

Site Details:

BROADWATER LAKE,
MOORHALL ROAD, HAREFIELD,
UB9 6PE

Client Ref: 22-10-05
Report Ref: GS-9151608_SS_1_2
Grid Ref: 504449, 190682

Map Name: National Grid

Map date: 1974-1976

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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Surveyed 1974
Revised 1976
Edition N/A
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Surveyed 1972
Revised 1974
Edition N/A
Copyright 1975
Levelled 1972

Surveyed 1972
Revised 1973
Edition N/A
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Levelled 1972

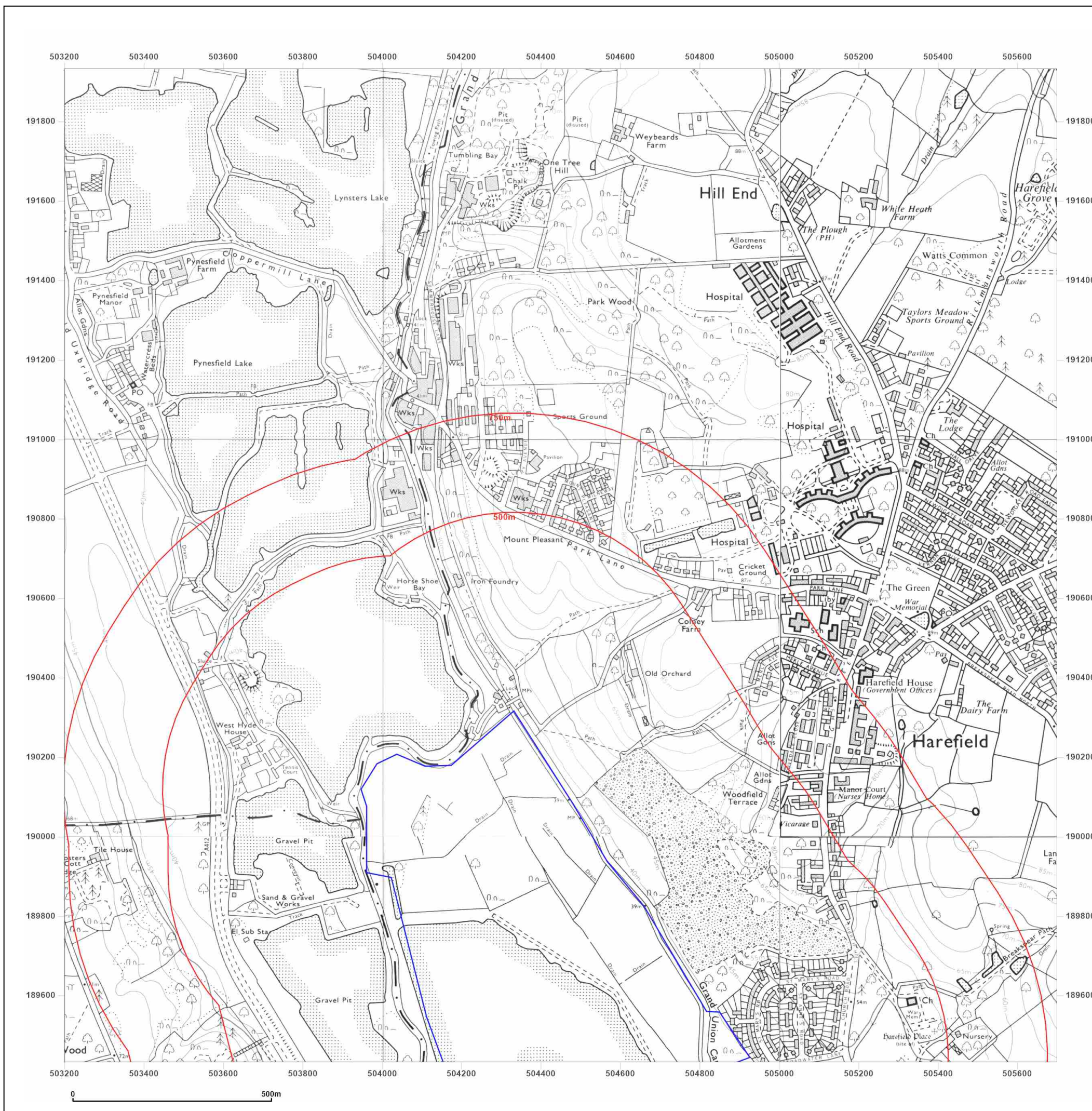


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Client Ref: 22-10-05
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Grid Ref: 504449, 190682

Map Name: National Grid

Map date: 1987-1989

Scale: 1:10,000

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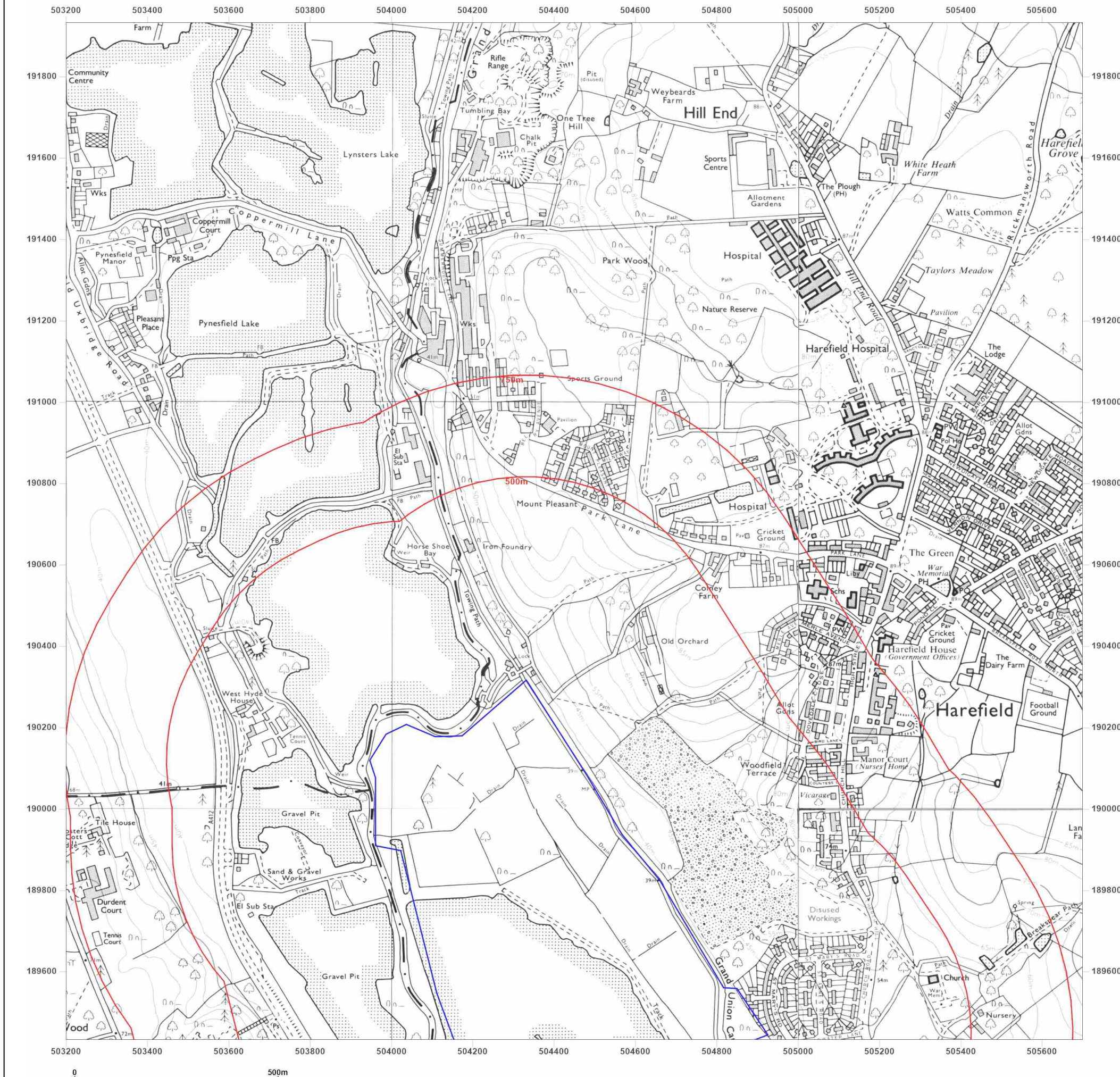


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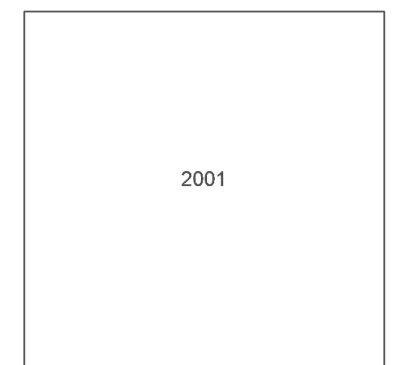
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Report Ref: GS-9151608_SS_1_2
Grid Ref: 504449, 190682

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

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UB9 6PE

Client Ref: 22-10-05
Report Ref: GS-9151608_SS_1_2
Grid Ref: 504449, 190682

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

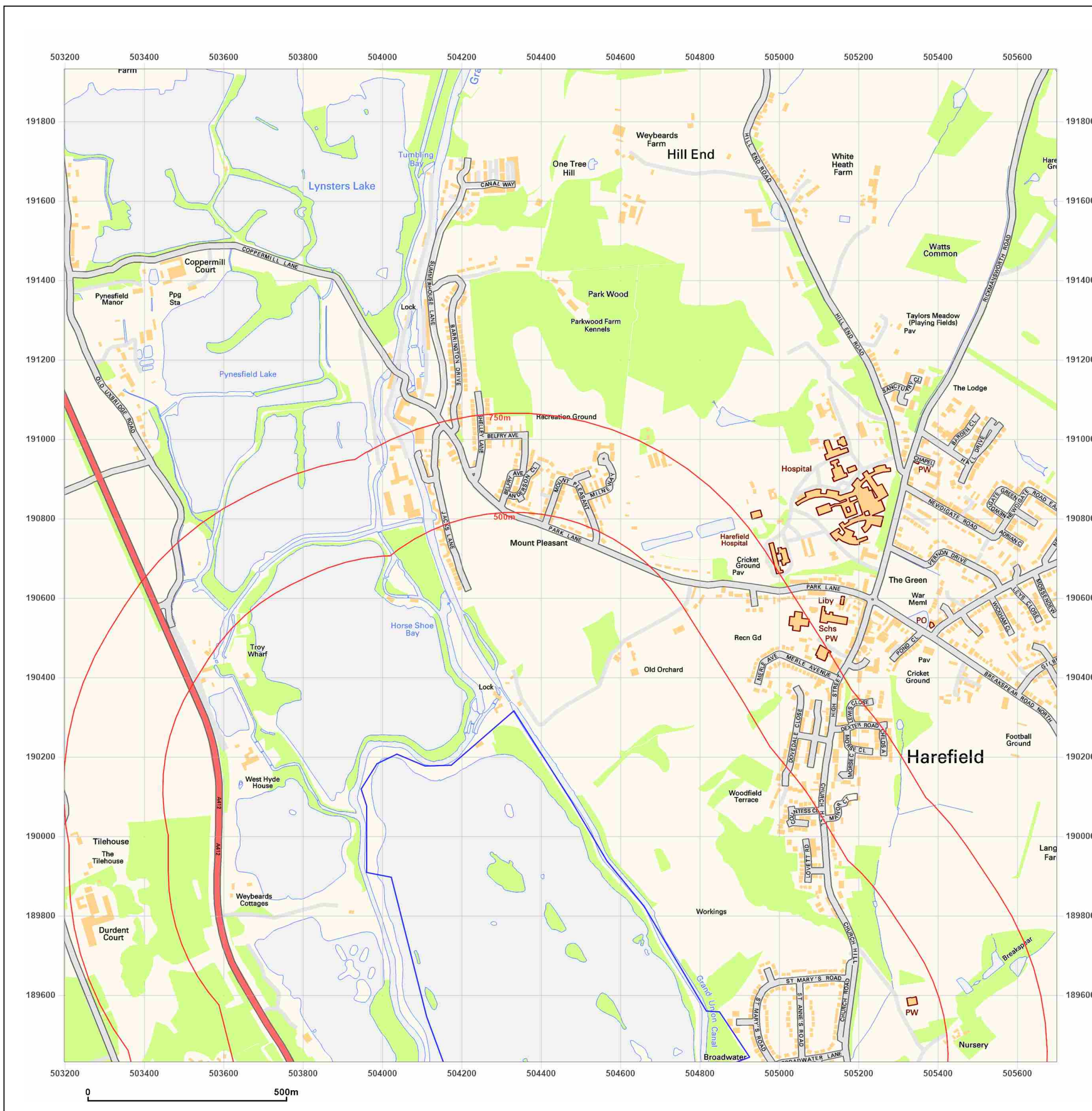


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Site Details:

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Client Ref: 22-10-05
Report Ref: GS-9151608_SS_1_2
Grid Ref: 504449, 190682

Map Name: National Grid

Map date: 2022

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2022

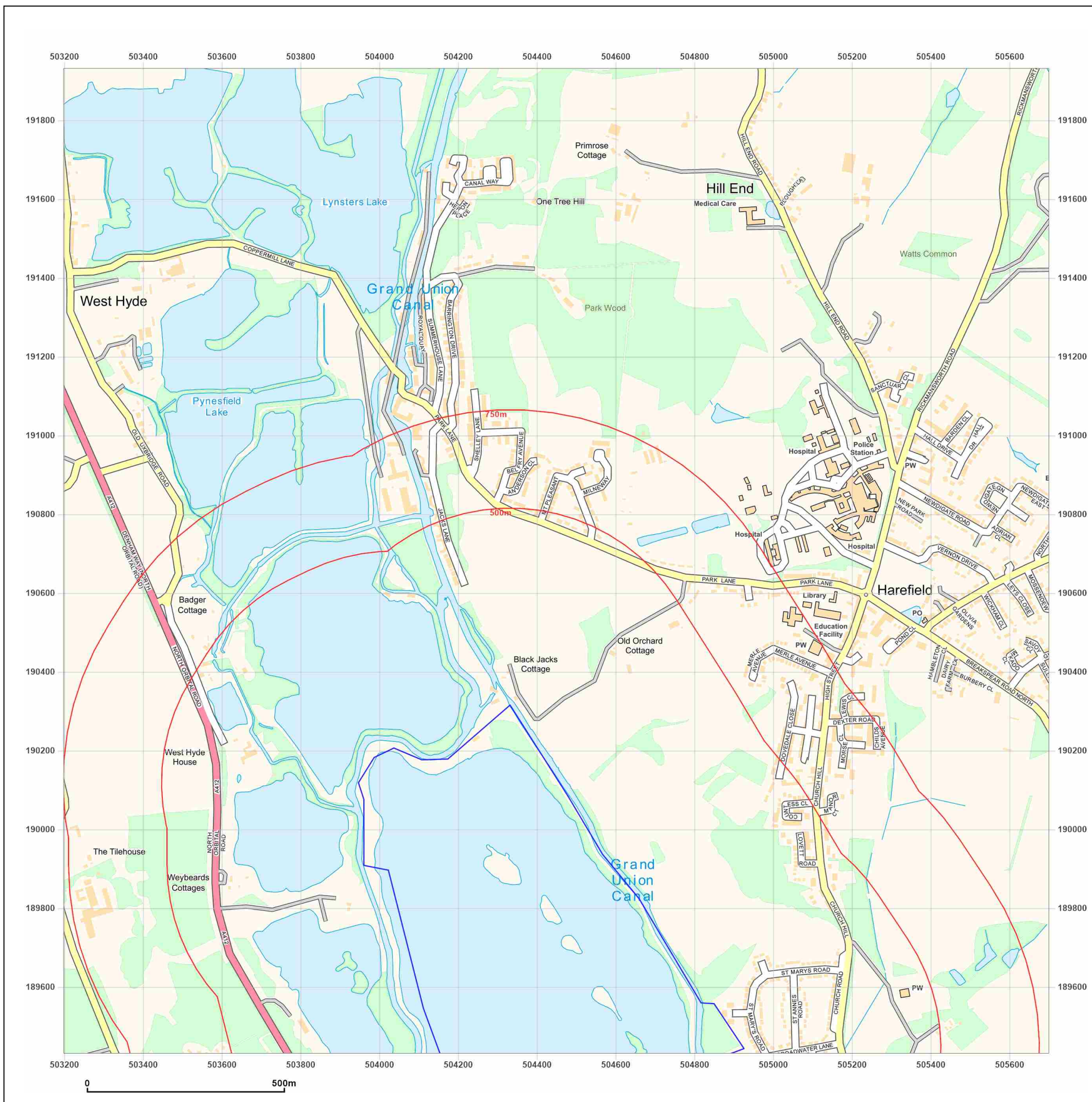


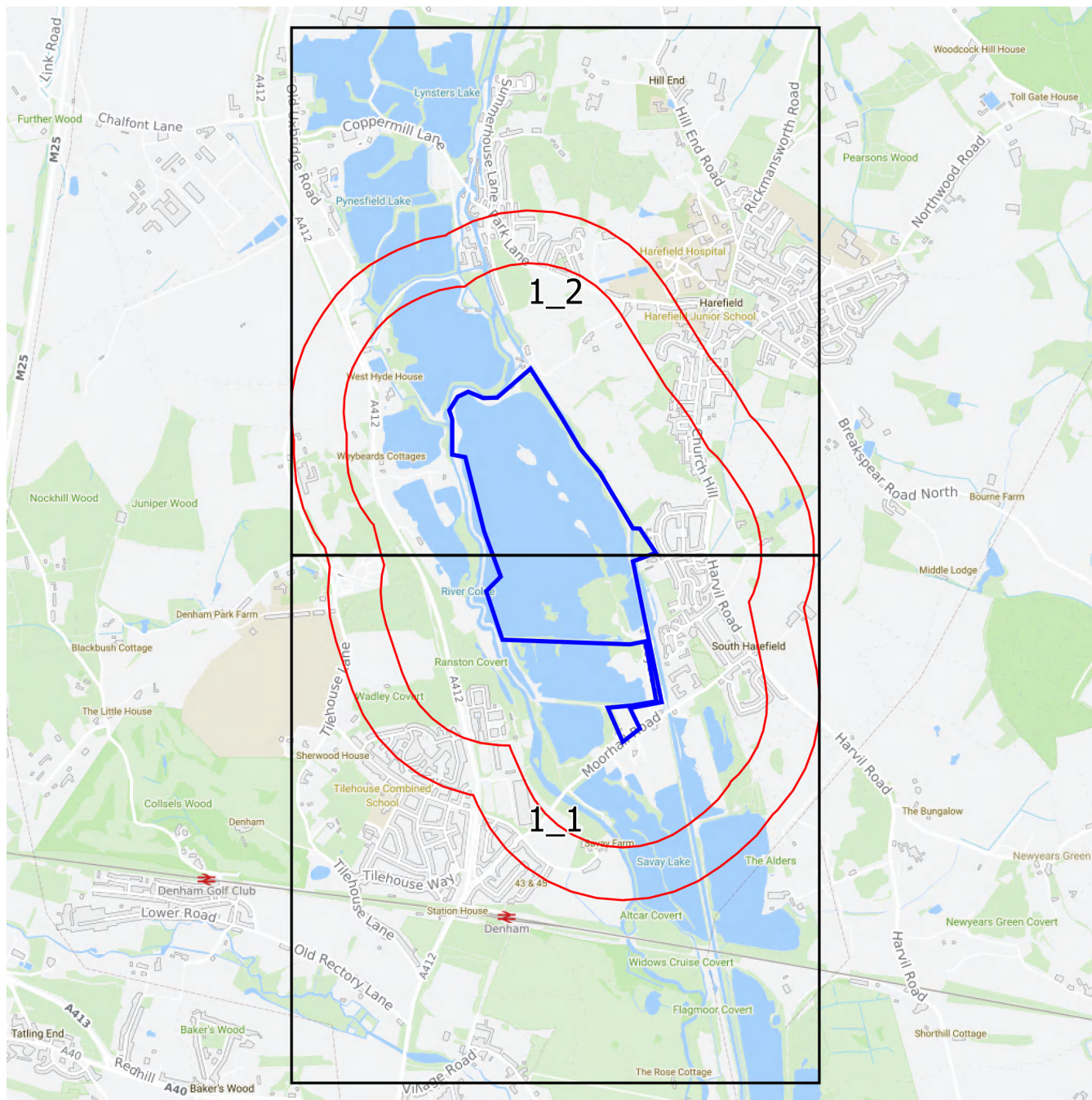
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Small Scale Grid Index



BROADWATER LAKE, MOORHALL ROAD, HAREFIELD, UB9 6PE

Order Details

Date: 25/10/2022

Your ref: 22-10-05

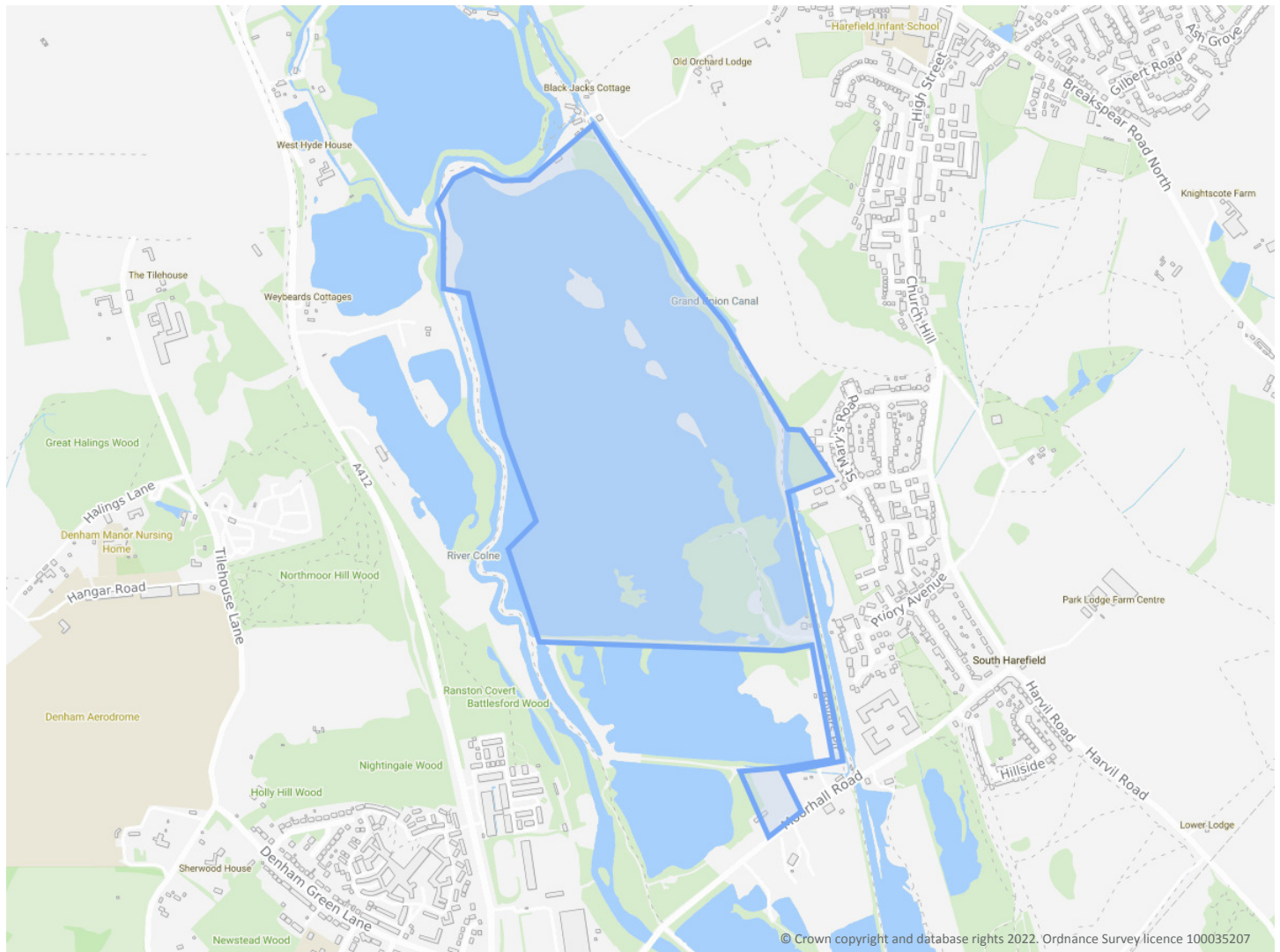
Our Ref: GS-9151609

Site Details

Location: 504450 189568

Area: 79.43 ha

Authority: [London Borough of Hillingdon](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

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Contact us with any questions at:

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	13	23	66	65	-
20	1.2	Historical tanks	0	0	15	11	-
21	1.3	Historical energy features	0	0	6	8	-
22	1.4	Historical petrol stations	0	0	0	0	-
22	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	Historical industrial land uses	18	26	90	79	-
31	2.2	Historical tanks	0	0	21	13	-
33	2.3	Historical energy features	0	0	11	15	-
34	2.4	Historical petrol stations	0	0	0	0	-
34	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	1	0	-
36	3.3	Historical landfill (LA/mapping records)	0	2	1	0	-
36	3.4	Historical landfill (EA/NRW records)	1	1	1	1	-
37	3.5	Historical waste sites	0	0	0	0	-
37	3.6	Licensed waste sites	1	0	0	0	-
38	3.7	Waste exemptions	0	1	5	10	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
40	4.1	Recent industrial land uses	2	5	12	-	-
42	4.2	Current or recent petrol stations	0	0	0	0	-
42	4.3	Electricity cables	0	0	0	0	-
42	4.4	Gas pipelines	0	0	0	0	-
42	4.5	Sites determined as Contaminated Land	0	0	0	0	-



42	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
43	4.7	Regulated explosive sites	0	0	0	0	-
43	4.8	Hazardous substance storage/usage	0	0	0	0	-
43	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
43	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
43	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	0	0	-
44	4.12	Radioactive Substance Authorisations	0	0	0	0	-
44	4.13	<u>Licensed Discharges to controlled waters</u>	1	1	11	3	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
47	4.15	Pollutant release to public sewer	0	0	0	0	-
47	4.16	List 1 Dangerous Substances	0	0	0	0	-
47	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	1	-
48	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	1	4	2	-
49	4.19	Pollution inventory substances	0	0	0	0	-
49	4.20	Pollution inventory waste transfers	0	0	0	0	-
49	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
50	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
52	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
54	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
56	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
57	5.5	Groundwater vulnerability- local information	None (within 0m)				
58	5.6	<u>Groundwater abstractions</u>	5	3	11	15	17
70	5.7	<u>Surface water abstractions</u>	0	0	0	0	2
71	5.8	<u>Potable abstractions</u>	0	2	10	2	6
75	5.9	<u>Source Protection Zones</u>	2	0	2	4	-
76	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
77	6.1	<u>Water Network (OS MasterMap)</u>	6	26	15	-	-



81	<u>6.2</u>	<u>Surface water features</u>	1	6	6	-	-
81	<u>6.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
82	<u>6.4</u>	<u>WFD Surface water bodies</u>	2	1	0	-	-
82	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
84	<u>7.1</u>	<u>Risk of flooding from rivers and the sea</u>	High (within 50m)				
85	<u>7.2</u>	<u>Historical Flood Events</u>	0	0	1	-	-
85	7.3	Flood Defences	0	0	0	-	-
85	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
86	7.5	Flood Storage Areas	0	0	0	-	-
87	<u>7.6</u>	<u>Flood Zone 2</u>	Identified (within 50m)				
88	<u>7.7</u>	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
89	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
91	<u>9.1</u>	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
92	<u>10.1</u>	<u>Sites of Special Scientific Interest (SSSI)</u>	1	0	2	0	3
93	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
93	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
93	10.4	Special Protection Areas (SPA)	0	0	0	0	0
94	<u>10.5</u>	<u>National Nature Reserves (NNR)</u>	0	0	0	0	1
94	<u>10.6</u>	<u>Local Nature Reserves (LNR)</u>	0	0	0	1	4
94	<u>10.7</u>	<u>Designated Ancient Woodland</u>	0	0	1	3	24
96	10.8	Biosphere Reserves	0	0	0	0	0
96	10.9	Forest Parks	0	0	0	0	0
96	10.10	Marine Conservation Zones	0	0	0	0	0
96	<u>10.11</u>	<u>Green Belt</u>	2	3	1	2	3
97	10.12	Proposed Ramsar sites	0	0	0	0	0



97	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
97	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
98	10.15	Nitrate Sensitive Areas	0	0	0	0	0
98	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
99	10.17	<u>SSSI Impact Risk Zones</u>	3	-	-	-	-
100	10.18	<u>SSSI Units</u>	2	1	2	0	6
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
105	11.1	World Heritage Sites	0	0	0	-	-
106	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
106	11.3	National Parks	0	0	0	-	-
106	11.4	<u>Listed Buildings</u>	0	1	1	-	-
107	11.5	<u>Conservation Areas</u>	1	1	1	-	-
107	11.6	Scheduled Ancient Monuments	0	0	0	-	-
107	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
108	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
109	12.2	<u>Open Access Land</u>	0	0	1	-	-
110	12.3	Tree Felling Licences	0	0	0	-	-
110	12.4	Environmental Stewardship Schemes	0	0	0	-	-
110	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
111	13.1	<u>Priority Habitat Inventory</u>	21	11	24	-	-
114	13.2	<u>Habitat Networks</u>	1	0	1	-	-
114	13.3	<u>Open Mosaic Habitat</u>	1	1	0	-	-
114	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
116	14.1	<u>10k Availability</u>	Identified (within 500m)				
118	14.2	<u>Artificial and made ground (10k)</u>	8	9	18	15	-
121	14.3	<u>Superficial geology (10k)</u>	10	7	5	6	-

123	14.4	Landslip (10k)	0	0	0	0	-
<u>124</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	2	1	3	7	-
125	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>126</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
<u>127</u>	<u>15.2</u>	<u>Artificial and made ground (50k)</u>	6	5	8	4	-
<u>128</u>	<u>15.3</u>	<u>Artificial ground permeability (50k)</u>	3	2	-	-	-
<u>130</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	6	3	5	2	-
<u>131</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
132	15.6	Landslip (50k)	0	0	0	0	-
132	15.7	Landslip permeability (50k)	None (within 50m)				
<u>133</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	1	0	2	1	-
<u>134</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
134	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>135</u>	<u>16.1</u>	<u>BGS Boreholes</u>	1	4	16	-	-
Page	Section	Natural ground subsidence					
<u>137</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Very low (within 50m)				
<u>139</u>	<u>17.2</u>	<u>Running sands</u>	Low (within 50m)				
<u>141</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>143</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>145</u>	<u>17.5</u>	<u>Landslides</u>	Very low (within 50m)				
<u>147</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Very low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
149	18.1	Natural cavities	0	0	0	0	-
<u>150</u>	<u>18.2</u>	<u>BritPits</u>	1	0	9	13	-
<u>154</u>	<u>18.3</u>	<u>Surface ground workings</u>	29	13	73	-	-
158	18.4	Underground workings	0	0	0	0	0
<u>158</u>	<u>18.5</u>	<u>Historical Mineral Planning Areas</u>	4	3	4	0	-



<u>159</u>	<u>18.6</u>	<u>Non-coal mining</u>	1	1	4	3	2
161	18.7	Mining cavities	0	0	0	0	0
161	18.8	JPB mining areas	None (within 0m)				
161	18.9	Coal mining	None (within 0m)				
161	18.10	Brine areas	None (within 0m)				
161	18.11	Gypsum areas	None (within 0m)				
162	18.12	Tin mining	None (within 0m)				
162	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>163</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>164</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	28	18	-	-	-
<u>166</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	110	29	-	-	-
<u>172</u>	<u>20.3</u>	<u>BGS Measured Urban Soil Chemistry</u>	2	1	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
173	21.1	Underground railways (London)	0	0	0	-	-
173	21.2	Underground railways (Non-London)	0	0	0	-	-
174	21.3	Railway tunnels	0	0	0	-	-
<u>174</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	3	4	7	-	-
175	21.5	Royal Mail tunnels	0	0	0	-	-
175	21.6	Historical railways	0	0	0	-	-
175	21.7	Railways	0	0	0	-	-
175	21.8	Crossrail 1	0	0	0	0	-
175	21.9	Crossrail 2	0	0	0	0	-
<u>176</u>	<u>21.10</u>	<u>HS2</u>	0	0	1	2	-



Recent aerial photograph



Capture Date: 13/06/2021

Site Area: 79.43ha



Recent site history - 2019 aerial photograph



Capture Date: 29/06/2019

Site Area: 79.43ha



Recent site history - 2014 aerial photograph



Capture Date: 03/07/2014

Site Area: 79.43ha



Recent site history - 2010 aerial photograph



Capture Date: 01/09/2010

Site Area: 79.43ha



Recent site history - 1999 aerial photograph

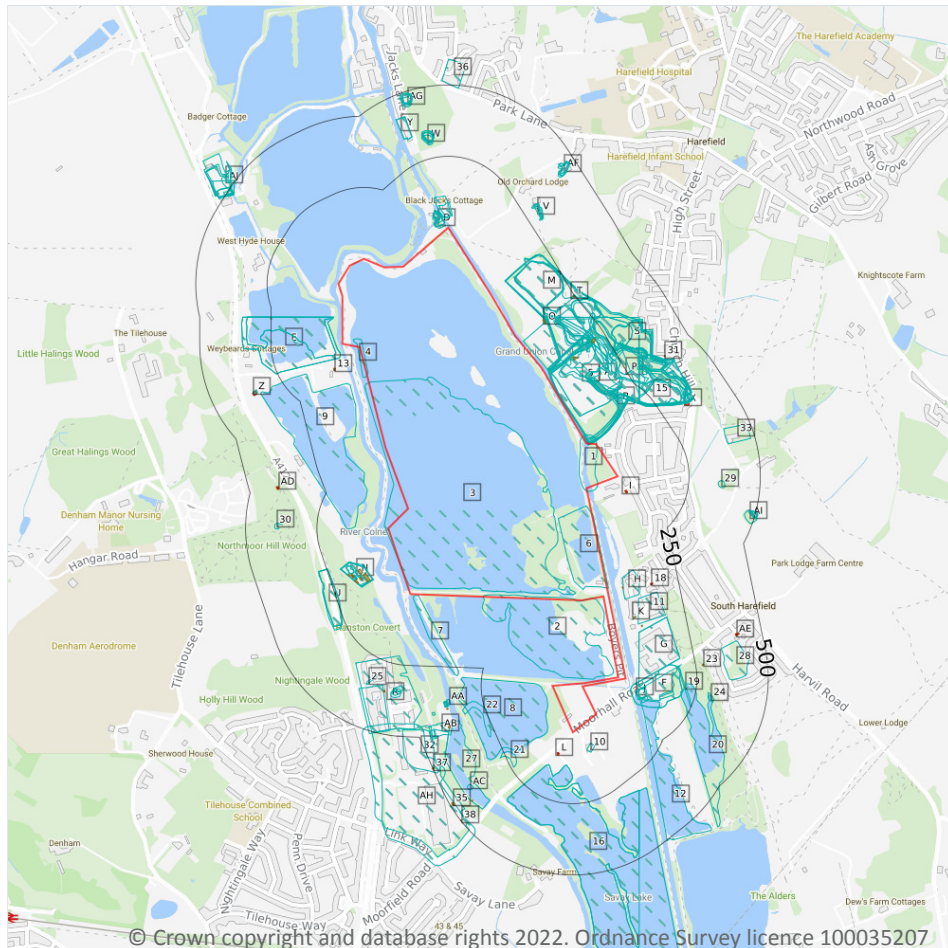


Capture Date: 13/10/1999

Site Area: 79.43ha



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

167

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Wharf	1912	2157256



ID	Location	Land use	Dates present	Group ID
2	On site	Gravel Pit	1974 - 1989	2180801
3	On site	Gravel Pit	1974 - 1989	2183490
4	On site	Gravel Pit	1974 - 1989	2235778
5	On site	Cement Lime and Brick Works	1897 - 1898	2255861
6	On site	Sand and Gravel Works	1974 - 1989	2289756
A	On site	Brick and Cement Works	1912	2142766
A	On site	Cement Lime Brick and Tile Works	1895	2269491
A	On site	Cement Lime Brick and Tile Works	1900	2273031
B	On site	Railway Sidings	1897	2229128
B	On site	Railway Sidings	1895	2241542
C	On site	Disused Cement and Brick Works	1934	2261464
C	On site	Disused Cement and Brick Works	1949	2274588
7	4m S	Gravel Pit	1974 - 1989	2222439
B	4m E	Railway Sidings	1900	2264713
B	5m E	Railway Sidings	1898	2283971
D	13m N	Mill	1970	2142951
C	16m NE	Unspecified Disused Works	1938	2239004
C	19m NE	Refuse Heap	1973 - 1974	2272491
C	19m NE	Refuse Heap	1987 - 1989	2283219
D	20m N	Unspecified Mill	1912 - 1934	2171403
D	20m N	Unspecified Mill	1949	2283996
E	23m NW	Sand and Gravel Works	1974	2232667
E	23m NW	Sand and Gravel Works	1989	2261796
D	30m N	Unspecified Mill	1898	2185180
E	32m NW	Gravel Pit	1974	2177123
E	32m NW	Gravel Pit	1989	2224154
D	33m N	Unspecified Mill	1895 - 1897	2249491
8	35m S	Gravel Pit	1974 - 1989	2176372



ID	Location	Land use	Dates present	Group ID
D	35m N	Unspecified Mill	1900	2250171
F	35m SE	Unspecified Wharf	1949	2177420
F	35m SE	Unspecified Wharf	1934	2225883
D	40m N	Unspecified Mill	1938	2263190
D	40m N	Unspecified Mill	1960	2233728
G	47m SE	Unspecified Works	1973	2212883
G	47m SE	Unspecified Works	1987	2278562
C	52m NE	Unspecified Disused Works	1959	2289058
H	53m SE	Unspecified Works	1974	2159685
J	58m SE	Wharf	1898	2276352
J	58m SE	Unspecified Wharf	1895 - 1897	2179654
J	58m SE	Unspecified Wharf	1865 - 1882	2203257
F	62m SE	Wharf	1969	2241286
9	64m W	Gravel Pit	1974 - 1989	2270137
10	68m S	Pumping Station	1974 - 1989	2211046
C	70m NE	Unspecified Quarry	1865	2144950
11	82m SE	Unspecified Works	1973	2159686
12	82m SE	Gravel Pit	1973	2138913
J	87m SE	Unspecified Wharf	1912	2231864
M	96m N	Unspecified Ground Workings	1938	2231006
C	99m N	Disused Chalk Pit	1934	2186628
C	99m N	Disused Chalk Pit	1949	2262773
C	100m NE	Unspecified Kilns	1865 - 1882	2270737
14	101m N	Disused Chalk Pit	1960 - 1970	2195776
N	106m SW	Unspecified Commercial/Industrial	1959	2130859
N	108m SW	Sewage Works	1949	2266229
O	108m NE	Unspecified Tanks	1938 - 1949	2182925
N	109m SW	Unspecified Works	1938	2159696



ID	Location	Land use	Dates present	Group ID
15	115m NE	Unspecified Ground Workings	1938	2207918
N	116m SW	Sewage Works	1974 - 1989	2186536
16	117m S	Gravel Pit	1989	2186464
17	117m S	Gravel Pit	1973 - 1974	2254681
O	119m NE	Unspecified Tanks	1959	2143894
P	125m NE	Unspecified Pits	1912	2141673
C	132m NE	Unspecified Pit	1959	2124963
F	132m SE	Unspecified Wharf	1938	2263540
N	138m SW	Unspecified Tank	1974 - 1989	2292016
N	138m SW	Unspecified Tanks	1949 - 1959	2232223
N	142m SW	Unspecified Tanks	1959	2192534
N	142m SW	Unspecified Tanks	1974 - 1989	2202380
N	143m SW	Unspecified Tanks	1949	2253738
C	148m NE	Tramway Sidings	1938	2220167
C	149m NE	Tramway Sidings	1949	2208316
C	149m NE	Tramway Sidings	1934	2261466
N	160m SW	Unspecified Tanks	1974 - 1989	2204850
N	160m SW	Unspecified Tanks	1959	2284783
N	161m SW	Unspecified Tanks	1949	2221240
N	161m SW	Unspecified Tanks	1974 - 1989	2211869
N	161m SW	Unspecified Tanks	1959	2227613
N	163m SW	Unspecified Tanks	1949	2242308
C	165m NE	Unspecified Kilns	1865 - 1882	2234630
C	167m NE	Unspecified Heap	1949	2237484
C	167m NE	Unspecified Heap	1934	2270340
C	172m NE	Unspecified Heap	1959	2191061
C	180m NE	Unspecified Ground Workings	1897	2272138
19	182m SE	Unspecified Wharf	1959	2183905



ID	Location	Land use	Dates present	Group ID
20	199m SE	Gravel Pit	1973 - 1987	2189195
M	205m NE	Unspecified Heap	1959	2136331
Q	209m E	Unspecified Ground Workings	1959	2178616
Q	209m E	Unspecified Ground Workings	1969	2188141
Q	211m E	Disused Copper Workings	1987	2128360
21	217m S	Refuse Heap	1959	2158698
R	220m S	Unspecified Laboratories	1974 - 1989	2230428
C	225m NE	Tramway Sidings	1938	2151135
P	228m E	Unspecified Pit	1900	2124964
C	237m NE	Railway Sidings	1959	2128643
S	239m NE	Unspecified Ground Workings	1949	2226903
S	239m NE	Unspecified Ground Workings	1934	2261039
T	242m NE	Unspecified Tank	1912	2154583
U	243m SW	Cuttings	1938 - 1949	2173153
U	244m SW	Cuttings	1959	2171081
U	244m SW	Cuttings	1974 - 1989	2203821
22	247m S	Refuse Heap	1959	2158700
P	252m E	Unspecified Ground Workings	1898	2213509
P	254m E	Unspecified Ground Workings	1895	2208932
S	282m NE	Unspecified Ground Workings	1897	2256723
V	284m N	Unspecified Ground Workings	1938	2194679
V	290m N	Unspecified Pit	1960	2124962
V	292m N	Unspecified Ground Workings	1970	2294198
24	293m SE	Gravel Pit	1912	2224025
Q	296m NE	Unspecified Ground Workings	1934	2189685
Q	296m NE	Unspecified Ground Workings	1949	2282065
W	297m N	Unspecified Heap	1938	2136329
W	303m N	Unspecified Pit	1882 - 1960	2250280



ID	Location	Land use	Dates present	Group ID
W	305m N	Unspecified Pit	1970	2169856
W	307m N	Unspecified Pit	1949	2178600
W	307m N	Unspecified Pit	1912 - 1934	2266280
25	311m SW	Unspecified Pit	1974 - 1989	2220308
W	313m N	Unspecified Pit	1865	2291490
R	324m S	Unspecified Heap	1974	2217530
26	333m S	Unspecified Laboratories	1949	2201533
R	334m S	Unspecified Heap	1949 - 1959	2204605
Y	339m N	Iron Foundry	1974	2240059
Y	339m N	Iron Foundry	1987	2285937
R	341m S	Unspecified Heap	1938	2228703
Z	342m W	Electric Substation	1974 - 1989	2175317
27	347m S	Fishery	1898	2211215
28	348m SE	Unspecified Pit	1865	2124954
29	353m E	Unspecified Pit	1865 - 1882	2279800
AA	364m S	Boat House	1882	2213047
AB	368m S	Fishery	1882	2270339
AA	370m S	Boat House	1949	2207944
AA	370m S	Boat House	1912	2186170
30	372m W	Unspecified Ground Workings	1882	2133440
AA	372m S	Boat House	1897	2253939
AA	372m S	Boat House	1895	2184517
32	398m S	Fishery	1898	2291696
AC	399m S	Fishery	1897	2267305
33	402m E	Grave Yard	1865 - 1882	2264383
34	411m S	Boat House	1938	2146181
AF	423m N	Unspecified Ground Workings	1938	2267391
AF	428m N	Unspecified Ground Workings	1970	2180603



ID	Location	Land use	Dates present	Group ID
AF	429m N	Unspecified Pit	1960	2279024
AF	429m N	Unspecified Pit	1949	2266093
AF	429m N	Unspecified Pit	1934	2288028
AB	441m S	Fishery	1897	2230230
AG	447m N	Unspecified Heap	1938	2136330
AH	448m S	Unspecified Commercial/Industrial	1974 - 1989	2232327
AG	451m N	Unspecified Pit	1960 - 1970	2295163
AH	454m S	Unspecified Commercial/Industrial	1949 - 1959	2222302
AG	458m N	Unspecified Pit	1912 - 1934	2214127
AG	458m N	Unspecified Pit	1949	2245843
AG	459m N	Unspecified Pit	1865	2263556
AG	461m N	Unspecified Pit	1882	2205303
AI	464m E	Unspecified Pit	1865	2292218
AJ	475m NW	Unspecified Disused Mill	1938	2172970
AJ	477m NW	Unspecified Mill	1926	2286873
AJ	477m NW	Unspecified Mill	1897	2223870
AJ	481m NW	Unspecified Disused Mill	1960	2198865
AI	481m E	Unspecified Pit	1938	2174997
AJ	483m NW	Disused Mill	1970	2141995
AJ	483m NW	Unspecified Disused Mill	1934	2215172
AJ	483m NW	Unspecified Disused Mill	1949	2225850
AI	485m E	Unspecified Pit	1969	2282462
AI	488m E	Unspecified Ground Workings	1949	2180596
AI	488m E	Unspecified Ground Workings	1912 - 1934	2239279
36	490m N	Unspecified Works	1974	2159694
AJ	499m NW	Unspecified Mill	1898	2293968

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

26

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 13**

ID	Location	Land use	Dates present	Group ID
H	53m SE	Tanks	1971	376246
K	72m SE	Tanks	1971	376247
13	90m NW	Unspecified Tank	1971 - 1989	399435
K	92m SE	Unspecified Tank	1971	364005
O	109m NE	Tanks	1934	376244
C	112m NE	Tanks	1934	376245
N	118m SW	Tanks	1971 - 1987	409701
N	135m SW	Tanks	1971 - 1987	384474
N	143m SW	Tanks	1987	376239
N	160m SW	Tanks	1971 - 1987	383860
N	168m SW	Tanks	1971	391476
N	168m SW	Tanks	1989	398973
N	181m SW	Tanks	1971	376240
C	197m NE	Unspecified Tank	1896 - 1899	385586
T	244m NE	Unspecified Tank	1914	364018
23	272m SE	Unspecified Tank	1971	364004
R	349m S	Unspecified Tank	1971	399615
R	349m S	Unspecified Tank	1989	392962
R	351m S	Unspecified Tank	1992	398851
AA	375m S	Unspecified Tank	1877 - 1899	390730
AB	386m S	Unspecified Tank	1877	364003



ID	Location	Land use	Dates present	Group ID
31	389m NE	Unspecified Tank	1866	364019
AC	425m S	Unspecified Tank	1899	364001
35	485m S	Tanks	1989 - 1992	396784
37	496m S	Unspecified Tank	1971	363998
38	497m S	Unspecified Tank	1971	364002

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

14

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 13**

ID	Location	Land use	Dates present	Group ID
I	57m E	Electricity Substation	1971 - 1987	284489
I	59m E	Electricity Substation	1992	264776
L	87m S	Electricity Substation	1971	252063
L	88m S	Electricity Substation	1989	254886
L	91m S	Electricity Substation	1992	252793
18	152m SE	Electricity Substation	1971 - 1987	262860
X	334m E	Electricity Substation	1982 - 1987	264017
X	335m E	Electricity Substation	1971	275078
Z	346m W	Electricity Substation	1971 - 1992	289345
AD	399m W	Electricity Substation	1971	266547
AD	402m W	Electricity Substation	1992	287685
AD	402m W	Electricity Substation	1989	277695
AE	408m SE	Electricity Substation	1971 - 1989	275121



ID	Location	Land use	Dates present	Group ID
AE	415m SE	Electricity Substation	1992	244330

This data is sourced from Ordnance Survey / Groundsure.

1.4 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, 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
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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.

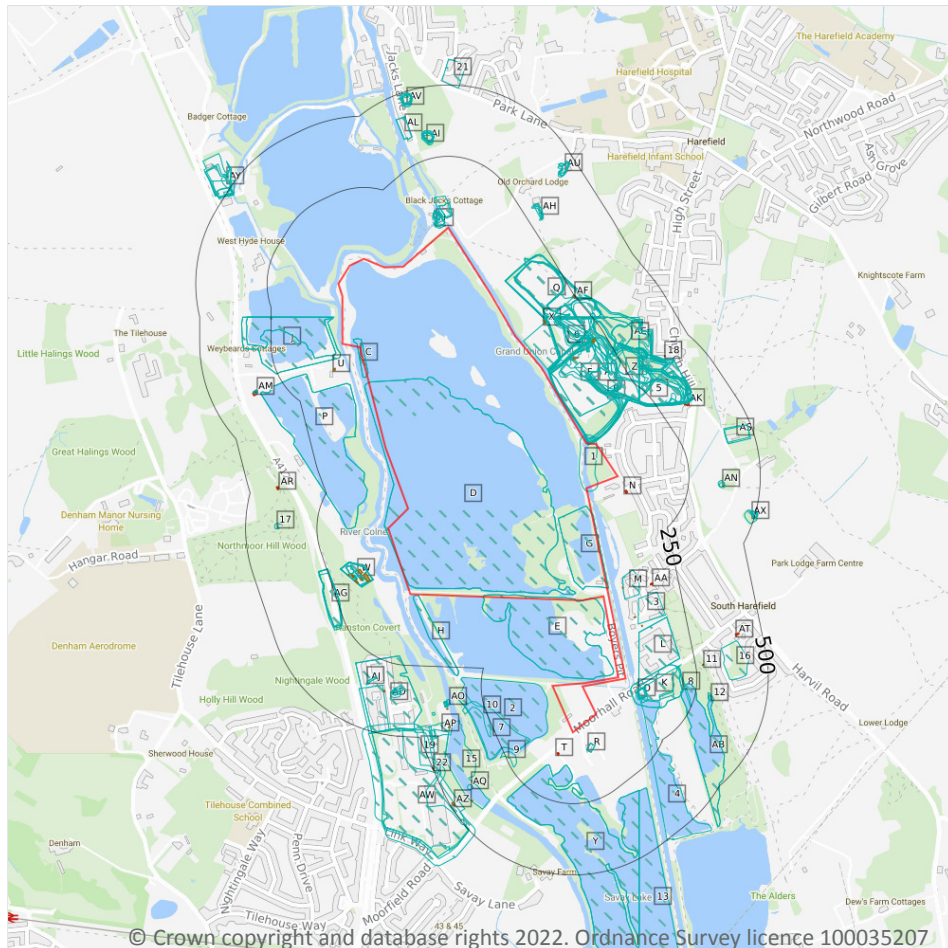
1.6 Historical military land

Records within 500m	0
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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

213

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
1	On site	Unspecified Wharf	1912	2157256
A	On site	Brick and Cement Works	1912	2142766
A	On site	Cement Lime Brick and Tile Works	1900	2273031



ID	Location	Land Use	Date	Group ID
A	On site	Disused Cement and Brick Works	1949	2274588
A	On site	Disused Cement and Brick Works	1934	2261464
A	On site	Cement Lime Brick and Tile Works	1895	2269491
B	On site	Railway Sidings	1895	2241542
B	On site	Railway Sidings	1897	2229128
C	On site	Gravel Pit	1989	2235778
C	On site	Gravel Pit	1974	2235778
D	On site	Gravel Pit	1989	2183490
D	On site	Gravel Pit	1974	2183490
E	On site	Gravel Pit	1989	2180801
E	On site	Gravel Pit	1974	2180801
F	On site	Cement Lime and Brick Works	1898	2255861
F	On site	Cement Lime and Brick Works	1897	2255861
G	On site	Sand and Gravel Works	1989	2289756
G	On site	Sand and Gravel Works	1974	2289756
H	4m S	Gravel Pit	1989	2222439
H	4m S	Gravel Pit	1974	2222439
B	4m E	Railway Sidings	1900	2264713
B	5m E	Railway Sidings	1898	2283971
I	13m N	Mill	1970	2142951
A	16m NE	Unspecified Disused Works	1938	2239004
A	19m NE	Refuse Heap	1989	2283219
A	19m NE	Refuse Heap	1974	2272491
I	20m N	Unspecified Mill	1949	2283996
I	20m N	Unspecified Mill	1934	2171403
I	20m N	Unspecified Mill	1912	2171403
J	23m NW	Sand and Gravel Works	1989	2261796
J	23m NW	Sand and Gravel Works	1974	2232667



ID	Location	Land Use	Date	Group ID
I	30m N	Unspecified Mill	1898	2185180
J	32m NW	Gravel Pit	1989	2224154
J	32m NW	Gravel Pit	1974	2177123
I	33m N	Unspecified Mill	1897	2249491
2	35m S	Gravel Pit	1989	2176372
I	35m N	Unspecified Mill	1900	2250171
K	35m SE	Unspecified Wharf	1949	2177420
K	35m SE	Unspecified Wharf	1934	2225883
I	37m N	Unspecified Mill	1895	2249491
I	40m N	Unspecified Mill	1938	2263190
I	40m N	Unspecified Mill	1960	2233728
L	47m SE	Unspecified Works	1987	2278562
L	47m SE	Unspecified Works	1973	2212883
A	52m NE	Unspecified Disused Works	1959	2289058
M	53m SE	Unspecified Works	1974	2159685
O	58m SE	Wharf	1898	2276352
O	58m SE	Unspecified Wharf	1895	2179654
O	58m SE	Unspecified Wharf	1882	2203257
O	61m SE	Unspecified Wharf	1897	2179654
K	62m SE	Wharf	1969	2241286
O	63m SE	Unspecified Wharf	1865	2203257
P	64m W	Gravel Pit	1989	2270137
P	64m W	Gravel Pit	1974	2270137
Q	67m N	Refuse Heap	1974	2272491
Q	67m N	Refuse Heap	1987	2283219
R	68m S	Pumping Station	1989	2211046
R	68m S	Pumping Station	1974	2211046
A	70m NE	Unspecified Quarry	1865	2144950



ID	Location	Land Use	Date	Group ID
3	82m SE	Unspecified Works	1973	2159686
4	82m SE	Gravel Pit	1973	2138913
O	87m SE	Unspecified Wharf	1912	2231864
V	96m N	Unspecified Ground Workings	1938	2231006
Q	99m N	Disused Chalk Pit	1949	2262773
Q	99m N	Disused Chalk Pit	1934	2186628
A	100m NE	Unspecified Kilns	1865	2270737
Q	101m N	Disused Chalk Pit	1960	2195776
Q	102m N	Disused Chalk Pit	1970	2195776
A	103m NE	Unspecified Kilns	1882	2270737
W	106m SW	Unspecified Commercial/Industrial	1959	2130859
W	108m SW	Sewage Works	1949	2266229
X	108m NE	Unspecified Tanks	1938	2182925
W	109m SW	Unspecified Works	1938	2159696
X	112m NE	Unspecified Tanks	1949	2182925
5	115m NE	Unspecified Ground Workings	1938	2207918
W	116m SW	Sewage Works	1989	2186536
W	116m SW	Sewage Works	1974	2186536
Y	117m S	Gravel Pit	1989	2186464
Y	117m S	Gravel Pit	1974	2254681
X	119m NE	Unspecified Tanks	1959	2143894
Z	125m NE	Unspecified Pits	1912	2141673
A	130m NE	Disused Chalk Pit	1949	2262773
A	130m NE	Disused Chalk Pit	1934	2186628
6	132m NE	Unspecified Pit	1959	2124963
K	132m SE	Unspecified Wharf	1938	2263540
W	138m SW	Unspecified Tank	1989	2292016
W	138m SW	Unspecified Tank	1974	2292016



ID	Location	Land Use	Date	Group ID
W	138m SW	Unspecified Tanks	1959	2232223
W	141m SW	Unspecified Tanks	1949	2232223
W	142m SW	Unspecified Tanks	1989	2202380
W	142m SW	Unspecified Tanks	1974	2202380
W	142m SW	Unspecified Tanks	1959	2192534
W	143m SW	Unspecified Tanks	1949	2253738
7	148m S	Gravel Pit	1974	2176372
A	148m NE	Tramway Sidings	1938	2220167
A	149m NE	Tramway Sidings	1949	2208316
A	149m NE	Tramway Sidings	1934	2261466
W	160m SW	Unspecified Tanks	1989	2204850
W	160m SW	Unspecified Tanks	1974	2204850
W	160m SW	Unspecified Tanks	1959	2284783
W	161m SW	Unspecified Tanks	1949	2221240
W	161m SW	Unspecified Tanks	1989	2211869
W	161m SW	Unspecified Tanks	1974	2211869
W	161m SW	Unspecified Tanks	1959	2227613
W	163m SW	Unspecified Tanks	1949	2242308
A	165m NE	Unspecified Kilns	1882	2234630
A	166m NE	Unspecified Kilns	1865	2234630
A	167m NE	Unspecified Heap	1949	2237484
A	167m NE	Unspecified Heap	1934	2270340
A	172m NE	Unspecified Heap	1959	2191061
A	180m NE	Unspecified Ground Workings	1897	2272138
8	182m SE	Unspecified Wharf	1959	2183905
AB	199m SE	Gravel Pit	1987	2189195
AB	199m SE	Gravel Pit	1973	2189195
V	205m NE	Unspecified Heap	1959	2136331



ID	Location	Land Use	Date	Group ID
AC	209m E	Unspecified Ground Workings	1959	2178616
AC	211m E	Disused Copper Workings	1987	2128360
AC	211m E	Refuse Heap	1973	2272491
AC	213m E	Unspecified Ground Workings	1969	2188141
9	217m S	Refuse Heap	1959	2158698
AD	220m S	Unspecified Laboratories	1989	2230428
AD	220m S	Unspecified Laboratories	1974	2230428
A	225m NE	Tramway Sidings	1938	2151135
Z	228m E	Unspecified Pit	1900	2124964
A	237m NE	Railway Sidings	1959	2128643
AE	239m NE	Unspecified Ground Workings	1949	2226903
AE	239m NE	Unspecified Ground Workings	1934	2261039
AF	242m NE	Unspecified Tank	1912	2154583
AG	243m SW	Cuttings	1949	2173153
AG	243m SW	Cuttings	1938	2173153
AG	244m SW	Cuttings	1989	2203821
AG	244m SW	Cuttings	1974	2203821
AG	244m SW	Cuttings	1959	2171081
10	247m S	Refuse Heap	1959	2158700
Z	252m E	Unspecified Ground Workings	1898	2213509
Z	254m E	Unspecified Ground Workings	1895	2208932
AE	282m NE	Unspecified Ground Workings	1897	2256723
AH	284m N	Unspecified Ground Workings	1938	2194679
AH	290m N	Unspecified Pit	1960	2124962
AH	292m N	Unspecified Ground Workings	1970	2294198
12	293m SE	Gravel Pit	1912	2224025
AC	296m NE	Unspecified Ground Workings	1949	2282065
AC	296m NE	Unspecified Ground Workings	1934	2189685



ID	Location	Land Use	Date	Group ID
AI	297m N	Unspecified Heap	1938	2136329
AI	303m N	Unspecified Pit	1960	2250280
AI	305m N	Unspecified Pit	1970	2169856
13	305m SE	Gravel Pit	1973	2254681
AI	307m N	Unspecified Pit	1949	2178600
AI	307m N	Unspecified Pit	1934	2266280
AI	307m N	Unspecified Pit	1912	2266280
AJ	311m SW	Unspecified Pit	1989	2220308
AJ	311m SW	Unspecified Pit	1974	2220308
AI	312m N	Unspecified Pit	1882	2250280
AI	313m N	Unspecified Pit	1865	2291490
AE	319m NE	Unspecified Ground Workings	1969	2188141
AD	324m S	Unspecified Heap	1974	2217530
14	333m S	Unspecified Laboratories	1949	2201533
AD	334m S	Unspecified Heap	1959	2204605
AD	334m S	Unspecified Heap	1949	2204605
AL	339m N	Iron Foundry	1974	2240059
AL	339m N	Iron Foundry	1987	2285937
AD	341m S	Unspecified Heap	1938	2228703
AM	342m W	Electric Substation	1989	2175317
AM	342m W	Electric Substation	1974	2175317
15	347m S	Fishery	1898	2211215
16	348m SE	Unspecified Pit	1865	2124954
AN	353m E	Unspecified Pit	1882	2279800
AN	358m E	Unspecified Pit	1865	2279800
AO	364m S	Boat House	1882	2213047
AP	368m S	Fishery	1882	2270339
AO	370m S	Boat House	1949	2207944



ID	Location	Land Use	Date	Group ID
AO	370m S	Boat House	1912	2186170
17	372m W	Unspecified Ground Workings	1882	2133440
AO	372m S	Boat House	1897	2253939
AO	372m S	Boat House	1895	2184517
19	398m S	Fishery	1898	2291696
AQ	399m S	Fishery	1897	2267305
AS	402m E	Grave Yard	1882	2264383
AS	404m E	Grave Yard	1865	2264383
20	411m S	Boat House	1938	2146181
AU	423m N	Unspecified Ground Workings	1938	2267391
AU	428m N	Unspecified Ground Workings	1970	2180603
AU	429m N	Unspecified Pit	1960	2279024
AU	429m N	Unspecified Pit	1949	2266093
AU	429m N	Unspecified Pit	1934	2288028
AP	441m S	Fishery	1897	2230230
AV	447m N	Unspecified Heap	1938	2136330
AW	448m S	Unspecified Commercial/Industrial	1989	2232327
AV	451m N	Unspecified Pit	1960	2295163
AV	453m N	Unspecified Pit	1970	2295163
AW	454m S	Unspecified Commercial/Industrial	1949	2222302
AV	458m N	Unspecified Pit	1949	2245843
AV	458m N	Unspecified Pit	1934	2214127
AV	458m N	Unspecified Pit	1912	2214127
AV	459m N	Unspecified Pit	1865	2263556
AV	461m N	Unspecified Pit	1882	2205303
AX	464m E	Unspecified Pit	1865	2292218
AW	472m S	Unspecified Commercial/Industrial	1974	2232327
AY	475m NW	Unspecified Disused Mill	1938	2172970



ID	Location	Land Use	Date	Group ID
AY	477m NW	Unspecified Mill	1926	2286873
AY	477m NW	Unspecified Mill	1897	2223870
AW	479m S	Unspecified Commercial/Industrial	1959	2222302
AY	481m NW	Unspecified Disused Mill	1960	2198865
AX	481m E	Unspecified Pit	1938	2174997
AY	483m NW	Disused Mill	1970	2141995
AY	483m NW	Unspecified Disused Mill	1949	2225850
AY	483m NW	Unspecified Disused Mill	1934	2215172
AX	485m E	Unspecified Pit	1969	2282462
AX	488m E	Unspecified Ground Workings	1949	2180596
AX	488m E	Unspecified Ground Workings	1934	2239279
AX	488m E	Unspecified Ground Workings	1912	2239279
21	490m N	Unspecified Works	1974	2159694
AY	499m NW	Unspecified Mill	1898	2293968

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

34

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
M	53m SE	Tanks	1971	376246
S	72m SE	Tanks	1971	376247
U	90m NW	Unspecified Tank	1971	399435
U	91m NW	Unspecified Tank	1989	399435
S	92m SE	Unspecified Tank	1971	364005
X	109m NE	Tanks	1934	376244



ID	Location	Land Use	Date	Group ID
A	112m NE	Tanks	1934	376245
W	118m SW	Tanks	1971	409701
W	118m SW	Tanks	1987	409701
W	135m SW	Tanks	1971	384474
W	135m SW	Tanks	1987	384474
W	143m SW	Tanks	1987	376239
W	160m SW	Tanks	1971	383860
W	161m SW	Tanks	1987	383860
W	168m SW	Tanks	1971	391476
W	168m SW	Tanks	1989	398973
W	181m SW	Tanks	1971	376240
A	197m NE	Unspecified Tank	1899	385586
A	201m NE	Unspecified Tank	1896	385586
A	204m NE	Unspecified Tank	1899	385586
AF	244m NE	Unspecified Tank	1914	364018
11	272m SE	Unspecified Tank	1971	364004
AD	349m S	Unspecified Tank	1971	399615
AD	349m S	Unspecified Tank	1989	392962
AD	351m S	Unspecified Tank	1992	398851
AO	375m S	Unspecified Tank	1899	390730
AO	377m S	Unspecified Tank	1877	390730
AP	386m S	Unspecified Tank	1877	364003
18	389m NE	Unspecified Tank	1866	364019
AQ	425m S	Unspecified Tank	1899	364001
AZ	485m S	Tanks	1992	396784
AZ	485m S	Tanks	1989	396784
22	496m S	Unspecified Tank	1971	363998
23	497m S	Unspecified Tank	1971	364002

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

26

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
N	57m E	Electricity Substation	1987	284489
N	59m E	Electricity Substation	1992	264776
N	59m E	Electricity Substation	1992	264776
N	61m E	Electricity Substation	1971	284489
T	87m S	Electricity Substation	1971	252063
T	88m S	Electricity Substation	1989	254886
T	91m S	Electricity Substation	1992	252793
AA	152m SE	Electricity Substation	1982	262860
AA	152m SE	Electricity Substation	1987	262860
AA	152m SE	Electricity Substation	1984	262860
AA	153m SE	Electricity Substation	1971	262860
AK	334m E	Electricity Substation	1982	264017
AK	334m E	Electricity Substation	1987	264017
AK	334m E	Electricity Substation	1984	264017
AK	335m E	Electricity Substation	1971	275078
AM	346m W	Electricity Substation	1971	289345
AM	349m W	Electricity Substation	1992	289345
AM	349m W	Electricity Substation	1992	289345
AM	349m W	Electricity Substation	1989	289345
AR	399m W	Electricity Substation	1971	266547
AR	402m W	Electricity Substation	1992	287685
AR	402m W	Electricity Substation	1992	287685
AR	402m W	Electricity Substation	1989	277695



ID	Location	Land Use	Date	Group ID
AT	408m SE	Electricity Substation	1989	275121
AT	409m SE	Electricity Substation	1971	275121
AT	415m SE	Electricity Substation	1992	244330

This data is sourced from Ordnance Survey / Groundsure.

2.4 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. 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

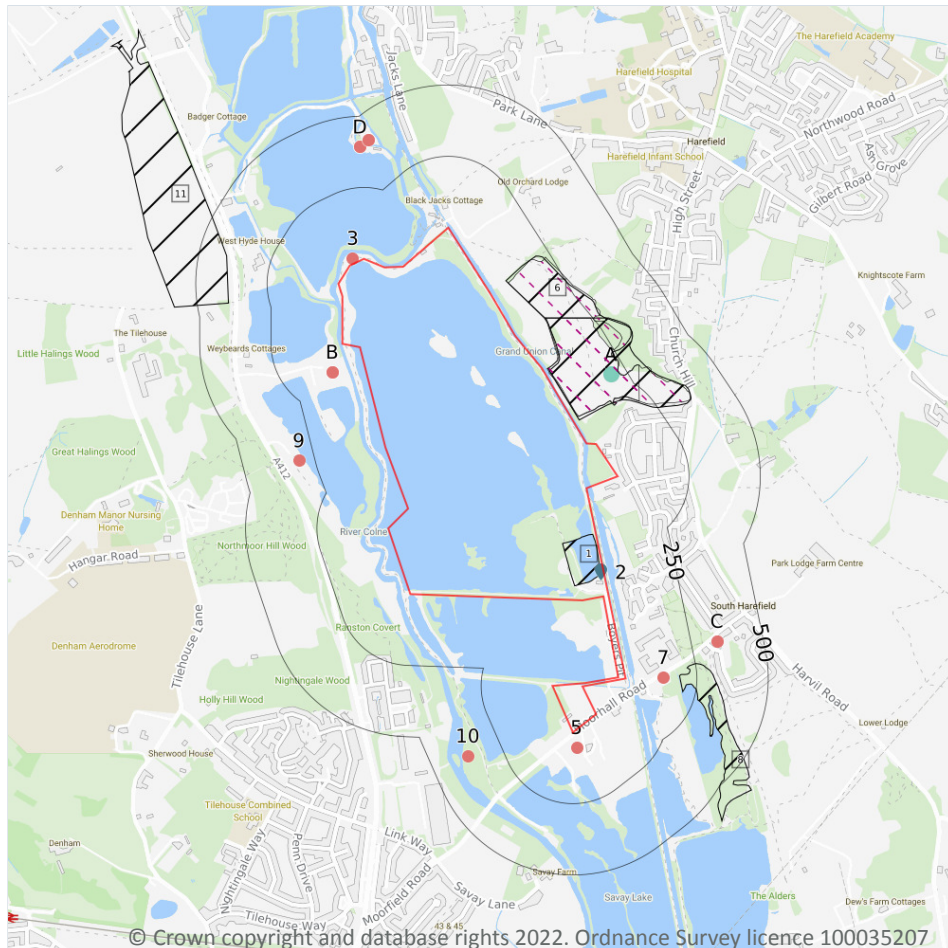
0

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)
- Historical landfill (LA/OS)
- Licensed waste sites
- 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 35**

ID	Location	Address	BGS Number	Risk	Waste Type
A	195m NE	Church Hill Tip, London SE1	2338	Risk to major and minor aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	3
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Site address	Source	Data type
A	14m NE	Refuse Tip	1987 mapping	Polygon
A	17m NE	Refuse Tip	1971 mapping	Polygon
6	73m NE	Refuse Tip	1967 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	4
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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 35**

ID	Location	Details		
1	On site	Site Address: Broadwater Plant Site, Broadwater Plant Site, Near Denham, Hillingdon, Middlesex Licence Holder Address: Po Box 7388, Syston, Leicester, Leicestershire	Waste Licence: Yes Site Reference: DL464, 8HI067, HIL076 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: TE1/L/LAF001 Licence Issue: 09/06/1993 Licence Surrender: 29/06/2004	Operator: Lafarge Aggregates Limited Licence Holder: Lafarge Aggregates Limited First Recorded - Last Recorded: -

ID	Location	Details		
4	18m NE	Site Address: Church Hill, Harefield, Hillingdon, London Licence Holder Address: -	Waste Licence: - Site Reference: 8HI010, HIL010 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: W W Drinkwater First Recorded 31/12/1954 Last Recorded: 31/12/1974
8	189m E	Site Address: Harefield Marina, South Harefield, Hillingdon, London Licence Holder Address: -	Waste Licence: - Site Reference: 8HI033, HIL039 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Hoveringham's Limited and S W Boyer First Recorded 31/12/1947 Last Recorded: -
11	387m W	Site Address: Pynesfield Inert Landfill, Tilehouse Lane, Maple Cross, Rickmansworth, Hertfordshire Licence Holder Address: Foster Street, Harlow Common, Harlow, Essex	Waste Licence: Yes Site Reference: - Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 22/02/2018 Licence Surrender: 01/04/2021	Operator: Ingrebourne Valley Limited Licence Holder: Ingrebourne Valley Limited First Recorded - 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

1

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

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
2	On site	Site Name: Broadwater Plant Site, Hillingdon Site Address: Lafarge Redland Aggregates Ltd, Broadwater Plant Site, nr Denham, Hillingdon, Middlesex Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAF001 EPR reference: EA/EPR/WP3496NY/S002 Operator: Lafarge Aggregates Ltd Waste Management licence No: 80056 Annual Tonnage: 150000	Issue Date: 09/06/1993 Effective Date: - Modified: - Surrendered Date: Jun 29 2004 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	16
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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 35**

ID	Location	Site	Reference	Category	Sub-Category	Description
3	17m NW	-	WEX026229	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
5	57m S	Affinity Water Ltd, Blackford Pumping Station Moorhall Road UXBRIDGE Middlesex UB9 6PE	EPR/BE5242G M/A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
B	108m S	NORTH ORBITAL ROAD, DENHAM, UXBRIDGE, UB9 5HE	WEX156047	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	108m S	DENHAM WATERSKI CLUB, NORTH ORBITAL ROAD, DENHAM, UXBRIDGE, UB9 5HE	WEX110218	Treating waste exemption	Not on a farm	Screening and blending of waste
B	108m S	DENHAM WATERSKI CLUB, NORTH ORBITAL ROAD, DENHAM, UXBRIDGE, UB9 5HE	WEX110218	Using waste exemption	Not on a farm	Use of waste in construction

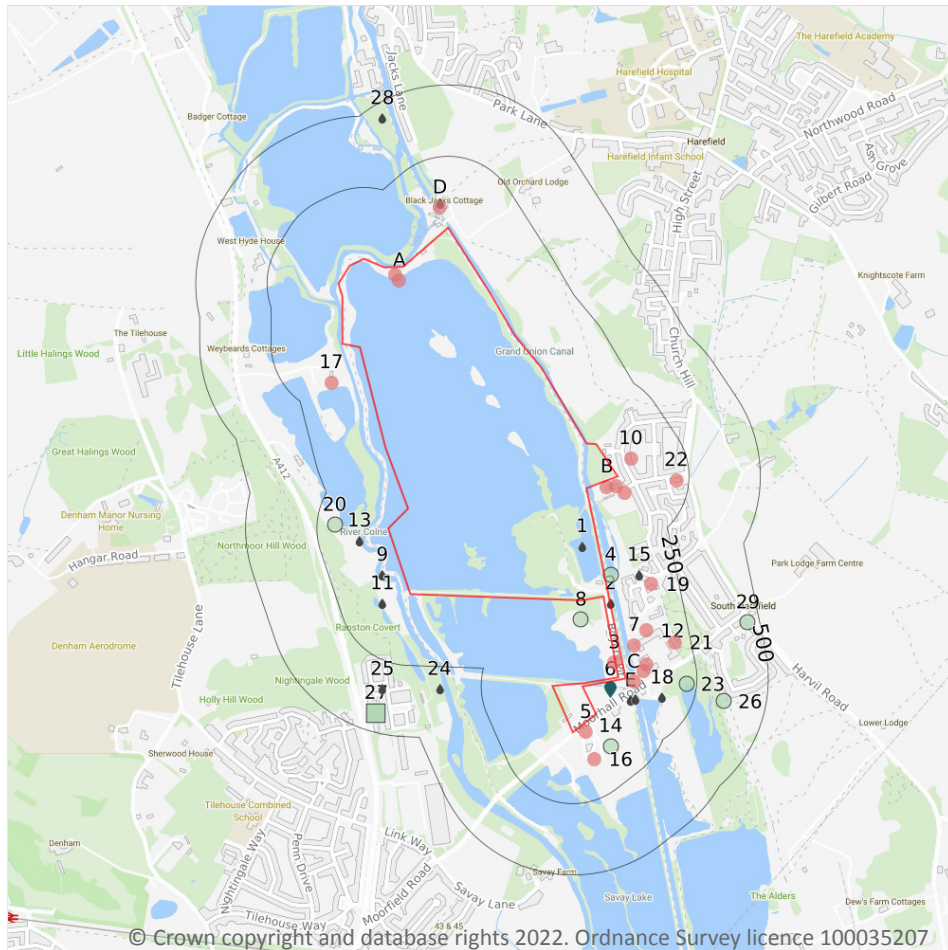


ID	Location	Site	Reference	Category	Sub-Category	Description
7	132m E	Harefield Marina, Moorhall Road, Harefield, UB9 6PD	WEX156361	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
9	307m W	Denham Waterski Club, North Orbital Road (A412), Denham, UB9 5HE	WEX155664	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	339m E	Affinity Water Ltd, Blackford Pumping Station, Moorhall Road, Harefield, UB9 6PE	WEX108735	Disposing of waste exemption	Not on a farm	Burning waste in the open
C	340m E	Pier 20, Moorhall Farm, Moorhall Road, Harefield, UB9 6PE	WEX156365	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
10	372m SW	-	WEX165343	Using waste exemption	Not on a Farm	Spreading of plant matter to confer benefit
D	390m N	OLD UXBRIDGE ROAD, WEST HYDE, RICKMANSWORTH, WD3 9YB	WEX300803	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
D	390m N	OLD UXBRIDGE ROAD, WEST HYDE, RICKMANSWORTH, WD3 9YB	WEX300803	Using waste exemption	Not on a Farm	Use of waste in construction
D	390m N	OLD UXBRIDGE ROAD, WEST HYDE, RICKMANSWORTH, WD3 9YB	WEX163694	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
D	390m N	OLD UXBRIDGE ROAD, WEST HYDE, RICKMANSWORTH, WD3 9YB	WEX163694	Using waste exemption	Not on a Farm	Use of waste in construction
D	414m NW	-	WEX152642	Using waste exemption	Not on a farm	Use of waste in construction
D	414m NW	-	WEX152642	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

19

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Company	Address	Activity	Category
A	On site	Landing Stages	Greater London, UB9	Moorings and Unloading Facilities	Water
A	On site	Slipway	Greater London, UB9	Moorings and Unloading Facilities	Water



ID	Location	Company	Address	Activity	Category
3	4m W	Harleyford Aggregates Ltd	Harefield Quarry, Moorhall Road, Harefield, Uxbridge, Greater London, UB9 6PD	Unspecified Quarries Or Mines	Extractive Industries
B	21m S	Mayling Transport Ltd	Broadwater Lane, Harefield, Greater London, UB9 6AH	Distribution and Haulage	Transport, Storage and Delivery
5	27m SE	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities
C	31m SE	Mooring Posts	Greater London, UB9	Moorings and Unloading Facilities	Water
B	32m S	M E B Equipment Ltd	Broadwater Lane, Harefield, Greater London, UB9 6AH	Lifting and Handling Equipment	Industrial Products
7	53m E	Widewater Business Centre	Greater London, UB9	Business Parks and Industrial Estates	Industrial Features
B	62m S	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities
C	65m E	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities
10	73m NE	The Careavanman	63, St Mary's Road, Harefield, Greater London, UB9 6AE	New Vehicles	Motoring
D	76m NW	Mooring Posts	Greater London, UB9	Moorings and Unloading Facilities	Water
C	80m E	Matrox Vite Ltd	Chaplin House, Moorhall Road, Harefield, Greater London, UB9 6NS	Electrical Components	Industrial Products
12	105m E	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities
16	120m SE	Pumping Station	Greater London, UB9	Water Pumping Stations	Industrial Features
17	128m W	Pumping Station	Buckinghamshire, UB9	Water Pumping Stations	Industrial Features
19	155m E	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities
21	196m E	Electricity Sub Station	Greater London, UB9	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
22	206m E	Cabling Solutions Ltd	7, Sedley Grove, Harefield, Greater London, UB9 6JB	Electrical and Electronic Engineers	Engineering Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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	0
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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.

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

0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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.

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 40**

ID	Location	Address	Details	
6	27m S	Rmc	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	16
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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 40**

ID	Location	Address	Details	
1	On site	MOORHALL ROAD, HAREFIELD, MIDDLESEX, MOORHALL ROAD HAREFIELD MIDDLE, SEX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.0180 Permit Version: 1 Receiving Water: HAREFIELD LAKE	Status: TRANSFERRED FROM COPA 1974 Issue date: 18/07/1985 Effective Date: 18/07/1985 Revocation Date: -
2	1m E	CLAY MIX VAC OVEN, CERAMICSLIP HSE, CLAY MIX VAC OVEN CERAMICSLIP H, SE FACTORY HAREFIELD MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTRC.1141 Permit Version: 1 Receiving Water: TRIB OF NEWYEARS GREENBOURNE	Status: REVOKED - UNSPECIFIED Issue date: 08/12/1969 Effective Date: 08/12/1969 Revocation Date: 06/03/1991
9	71m W	RANK LABS & RANK XEROX LTD, NORTH O, RANK LABS & RANK XEROX LTD NORT, H ORBITAL ROAD DENHAM LONDON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTRC.1081 Permit Version: 1 Receiving Water: COLNE	Status: REVOKED - UNSPECIFIED Issue date: 11/03/1969 Effective Date: 11/03/1969 Revocation Date: 14/08/1987



ID	Location	Address	Details	
E	79m S	THE HORSE & BARGE P.H, MOORHALL RO, THE HORSE & BARGE P.H. MOORHALL, ROAD HAREFIELD UXBRIDGE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.0323 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: TRANSFERRED FROM COPA 1974 Issue date: 28/08/1985 Effective Date: 28/08/1985 Revocation Date: 05/05/1986
E	79m S	THE HORSE & BARGE P.H, MOORHALL RO, THE HORSE & BARGE P.H. MOORHALL, ROAD HAREFIELD UXBRIDGE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.0323 Permit Version: 2 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 28/08/1985 Effective Date: 06/05/1986 Revocation Date: 12/01/1996
E	81m SE	THE BEAR ON THE BARGE, MOORHALL ROAD, HAREFIELD, UXBRIDGE, UB9 6PE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRPB3494NX Permit Version: 1 Receiving Water: GRAND UNION CANAL	Status: NEW ISSUED UNDER EPR 2010 Issue date: 16/04/2020 Effective Date: 16/04/2020 Revocation Date: -
E	81m SE	THE HORSE AND BARGE PUBLIC HOUSE, MOORHALL ROAD, UXBRIDGE, MIDDLESEX, UB9 6PE	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: CANM.1095 Permit Version: 1 Receiving Water: TO THE GRAND UNION CANAL	Status: REVOKED - UNSPECIFIED Issue date: 21/04/2006 Effective Date: 18/04/2006 Revocation Date: 14/04/2013
D	89m N	Black Jack Cottage, Harefield, Black Jack Cottage, Harefield	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.0462 Permit Version: 1 Receiving Water: GRAND UNION CANAL	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
D	89m N	Black Jack Cottage, Harefield, Black Jack Cottage, Harefield	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.0462 Permit Version: 2 Receiving Water: Grand Union Canal	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 13/10/2015
11	103m W	BROADWATER QUARRY, MOORHALL ROAD, H, BROADWATER QUARRY MOORHALL ROAD, HAREFIELD MIDDX	Effluent Type: TRADE DISCHARGES - MINERAL WORKINGS Permit Number: CTRC.1542 Permit Version: 1 Receiving Water: COLNE	Status: REVOKED - UNSPECIFIED Issue date: 26/10/1977 Effective Date: 26/10/1977 Revocation Date: 19/11/1992



ID	Location	Address	Details	
13	109m W	DENHAM WATER SKI CLUB, NORTH ORBITAL ROAD, DENHAM GREEN, BUCKS, UB9 5HE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.3624 Permit Version: 1 Receiving Water: THE RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 20/07/1999 Effective Date: 19/04/1999 Revocation Date: -
15	119m E	DRY PRESS VACUUM OVEN, CERAMIC SLIP, DRY PRESS VACUUM OVEN CERAMIC S, LIP HSE FACTORY HAREFIELD MID, DX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.1140 Permit Version: 1 Receiving Water: TRIB OF NEWYEARS GREENBOURNE	Status: REVOKED - UNSPECIFIED Issue date: 08/12/1969 Effective Date: 08/12/1969 Revocation Date: 06/03/1991
18	144m SE	HAREFIELD MARINA, MOORHALL ROAD, HA, HAREFIELD MARINA MOORHALL ROAD, HAREFIELD MIDDLESEX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.3058 Permit Version: 1 Receiving Water: ALLUVIUM ANDMADE GROUND	Status: TRANSFERRED FROM COPA 1974 Issue date: 26/01/1989 Effective Date: 26/01/1989 Revocation Date: -
24	328m S	RANK FILM LABORATORIES, DENHAM, UXB, RANK FILM LABORATORIES DENHAM, UXBRIDGE MIDDX	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.2040 Permit Version: 1 Receiving Water: COLNE	Status: REVOKED UNDER EPR 2010 Issue date: 07/10/1983 Effective Date: 07/10/1983 Revocation Date: 04/06/2021
25	347m S	NORTH ORBITAL ROAD, DENHAM, UXBRIDG, NORTH ORBITAL ROAD DENHAM UXBR, IDGE MIDDX	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CTCU.0609 Permit Version: 1 Receiving Water: CHALK STRATA	Status: TRANSFERRED FROM WRA 1963 Issue date: 10/07/1972 Effective Date: 10/07/1972 Revocation Date: -
28	447m NW	OFF BLACK JACK LANE, HAREFIELD, HER, OFF BLACK JACK LANE HAREFIELD, HERTS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1364 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 23/12/1986 Effective Date: 23/12/1986 Revocation Date: 22/05/1991

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**0**

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.

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 40**

ID	Location	Name	Status	Receiving Water	Authorised Substances
27	434m S	Deluxe Labs, Denham Media Park, Denham, Uxbridge	Not Active	Guc	Silver, Phenol

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

7

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 40**

ID	Location	Details	
4	21m E	Incident Date: 08/07/2003 Incident Identification: 171985 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
8	68m S	Incident Date: 19/11/2010 Incident Identification: 839529 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	119m SE	Incident Date: 18/03/2003 Incident Identification: 143862 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
20	188m W	Incident Date: 29/10/2001 Incident Identification: 39562 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
23	214m E	Incident Date: 03/11/2001 Incident Identification: 40928 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
26	353m E	Incident Date: 04/08/2003 Incident Identification: 179000 Pollutant: Specific Waste Materials Pollutant Description: Other Non-Metal Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
29	459m E	Incident Date: 21/07/2003 Incident Identification: 175637 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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.

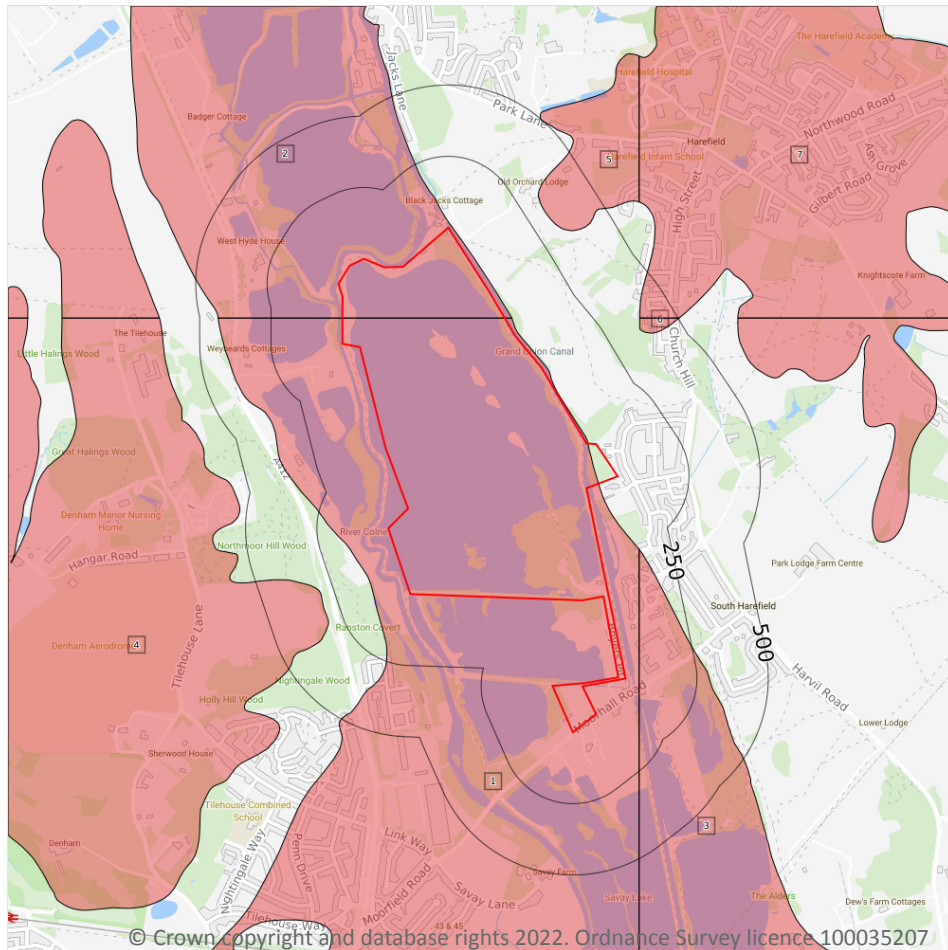
4.21 Pollution inventory radioactive waste

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



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

5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 50**

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
2	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

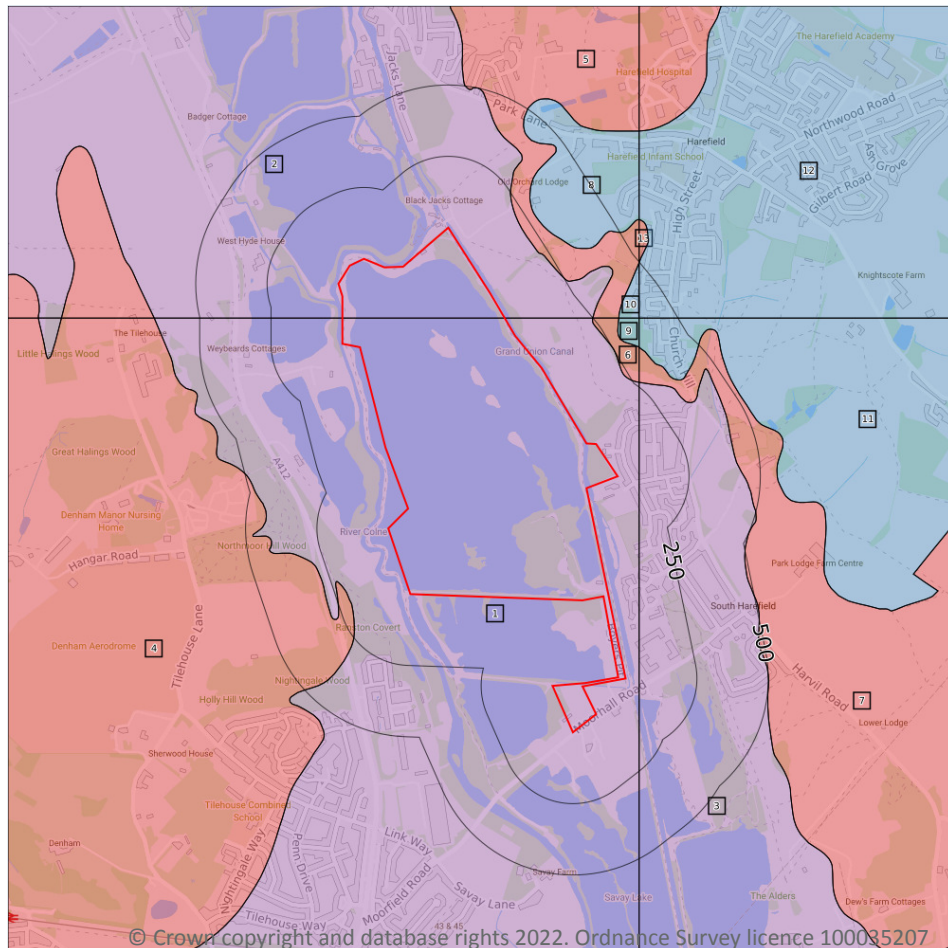


ID	Location	Designation	Description
3	48m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	297m W	Secondary 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
5	316m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	366m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	385m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

13

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 52**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

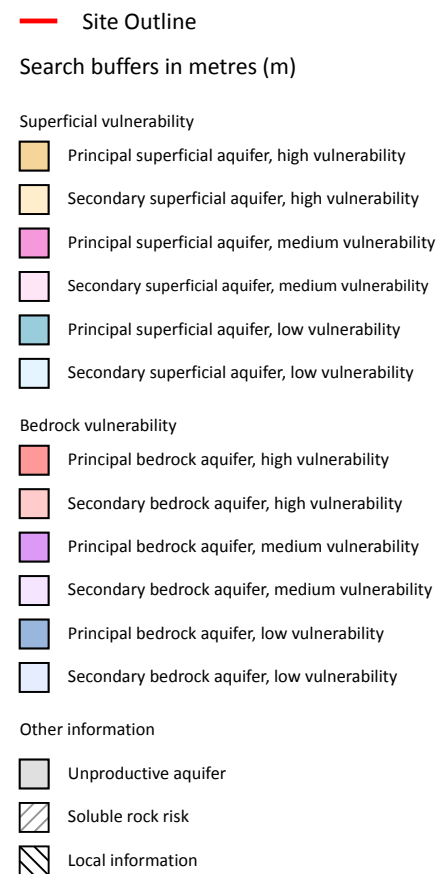
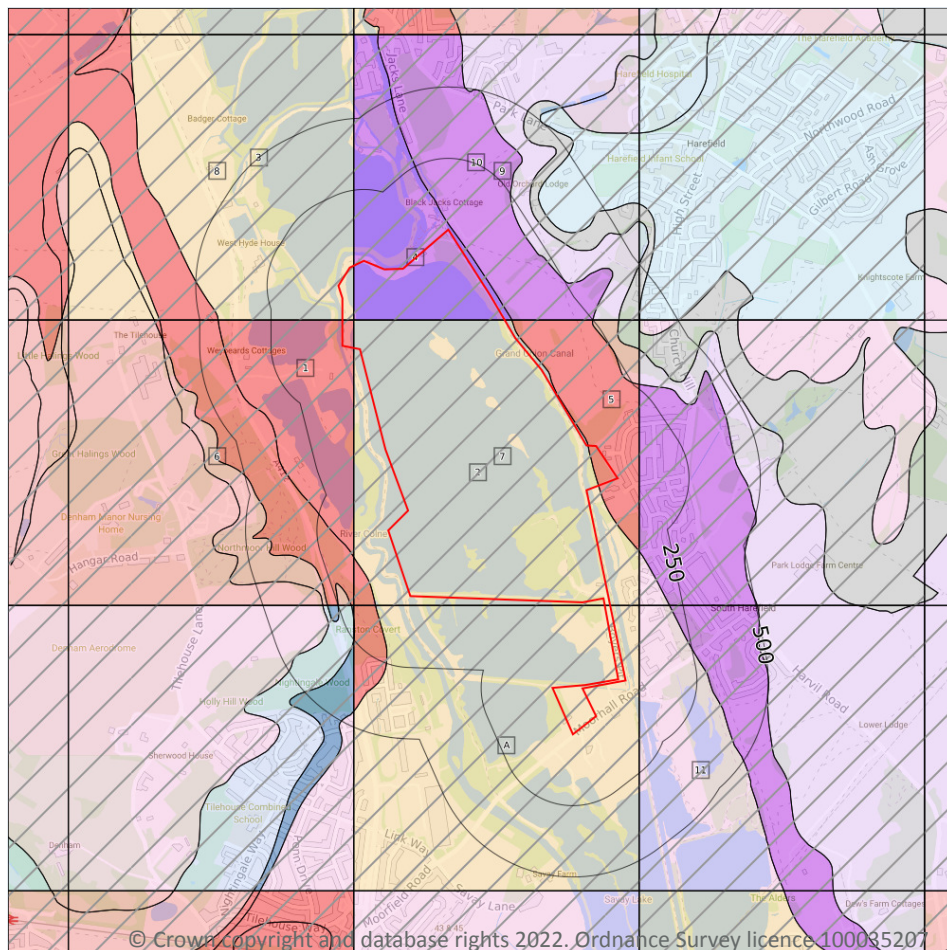


ID	Location	Designation	Description
3	48m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	206m W	Secondary 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
5	215m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	235m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	264m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	280m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	289m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	322m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	331m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	383m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	498m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

8

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 54**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
10	11m N	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
11	47m SE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Principal 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	5
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
6	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	1.0%
7	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	2.0%
8	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	3.0%
9	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	1.0%



ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	2.0%

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

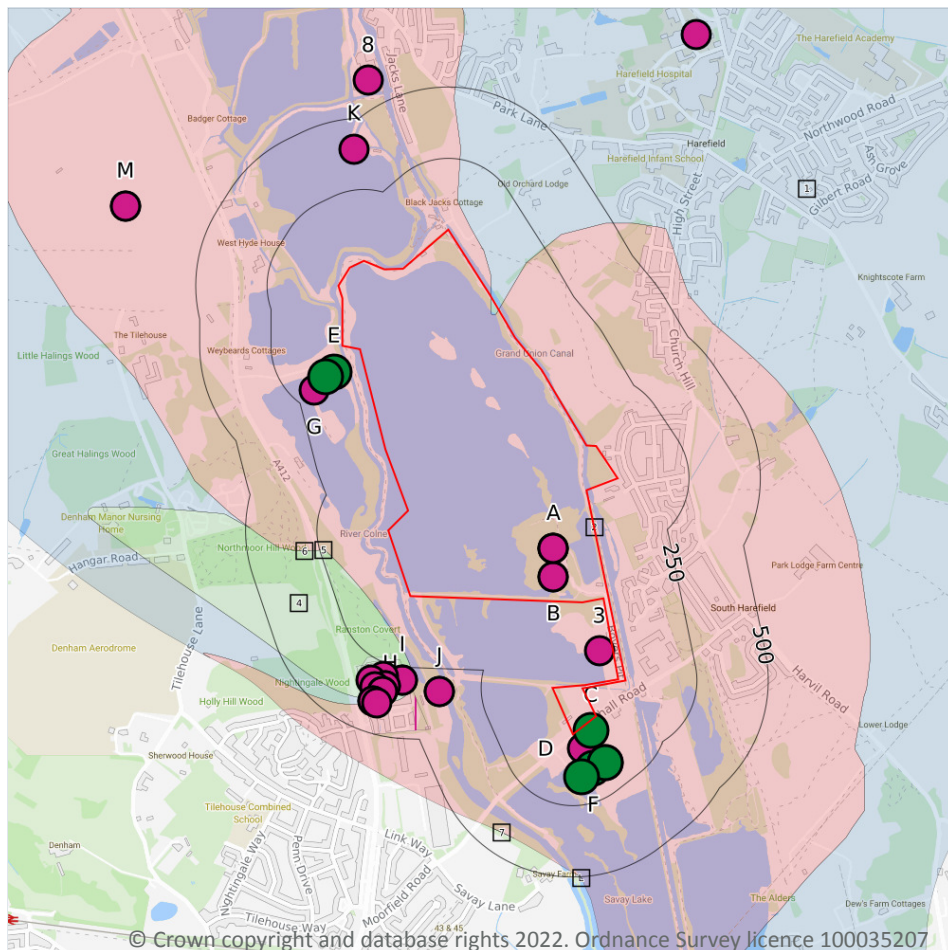
5.5 Groundwater vulnerability- local information

Records on site	0
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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

51

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 58**

ID	Location	Details	
A	On site	Status: Historical Licence No: 28/39/28/0052 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: WET GRAVEL PIT 'B' AT BROADWATER, HAREFIELD MOOR Data Type: Point Name: LAFARGE REDLAND AGGREGATES LIMITED Easting: 504700 Northing: 189200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
A	On site	Status: Historical Licence No: 28/39/28/0052 Details: Process water Direct Source: THAMES GROUNDWATER Point: WET GRAVEL PIT 'B' AT BROADWATER, HAREFIELD MOOR Data Type: Point Name: LAFARGE AGGREGATES LIMITED Easting: 504700 Northing: 189200	Annual Volume (m³): 462328 Max Daily Volume (m³): 1541.1 Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/01/2001 Version End Date: -
A	On site	Status: Active Licence No: 28/39/28/0052 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BROADWATER, HAREFIELD MOOR-WET GRAVEL PIT 'B' Data Type: Point Name: Tarmac Aggregates Limited Easting: 504700 Northing: 189200	Annual Volume (m³): 462,328 Max Daily Volume (m³): 1,541.10 Original Application No: NPS/WR/020814 Original Start Date: 14/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 26/10/2015 Version End Date: -
B	On site	Status: Historical Licence No: 28/39/28/0052 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: WET GRAVEL PIT 'A' AT BROADWATER, HAREFIELD MOOR Data Type: Point Name: LAFARGE AGGREGATES LIMITED Easting: 504700 Northing: 189100	Annual Volume (m³): 462328 Max Daily Volume (m³): 1541.1 Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/01/2001 Version End Date: -



ID	Location	Details	
B	On site	Status: Active Licence No: 28/39/28/0052 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: BROADWATER, HAREFIELD MOOR-WET GRAVEL PIT 'A' Data Type: Point Name: Tarmac Aggregates Limited Easting: 504700 Northing: 189100	Annual Volume (m³): 462,328 Max Daily Volume (m³): 1,541.10 Original Application No: NPS/WR/020814 Original Start Date: 14/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 26/10/2015 Version End Date: -
C	26m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I3' Data Type: Point Name: Affinity Water Limited Easting: 504830 Northing: 188563	Annual Volume (m³): 32,120,000 Max Daily Volume (m³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -
C	26m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I3' Data Type: Point Name: Affinity Water Limited Easting: 504830 Northing: 188563	Annual Volume (m³): 32,120,000 Max Daily Volume (m³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
3	47m W	Status: Active Licence No: 28/39/28/0037 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: WET GRAVEL PIT AT HAREFIELD MOOR Data Type: Point Name: HARLEYFORD AGGREGATES LIMITED Easting: 504860 Northing: 188840	Annual Volume (m³): 166,420 Max Daily Volume (m³): 582 Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/10/1999 Version End Date: -
D	58m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'L' Data Type: Point Name: Affinity Water Limited Easting: 504800 Northing: 188500	Annual Volume (m³): 32,120,000 Max Daily Volume (m³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -



ID	Location	Details	
E	92m S	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H1' Data Type: Point Name: Affinity Water Limited Easting: 503930 Northing: 189822	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
E	95m S	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H2' Data Type: Point Name: Affinity Water Limited Easting: 503930 Northing: 189819	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
E	125m SW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503900 Northing: 189800	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
F	138m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I2' Data Type: Point Name: Affinity Water Limited Easting: 504839 Northing: 188430	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -
F	138m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I2' Data Type: Point Name: Affinity Water Limited Easting: 504839 Northing: 188430	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
F	147m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I1' Data Type: Point Name: Affinity Water Limited Easting: 504881 Northing: 188450	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -
F	147m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I1' Data Type: Point Name: Affinity Water Limited Easting: 504881 Northing: 188450	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
F	152m S	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I' Data Type: Point Name: Affinity Water Limited Easting: 504800 Northing: 188400	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
G	183m SW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H3' Data Type: Point Name: Affinity Water Limited Easting: 503861 Northing: 189756	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
H	224m S	Status: Active Licence No: 28/39/28/0101 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: DENHAM MEDIA PARK Data Type: Poly4 Name: Weston Homes PLC Easting: 504010 Northing: 188787	Annual Volume (m ³): 580,752 Max Daily Volume (m ³): 1,591 Original Application No: NPS/WR/022379 Original Start Date: 13/06/1966 Expiry Date: 31/03/2026 Issue No: 103 Version Start Date: 10/05/2016 Version End Date: -



ID	Location	Details	
I	294m S	Status: Historical Licence No: 28/39/28/0448 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: BOREHOLE D AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504170 Northing: 188740	Annual Volume (m ³): 580763 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1980 Expiry Date: - Issue No: 100 Version Start Date: 02/05/2000 Version End Date: -
I	294m S	Status: Historical Licence No: 28/39/28/0448 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: NORTH ORBITAL ROAD, DENHAM - BOREHOLE 'D' Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504170 Northing: 188740	Annual Volume (m ³): 580763 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1980 Expiry Date: - Issue No: 101 Version Start Date: 20/01/2009 Version End Date: -
H	295m S	Status: Active Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: DENHAM MEDIA PARK 'C' Data Type: Point Name: Weston Homes PLC Easting: 504103 Northing: 188753	Annual Volume (m ³): 580,752 Max Daily Volume (m ³): 1,591 Original Application No: NPS/WR/022379 Original Start Date: 13/06/1966 Expiry Date: 31/03/2026 Issue No: 103 Version Start Date: 10/05/2016 Version End Date: -
H	323m SW	Status: Historical Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: NORTH ORBITAL ROAD, DENHAM AT BOREHOLE 'B' Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504060 Northing: 188740	Annual Volume (m ³): 580752 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/01/2009 Version End Date: -



ID	Location	Details	
H	325m S	Status: Historical Licence No: 28/39/28/0448 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE C AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504110 Northing: 188720	Annual Volume (m ³): 580763 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1980 Expiry Date: - Issue No: 100 Version Start Date: 02/05/2000 Version End Date: -
H	325m S	Status: Historical Licence No: 28/39/28/0448 Details: Process Water Direct Source: THAMES GROUNDWATER Point: NORTH ORBITAL ROAD, DENHAM AT BOREHOLE 'C' Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504110 Northing: 188720	Annual Volume (m ³): 580763 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1980 Expiry Date: - Issue No: 101 Version Start Date: 20/01/2009 Version End Date: -
J	328m S	Status: Historical Licence No: 28/39/28/0468 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: ROUSSEL LABORATORIES LTD Easting: 504300 Northing: 188700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/06/1985 Expiry Date: - Issue No: 100 Version Start Date: 10/05/1988 Version End Date: -
J	328m S	Status: Historical Licence No: 28/39/28/0468 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: ROUSSEL LABORATORIES LTD Easting: 504300 Northing: 188700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/06/1985 Expiry Date: - Issue No: 100 Version Start Date: 10/05/1988 Version End Date: -
H	342m S	Status: Active Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: DENHAM MEDIA PARK 'B' Data Type: Point Name: Weston Homes PLC Easting: 504073 Northing: 188714	Annual Volume (m ³): 580,752 Max Daily Volume (m ³): 1,591 Original Application No: NPS/WR/022379 Original Start Date: 13/06/1966 Expiry Date: 31/03/2026 Issue No: 103 Version Start Date: 10/05/2016 Version End Date: -



ID	Location	Details	
H	347m S	Status: Historical Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504100 Northing: 188700	Annual Volume (m ³): 580752 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/05/2000 Version End Date: -
H	347m S	Status: Historical Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504100 Northing: 188700	Annual Volume (m ³): 580752 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/05/2000 Version End Date: -
H	390m S	Status: Historical Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: DENHAM MEDIA PARK Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504068 Northing: 188665	Annual Volume (m ³): 580752 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: 31/03/2026 Issue No: 102 Version Start Date: 31/01/2013 Version End Date: -
H	390m S	Status: Active Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: DENHAM MEDIA PARK 'A' Data Type: Point Name: Weston Homes PLC Easting: 504068 Northing: 188665	Annual Volume (m ³): 580,752 Max Daily Volume (m ³): 1,591 Original Application No: NPS/WR/022379 Original Start Date: 13/06/1966 Expiry Date: 31/03/2026 Issue No: 103 Version Start Date: 10/05/2016 Version End Date: -
H	391m S	Status: Historical Licence No: 28/39/28/0101 Details: Process Water Direct Source: THAMES GROUNDWATER Point: NORTH ORBITAL ROAD, DENHAM AT BOREHOLE 'A' Data Type: Point Name: DELUXE LABORATORIES LIMITED Easting: 504080 Northing: 188660	Annual Volume (m ³): 580752 Max Daily Volume (m ³): 1591 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/01/2009 Version End Date: -



ID	Location	Details	
K	394m N	Status: Historical Licence No: 28/39/28/0432 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT TROY LAKE, WEST HYDE, RICKMANSWORTH Data Type: Point Name: RICKMANSWORTH SAILING CLUB Easting: 504000 Northing: 190600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 30/03/1977 Version End Date: -
8	594m NW	Status: Historical Licence No: 28/39/28/0584 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: CLARE HOUSE, COPPERMILL LANE- BOREHOLE Data Type: Point Name: CLANCY PLANT HIRE LIMITED Easting: 504050 Northing: 190840	Annual Volume (m ³): 13505 Max Daily Volume (m ³): 37 Original Application No: - Original Start Date: 01/06/2004 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
M	797m W	Status: Historical Licence No: 28/39/28/0358 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT PYNESFIELD FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503200 Northing: 190400	Annual Volume (m ³): 19304 Max Daily Volume (m ³): 324 Original Application No: - Original Start Date: 08/01/1968 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1997 Version End Date: -
M	797m W	Status: Historical Licence No: 28/39/28/0358 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT PYNESFIELD FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503200 Northing: 190400	Annual Volume (m ³): 19304 Max Daily Volume (m ³): 324 Original Application No: - Original Start Date: 08/01/1968 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1997 Version End Date: -



ID	Location	Details	
-	1097m NE	Status: Active Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HAREFIELD HOSPITAL- BOREHOLE Data Type: Point Name: ROYAL BROMPTON AND HAREFIELD NHS TRUST Easting: 505100 Northing: 191100	Annual Volume (m ³): 60,000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 101 Version Start Date: 18/09/2006 Version End Date: -
O	1105m NE	Status: Historical Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT HAREFIELD HOSPITAL, HAREFIELD, MIDDLESEX Data Type: Point Name: HAREFIELD HOSPITAL NHS TRUST Easting: 505200 Northing: 191000	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1994 Version End Date: -
-	1271m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G3' Data Type: Point Name: Affinity Water Limited Easting: 503550 Northing: 191382	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1274m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G2' Data Type: Point Name: Affinity Water Limited Easting: 503548 Northing: 191385	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
-	1300m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G1' Data Type: Point Name: Affinity Water Limited Easting: 503610 Northing: 191436	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1307m NW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503500 Northing: 191400	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1534m SE	Status: Active Licence No: 28/39/28/0509 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: WET PIT AT HARVIL ROAD, SOUTH HAREFIELD Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 505500 Northing: 187200	Annual Volume (m ³): 272,760 Max Daily Volume (m ³): 1,092 Original Application No: NPS/WR/011609 Original Start Date: 09/03/1992 Expiry Date: - Issue No: 101 Version Start Date: 13/08/2012 Version End Date: -
-	1653m S	Status: Historical Licence No: 28/39/28/0275 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: WELL AT DENHAM COURT NURSERY, DENHAM, MIDDLESEX Data Type: Point Name: PALMER Easting: 504900 Northing: 186900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/02/1967 Version End Date: -
-	1653m S	Status: Historical Licence No: 28/39/28/0275 Details: Spray Irrigation - Spray Irrigation Definition Order Direct Source: THAMES GROUNDWATER Point: WELL AT DENHAM COURT NURSERY, DENHAM, MIDDLESEX Data Type: Point Name: PALMER Easting: 504900 Northing: 186900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/02/1967 Version End Date: -



ID	Location	Details	
-	1788m N	Status: Historical Licence No: 28/39/28/0116 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'E' AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 504200 Northing: 192100	Annual Volume (m ³): 145472 Max Daily Volume (m ³): 545.5 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
-	1788m N	Status: Active Licence No: 28/39/28/0116 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'E' AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: Thames Water Utilities Ltd Easting: 504200 Northing: 192100	Annual Volume (m ³): 145,472 Max Daily Volume (m ³): 545.50 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -
-	1807m N	Status: Historical Licence No: 28/39/28/0108 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WELL AT LYNSTERS FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503400 Northing: 191900	Annual Volume (m ³): 6228 Max Daily Volume (m ³): 22.73 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1969 Version End Date: -
-	1932m N	Status: Historical Licence No: 28/39/28/0113 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 503900 Northing: 192200	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 909.2 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -



ID	Location	Details	
-	1932m N	Status: Active Licence No: 28/39/28/0113 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: Thames Water Utilities Ltd Easting: 503900 Northing: 192200	Annual Volume (m ³): 181,840 Max Daily Volume (m ³): 909.20 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

2

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 58**

ID	Location	Details	
-	1156m S	Status: Active Licence No: 28/39/28/0491 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER COLNE AT DENHAM COURT, DENHAM, BUCKS Data Type: Point Name: BUCKINGHAMSHIRE GOLF CO LTD Easting: 504900 Northing: 187400	Annual Volume (m ³): 1,095,000 Max Daily Volume (m ³): 3,000 Original Application No: - Original Start Date: 06/12/1990 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1992 Version End Date: -
-	1763m S	Status: Active Licence No: 28/39/28/0491 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER COLNE AT DENHAM COURT GOLF CLUB, DENHAM Data Type: Point Name: BUCKINGHAMSHIRE GOLF CO LTD Easting: 505000 Northing: 186800	Annual Volume (m ³): 1,095,000 Max Daily Volume (m ³): 3,000 Original Application No: - Original Start Date: 06/12/1990 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1992 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

20

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 58**

ID	Location	Details	
C	26m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I3' Data Type: Point Name: Affinity Water Limited Easting: 504830 Northing: 188563	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -
C	26m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I3' Data Type: Point Name: Affinity Water Limited Easting: 504830 Northing: 188563	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
D	58m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'L' Data Type: Point Name: Affinity Water Limited Easting: 504800 Northing: 188500	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
E	92m S	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H1' Data Type: Point Name: Affinity Water Limited Easting: 503930 Northing: 189822	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
E	95m S	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H2' Data Type: Point Name: Affinity Water Limited Easting: 503930 Northing: 189819	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
E	125m SW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503900 Northing: 189800	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
F	138m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I2' Data Type: Point Name: Affinity Water Limited Easting: 504839 Northing: 188430	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -
F	138m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I2' Data Type: Point Name: Affinity Water Limited Easting: 504839 Northing: 188430	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
F	147m SE	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKMOOR PUMPING STATION 'I1' Data Type: Point Name: Affinity Water Limited Easting: 504881 Northing: 188450	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 104 Version Start Date: 28/03/2014 Version End Date: -

ID	Location	Details	
F	147m SE	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I1' Data Type: Point Name: Affinity Water Limited Easting: 504881 Northing: 188450	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
F	152m S	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BLACKFORD PUMPING STATION 'I' Data Type: Point Name: Affinity Water Limited Easting: 504800 Northing: 188400	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
G	183m SW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NORTHMOOR PUMPING STATION 'H3' Data Type: Point Name: Affinity Water Limited Easting: 503861 Northing: 189756	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
J	328m S	Status: Historical Licence No: 28/39/28/0468 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT NORTH ORBITAL ROAD, DENHAM Data Type: Point Name: ROUSSEL LABORATORIES LTD Easting: 504300 Northing: 188700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/06/1985 Expiry Date: - Issue No: 100 Version Start Date: 10/05/1988 Version End Date: -
K	394m N	Status: Historical Licence No: 28/39/28/0432 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT TROY LAKE, WEST HYDE, RICKMANSWORTH Data Type: Point Name: RICKMANSWORTH SAILING CLUB Easting: 504000 Northing: 190600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 30/03/1977 Version End Date: -



ID	Location	Details	
-	1097m NE	Status: Active Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HAREFIELD HOSPITAL- BOREHOLE Data Type: Point Name: ROYAL BROMPTON AND HAREFIELD NHS TRUST Easting: 505100 Northing: 191100	Annual Volume (m ³): 60,000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 101 Version Start Date: 18/09/2006 Version End Date: -
O	1105m NE	Status: Historical Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT HAREFIELD HOSPITAL, HAREFIELD, MIDDLESEX Data Type: Point Name: HAREFIELD HOSPITAL NHS TRUST Easting: 505200 Northing: 191000	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1994 Version End Date: -
-	1271m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G3' Data Type: Point Name: Affinity Water Limited Easting: 503550 Northing: 191382	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1274m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G2' Data Type: Point Name: Affinity Water Limited Easting: 503548 Northing: 191385	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
-	1300m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G1' Data Type: Point Name: Affinity Water Limited Easting: 503610 Northing: 191436	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146,152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1307m NW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503500 Northing: 191400	Annual Volume (m ³): 32,120,000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	8
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 58**

ID	Location	Type	Description
1	On site	2	Outer catchment
2	On site	1	Inner catchment
4	121m SW	3	Total catchment
5	230m W	2	Outer catchment
6	284m W	2	Outer catchment
7	419m SW	3	Total catchment
L	492m S	3	Total catchment
L	498m S	2	Outer catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

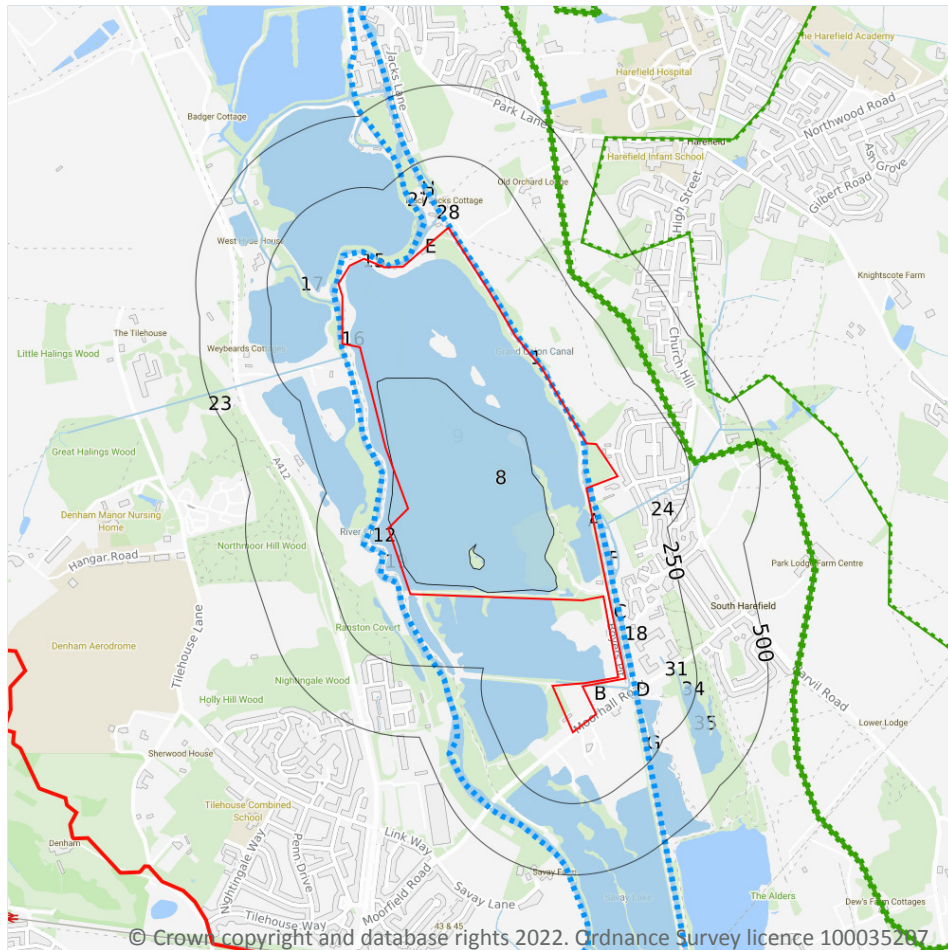
0

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

47

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 77**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal



ID	Location	Type of water feature	Ground level	Permanence	Name
9	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	4m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
16	6m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
A	14m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
17	17m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
18	21m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
E	21m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
E	21m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne



ID	Location	Type of water feature	Ground level	Permanence	Name
E	21m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
A	22m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	22m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
E	23m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
F	23m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
A	23m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
D	26m E	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
F	29m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
19	30m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
D	33m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	35m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	39m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
E	39m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
E	39m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
23	43m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	43m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
24	45m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
A	45m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	54m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
E	55m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
E	56m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
D	67m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	78m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
27	83m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Colne
28	85m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
D	97m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
G	97m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
G	100m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	109m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
H	109m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal
31	134m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
34	173m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
35	202m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

13

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 77**

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 77**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
8	On site	River	Colne (Confluence with Chess to River Thames)	GB106039023090	Colne	Colne

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

6.4 WFD Surface water bodies

Records identified

3

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 77**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
10	On site	Canal	Grand Union Canal, Maple Lodge to Uxbridge (Rivers Colne and Ches	GB70610252	Moderate	Fail	Moderate	2019
11	On site	Lake	Broadwater Lake	GB30641907	Moderate	Fail	Moderate	2019
14	3m W	River	Colne (Confluence with Chess to River Thames)	GB106039023090	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

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 77**

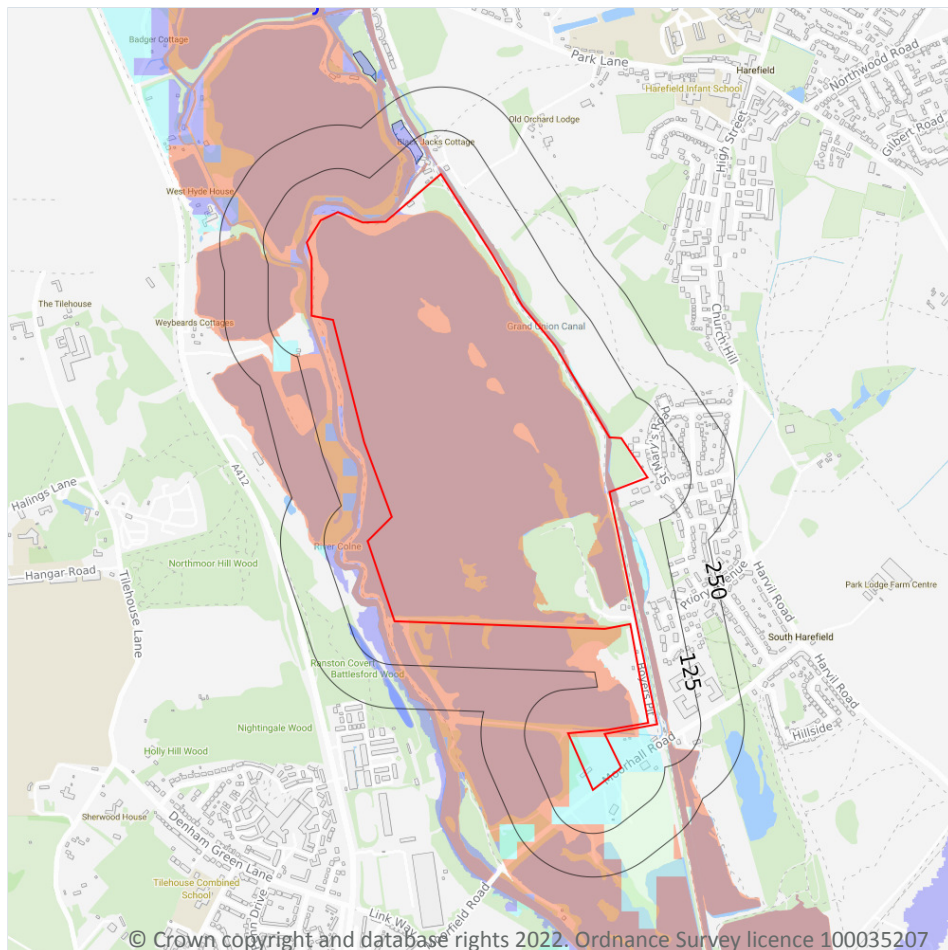


ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
12	On site	Mid-Chilterns Chalk	<u>GB40601G601200</u>	Poor	Poor	Poor	2019

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

88

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).

Features are displayed on the River and coastal flooding map on **page 84**



Distance	Flood risk category
On site	High
0 - 50m	High

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 84**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
K	67m NW	06octoberautumn1987	1987-01-01 1987-12-12	Main river	Channel capacity exceeded (no raised defences)	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
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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

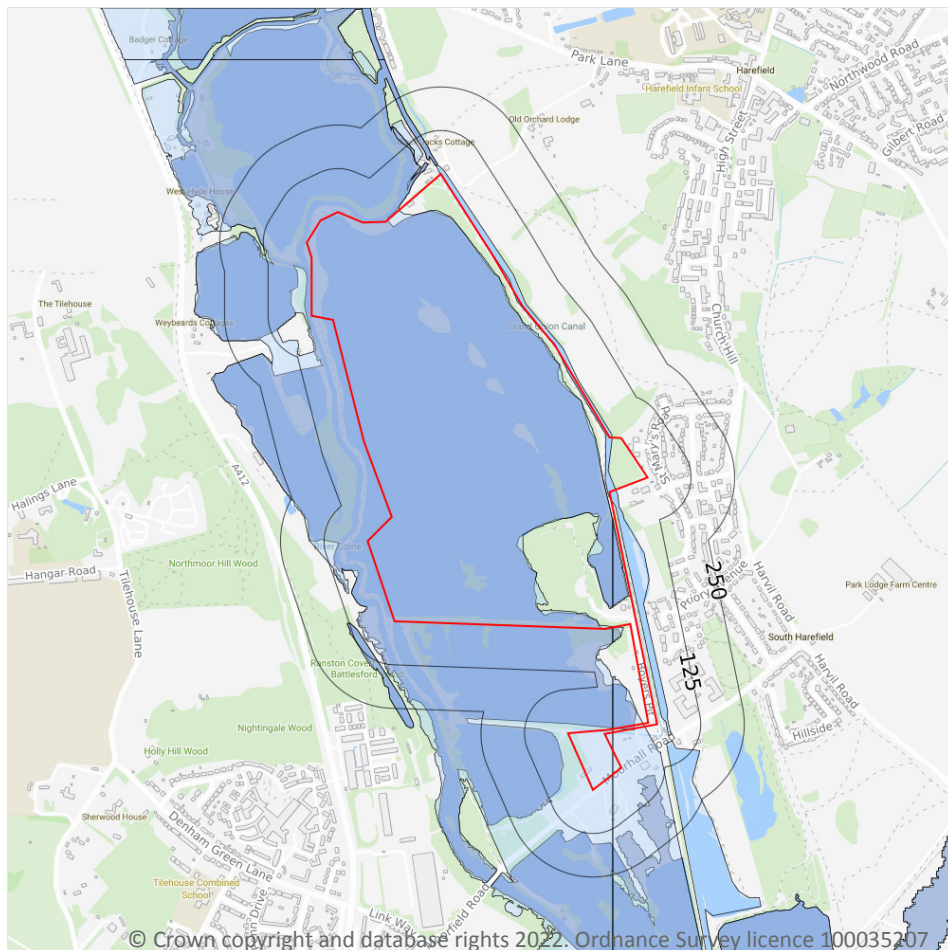
0

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



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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.

Features are displayed on the River and coastal flooding map on **page 84**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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.

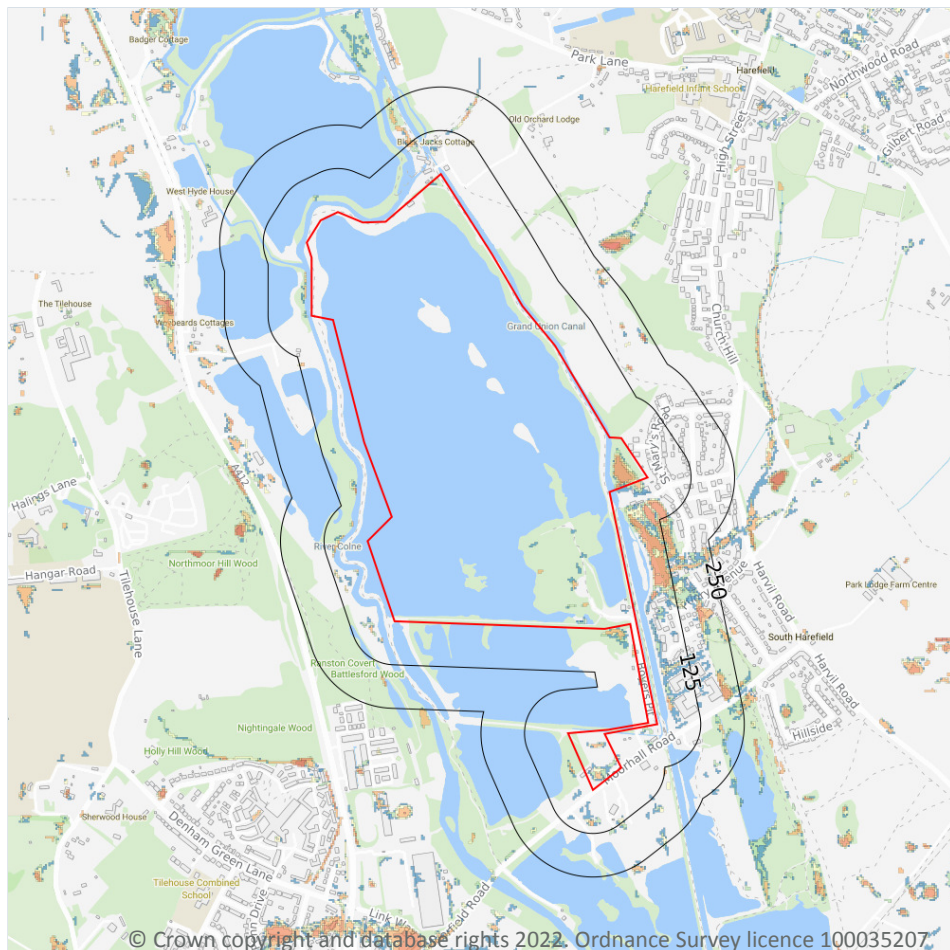
Features are displayed on the River and coastal flooding map on **page 84**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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 89**

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.

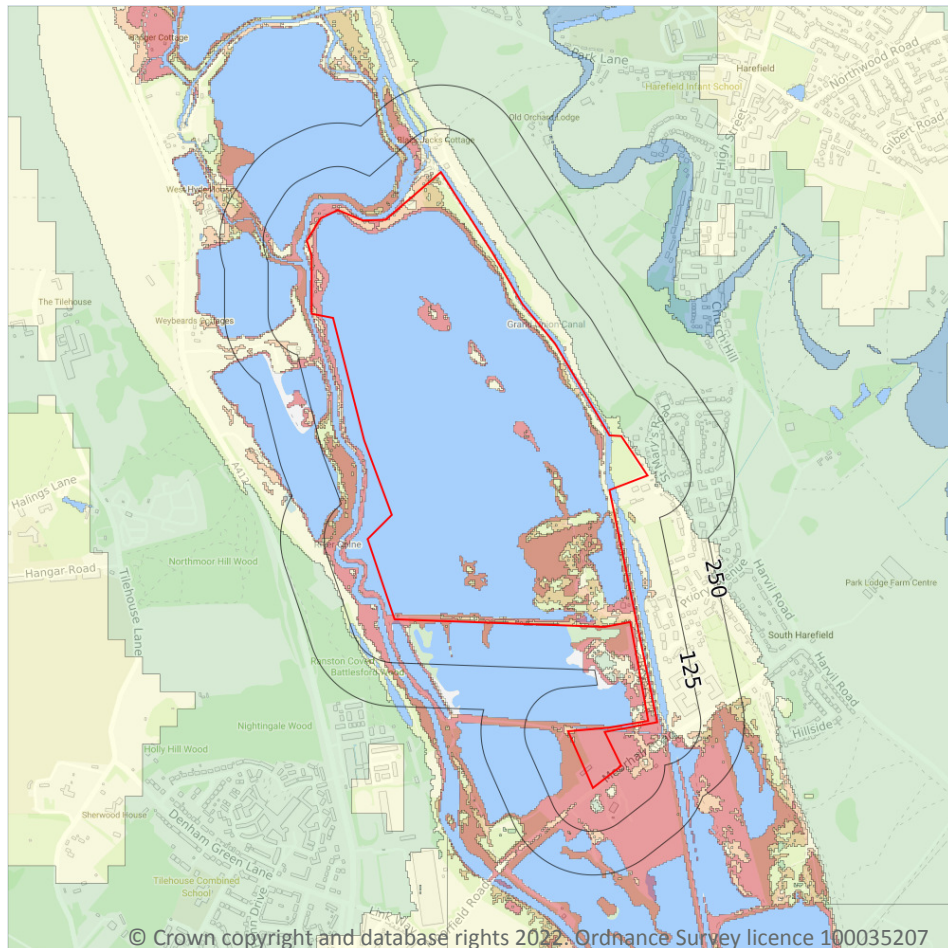
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

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

High

Highest risk within 50m

High

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 91**

This data is sourced from Ambiantal Risk Analytics.