

Demeter Environmental Ltd  
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Liverpool  
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Tel: 0151 521 2539  
Fax: 0151 909 3661

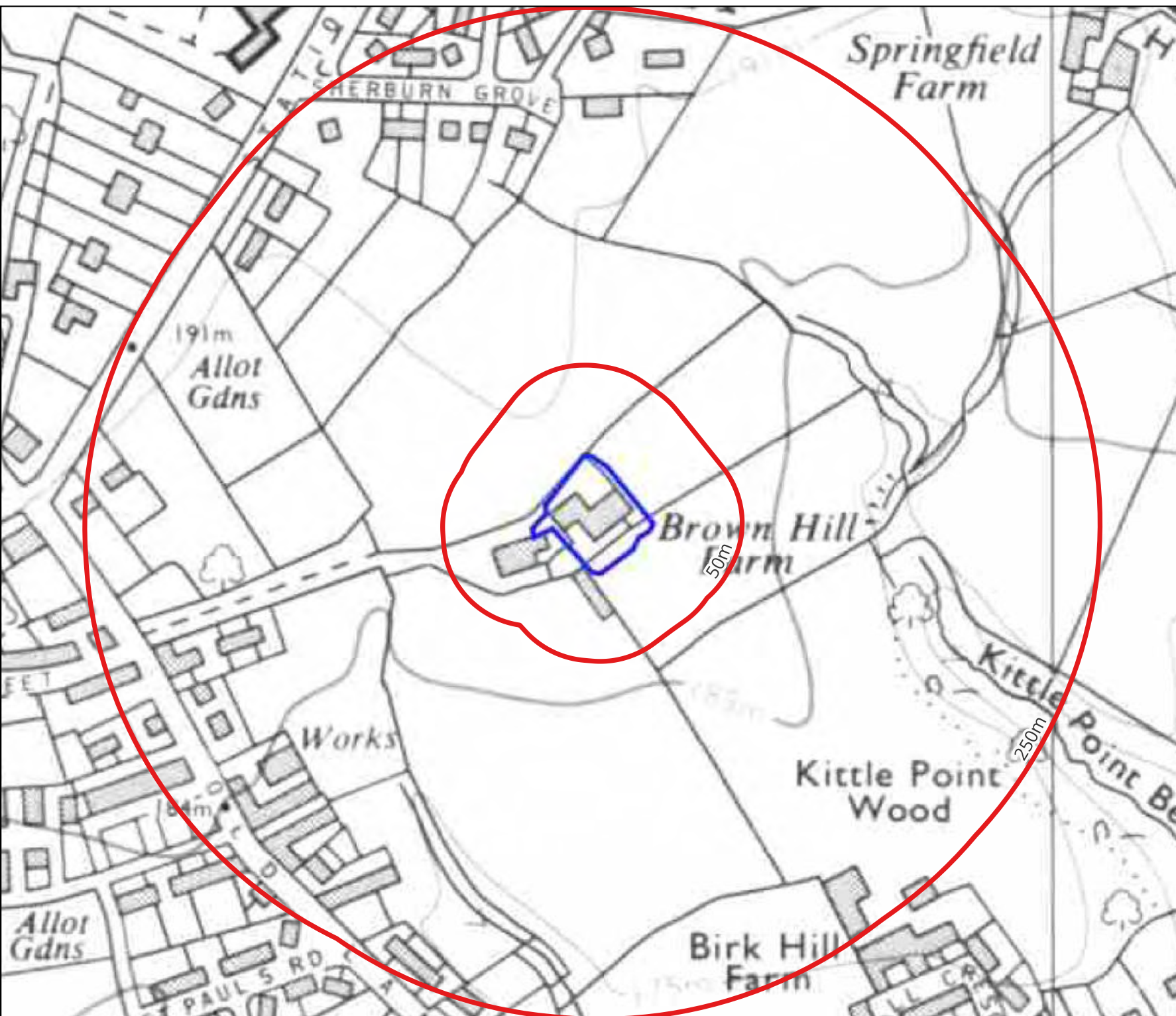
Brighton Office:  
The Offices  
57 Newtown Road  
Brighton, East Sussex  
BN3 7BA  
Tel: 01273 741 727

Email: [enquiries@demeter-environmental.co.uk](mailto:enquiries@demeter-environmental.co.uk)

Date of Map: 1974

Site Name: Brownhill Farm

Scale: 1:2,800 at A4



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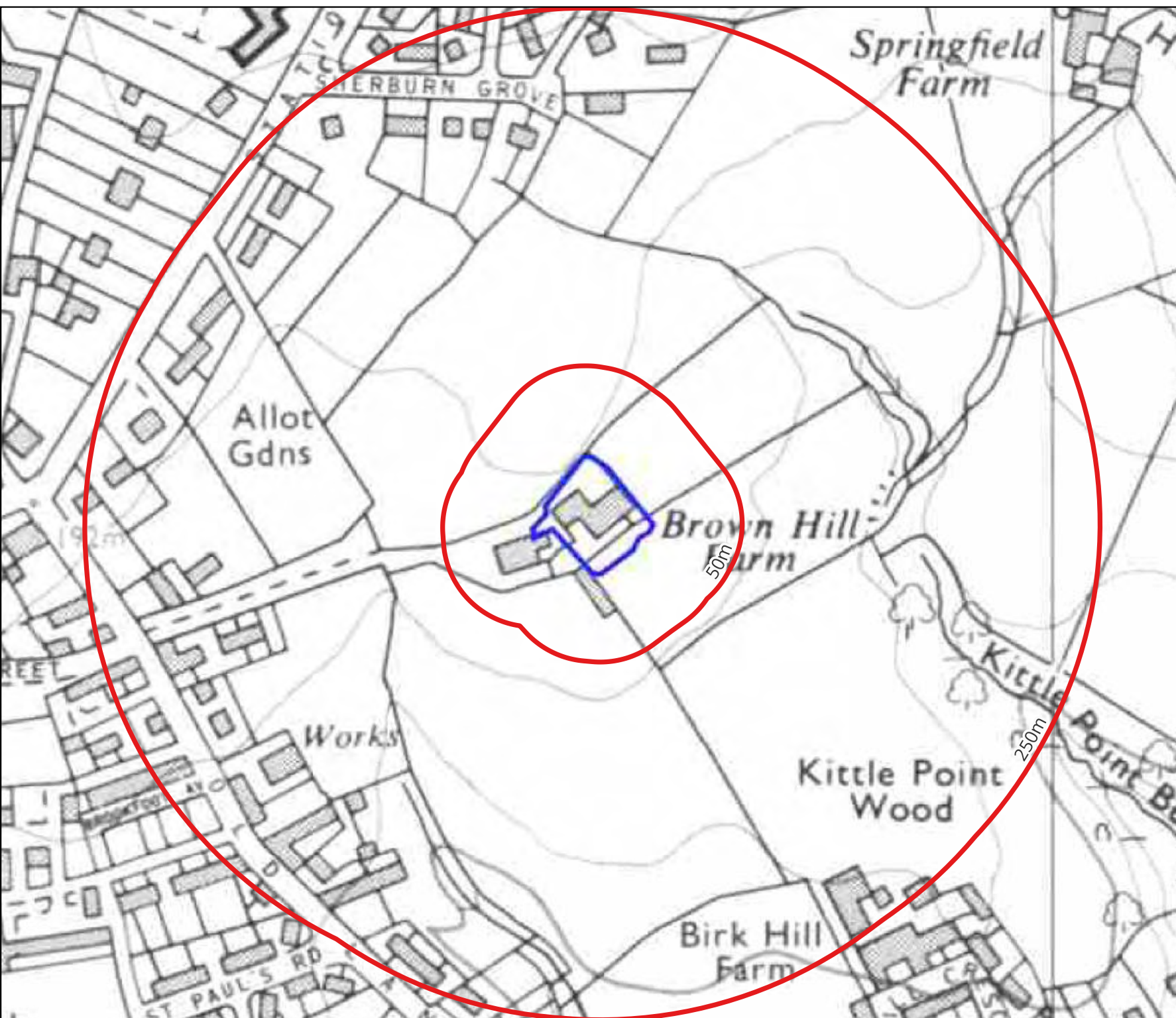
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Date of Map: 1983-1985

Site Name: Brownhill Farm

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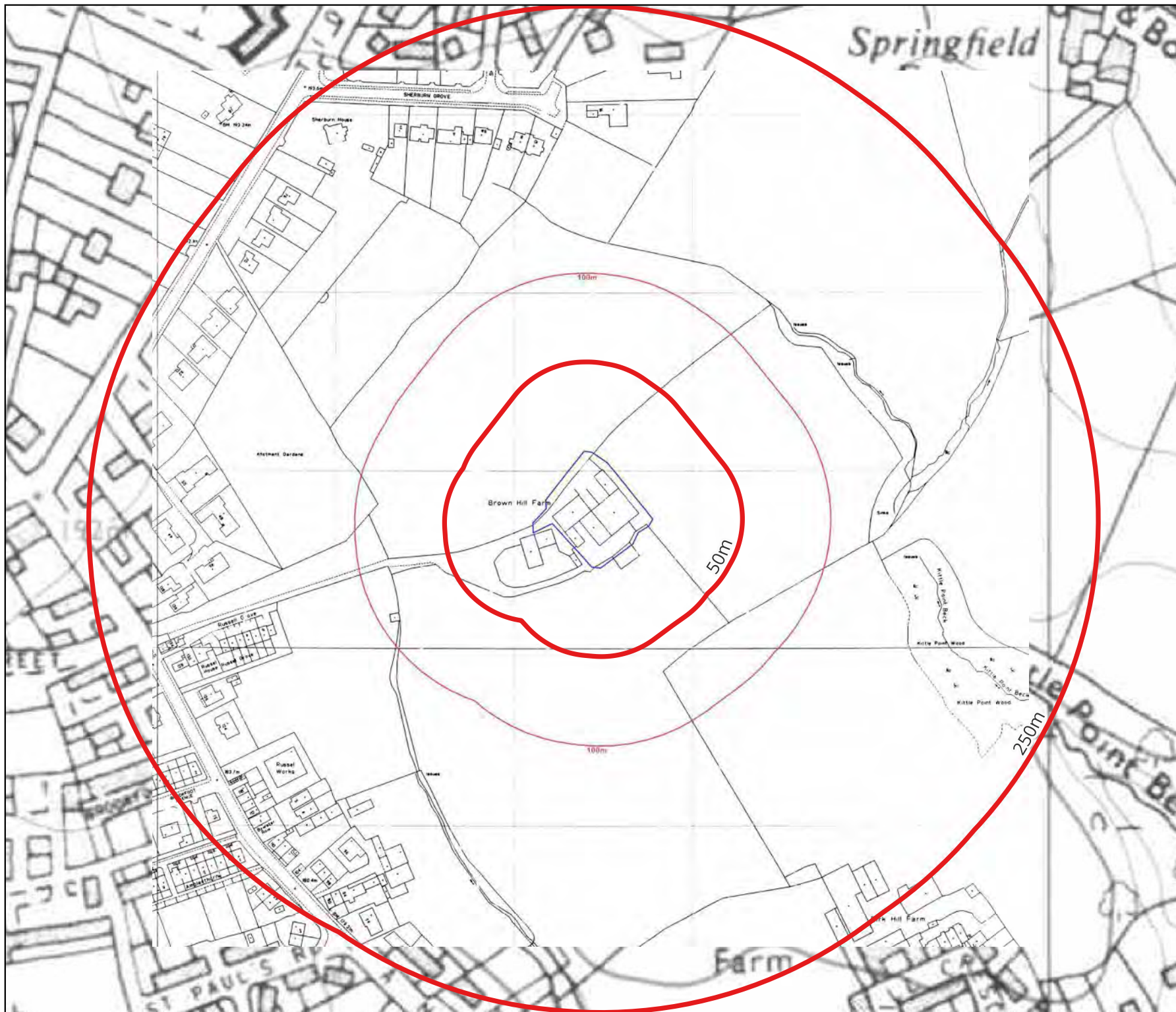
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Date of Map: 1990-1994

Site Name: Brownhill Farm

Scale: 1:2,800 at A4

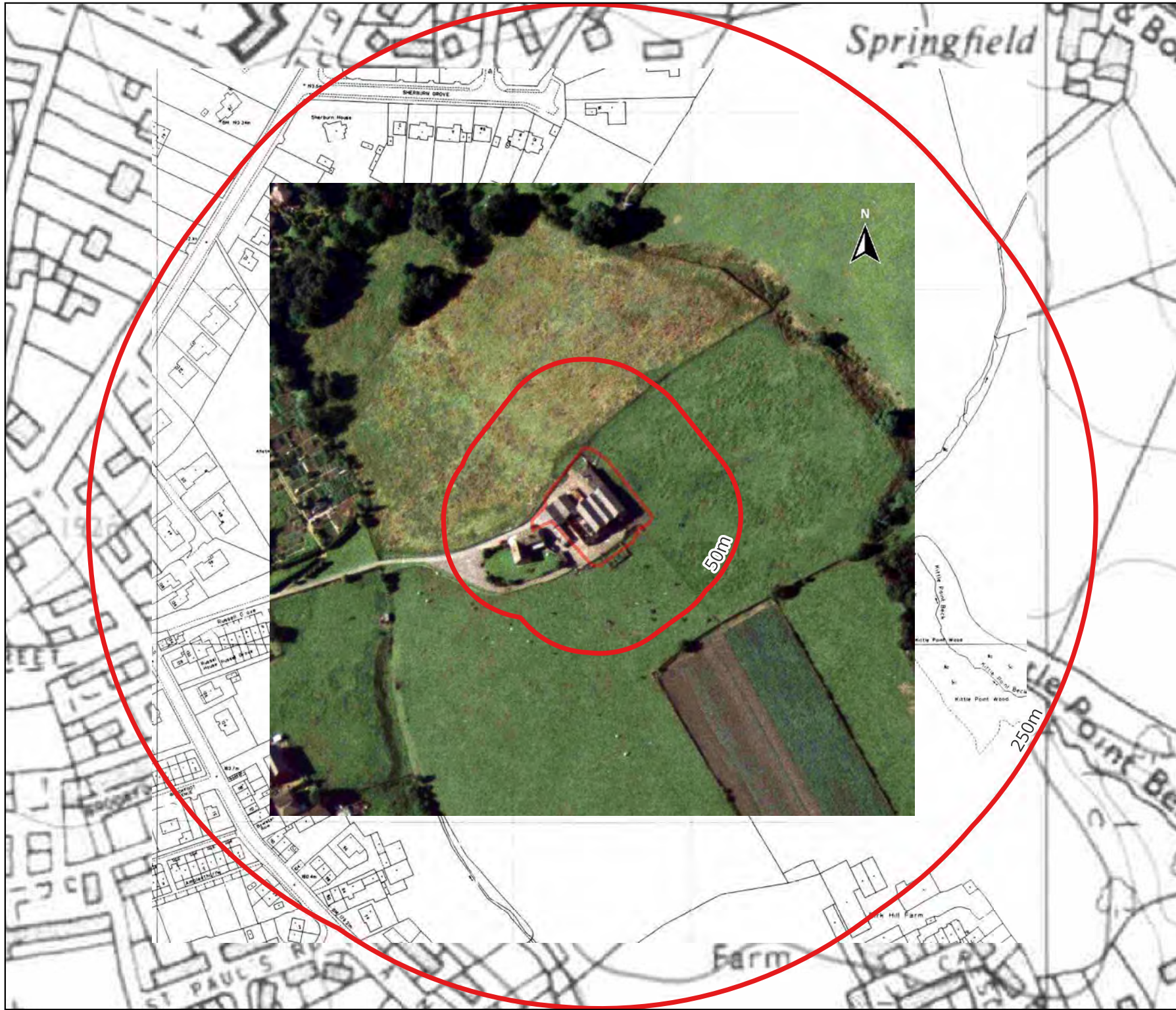


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Date of Map: 1993

Site Name: Brownhill Farm

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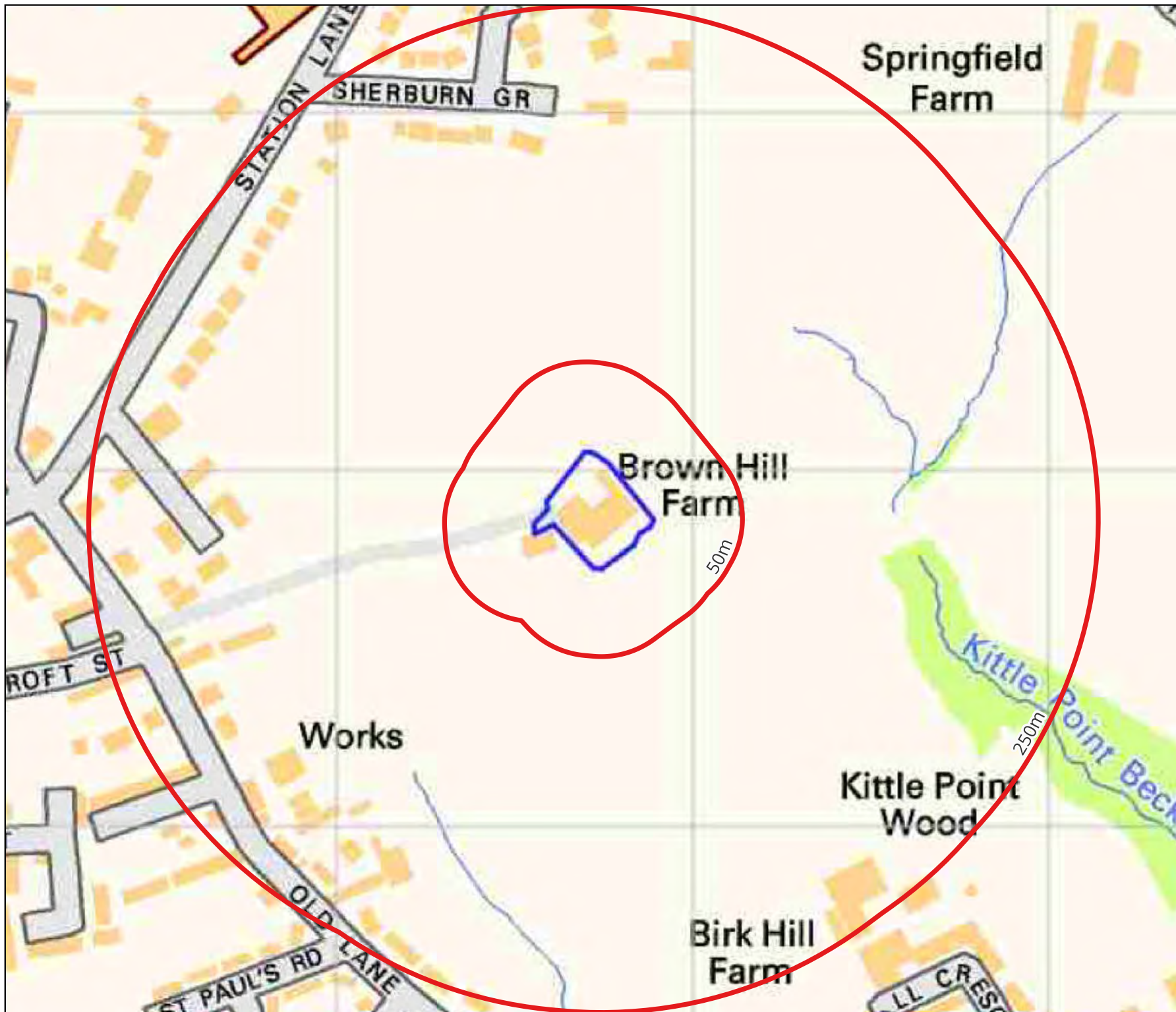


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Date of Map: 1999

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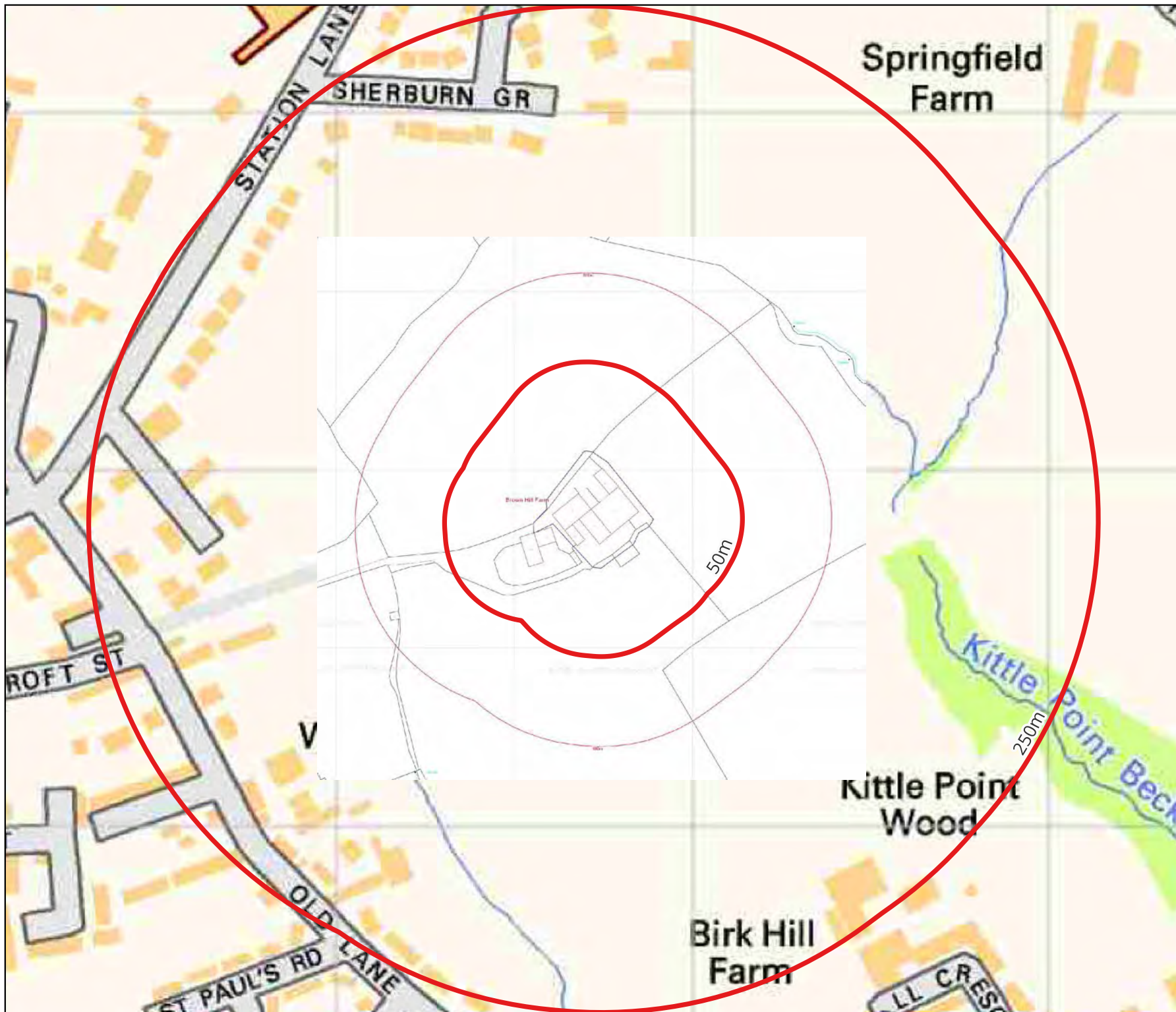
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Date of Map: 2001

Site Name: Brownhill Farm

Scale: 1:2,800 at A4

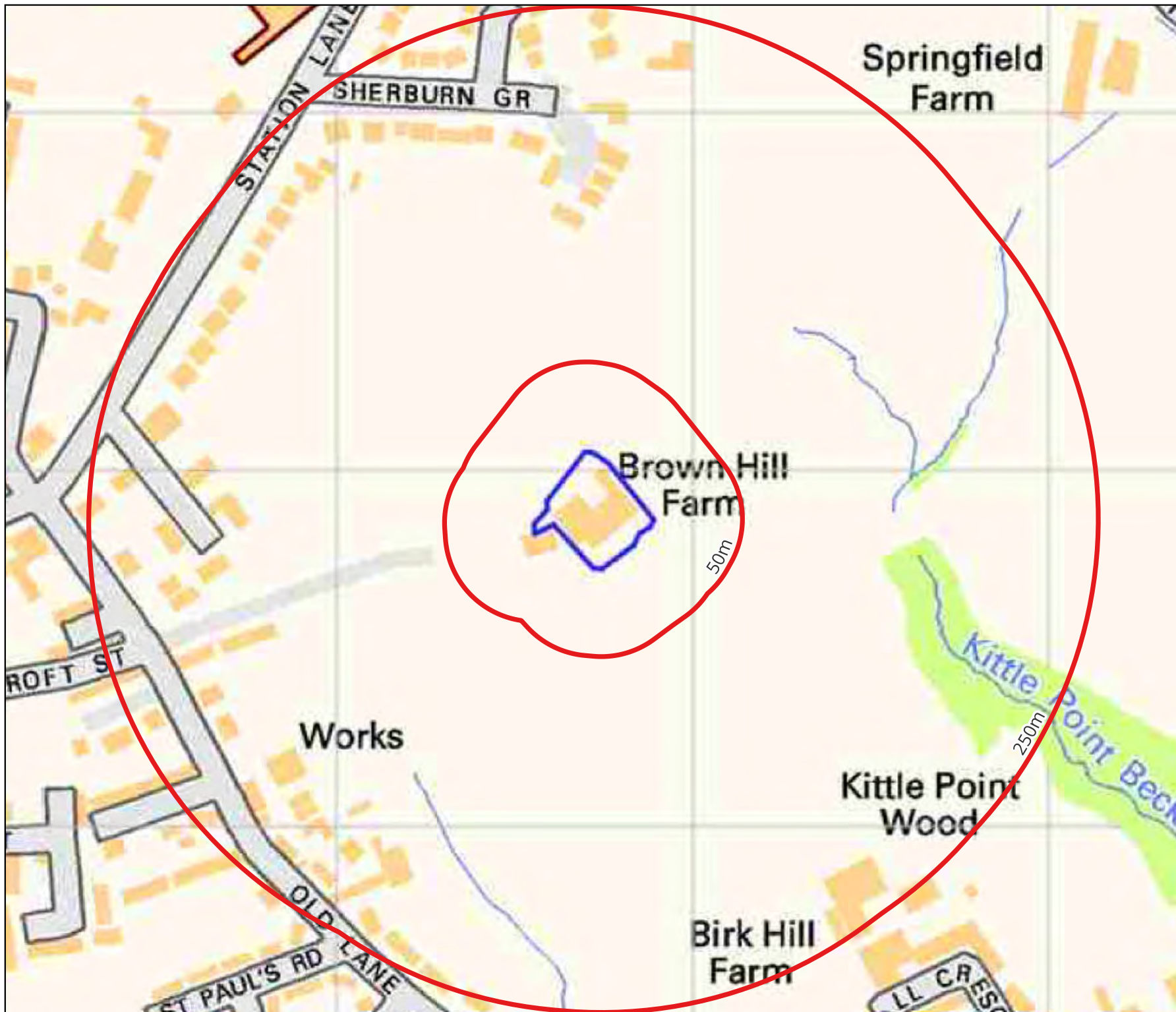


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Date of Map: 2003

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Date of Map: 2003

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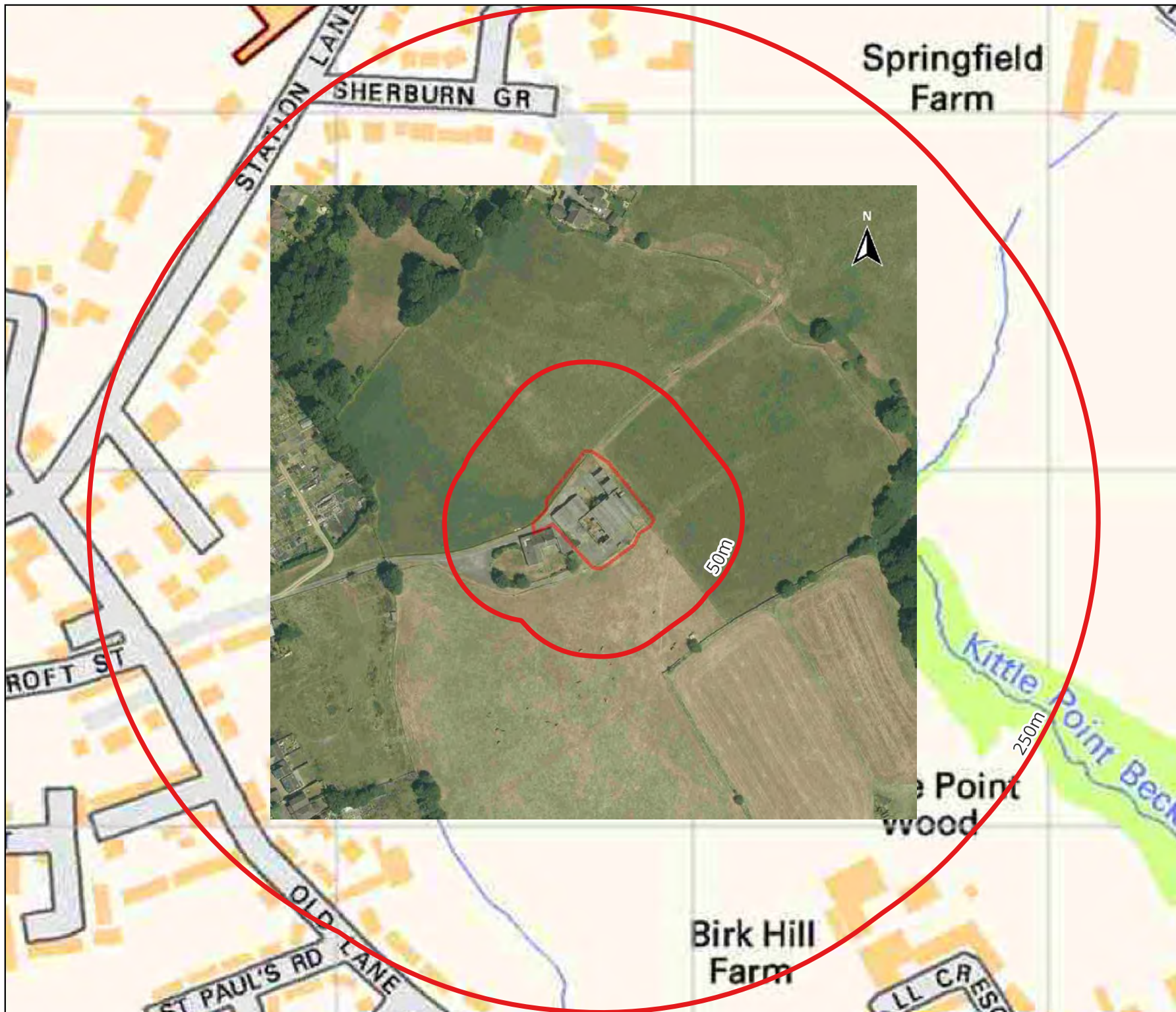


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Date of Map: 2012

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Date of Map: 2018

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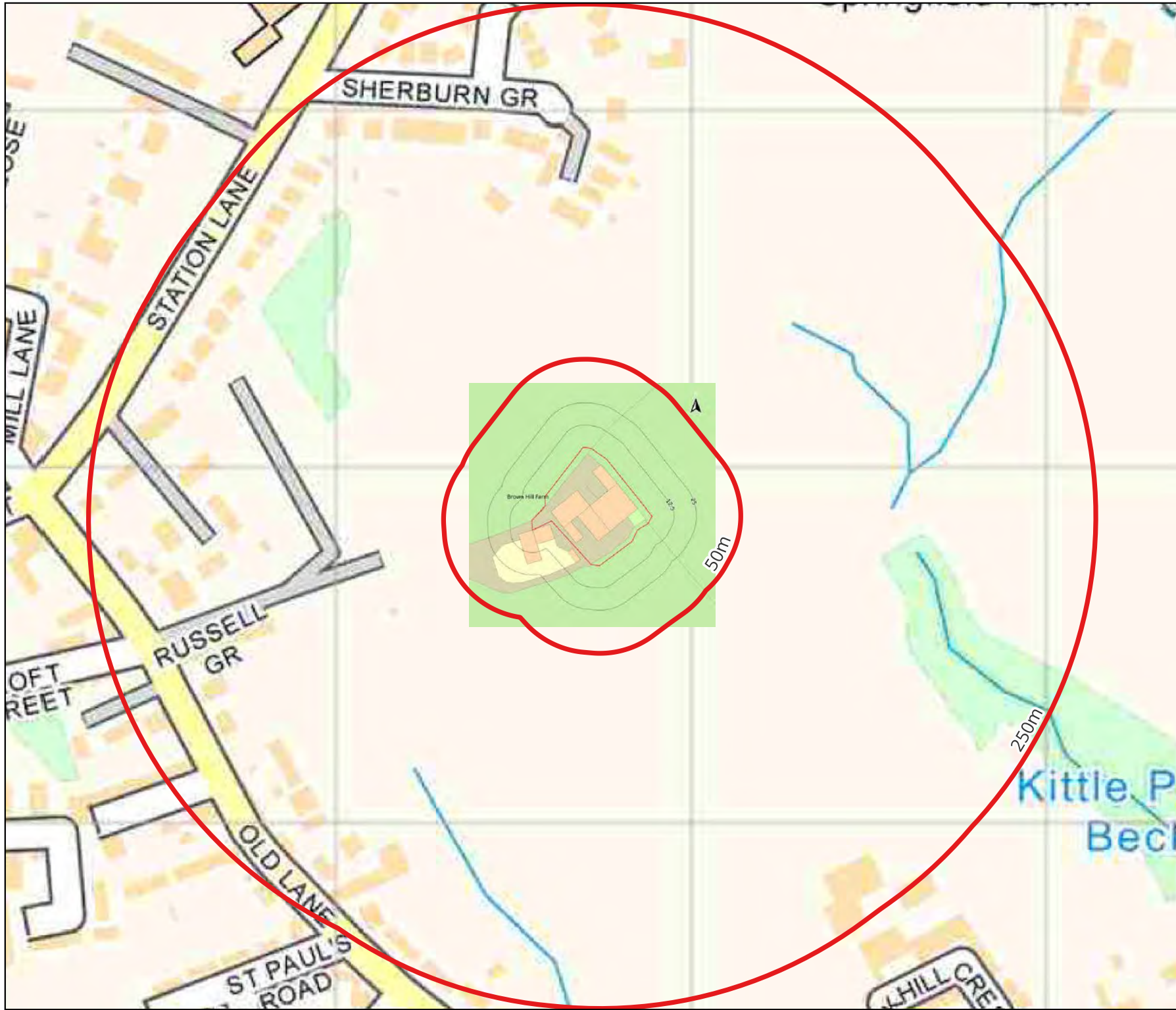
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Date of Map: 2021

Site Name: Brownhill Farm

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Date of Map: 2025

Site Name: Brownhill Farm

Scale: 1:2,800 at A4



## **APPENDIX G: GROUNDSURE REPORTS**

Brownhill Farm, Old Lane, Birkenshaw, BD11 2JL

## Order Details

**Date:** 24/11/2025  
**Your ref:** EMS\_1065537\_1334662  
**Our Ref:** EMS-1065537\_1341620

## Site Details

**Location:** 420745 428576  
**Area:** 0.24 ha  
**Authority:** [Kirklees Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.13 >](#)

[Insight User Guide](#) ↗

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	1	41	-
<a href="#">16 &gt;</a>	<a href="#">1.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	0	2	-
<a href="#">17 &gt;</a>	<a href="#">1.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	0	0	0	5	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">19 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	4	62	-
<a href="#">22 &gt;</a>	<a href="#">2.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	0	8	-
<a href="#">23 &gt;</a>	<a href="#">2.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	0	0	0	13	-
23	2.4	Historical petrol stations	0	0	0	0	-
24	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
26	3.5	Historical waste sites	0	0	0	0	-
26	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">26 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	0	0	5	5	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	Recent industrial land uses	0	0	0	-	-
28	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
<a href="#">29 &gt;</a>	<a href="#">4.3 &gt;</a>	<a href="#">Current or recent petrol stations &gt;</a>	0	0	0	1	-
29	4.4	Electricity cables	0	0	0	0	-
29	4.5	Gas pipelines	0	0	0	0	-



29	4.6	Sites determined as Contaminated Land	0	0	0	0	-
29	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
30	4.8	Regulated explosive sites	0	0	0	0	-
30	4.9	Hazardous substance storage/usage	0	0	0	0	-
30	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
30	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
31	4.13	Radioactive Substance Authorisations	0	0	0	0	-
<b>31 &gt;</b>	<b>4.14 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	0	0	2	-
31	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
32	4.16	Pollutant release to public sewer	0	0	0	0	-
32	4.17	List 1 Dangerous Substances	0	0	0	0	-
32	4.18	List 2 Dangerous Substances	0	0	0	0	-
<b>32 &gt;</b>	<b>4.19 &gt;</b>	<b><u>Pollution Incidents (EA/NRW) &gt;</u></b>	0	0	0	1	-
33	4.20	Pollution inventory substances	0	0	0	0	-
33	4.21	Pollution inventory waste transfers	0	0	0	0	-
33	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
34	5.1	Superficial aquifer	None (within 500m)				
<b>35 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>36 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
37	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
37	5.5	Groundwater vulnerability- local information	None (within 0m)				
38	5.6	Groundwater abstractions	0	0	0	0	0
<b>39 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	0	0	0	0	3
40	5.8	Potable abstractions	0	0	0	0	0
40	5.9	Source Protection Zones	0	0	0	0	-
40	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology &gt;</u>	On site	0-50m	50-250m	250-500m	500-2000m



<a href="#">41</a> >	<a href="#">6.1</a> >	<a href="#">Water Network (OS MasterMap)</a> >	0	0	6	-	-
<a href="#">42</a> >	<a href="#">6.2</a> >	<a href="#">Surface water features</a> >	0	0	6	-	-
<a href="#">42</a> >	<a href="#">6.3</a> >	<a href="#">WFD Surface water body catchments</a> >	1	-	-	-	-
<a href="#">43</a> >	<a href="#">6.4</a> >	<a href="#">WFD Surface water bodies</a> >	0	0	0	-	-
<a href="#">43</a> >	<a href="#">6.5</a> >	<a href="#">WFD Groundwater bodies</a> >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
44	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
44	7.2	Historical Flood Events	0	0	0	-	-
44	7.3	Flood Defences	0	0	0	-	-
45	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
45	7.5	Flood Storage Areas	0	0	0	-	-
46	7.6	Flood Zone 2	None (within 50m)				
46	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
47	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	<a href="#">Groundwater flooding</a> >					
<a href="#">48</a> >	<a href="#">9.1</a> >	<a href="#">Groundwater flooding</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Environmental designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
49	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
50	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
50	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
50	10.4	Special Protection Areas (SPA)	0	0	0	0	0
50	10.5	National Nature Reserves (NNR)	0	0	0	0	0
<a href="#">51</a> >	<a href="#">10.6</a> >	<a href="#">Local Nature Reserves (LNR)</a> >	0	0	0	0	2
<a href="#">51</a> >	<a href="#">10.7</a> >	<a href="#">Designated Ancient Woodland</a> >	0	0	0	0	2
51	10.8	Biosphere Reserves	0	0	0	0	0
52	10.9	Forest Parks	0	0	0	0	0
52	10.10	Marine Conservation Zones	0	0	0	0	0
<a href="#">52</a> >	<a href="#">10.11</a> >	<a href="#">Green Belt</a> >	1	0	0	2	2



52	10.12	Proposed Ramsar sites	0	0	0	0	0
53	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
53	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
53	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<a href="#">53</a> >	<a href="#">10.16</a> >	<a href="#">Nitrate Vulnerable Zones</a> >	0	0	1	0	0
55	10.17	SSSI Impact Risk Zones	0	-	-	-	-
55	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
56	11.1	World Heritage Sites	0	0	0	-	-
56	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
56	11.3	National Parks	0	0	0	-	-
56	11.4	Listed Buildings	0	0	0	-	-
57	11.5	Conservation Areas	0	0	0	-	-
57	11.6	Scheduled Ancient Monuments	0	0	0	-	-
57	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<a href="#">Agricultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">58</a> >	<a href="#">12.1</a> >	<a href="#">Agricultural Land Classification</a> >	Urban (within 250m)				
59	12.2	Open Access Land	0	0	0	-	-
59	12.3	Tree Felling Licences	0	0	0	-	-
59	12.4	Environmental Stewardship Schemes	0	0	0	-	-
59	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<a href="#">Habitat designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">60</a> >	<a href="#">13.1</a> >	<a href="#">Priority Habitat Inventory</a> >	0	0	1	-	-
61	13.2	Habitat Networks	0	0	0	-	-
61	13.3	Open Mosaic Habitat	0	0	0	-	-
61	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<a href="#">Geology 1:10,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">62</a> >	<a href="#">14.1</a> >	<a href="#">10k Availability</a> >	Identified (within 500m)				
<a href="#">63</a> >	<a href="#">14.2</a> >	<a href="#">Artificial and made ground (10k)</a> >	0	0	0	3	-

64	14.3	Superficial geology (10k)	0	0	0	0	-
64	14.4	Landslip (10k)	0	0	0	0	-
<a href="#">65</a> >	<a href="#">14.5</a> >	<a href="#">Bedrock geology (10k)</a> >	2	1	13	12	-
<a href="#">67</a> >	<a href="#">14.6</a> >	<a href="#">Bedrock faults and other linear features (10k)</a> >	0	2	12	6	-
Page	Section	<a href="#">Geology 1:50,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">69</a> >	<a href="#">15.1</a> >	<a href="#">50k Availability</a> >	Identified (within 500m)				
70	15.2	Artificial and made ground (50k)	0	0	0	0	-
70	15.3	Artificial ground permeability (50k)	0	0	-	-	-
71	15.4	Superficial geology (50k)	0	0	0	0	-
71	15.5	Superficial permeability (50k)	None (within 50m)				
71	15.6	Landslip (50k)	0	0	0	0	-
71	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">72</a> >	<a href="#">15.8</a> >	<a href="#">Bedrock geology (50k)</a> >	2	1	12	12	-
<a href="#">74</a> >	<a href="#">15.9</a> >	<a href="#">Bedrock permeability (50k)</a> >	Identified (within 50m)				
<a href="#">74</a> >	<a href="#">15.10</a> >	<a href="#">Bedrock faults and other linear features (50k)</a> >	0	2	17	8	-
Page	Section	<a href="#">Boreholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">76</a> >	<a href="#">16.1</a> >	<a href="#">BGS Boreholes</a> >	0	0	9	-	-
Page	Section	<a href="#">Natural ground subsidence</a> >					
<a href="#">78</a> >	<a href="#">17.1</a> >	<a href="#">Shrink swell clays</a> >	Very low (within 50m)				
<a href="#">80</a> >	<a href="#">17.2</a> >	<a href="#">Running sands</a> >	Negligible (within 50m)				
<a href="#">81</a> >	<a href="#">17.3</a> >	<a href="#">Compressible deposits</a> >	Negligible (within 50m)				
<a href="#">82</a> >	<a href="#">17.4</a> >	<a href="#">Collapsible deposits</a> >	Very low (within 50m)				
<a href="#">83</a> >	<a href="#">17.5</a> >	<a href="#">Landslides</a> >	Very low (within 50m)				
<a href="#">84</a> >	<a href="#">17.6</a> >	<a href="#">Ground dissolution of soluble rocks</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">86</a> >	<a href="#">18.1</a> >	<a href="#">BritPits</a> >	0	0	0	3	-
87	18.2	Surface ground workings	0	0	0	-	-
<a href="#">88</a> >	<a href="#">18.3</a> >	<a href="#">Underground workings</a> >	0	0	0	15	5
89	18.4	Underground mining extents	0	0	0	0	-



<a href="#">89</a> >	<a href="#">18.5</a> >	<a href="#">Historical Mineral Planning Areas</a> >	0	0	0	1	-
<a href="#">89</a> >	<a href="#">18.6</a> >	<a href="#">Non-coal mining</a> >	0	0	0	0	6
90	18.7	JPB mining areas	None (within 0m)				
90	18.8	The Coal Authority non-coal mining	0	0	0	0	-
91	18.9	Researched mining	0	0	0	0	-
91	18.10	Mining record office plans	0	0	0	0	-
91	18.11	BGS mine plans	0	0	0	0	-
<a href="#">91</a> >	<a href="#">18.12</a> >	<a href="#">Coal mining</a> >	Identified (within 0m)				
92	18.13	Brine areas	None (within 0m)				
92	18.14	Gypsum areas	None (within 0m)				
92	18.15	Tin mining	None (within 0m)				
92	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
93	19.1	Natural cavities	0	0	0	0	-
93	19.2	Mining cavities	0	0	0	0	0
93	19.3	Reported recent incidents	0	0	0	0	-
93	19.4	Historical incidents	0	0	0	0	-
Page	Section	<a href="#">Radon</a> >					
<a href="#">95</a> >	<a href="#">20.1</a> >	<a href="#">Radon</a> >	Between 3% and 5% (within 0m)				
Page	Section	<a href="#">Soil chemistry</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">97</a> >	<a href="#">21.1</a> >	<a href="#">BGS Estimated Background Soil Chemistry</a> >	2	3	-	-	-
97	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
98	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
99	22.1	Underground railways (London)	0	0	0	-	-
99	22.2	Underground railways (Non-London)	0	0	0	-	-
99	22.3	Railway tunnels	0	0	0	-	-
99	22.4	Historical railway and tunnel features	0	0	0	-	-
99	22.5	Royal Mail tunnels	0	0	0	-	-

100	22.6	Historical railways	0	0	0	-	-
100	22.7	Railways	0	0	0	-	-
100	22.8	Crossrail 2	0	0	0	0	-
100	22.9	HS2	0	0	0	0	-



## Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.24ha



## Recent site history - 2018 aerial photograph



Capture Date: 02/07/2018

Site Area: 0.24ha



## Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.24ha



## Recent site history - 1999 aerial photograph

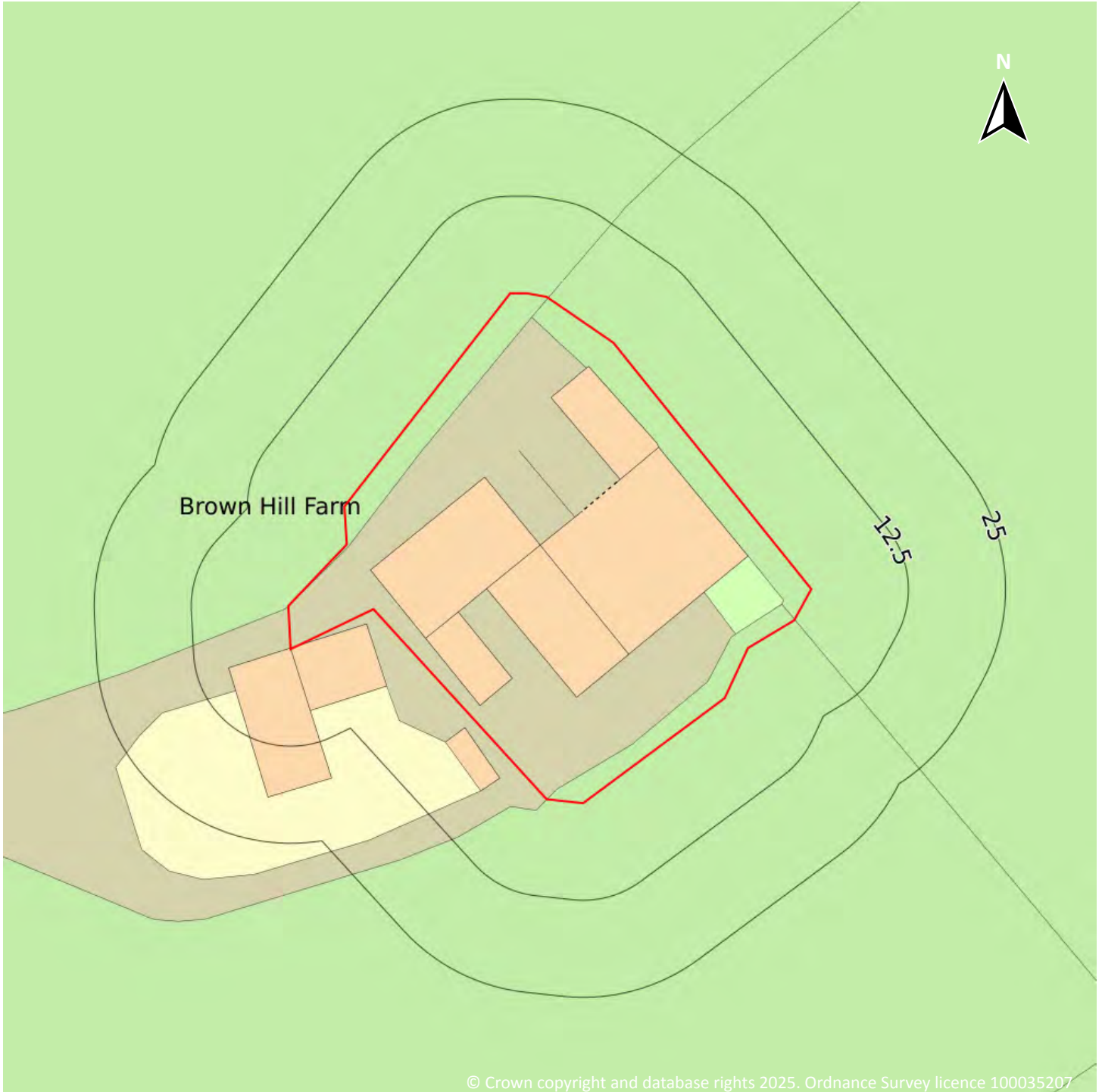


Capture Date: 10/07/1999

Site Area: 0.24ha

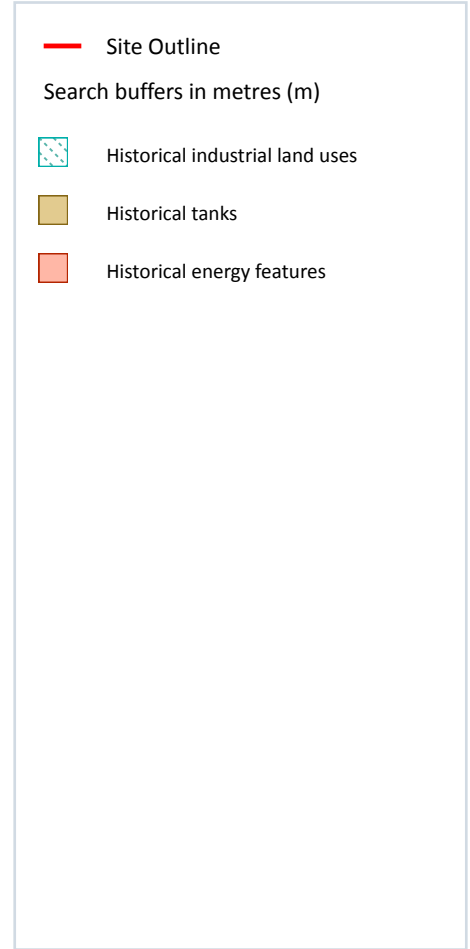


## OS MasterMap site plan



Site Area: 0.24ha

# 1 Past land use



## 1.1 Historical industrial land uses

**Records within 500m** **42**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	177m SW	Unspecified Works	1966 - 1994	1533839

ID	Location	Land use	Dates present	Group ID
A	406m W	Unspecified Pit	1892 - 1905	1577845
A	425m W	Sandstone Quarry	1847	1444727
C	438m NW	Unspecified Mills	1966	1580848
C	439m NW	Worsted Mill	1847	1462555
C	441m NW	Unspecified Mills	1892	1572121
D	449m SE	Refuse Heap	1955	1566741
D	453m SE	Unspecified Heap	1974 - 1994	1551474
D	454m SE	Refuse Heap	1938 - 1948	1522510
7	458m W	Unspecified Old Foundry	1847	1463141
C	461m NW	Unspecified Works	1966	1460431
D	467m SE	Unspecified Disused Shaft	1966 - 1994	1494070
D	469m SE	Unspecified Old Shaft	1955	1569222
D	471m SE	Unspecified Old Shaft	1938 - 1948	1526378
E	472m N	Railway Sidings	1938	1486242
E	472m N	Railway Sidings	1892 - 1905	1561302
E	473m N	Railway Sidings	1847	1487843
E	475m N	Railway Sidings	1948 - 1955	1551258
F	478m S	Unspecified Works	1966 - 1974	1495121
G	481m N	Refuse Heap	1892 - 1905	1549552
G	481m N	Refuse Heap	1938	1569722
G	482m N	Refuse Heap	1948	1552974
E	483m N	Railway Sidings	1966	1543389
G	483m N	Unspecified Old Shafts	1938 - 1948	1508262
G	483m N	Unspecified Old Shafts	1905	1525470
8	483m NW	Unspecified Mills	1955	1517752
G	486m N	Unspecified Old Shafts	1905	1492491
G	486m N	Unspecified Old Shafts	1938 - 1948	1537956
G	489m N	Unspecified Disused Shafts	1966	1459466



ID	Location	Land use	Dates present	Group ID
G	489m N	Unspecified Old Shafts	1955	1469845
G	490m N	Refuse Heap	1955	1501789
F	490m S	Engineering Works	1948 - 1955	1570544
E	490m N	Railway Building	1847	1491891
E	491m N	Railway Building	1938 - 1948	1555608
E	491m N	Railway Building	1892 - 1905	1579328
G	493m N	Unspecified Disused Shafts	1966	1459467
G	493m N	Unspecified Old Shafts	1955	1469844
E	495m N	Railway Station	1892 - 1905	1539258
E	496m N	Railway Station	1966	1538005
9	498m NE	Unspecified Heap	1938	1565550
E	499m N	Railway Station	1938	1532388
E	500m N	Railway Station	1948	1487979

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

### Records within 500m

2

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
3	364m W	Unspecified Tank	1922	238562
4	395m E	Unspecified Tank	1973 - 1992	260354

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

**Records within 500m****5**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
2	304m N	Electricity Substation	1971 - 1973	152072
5	406m SW	Electricity Substation	1971 - 1973	150810
B	420m W	Electricity Substation	1956 - 1973	159251
B	420m W	Electricity Substation	1989	150428
6	441m S	Electricity Substation	1956 - 1973	156946

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.4 Historical petrol stations

**Records within 500m****0**

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

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.5 Historical garages

**Records within 500m****0**

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

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.6 Historical military land

Records within 500m

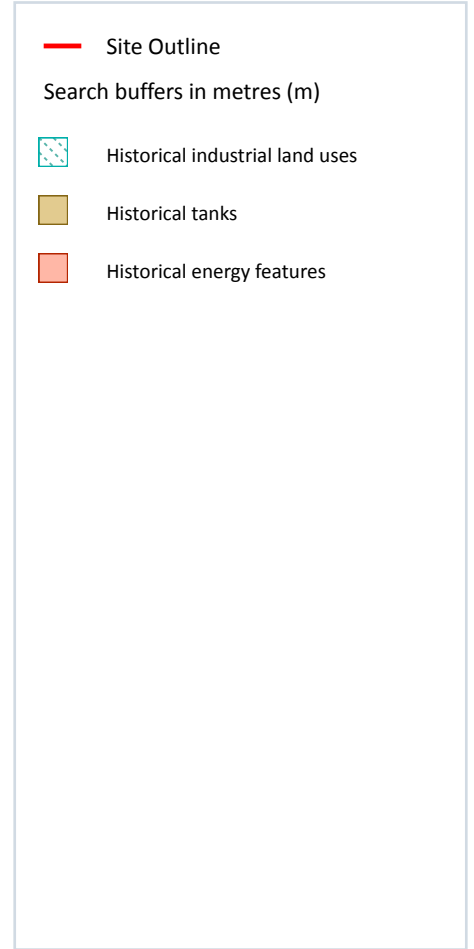
0

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

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



## 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

Records within 500m

66

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 19](#) >

ID	Location	Land Use	Date	Group ID
A	177m SW	Unspecified Works	1994	1533839
A	177m SW	Unspecified Works	1974	1533839
A	177m SW	Unspecified Works	1985	1533839

ID	Location	Land Use	Date	Group ID
A	177m SW	Unspecified Works	1966	1533839
D	406m W	Unspecified Pit	1892	1577845
D	406m W	Unspecified Pit	1905	1577845
D	425m W	Sandstone Quarry	1847	1444727
G	438m NW	Unspecified Mills	1966	1580848
G	439m NW	Worsted Mill	1847	1462555
G	441m NW	Unspecified Mills	1892	1572121
I	449m SE	Refuse Heap	1955	1566741
I	453m SE	Unspecified Heap	1994	1551474
I	453m SE	Unspecified Heap	1974	1551474
I	453m SE	Unspecified Heap	1985	1551474
I	454m SE	Refuse Heap	1948	1522510
I	454m SE	Refuse Heap	1938	1522510
2	458m W	Unspecified Old Foundry	1847	1463141
G	461m NW	Unspecified Works	1966	1460431
I	467m SE	Unspecified Disused Shaft	1994	1494070
I	467m SE	Unspecified Disused Shaft	1974	1494070
I	467m SE	Unspecified Disused Shaft	1985	1494070
I	467m SE	Unspecified Disused Shaft	1966	1494070
I	469m SE	Unspecified Old Shaft	1955	1569222
I	471m SE	Unspecified Old Shaft	1948	1526378
I	471m SE	Unspecified Old Shaft	1938	1526378
J	472m N	Railway Sidings	1938	1486242
J	472m N	Railway Sidings	1892	1561302
J	472m N	Railway Sidings	1905	1561302
J	473m N	Railway Sidings	1847	1487843
J	475m N	Railway Sidings	1948	1551258
K	478m S	Unspecified Works	1974	1495121



ID	Location	Land Use	Date	Group ID
K	478m S	Unspecified Works	1966	1495121
L	481m N	Refuse Heap	1938	1569722
L	481m N	Refuse Heap	1892	1549552
L	481m N	Refuse Heap	1905	1549552
L	482m N	Refuse Heap	1948	1552974
L	482m N	Refuse Heap	1948	1552974
J	483m N	Railway Sidings	1966	1543389
J	483m N	Railway Sidings	1955	1551258
L	483m N	Unspecified Old Shafts	1938	1508262
L	483m N	Unspecified Old Shafts	1905	1525470
3	483m NW	Unspecified Mills	1955	1517752
L	484m N	Unspecified Old Shafts	1948	1508262
L	484m N	Unspecified Old Shafts	1948	1508262
L	486m N	Unspecified Old Shafts	1938	1537956
L	486m N	Unspecified Old Shafts	1905	1492491
L	488m N	Unspecified Old Shafts	1948	1537956
L	488m N	Unspecified Old Shafts	1948	1537956
L	489m N	Unspecified Disused Shafts	1966	1459466
L	489m N	Unspecified Old Shafts	1955	1469845
L	490m N	Refuse Heap	1955	1501789
K	490m S	Engineering Works	1955	1570544
J	490m N	Railway Building	1847	1491891
J	491m N	Railway Building	1938	1555608
J	491m N	Railway Building	1892	1579328
J	491m N	Railway Building	1905	1579328
L	493m N	Unspecified Disused Shafts	1966	1459467
L	493m N	Unspecified Old Shafts	1955	1469844
J	495m N	Railway Building	1948	1555608



ID	Location	Land Use	Date	Group ID
J	495m N	Railway Station	1892	1539258
J	495m N	Railway Station	1905	1539258
J	496m N	Railway Station	1966	1538005
K	498m S	Engineering Works	1948	1570544
4	498m NE	Unspecified Heap	1938	1565550
J	499m N	Railway Station	1938	1532388
J	500m N	Railway Station	1948	1487979

This data is sourced from Ordnance Survey / Groundsure.

## 2.2 Historical tanks

### Records within 500m

8

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 19 >](#)

ID	Location	Land Use	Date	Group ID
1	364m W	Unspecified Tank	1922	238562
C	395m E	Unspecified Tank	1984	260354
C	395m E	Unspecified Tank	1987	260354
C	395m E	Unspecified Tank	1992	260354
C	395m E	Unspecified Tank	1986	260354
C	395m E	Unspecified Tank	1990	260354
C	395m E	Unspecified Tank	1990	260354
C	396m E	Unspecified Tank	1973	260354

This data is sourced from Ordnance Survey / Groundsure.



## 2.3 Historical energy features

Records within 500m

13

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 19 >](#)

ID	Location	Land Use	Date	Group ID
B	304m N	Electricity Substation	1971	152072
B	304m N	Electricity Substation	1973	152072
E	406m SW	Electricity Substation	1973	150810
E	407m SW	Electricity Substation	1971	150810
F	420m W	Electricity Substation	1957	159251
F	420m W	Electricity Substation	1973	159251
F	420m W	Electricity Substation	1989	150428
F	420m W	Electricity Substation	1956	159251
F	420m W	Electricity Substation	1971	159251
H	441m S	Electricity Substation	1971	156946
H	441m S	Electricity Substation	1956	156946
H	442m S	Electricity Substation	1957	156946
H	442m S	Electricity Substation	1973	156946

*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

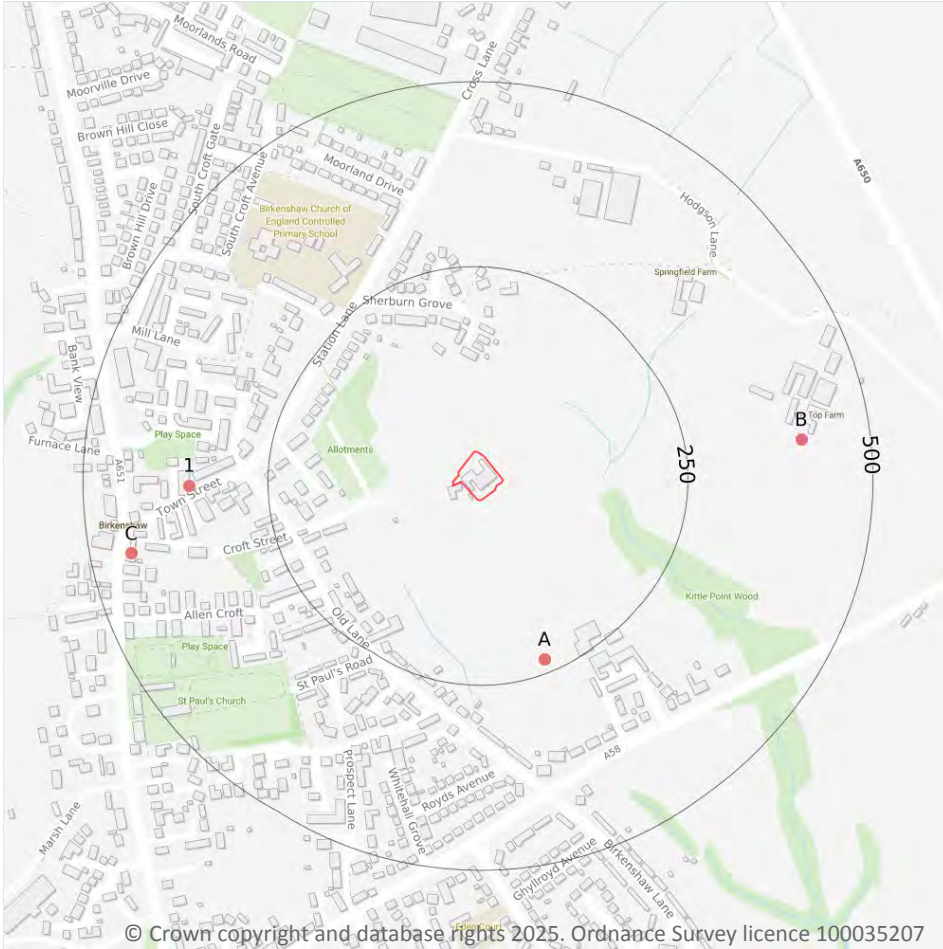
0

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



### 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

0

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.

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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.

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

### 3.5 Historical waste sites

Records within 500m

0

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

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

### 3.6 Licensed waste sites

Records within 500m

0

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

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

### 3.7 Waste exemptions

Records within 500m

10

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 25 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	232m S	Birkhill Farm Birkhill Crescent Bradford West Yorkshire Bd11 2lj	EPR/BE5082U A/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
A	232m S	Birkhill Farm Birkhill Crescent Bradford West Yorkshire Bd11 2Jj	EPR/BE5082U A/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste food
A	232m S	Birkhill Farm Birkhill Crescent Bradford West Yorkshire Bd11 2Jj	EPR/BE5082U A/A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
A	232m S	Birkhill Farm Birkhill Crescent Bradford West Yorkshire Bd11 2Jj	EPR/BE5082U A/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
A	232m S	Birkhill Farm Birkhill Crescent Bradford West Yorkshire Bd11 2Jj	EPR/BE5082U A/A001	Using waste exemption	Non-agricultural waste only	Use of waste derived biodiesel as fuel
1	357m W	-	WEX429548	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	407m E	-	WEX382291	Using waste exemption	On a farm	Use of waste in construction
B	407m E	-	WEX254722	Using waste exemption	On a farm	Use of waste in construction
C	445m W	744, Bradford Road, Birkenshaw, Bradford, Bd11 2ae	WEX144473	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	445m W	Yorkshire Vets 744 Bradford Road Bradford Kirklees Bd11 2ae	EPR/XE5146NE /A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal

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



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- △ Current or recent petrol stations
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

**Records within 250m** **0**

Current potentially contaminative industrial sites.

*This data is sourced from Ordnance Survey.*

### 4.2 National Geographic Database (NGD) - Current or recent tanks

**Records within 250m** **0**

Current or recent tanks identified from the Ordnance Survey NGD.

*This data is sourced from Ordnance Survey.*

### 4.3 Current or recent petrol stations

**Records within 500m****1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 28](#) >

ID	Location	Company	Address	LPG	Status
1	385m W	OBSOLETE	615, Bradford Road, Birkenshaw, Bradford, West Yorkshire, BD11 2AU	Not Applicable	Obsolete

*This data is sourced from Experian.*

### 4.4 Electricity cables

**Records within 500m****0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

### 4.5 Gas pipelines

**Records within 500m****0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

### 4.6 Sites determined as Contaminated Land

**Records within 500m****0**

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

*This data is sourced from Local Authority records.*

### 4.7 Control of Major Accident Hazards (COMAH)

**Records within 500m****0**

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.*



## 4.8 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.*

## 4.9 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.*

## 4.10 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.*

## 4.11 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.*

## 4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

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.

*This data is sourced from Local Authority records.*



### 4.13 Radioactive Substance Authorisations

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.*

### 4.14 Licensed Discharges to controlled waters

<b>Records within 500m</b>	<b>2</b>
----------------------------	----------

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 28 >](#)

ID	Location	Address	Details	
A	390m S	WHITEHALL ROAD SSO, BIRKENSRAW, NR BRADFORD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: YWUCD2/9 Permit Version: 1 Receiving Water: WORMALDS DRAIN	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/11/1997 Effective Date: 12/11/1997 Revocation Date: 25/04/2005
A	407m S	OLD LANE NO 2 CSO, WHITEHALL ROAD EAST, BIRKENSRAW, BRADFORD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8488 Permit Version: 1 Receiving Water: WORMALDS DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 16/03/2005 Effective Date: 31/03/2005 Revocation Date: -

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

### 4.15 Pollutant release to surface waters (Red List)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.*

#### 4.16 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.*

#### 4.17 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.*

#### 4.18 List 2 Dangerous Substances

**Records within 500m** **0**

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.

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

#### 4.19 Pollution Incidents (EA/NRW)

**Records within 500m** **1**

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 28 >](#)

ID	Location	Details	
2	439m NE	Incident Date: 30/07/2003 Incident Identification: 177874 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

## 4.20 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.*

## 4.21 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.*

## 4.22 Pollution inventory radioactive waste

Records within 500m

0

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

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

## 5 Hydrogeology - Superficial aquifer

### 5.1 Superficial aquifer

Records within 500m

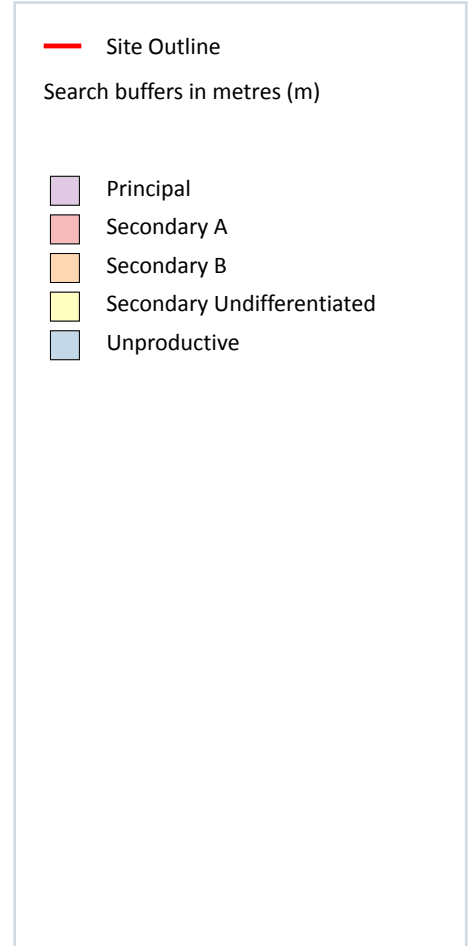
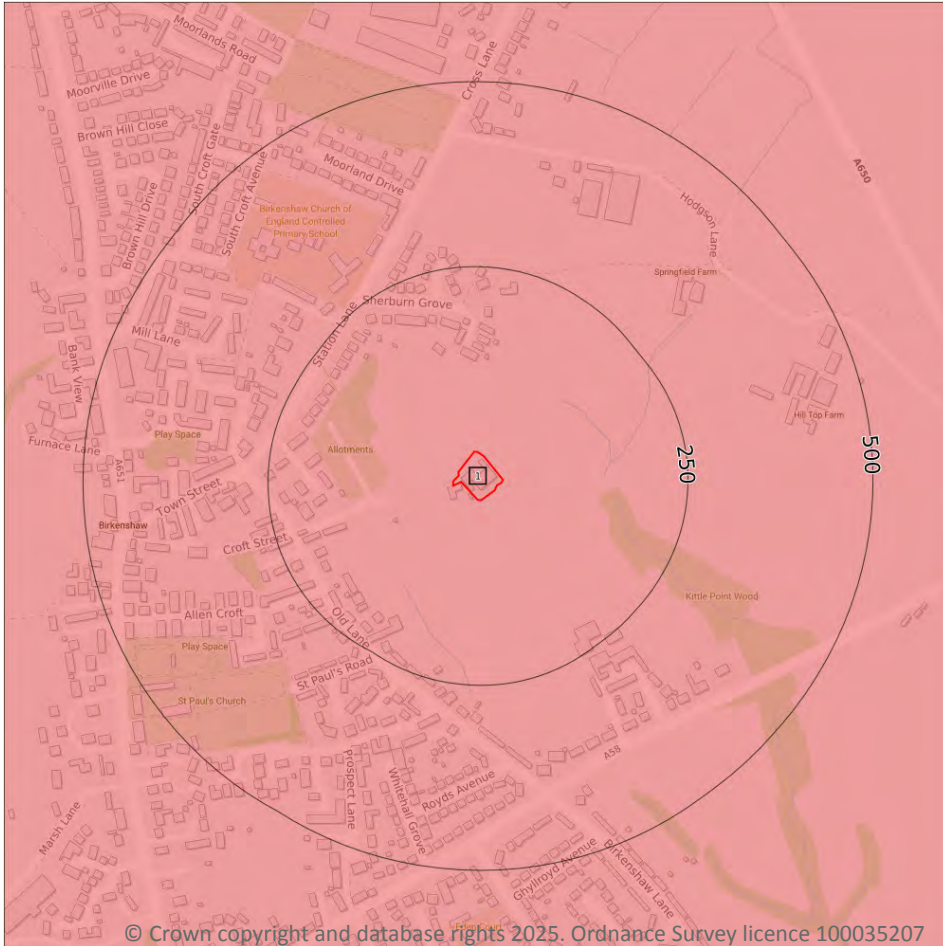
0

Aquifer status of groundwater held within superficial geology.

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



## Bedrock aquifer



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### 5.2 Bedrock aquifer

Records within 500m

1

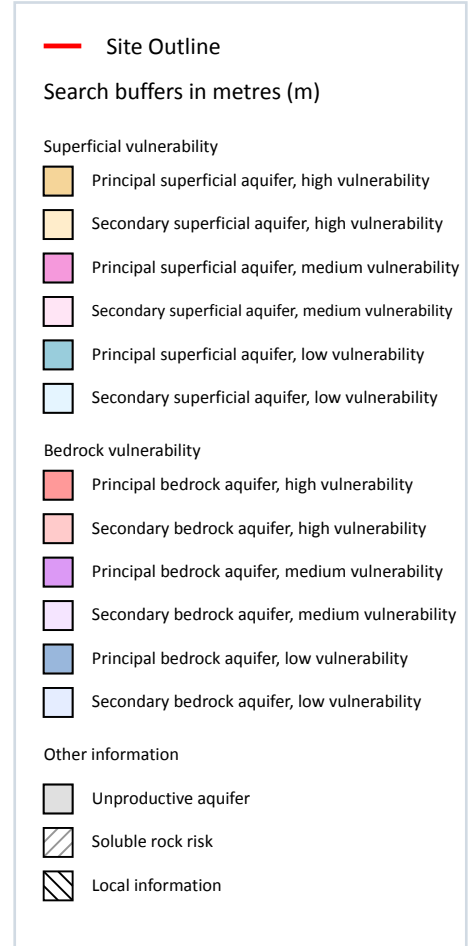
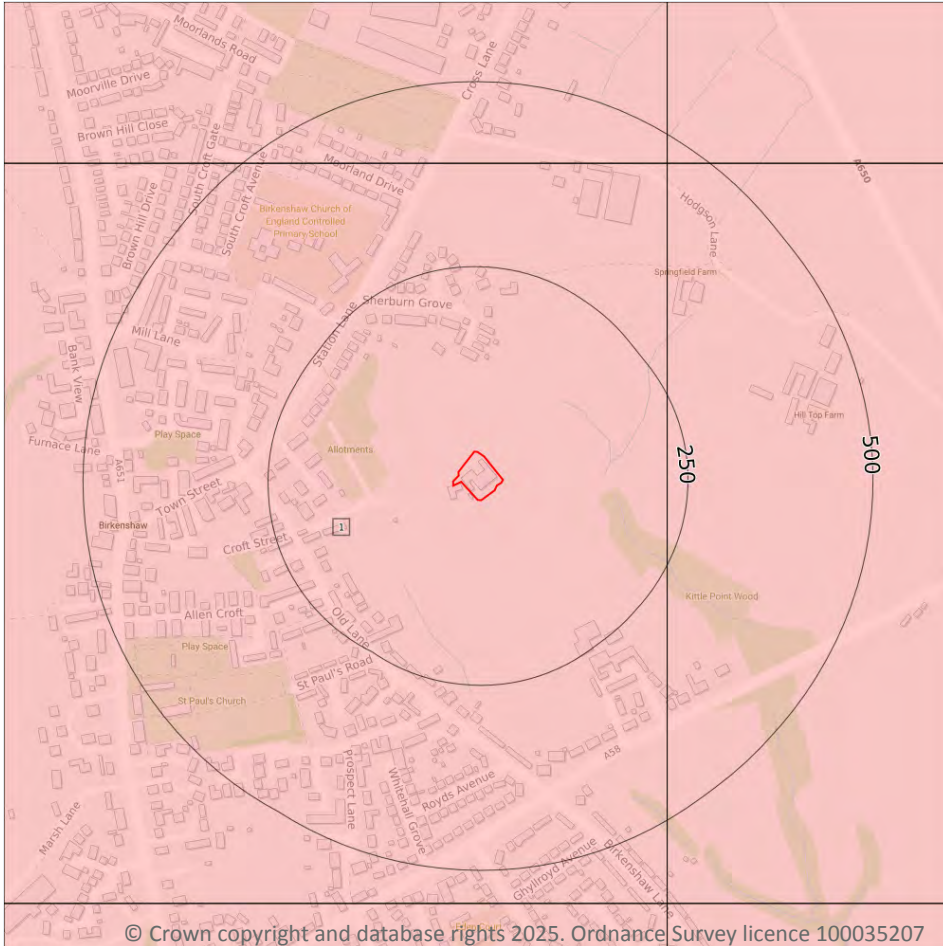
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 35](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

1

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 36 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, No Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> 300- 550mm/year	<b>Vulnerability:</b> - <b>Aquifer type:</b> - <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> 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

<b>Records on site</b>	<b>0</b>
------------------------	----------

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

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

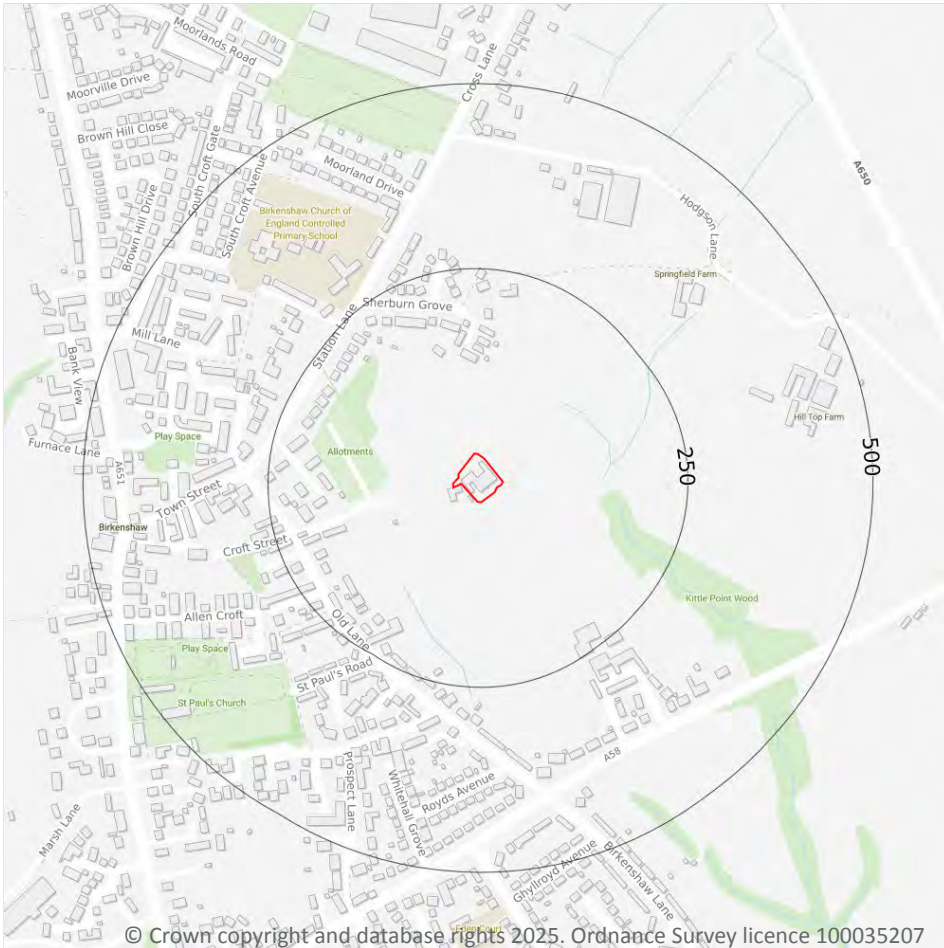
## 5.5 Groundwater vulnerability- local information

<b>Records on site</b>	<b>0</b>
------------------------	----------

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](mailto:enquiries@environment-agency.gov.uk) ↗.

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

## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

0

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.

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

## 5.7 Surface water abstractions

### Records within 2000m

**3**

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 38 >](#)

ID	Location	Details	
-	1806m SE	Status: Historical Licence No: 2/27/13/153 Details: General use relating to Secondary Category (Low Loss) Direct Source: SURFACE WATER Point: NOVA BECK Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL Easting: 421980 Northing: 427220	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 26/04/1982 Expiry Date: - Issue No: 100 Version Start Date: 26/04/1982 Version End Date: -
-	1806m SE	Status: Historical Licence No: 2/27/13/153 Details: Make-Up or Top Up Water Direct Source: SURFACE WATER Point: NOVA BECK Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL Easting: 421980 Northing: 427220	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 26/04/1982 Expiry Date: - Issue No: 100 Version Start Date: 26/04/1982 Version End Date: -
-	1806m SE	Status: Historical Licence No: 2/27/13/153 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER Point: NOVA BECK Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL Easting: 421980 Northing: 427220	Annual Volume (m <sup>3</sup> ): 9500 Max Daily Volume (m <sup>3</sup> ): 36 Original Application No: - Original Start Date: 26/04/1982 Expiry Date: - Issue No: 100 Version Start Date: 26/04/1982 Version End Date: -

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



## 5.8 Potable abstractions

Records within 2000m

0

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.

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

## 5.9 Source Protection Zones

Records within 500m

0

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

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

## 5.10 Source Protection Zones (confined aquifer)

Records within 500m

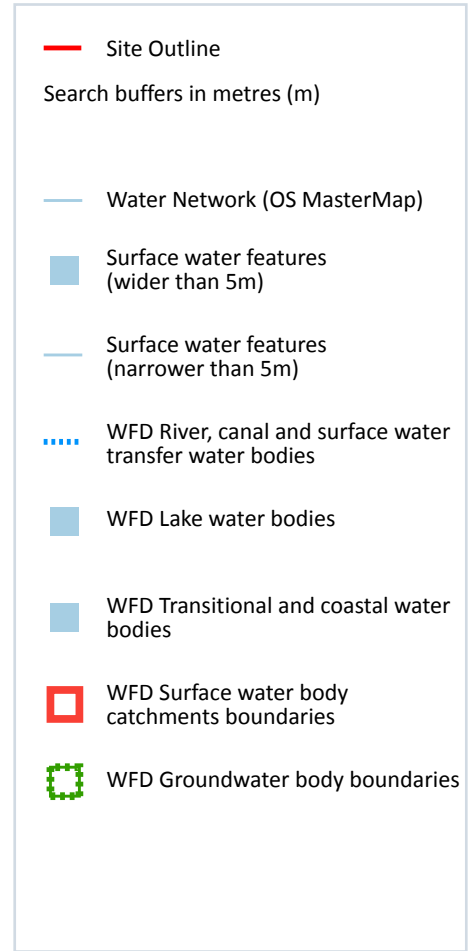
0

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

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

6

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 41](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
A	129m NE	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
B	135m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Kittle Point Beck
A	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	142m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	147m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Kittle Point Beck
D	150m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wormalds Drain

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

**Records within 250m**

**6**

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 41 >](#)

*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 41 >](#)



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Batley Beck from Source to River Calder	GB104027062670	Calder Lower	Aire and Calder

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

## 6.4 WFD Surface water bodies

<b>Records identified</b>	<b>1</b>
---------------------------	----------

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 41 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1978m S	River	Batley Beck from Source to River Calder	<a href="#">GB104027062670 ↗</a>	Moderate	Fail	Moderate	2019

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

## 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>1</b>
------------------------	----------

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 41 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.	<a href="#">GB40402G700400 ↗</a>	Poor	Poor	Good	2019

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



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

### 7.2 Historical Flood Events

Records within 250m

0

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.

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

### 7.3 Flood Defences

Records within 250m

0

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

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

## 7.5 Flood Storage Areas

Records within 250m

0

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

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



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

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

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

### 7.7 Flood Zone 3

Records within 50m

0

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

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



## 8 Surface water flooding

### 8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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.

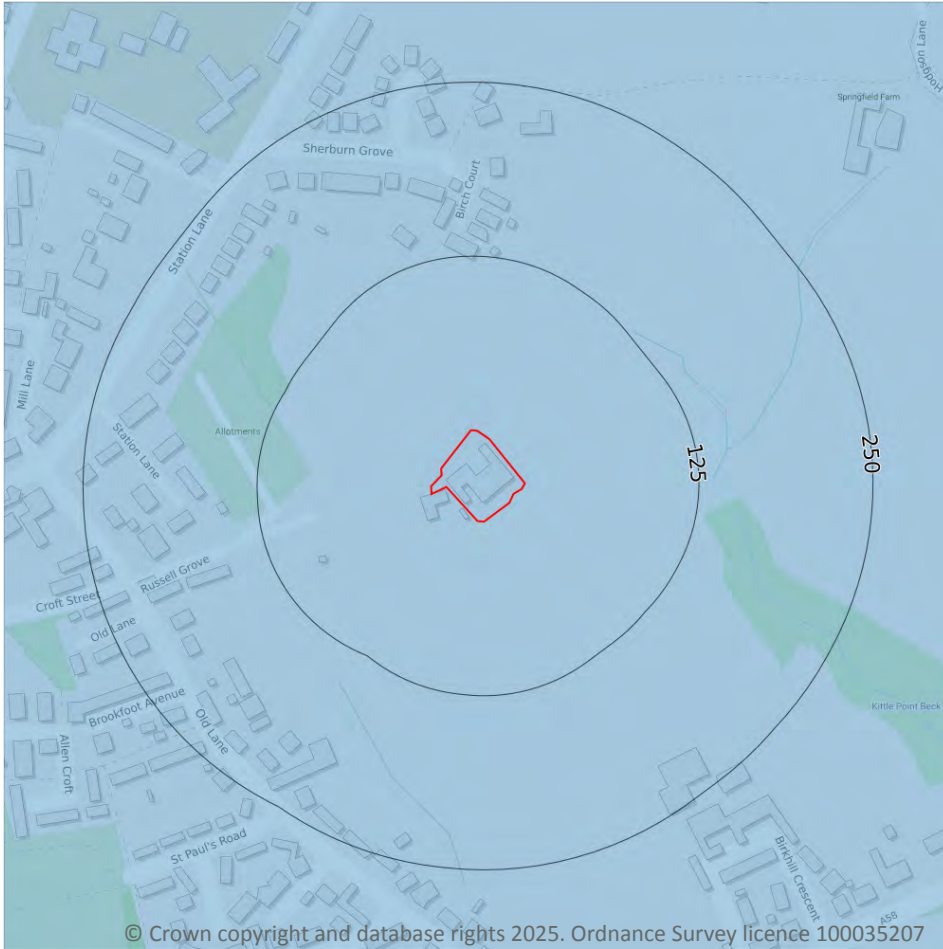
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

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

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Negligible**

**Highest risk within 50m**

**Negligible**

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 48](#) >

*This data is sourced from Ambiental Risk Analytics.*