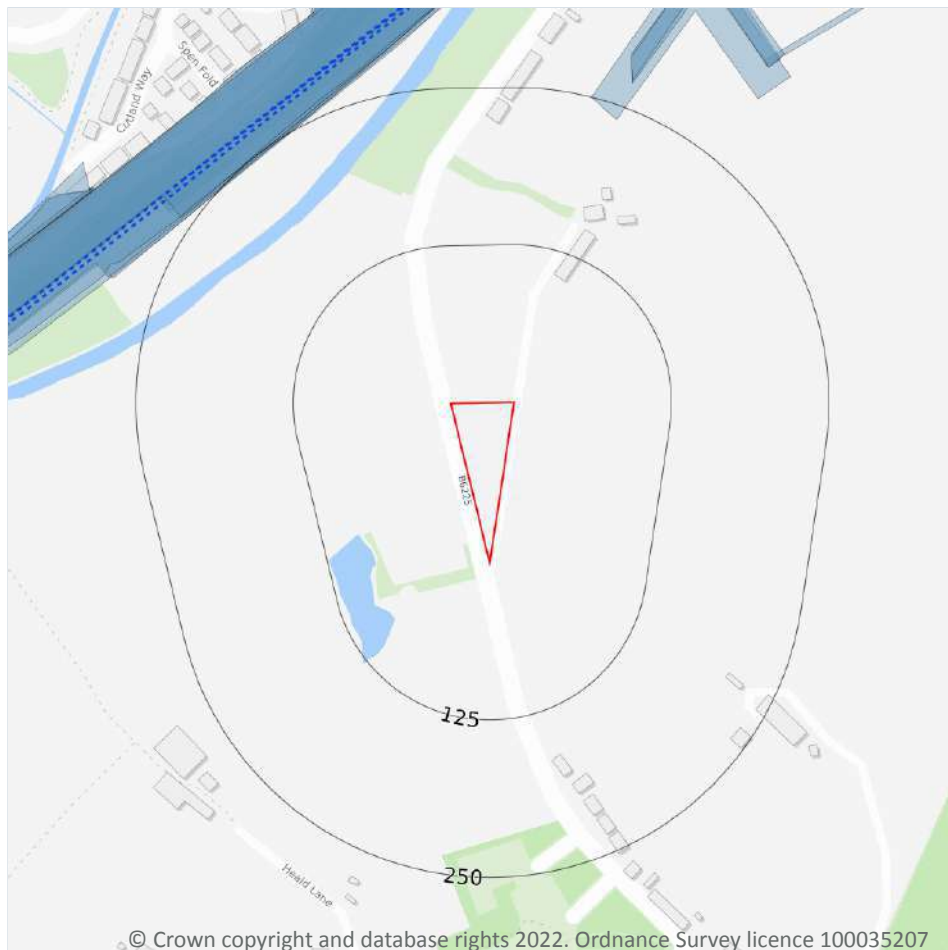
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

4

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 131**

Location	Land Use	Year of mapping	Mapping scale
239m N	Railway Sidings	1908	10560
247m NW	Railway Sidings	1908	10560
248m NW	Railway Sidings	1938	10560
248m NW	Railway Sidings	1928	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m**0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m**0**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



APPENDIX C

Photographs



P1: The farm access track



P2: Taken from the south of the site, facing south



P3: Possible spring



P4: Taken from the east boundary farm track, looking towards the site north-westerly



P5: Main Access gate looking north east along Hollingworth road



P6: Taken from north west boundary looking south-easterly

Comments:

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project

Site: Bank Top Farm
Hollingworth
Title: Appendix C – Site
Photographs

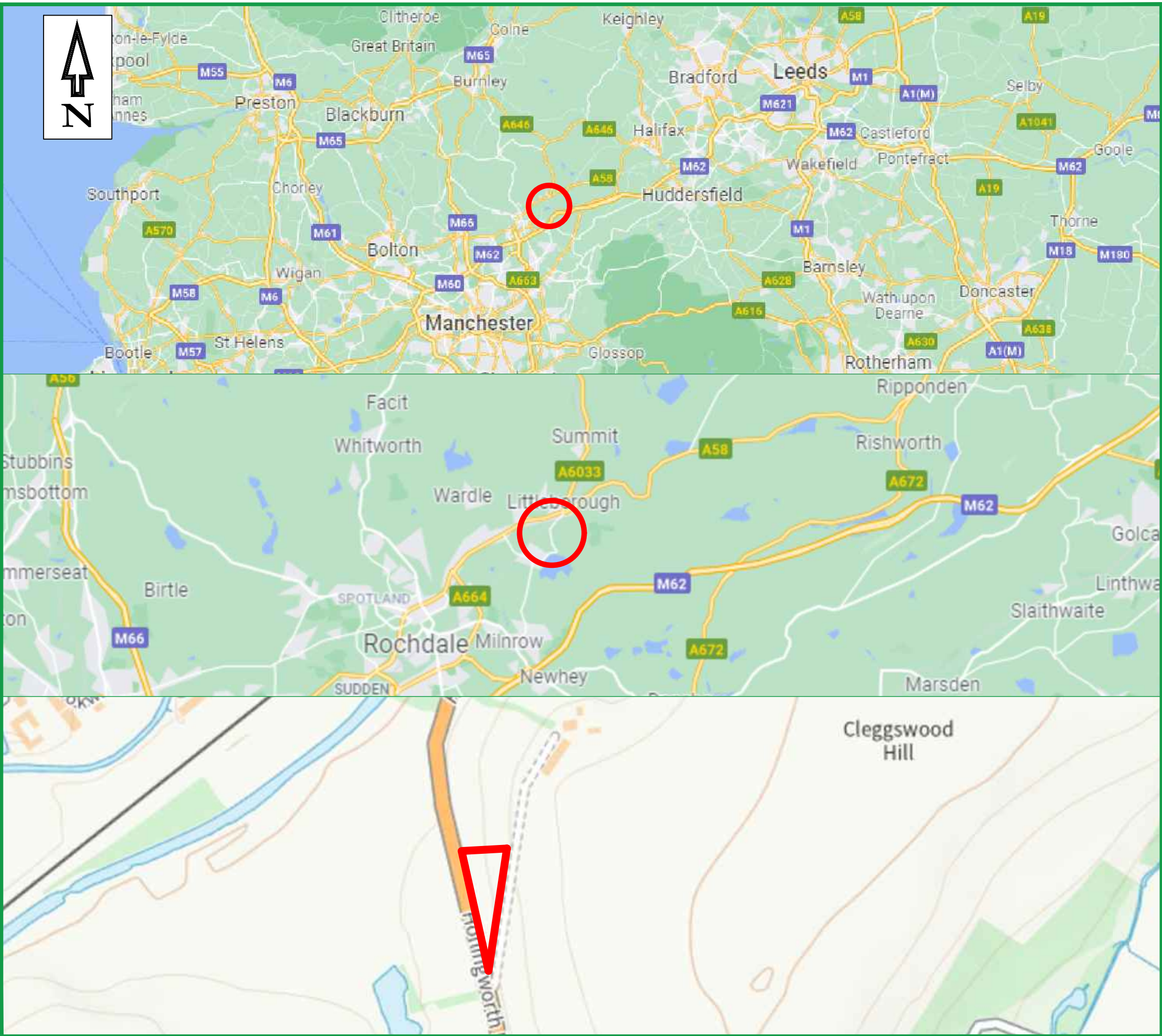


Photographs 1 to 6

Project No: 22019	Created By: J Embery	Date: August 2022
Client: Susan Davies (GM Davies Ltd)		

APPENDIX D

Drawings



LEGEND

— SITE LOCATION

REV	DESCRIPTION	DATE	BY



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

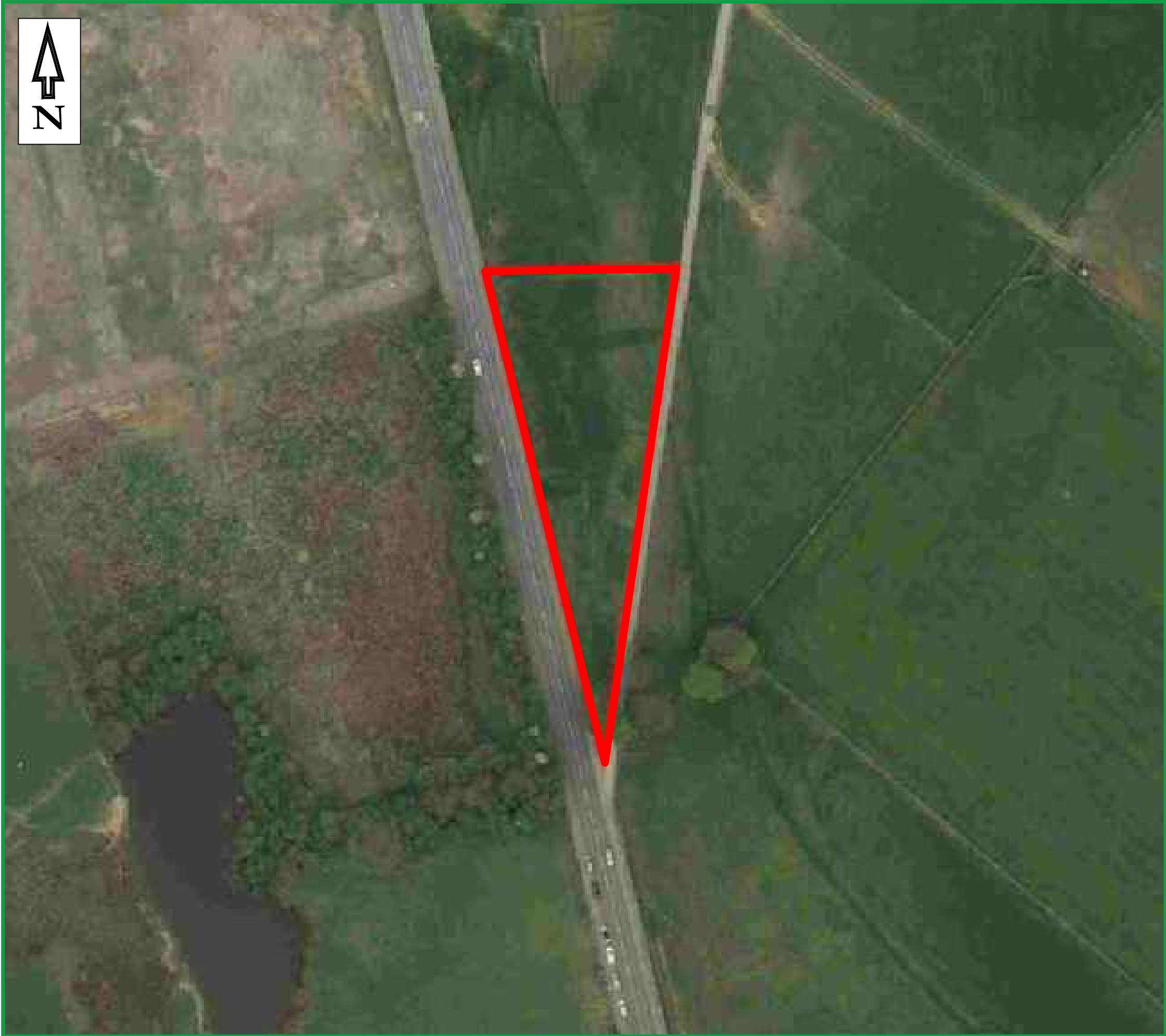
Suite One, No 3 Mitton Road Business Park, Mitton Road,
Whalley, Lancashire BB7 9YE
Tel: 01254 377622 Mob: 07906753583
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.
SUE DAVIES??????????????

JOB TITLE.
BANK TOP FARM, HOLLINGWORTH ROAD, LITTLEBOROUGH

DRAWING TITLE.
SITE LOCATION PLAN

SCALE © A3. N'TS	DRAWN BY. D.E.	APPROVED BY. M.B.	DATE. 17/02/22
DRAWING No. 22019-1			REV. -



LEGEND

 SITE FOOTPRINT

REV	DESCRIPTION	DATE	BY



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

Suite One, No 3 Mitton Road Business Park, Mitton Road,
Whalley, Lancashire BB7 9YE
Tel: 01254 377622 Mob: 07906753583
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.

SUE DAVIES???????????????

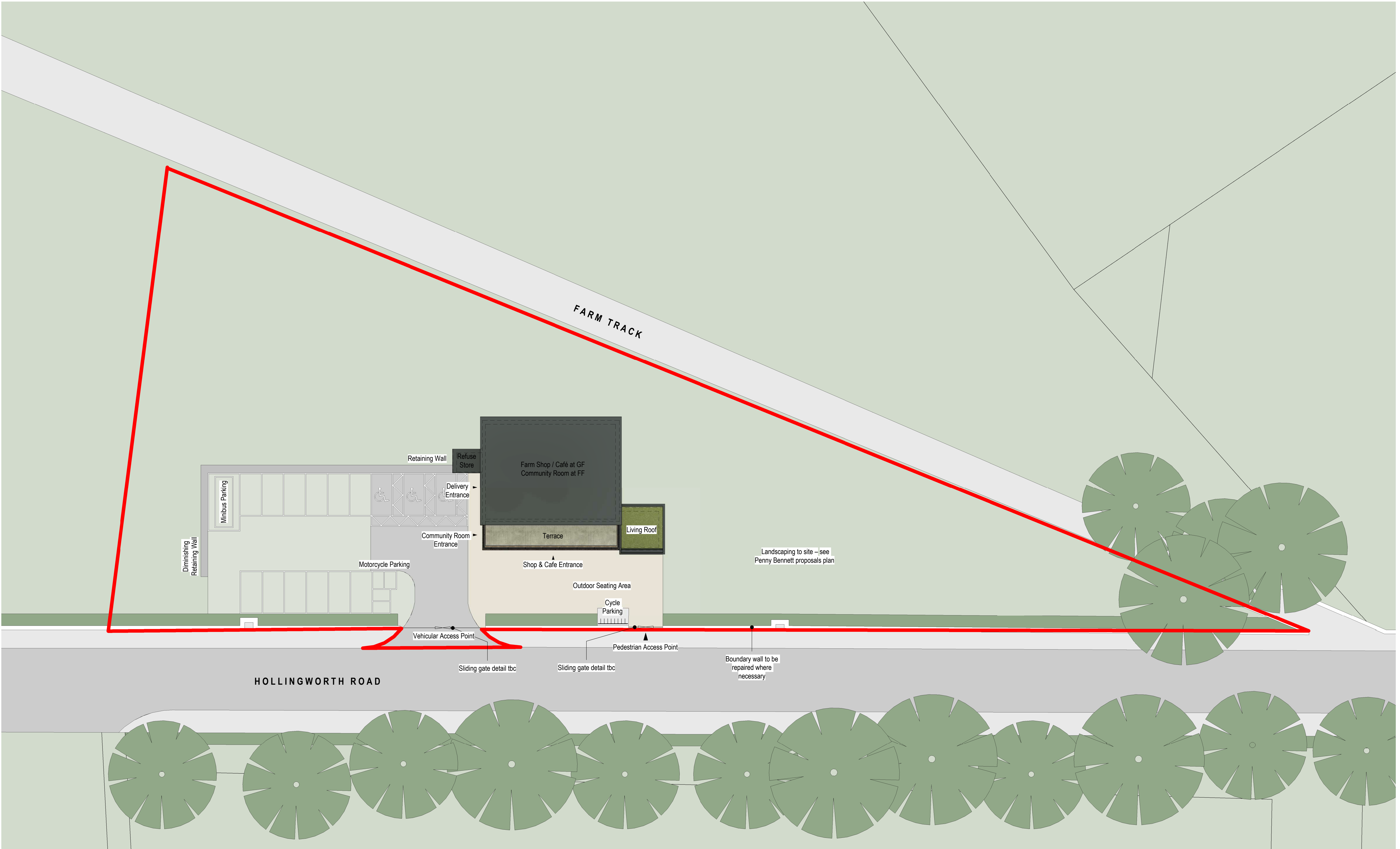
JOB TITLE.

BANK TOP FARM, HOLLINGWORTH ROAD, LITTLEBOROUGH

DRAWING TITLE.

SITE LAYOUT PLAN

SCALE © A3. NTS	DRAWN BY. D.E.	APPROVED BY. M.B.	DATE. 17/02/22
DRAWING No. 22019-2			REV. -



1

PROPOSED SITE PLAN

1 : 200

020.0m

04.0m

06.0m

08.0m

10.0m

12.0m

14.0m

16.0m

18.0m

20.0m

North

Key:

Site Boundary

Tarmac

Permeable Paving

Hedgerow

Grass

Grasscrete

Pavement

Building Footprint at Ground

Please Note:

Roof plan area/extent of proposed building indicated on this site plan; for ground floor footprint of proposed building refer to Floor Plans Drawing

03 SCHEME AMENDS

02 PLANNING ISSUE

01 UPDATED FOLLOWING CONSULTANT COMMENTS

00 FIRST ISSUE

25.07.2022 JS RE

19.07.2022 JS RE

08.06.2022 FG RE

23.05.2022 FG RE

Rev

Description

Date

Drw

CHK

Client:

Bank Top Farm

Project:

Bank Top Farm, Littleborough

Drawing Title:

Proposed Site Plan

Drawing Status:

PLANNING

Manchester Studio

The Stables, Paradise Wharf, Ducie Street, Manchester, M1 2JN

0161 272 8100

corstorphine-wright.com

Drawing No.

21358-2011

Revision

P-03

Drawn

Checked

Paper Size

Scale

Date

JS

RE

A1

As indicated

19.07.22