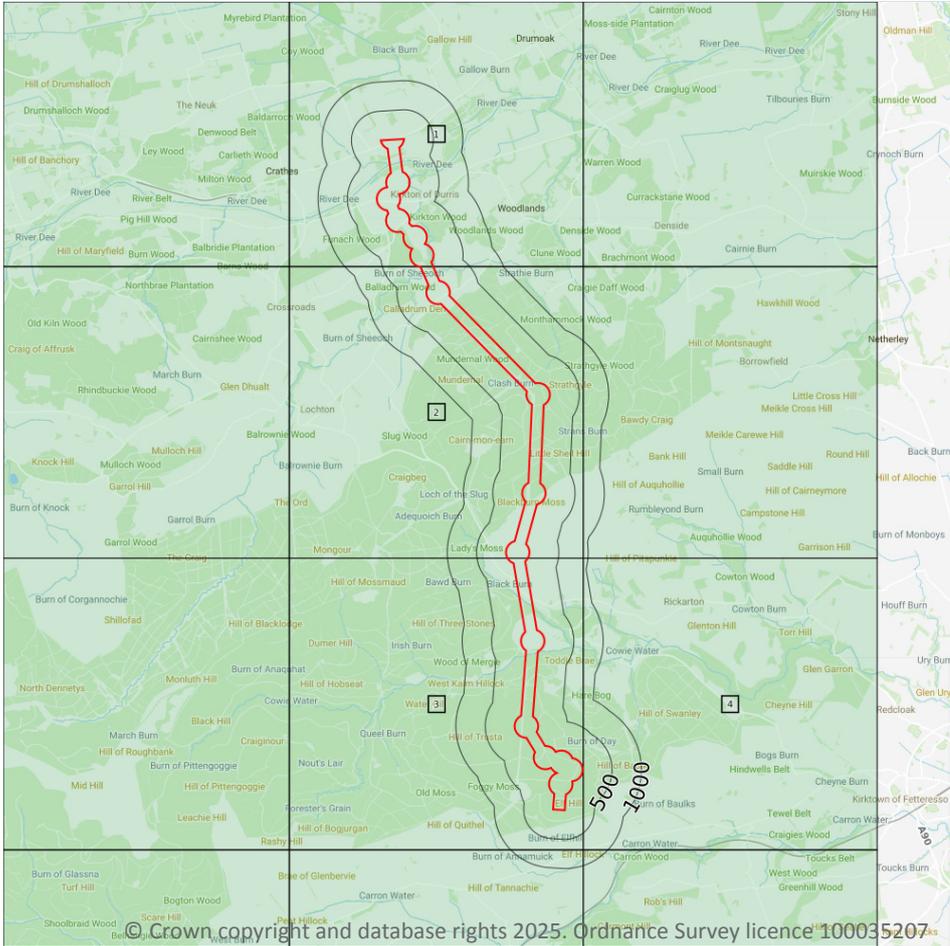


14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 65](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	NO79NE
2	On site	Full	Full	Full	Full	NO79SE
3	On site	Full	Full	Full	No coverage	NO78NE
4	10m E	Full	Full	Full	Full	NO88NW



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 4 September 2025

This data is sourced from the British Geological Survey.



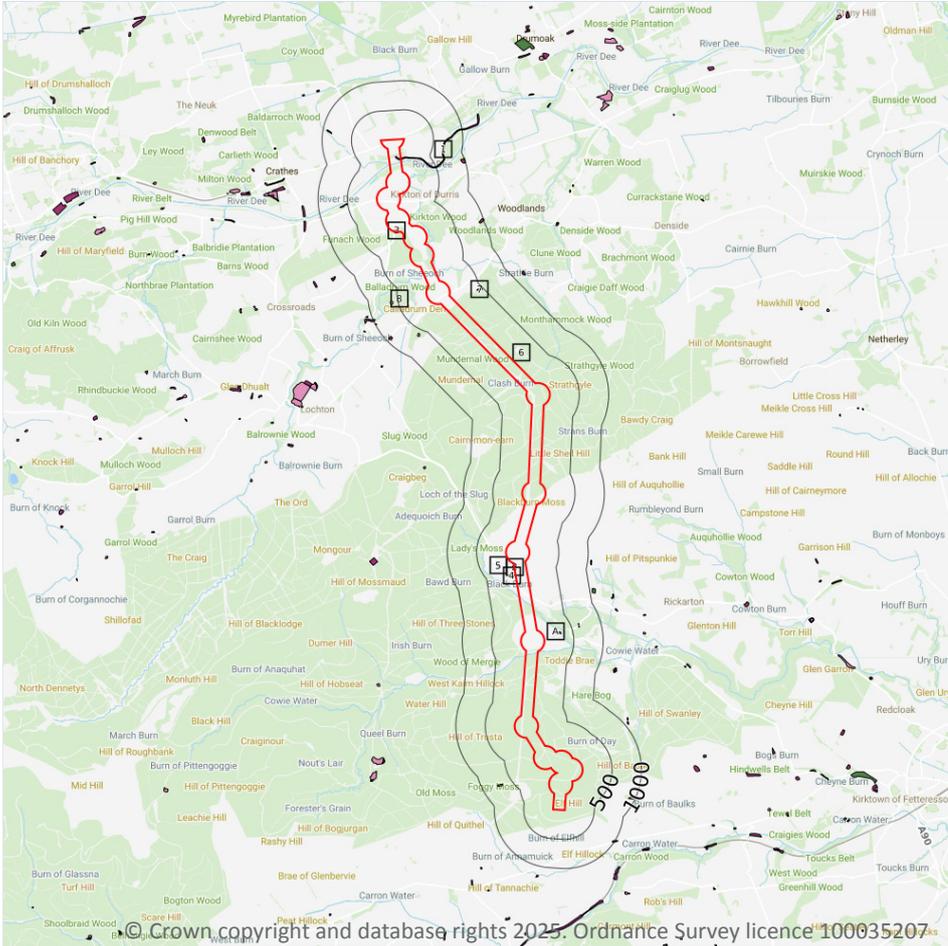
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 4 September 2025

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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

10

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 67](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	58m W	WGR-VOID	Worked Ground (Undivided)	Void

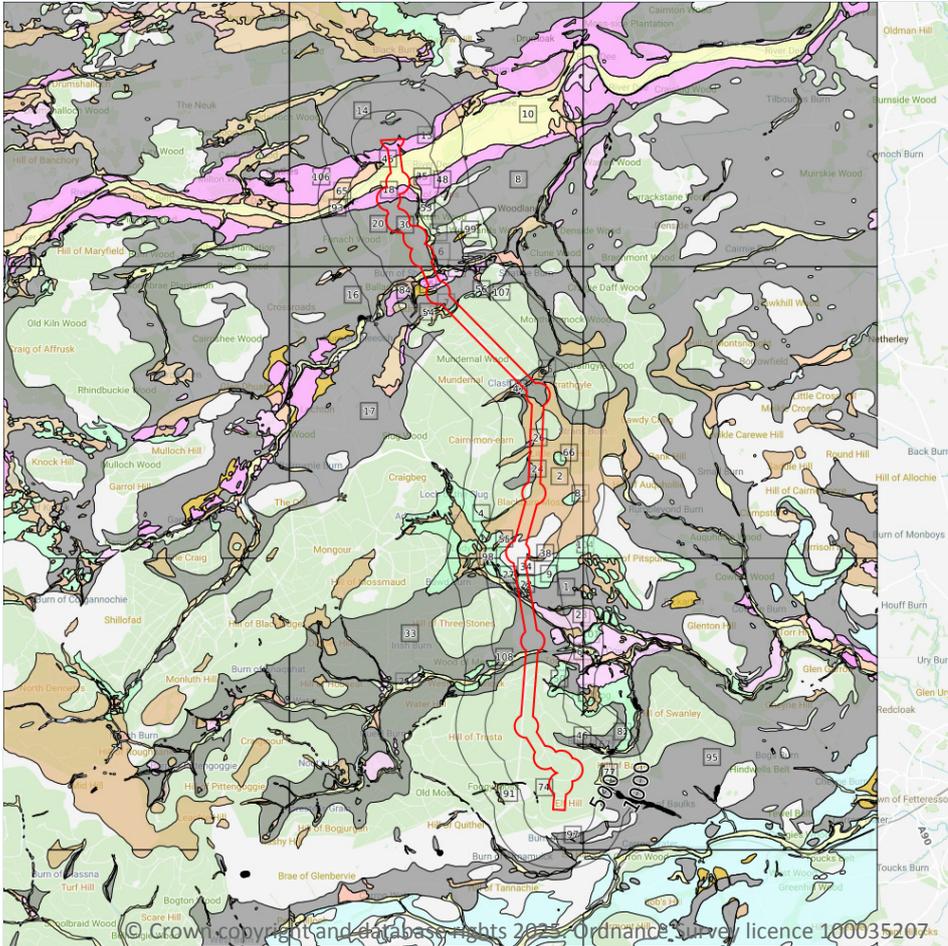


ID	Location	LEX Code	Description	Rock description
5	185m SW	WGR-VOID	Worked Ground (Undivided)	Void
6	187m NE	WGR-VOID	Worked Ground (Undivided)	Void
A	209m NE	WGR-VOID	Worked Ground (Undivided)	Void
A	279m E	WGR-VOID	Worked Ground (Undivided)	Void
7	402m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	452m W	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▨ Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

115

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 69 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
2	On site	PEAT-P	Peat - Peat	Peat
3	On site	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt



ID	Location	LEX Code	Description	Rock description
4	On site	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
5	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	On site	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
7	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
8	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
9	On site	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
10	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
11	On site	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
12	On site	PEAT-P	Peat - Peat	Peat
13	On site	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
14	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
15	On site	PEAT-P	Peat - Peat	Peat
16	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
17	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
18	On site	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
19	On site	ALF-XZSV	Alluvial Fan Deposits - Silt, Sand And Gravel	Silt, Sand And Gravel
20	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
21	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
22	On site	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
23	On site	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
24	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
25	On site	GDSI-XCZS	Glen Dye Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
26	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
27	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
28	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
29	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
30	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
31	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
32	On site	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
33	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
34	On site	PEAT-P	Peat - Peat	Peat
35	On site	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
36	On site	PEAT-P	Peat - Peat	Peat
37	On site	PEAT-P	Peat - Peat	Peat
38	On site	PEAT-P	Peat - Peat	Peat
39	15m NW	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
40	21m E	ALF-XZSV	Alluvial Fan Deposits - Silt, Sand And Gravel	Silt, Sand And Gravel
41	58m W	SUPNM- UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
42	63m NE	HMGD- XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
43	82m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
44	90m W	HMGD- XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
45	94m W	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
46	102m N	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
47	112m SW	PEAT-P	Peat - Peat	Peat
48	112m E	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
49	120m SW	HEAD- DMTN	Head - Diamicton	Diamicton
50	123m E	PEAT-P	Peat - Peat	Peat
51	127m E	PEAT-P	Peat - Peat	Peat



ID	Location	LEX Code	Description	Rock description
52	127m E	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
53	127m E	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
54	134m SW	PEAT-P	Peat - Peat	Peat
55	140m NW	PEAT-P	Peat - Peat	Peat
56	159m NE	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
57	165m N	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
58	174m SW	ALF-XZSV	Alluvial Fan Deposits - Silt, Sand And Gravel	Silt, Sand And Gravel
59	180m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
60	183m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
61	184m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
62	185m SW	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
63	194m N	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
64	200m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
65	210m NW	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
66	211m E	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
67	215m NE	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
68	218m SE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
69	221m E	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
70	227m E	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
71	242m W	HEAD-DMTN	Head - Diamicton	Diamicton
72	244m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
73	257m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
74	260m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
75	261m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
76	262m SW	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
77	262m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
78	265m W	PEAT-P	Peat - Peat	Peat
79	267m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
80	268m W	PEAT-P	Peat - Peat	Peat
81	273m SW	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
82	280m NE	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
83	303m E	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
84	308m W	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
85	320m NE	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
86	323m W	PEAT-P	Peat - Peat	Peat
87	332m NE	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
88	333m NE	PEAT-P	Peat - Peat	Peat
89	334m E	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
90	346m W	PEAT-P	Peat - Peat	Peat
91	361m SW	PEAT-P	Peat - Peat	Peat
92	362m E	PEAT-P	Peat - Peat	Peat
93	370m W	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
94	374m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
95	375m E	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
96	383m NE	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
97	383m S	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
98	392m W	PEAT-P	Peat - Peat	Peat



ID	Location	LEX Code	Description	Rock description
99	394m NE	GDSI-XCZS	Glen Dye Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
100	404m SW	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
101	412m E	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
102	412m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
103	417m W	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
104	434m E	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
105	436m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
106	441m W	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
107	444m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
108	449m W	HMGD-XDSV	Hummocky (moundy) Glacial Deposits - Diamicton, Sand And Gravel	Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
109	449m SW	PEAT-P	Peat - Peat	Peat
110	458m E	ALF-XZSV	Alluvial Fan Deposits - Silt, Sand And Gravel	Silt, Sand And Gravel
111	469m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
112	470m S	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
113	474m NE	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
114	483m NE	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
115	489m SW	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

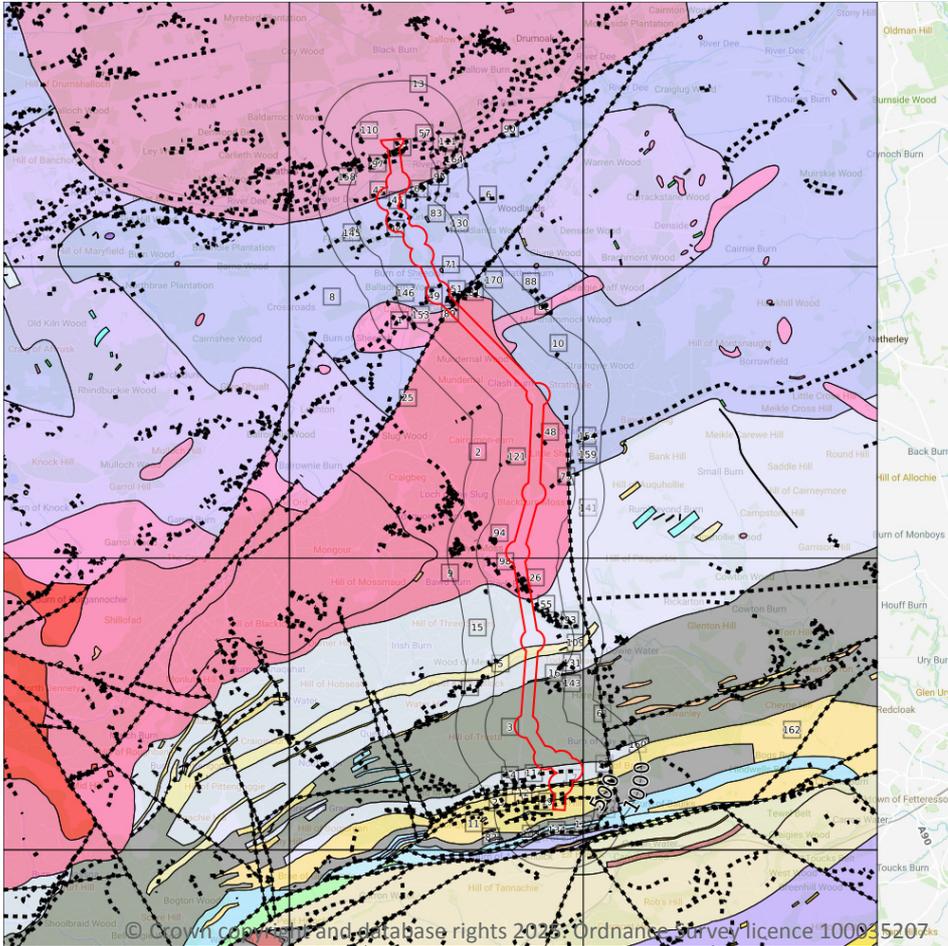
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

46

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 75 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	NEGRA-GNMBF	North-east Grampian Granitic Suite (ordovician) - Foliated-muscovite-biotite Granite	Ordovician Period
2	On site	MBAT7-GN	Water Of Dye Granite (mount Battock Pluton) - Granite	Early Devonian Epoch - Wenlock Epoch



ID	Location	LEX Code	Description	Rock age
3	On site	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
4	On site	GLGT-SPPM	Glen Lethnot Grit Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
5	On site	GLGT-PSAMM	Glen Lethnot Grit Formation - Psammite	Neoproterozoic Era
6	On site	QH-SPPP	Queen's Hill Formation - Semipelite, Psammite And Pelite	Neoproterozoic Era
7	On site	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
8	On site	QH-SPPP	Queen's Hill Formation - Semipelite, Psammite And Pelite	Neoproterozoic Era
9	On site	MBAT7-GN	Water Of Dye Granite (mount Battock Pluton) - Granite	Early Devonian Epoch - Wenlock Epoch
10	On site	ABDN-SPPS	Aberdeen Formation - Semipelite And Psammite	Neoproterozoic Era
11	On site	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
12	On site	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
13	On site	CRAT-GD	Crathes Pluton - Granodiorite	Early Devonian Epoch - Silurian Period
14	On site	GLGT-SPPM	Glen Lethnot Grit Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
15	On site	GES-SPPM	Glen Effock Schist Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
16	On site	GLGT-PEMAG	Glen Lethnot Grit Formation - Magnetic Pelite	Neoproterozoic Era
17	On site	GLGT-PSAMM	Glen Lethnot Grit Formation - Psammite	Neoproterozoic Era
56	10m E	GLGT-SPPM	Glen Lethnot Grit Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
59	35m NE	SDCAD-MCDIP	North Britain Siluro-devonian Calc-alkaline Dyke Suite - Porphyritic Microdiorite	Devonian Period - Silurian Period
61	42m NE	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
62	45m NE	NEGRA-GNMBF	North-east Grampian Granitic Suite (ordovician) - Foliated-muscovite-biotite Granite	Ordovician Period
70	81m SW	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era



ID	Location	LEX Code	Description	Rock age
71	82m NE	NEGRA-GNMBF	North-east Grampian Granitic Suite (ordovician) - Foliated-muscovite-biotite Granite	Ordovician Period
73	86m SE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
79	121m SE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
82	134m S	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
83	136m NE	QH-CALSIR	Queen's Hill Formation - Calcsilicate-rock	Neoproterozoic Era
88	152m NE	ABDN-SPPS	Aberdeen Formation - Semipelite And Psammite	Neoproterozoic Era
100	250m SE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
103	257m S	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
109	284m E	CSTD-MCQGB	Central Scotland Late Carboniferous Tholeiitic Dyke Swarm - Quartz-microgabbro	Silesian Sub-period [Obsolete name]
114	307m SW	SDCAD-FPMGN	North Britain Siluro-devonian Calc-alkaline Dyke Suite - Feldspar-phyric Microgranite	Devonian Period - Silurian Period
122	324m S	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
124	324m E	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
130	350m E	NEGRA-GNMBF	North-east Grampian Granitic Suite (ordovician) - Foliated-muscovite-biotite Granite	Ordovician Period
132	357m SW	SDCAD-FPMGN	North Britain Siluro-devonian Calc-alkaline Dyke Suite - Feldspar-phyric Microgranite	Devonian Period - Silurian Period
134	375m S	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
137	383m SE	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
141	396m E	GES-SPPM	Glen Effock Schist Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
147	421m SE	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
149	424m SW	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
150	425m E	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era



ID	Location	LEX Code	Description	Rock age
151	425m S	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
160	462m E	GLGT-SPPM	Glen Lethnot Grit Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
162	463m E	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
165	479m SE	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

128

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 75 >](#)

ID	Location	Category	Description
18	On site	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
19	On site	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
20	On site	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
21	On site	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
22	On site	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
23	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
25	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
26	On site	LANDFORM	Glacial overflow channel centre line branch
27	On site	LANDFORM	Glacial overflow channel centre line head
28	On site	LANDFORM	Crestline of elongate mound
29	On site	LANDFORM	Glacial overflow channel centre line
30	On site	LANDFORM	Kettle hole; closed hollow
31	On site	LANDFORM	Drumlin, form-line at base of mound



ID	Location	Category	Description
32	On site	LANDFORM	Crestline of elongate mound
33	On site	LANDFORM	Crestline of elongate mound
34	On site	LANDFORM	Crestline of elongate mound
35	On site	LANDFORM	Crestline of elongate mound
36	On site	LANDFORM	Crestline of elongate mound
37	On site	LANDFORM	Crestline of elongate mound
38	On site	LANDFORM	Drumlin, form-line at base of mound
39	On site	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
40	On site	LANDFORM	Glacial overflow channel centre line
41	On site	LANDFORM	Glacial overflow channel centre line
42	On site	LANDFORM	Glacial overflow channel centre line
43	On site	LANDFORM	Glacial overflow channel centre line
44	On site	LANDFORM	Glacial overflow channel centre line
45	On site	LANDFORM	Glacial overflow channel centre line
46	On site	LANDFORM	Glacial overflow channel centre line
47	On site	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
48	On site	LANDFORM	Glacial overflow channel centre line
49	On site	LANDFORM	Glacial overflow channel centre line
50	On site	LANDFORM	Crestline of elongate mound
51	On site	LANDFORM	Glacial overflow channel centre line
52	On site	LANDFORM	Drumlin, form-line at base of mound
53	On site	LANDFORM	Crestline of elongate mound
54	On site	LANDFORM	Glacial overflow channel centre line
55	8m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
57	17m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
58	21m SW	LANDFORM	Glacial overflow channel centre line
60	42m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
63	45m W	LANDFORM	Glacial overflow channel centre line



ID	Location	Category	Description
64	59m W	LANDFORM	Drumlin, form-line at base of mound
65	64m E	LANDFORM	Crestline of elongate mound
66	69m W	LANDFORM	Crestline of elongate mound
67	75m E	LANDFORM	Drumlin, form-line at base of mound
68	77m S	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
69	79m SE	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
72	86m SE	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
74	97m W	LANDFORM	Crestline of elongate mound
75	99m E	LANDFORM	Glacial overflow channel centre line
76	100m SE	LANDFORM	Glacial overflow channel centre line
77	112m E	LANDFORM	Glacial overflow channel centre line
78	119m W	LANDFORM	Glacial overflow channel centre line
80	121m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
81	128m NE	LANDFORM	Glacial overflow channel centre line
84	139m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
85	140m E	LANDFORM	Glacial overflow channel centre line
86	143m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
87	144m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
89	162m SW	LANDFORM	Glacial overflow channel centre line
90	174m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
91	196m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
92	203m E	LANDFORM	Kettle hole; closed hollow
93	217m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
94	218m NW	LANDFORM	Drumlin, form-line at base of mound
95	223m E	LANDFORM	Drumlin, form-line at base of mound
96	228m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
97	239m W	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
98	248m SW	LANDFORM	Glacial overflow channel centre line



ID	Location	Category	Description
99	250m W	LANDFORM	Crestline of elongate mound
101	250m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
102	253m SW	LANDFORM	Glacial overflow channel centre line branch
104	258m SW	LANDFORM	Glacial overflow channel centre line
105	270m NE	LANDFORM	Glacial overflow channel centre line
106	274m NE	LANDFORM	Glacial overflow channel centre line
107	278m NE	LANDFORM	Drumlin, form-line at base of mound
108	283m W	LANDFORM	Glacial overflow channel centre line
110	295m W	LANDFORM	Glacial overflow channel centre line
111	298m SE	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
112	299m NE	LANDFORM	Crestline of elongate mound
113	299m E	LANDFORM	Drumlin, form-line at base of mound
115	308m E	LANDFORM	Glacial overflow channel centre line
116	308m W	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
117	308m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
118	308m SW	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
119	316m W	LANDFORM	Kettle hole; closed hollow
120	317m E	LANDFORM	Drumlin, form-line at base of mound
121	318m W	LANDFORM	Glacial overflow channel centre line
123	324m W	LANDFORM	Glacial overflow channel centre line
125	326m W	LANDFORM	Glacial overflow channel centre line branch
126	332m E	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
127	343m SW	LANDFORM	Glacial overflow channel centre line
128	347m SW	LANDFORM	Glacial overflow channel centre line
129	348m SW	LANDFORM	Glacial meltwater channel margins
131	353m E	LANDFORM	Crestline of elongate mound
133	372m E	LANDFORM	Glacial overflow channel centre line
135	375m S	FAULT	Normal fault, inferred; crossmarks on downthrow side



ID	Location	Category	Description
136	383m SE	LANDFORM	Crestline of elongate mound
138	385m E	LANDFORM	Crestline of elongate mound
139	387m E	LANDFORM	Crestline of elongate mound
140	395m SW	LANDFORM	Glacial meltwater channel margins
142	398m SE	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
143	402m E	LANDFORM	Crestline of elongate mound
144	409m SW	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
145	415m SW	LANDFORM	Glacial overflow channel centre line
146	416m W	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
148	423m NE	LANDFORM	Crestline of elongate mound
152	428m SW	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
153	429m SW	LANDFORM	Glacial overflow channel centre line
154	432m E	ALTERATION_AREA	Limit of migmatisation; symbol towards migmatites
155	439m W	LANDFORM	Glacial overflow channel centre line
156	446m W	LANDFORM	Crestline of elongate mound
157	453m SW	LANDFORM	Glacial overflow channel centre line
158	454m W	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
159	458m E	FOLD_AXIS	Trace of upper hinge of major monocline; barbs on steep limb
161	462m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
163	470m N	LANDFORM	Glacial overflow channel centre line
164	478m NE	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
166	479m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
167	480m E	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
168	481m SW	LANDFORM	Glacial overflow channel centre line
169	483m W	LANDFORM	Drumlin, form-line at base of mound
170	485m NE	LANDFORM	Glacial overflow channel centre line
171	488m SW	LANDFORM	Form line
172	489m SW	LANDFORM	Glacial overflow channel centre line branch

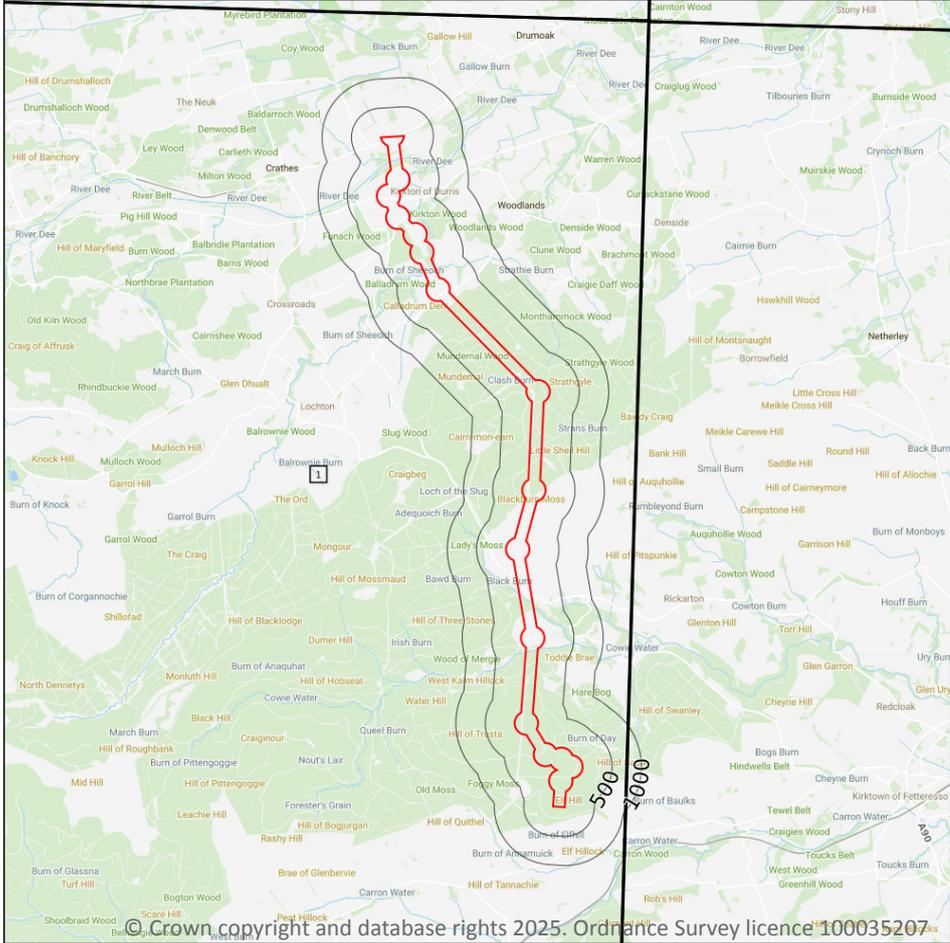


ID	Location	Category	Description
173	492m NE	LANDFORM	Glacial overflow channel centre line
174	495m W	LANDFORM	Small fluted deposit, aligned in direction of ice-movement

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

1 Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 84](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SC066e_Banchory_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

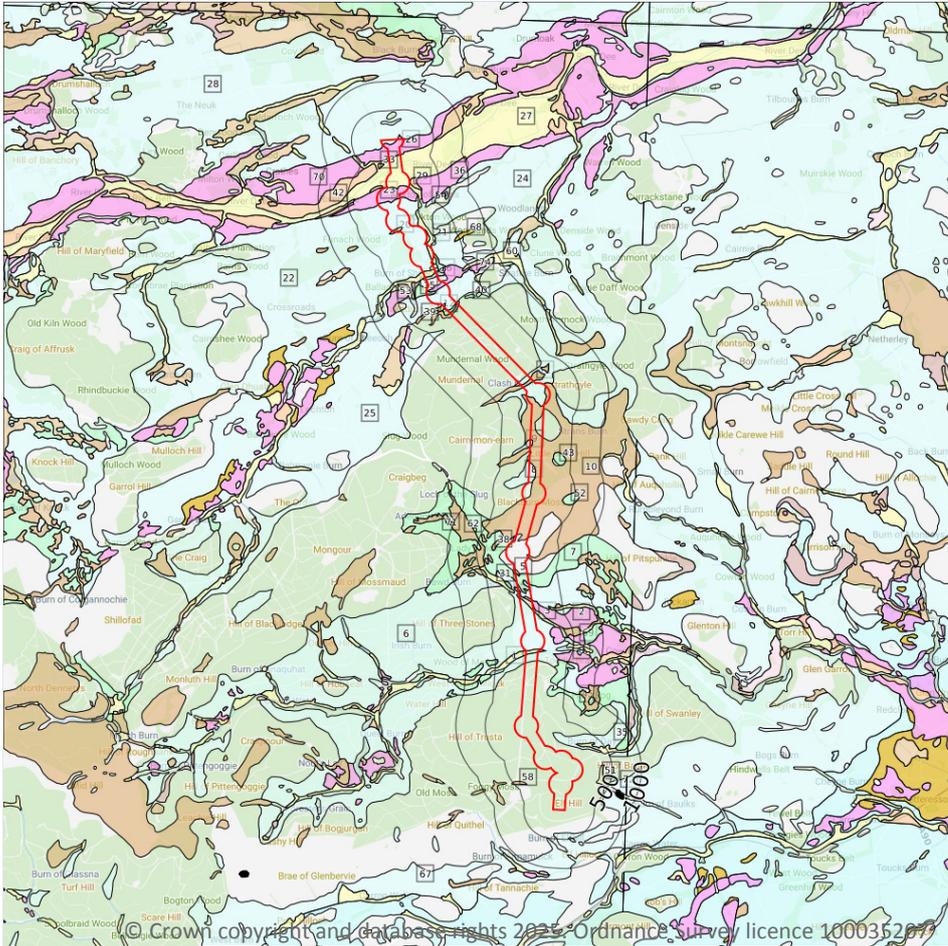
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

77

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 86](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
3	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	On site	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
5	On site	PEAT-P	PEAT	PEAT
6	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
7	On site	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
8	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
9	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
10	On site	PEAT-P	PEAT	PEAT
11	On site	PEAT-P	PEAT	PEAT
12	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
13	On site	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
14	On site	PEAT-P	PEAT	PEAT
15	On site	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
16	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
17	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
18	On site	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
19	On site	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
20	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
21	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
22	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
23	On site	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
24	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
25	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
26	On site	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
27	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
28	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
29	4m E	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT



ID	Location	LEX Code	Description	Rock description
30	13m NW	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT
31	64m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
32	93m SW	HEAD-XVSZC	HEAD	GRAVEL, SAND, SILT AND CLAY
33	98m W	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT
34	101m W	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
35	109m N	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
36	117m E	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
37	119m E	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
38	143m NW	PEAT-P	PEAT	PEAT
39	154m SW	PEAT-P	PEAT	PEAT
40	160m NE	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
41	199m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
42	203m NW	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT
43	206m E	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
44	206m N	PEAT-P	PEAT	PEAT
45	211m E	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
46	222m SE	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
47	247m W	PEAT-P	PEAT	PEAT
48	248m W	HEAD-XVSZC	HEAD	GRAVEL, SAND, SILT AND CLAY
49	257m E	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
50	267m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
51	279m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
52	298m E	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
53	305m W	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
54	323m NE	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
55	323m W	PEAT-P	PEAT	PEAT
56	325m NE	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
57	347m E	PEAT-P	PEAT	PEAT
58	353m SW	PEAT-P	PEAT	PEAT
59	357m NE	PEAT-P	PEAT	PEAT
60	359m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
61	361m E	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
62	362m W	PEAT-P	PEAT	PEAT
63	363m W	PEAT-P	PEAT	PEAT
64	373m E	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
65	382m W	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT
66	385m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
67	389m S	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
68	406m NE	GDSI-XCZS	GLEN DYE SILTS FORMATION	CLAY, SILT AND SAND
69	407m E	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
70	423m W	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
71	433m W	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
72	448m E	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
73	453m SW	PEAT-P	PEAT	PEAT
74	463m NE	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
75	463m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
76	465m W	HMGD-XDSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS	DIAMICTON, SAND AND GRAVEL
77	495m E	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

22

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
4m E	Intergranular	Very High	Moderate
13m NW	Intergranular	Very High	Moderate
18m SE	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.



15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

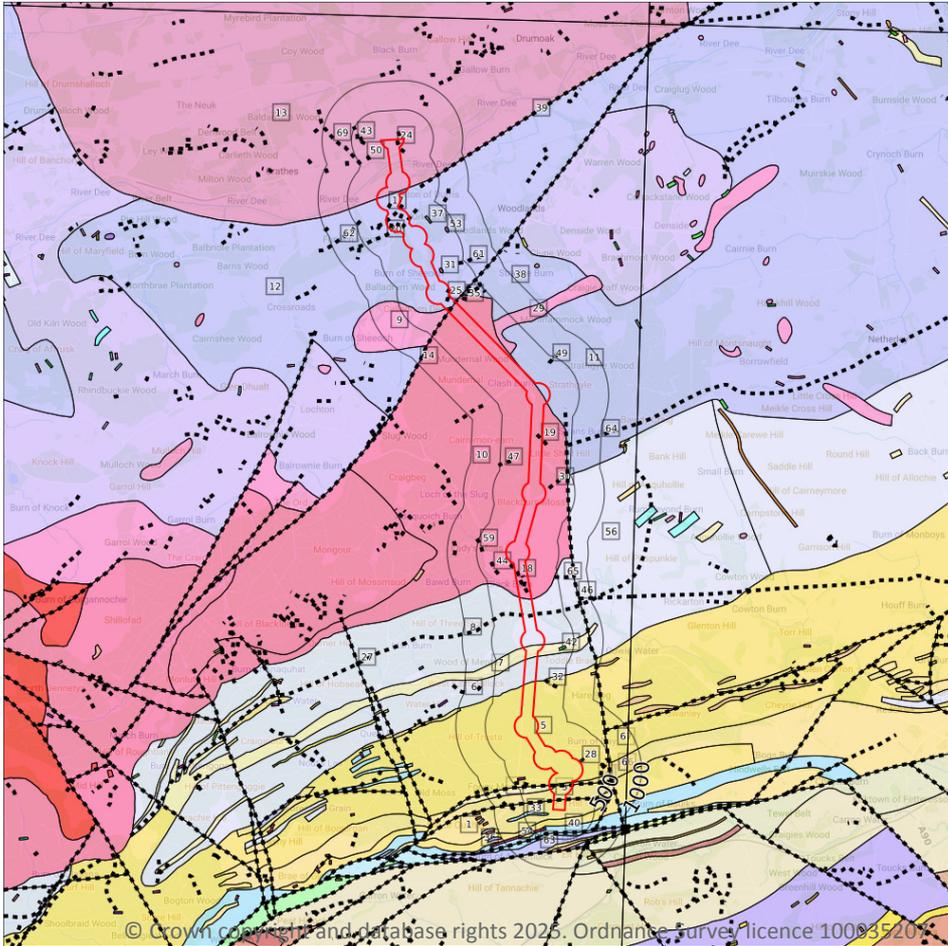
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

31

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 92 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
2	On site	GLGT-PSAMM	GLEN LETHNOT GRIT FORMATION - PSAMMITE	-



ID	Location	LEX Code	Description	Rock age
3	On site	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
4	On site	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
5	On site	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-
6	On site	GLGT-SPPM	GLEN LETHNOT GRIT FORMATION - SEMIPELITE AND MICACEOUS PSAMMITE	-
7	On site	GLGT-PSAMM	GLEN LETHNOT GRIT FORMATION - PSAMMITE	-
8	On site	GES-SPPM	GLEN EFOCK SCHIST FORMATION - SEMIPELITE AND MICACEOUS PSAMMITE	-
9	On site	NEGRA-GNMBF	NORTH-EAST GRAMPIAN GRANITIC SUITE (ORDOVICIAN) - GRANITE, FOLIATED-MUSCOVITE-BIOTITE	-
10	On site	MBAT7-GN	WATER OF DYE GRANITE (MOUNT BATTOCK PLUTON) - GRANITE	-
11	On site	ABDN-SPPS	ABERDEEN FORMATION - SEMIPELITE AND PSAMMITE	-
12	On site	QH-SPPP	QUEEN'S HILL FORMATION - SEMIPELITE, PSAMMITE AND PELITE	-
13	On site	CRAT-GD	CRATHES PLUTON - GRANODIORITE	-
28	12m NE	SDCAD-MCDIP	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICRODIORITE, PORPHYRITIC	-
29	38m NE	NEGRA-GNMBF	NORTH-EAST GRAMPIAN GRANITIC SUITE (ORDOVICIAN) - GRANITE, FOLIATED-MUSCOVITE-BIOTITE	-
31	74m NE	NEGRA-GNMBF	NORTH-EAST GRAMPIAN GRANITIC SUITE (ORDOVICIAN) - GRANITE, FOLIATED-MUSCOVITE-BIOTITE	-
33	109m SW	GLGT-PESP	GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE	-
36	137m S	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-
37	154m NE	QH-CALSIR	QUEEN'S HILL FORMATION - CALCSILICATE-ROCK	-
38	165m NE	ABDN-SPPS	ABERDEEN FORMATION - SEMIPELITE AND PSAMMITE	-
40	263m S	GLGT-PESP	GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE	-
42	265m E	CSTD-MCQGB	CENTRAL SCOTLAND LATE CARBONIFEROUS THOLEIITIC DYKE SWARM - QUARTZ-MICROGABBRO	-



ID	Location	LEX Code	Description	Rock age
45	286m SW	SDCAD-FPMGN	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICROGRANITE, FELDSPAR-PHYRIC	-
53	332m E	NEGRA-GNMBF	NORTH-EAST GRAMPIAN GRANITIC SUITE (ORDOVICIAN) - GRANITE, FOLIATED-MUSCOVITE-BIOTITE	-
54	336m S	SDCAD-FPMGN	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICROGRANITE, FELDSPAR-PHYRIC	-
56	381m E	GES-SPPM	GLEN EFFOCK SCHIST FORMATION - SEMIPELITE AND MICACEOUS PSAMMITE	-
57	385m S	GLGT-PESP	GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE	-
60	410m SE	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-
63	433m S	GLGT-PEPH	GLEN LETHNOT GRIT FORMATION - PELITE, PHYLLITIC	-
66	456m E	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
67	457m E	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

12

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
10m E	Fracture	Low	Low
12m NE	Fracture	Low	Low
38m NE	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	38
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Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 92 >](#)

ID	Location	Category	Description
14	On site	FAULT	Fault, inferred, displacement unknown
15	On site	FAULT	Fault, inferred, displacement unknown
16	On site	FAULT	Fault, inferred, displacement unknown
17	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
18	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
19	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
20	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
21	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
22	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
23	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
24	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
25	On site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
26	On site	LANDFORM	Glacial meltwater channel centre line (tail)
27	On site	ALTERATION_AREA	Margin of contact metamorphic aureole
30	72m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
32	101m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated

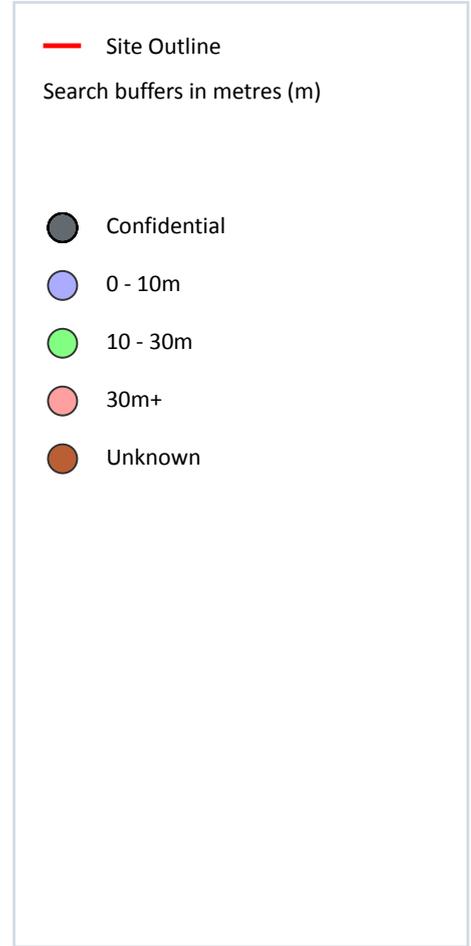
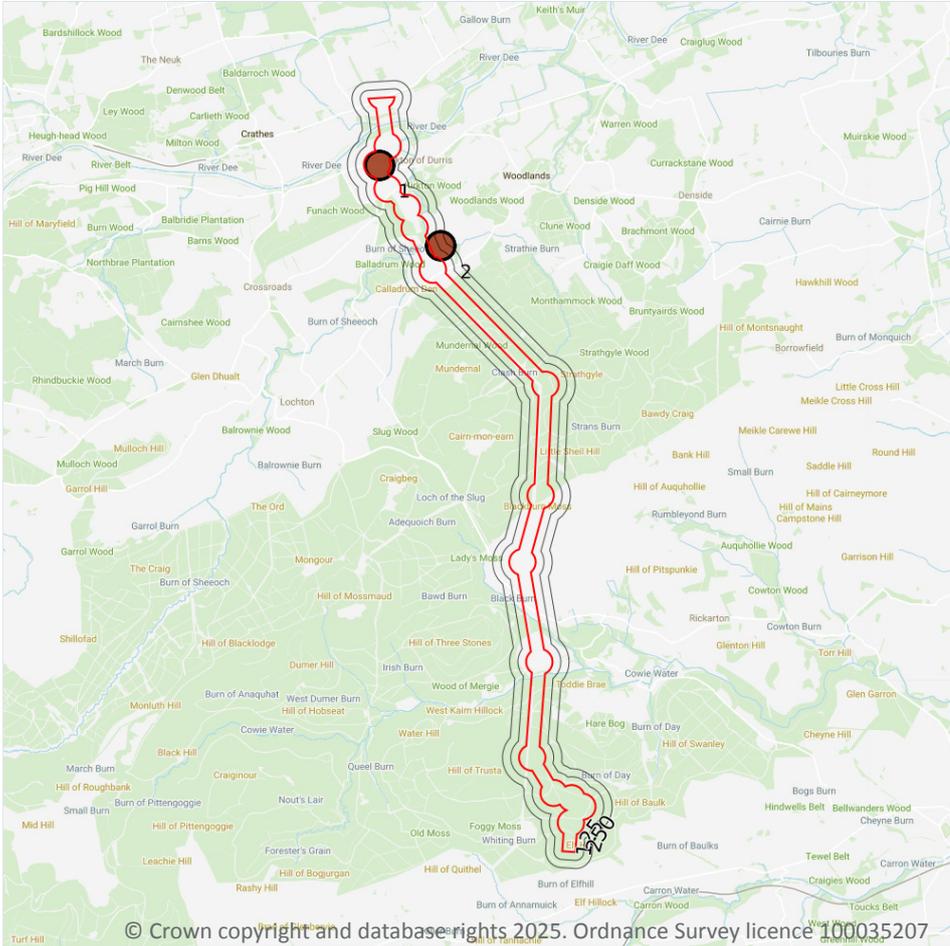


ID	Location	Category	Description
34	113m W	LANDFORM	Glacial meltwater channel centre line (tail)
35	129m NE	LANDFORM	Glacial meltwater channel centre line, undifferentiated
39	188m E	FAULT	Fault, inferred, displacement unknown
41	263m NE	LANDFORM	Glacial meltwater channel centre line, undifferentiated
43	274m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated
44	279m SW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
46	309m SE	FAULT	Fault, inferred, displacement unknown
47	311m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated
48	318m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
49	319m N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
50	329m SW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
51	329m W	LANDFORM	Glacial meltwater channel centre line (tail)
52	332m E	LANDFORM	Glacial meltwater channel centre line (tail)
55	353m SW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
58	385m S	FAULT	Fault, inferred, displacement unknown
59	402m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated
61	411m NE	LANDFORM	Esker crestline
62	411m SW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
64	438m E	ALTERATION_AREA	Limit of migmatisation
65	446m E	FOLD_AXIS	Axial plane trace of major antiform
68	484m NE	LANDFORM	Glacial meltwater channel centre line, undifferentiated
69	492m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated

This data is sourced from the British Geological Survey.



16 Boreholes



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16.1 BGS Boreholes

Records within 250m

2

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

Features are displayed on the Boreholes map on [page 97](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	376720 796150	WESTER DURRIS	-1.0	N	628056 ↗
2	155m NE	377650 794920	LITTLE TULLOCH, DURRIS	-1.0	N	607997 ↗



This data is sourced from the British Geological Survey.



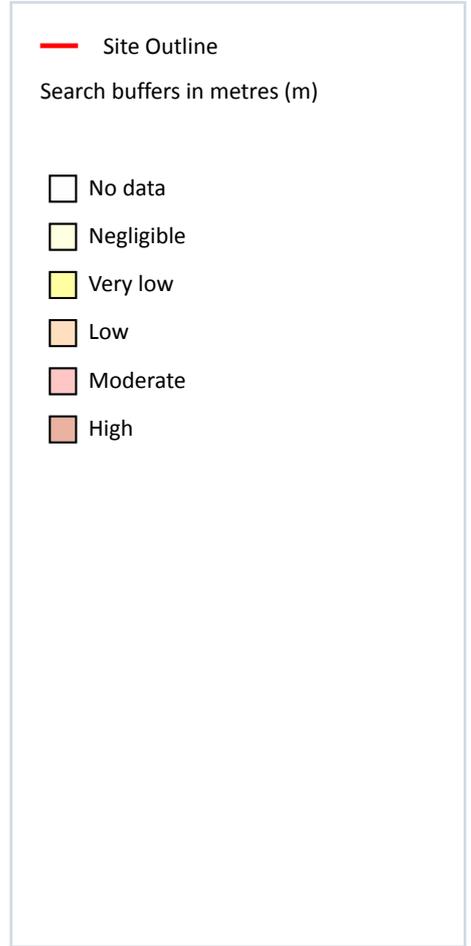
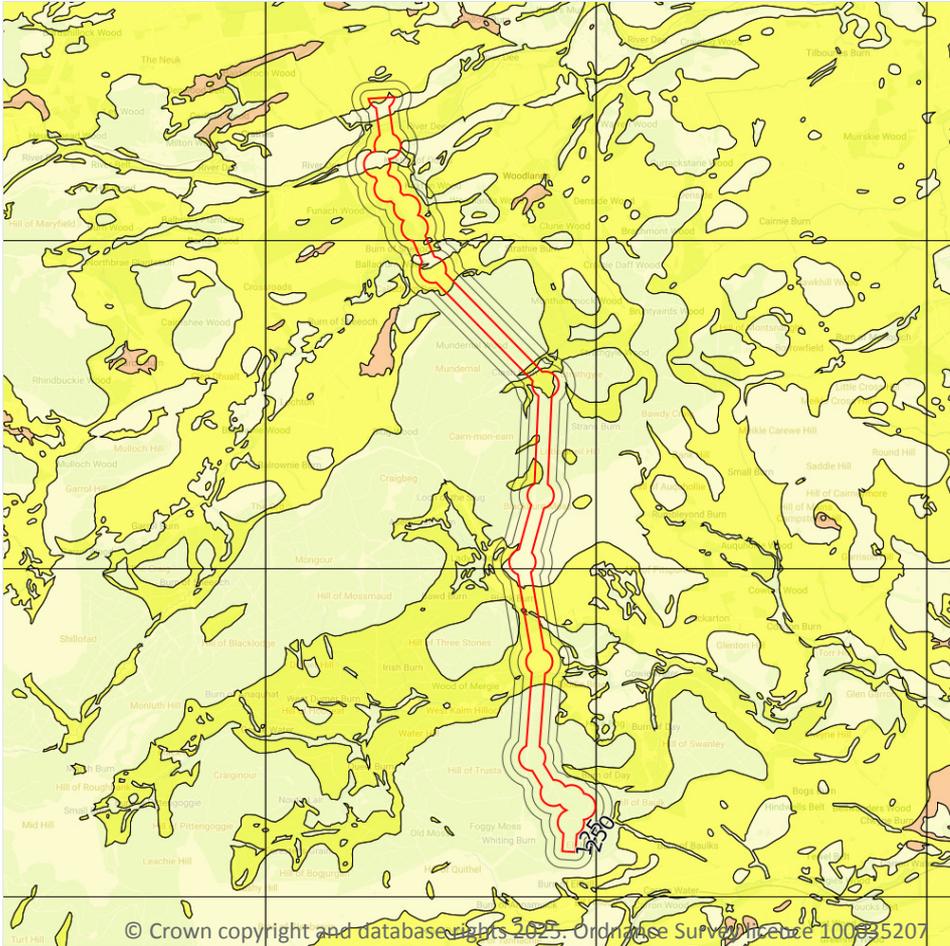
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 4 September 2025

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

5

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 99 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
4m E	Negligible	Ground conditions predominantly non-plastic.

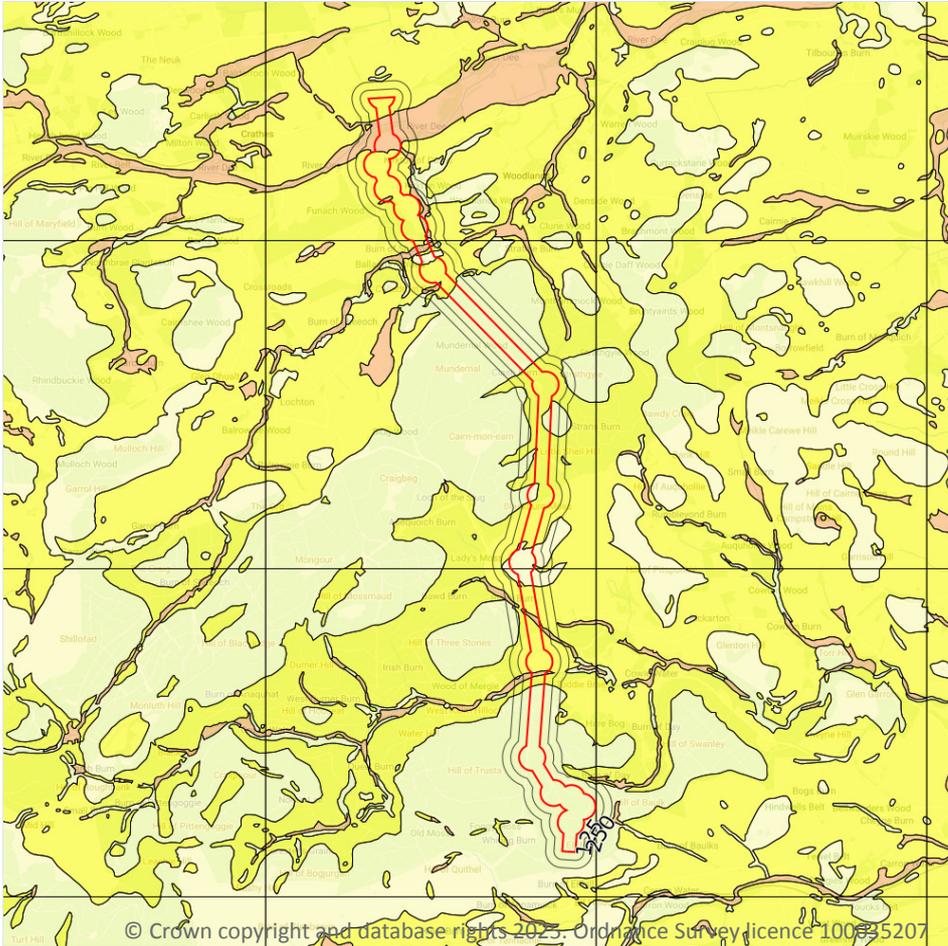


Location	Hazard rating	Details
10m E	Negligible	Ground conditions predominantly non-plastic.
48m NE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m

6

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 101](#) >

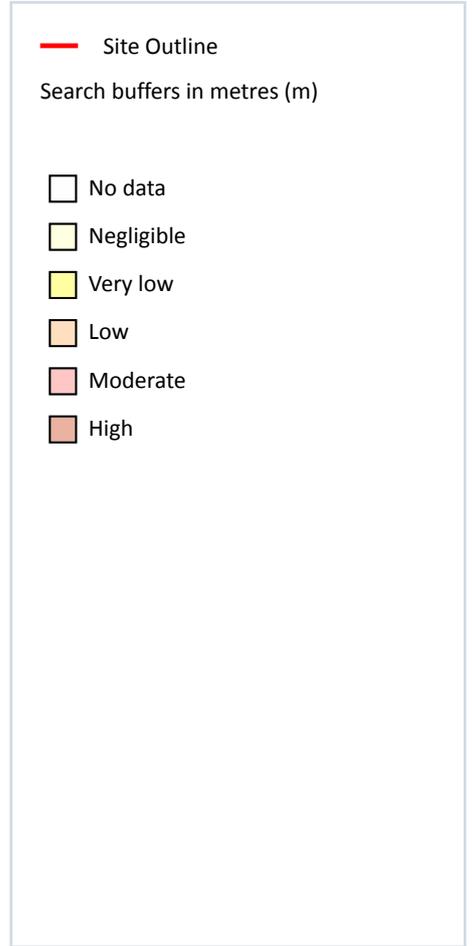
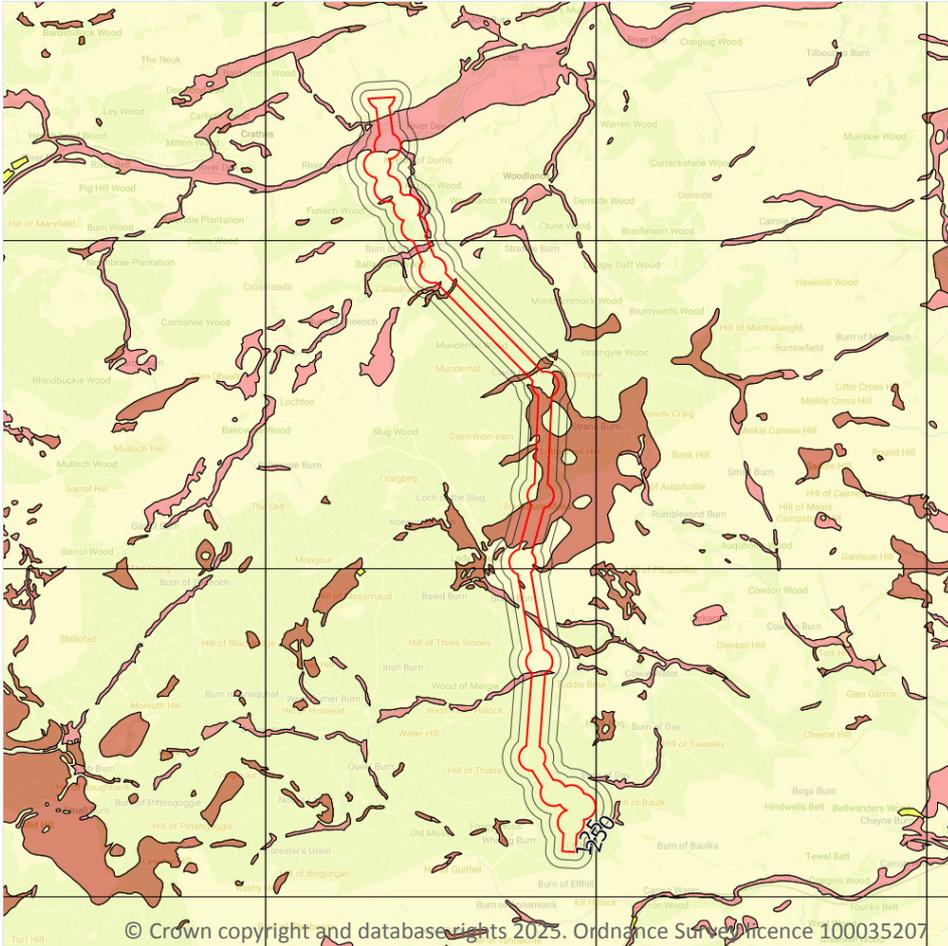
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
10m E	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
18m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
48m NE	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

5

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 103](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

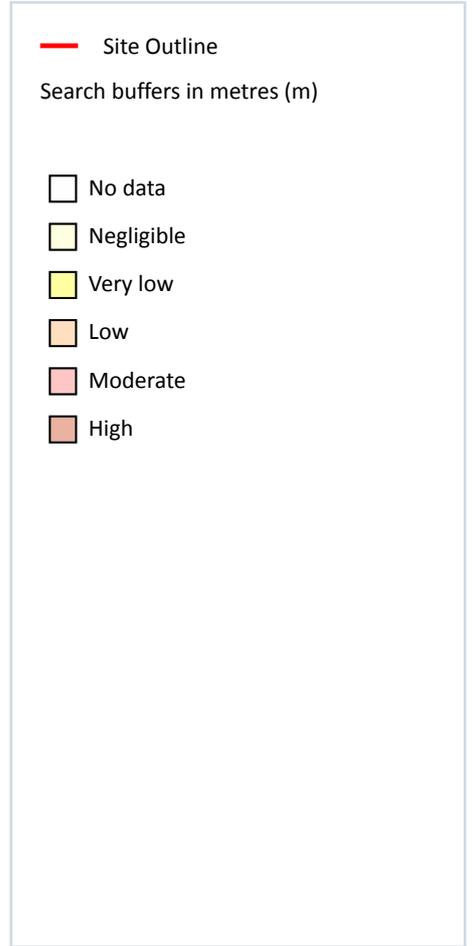
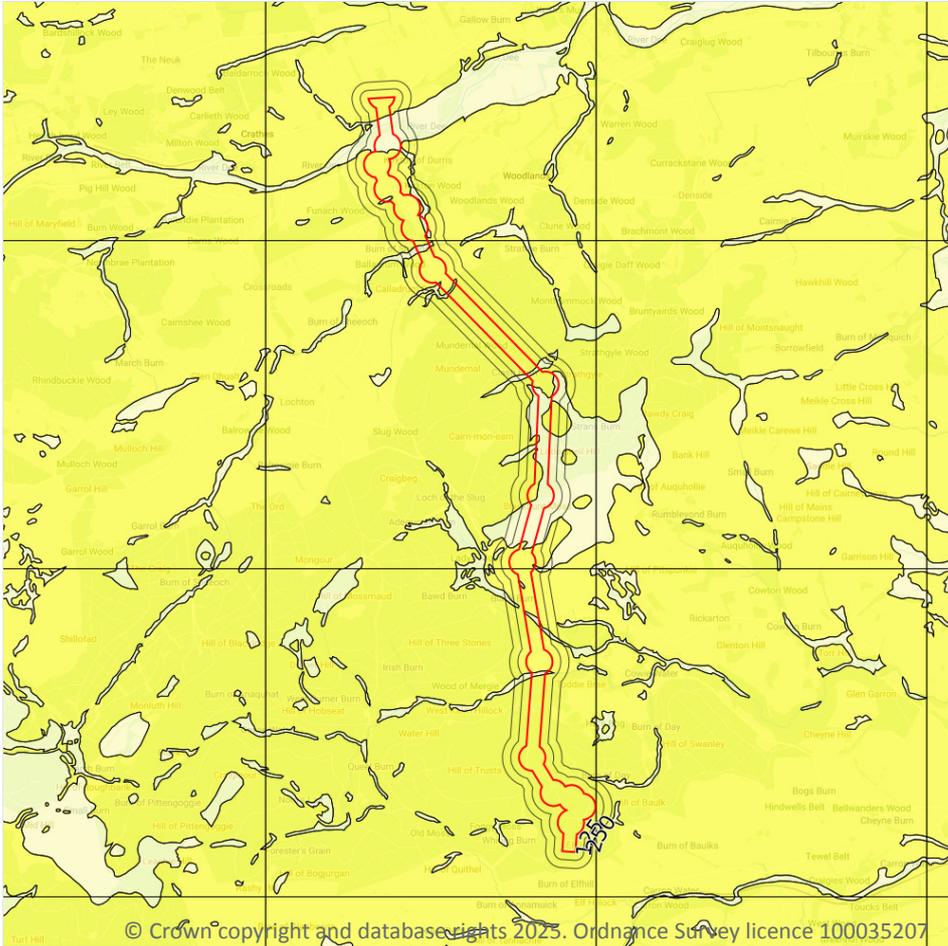


Location	Hazard rating	Details
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
10m E	Negligible	Compressible strata are not thought to occur.
18m SE	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

4

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

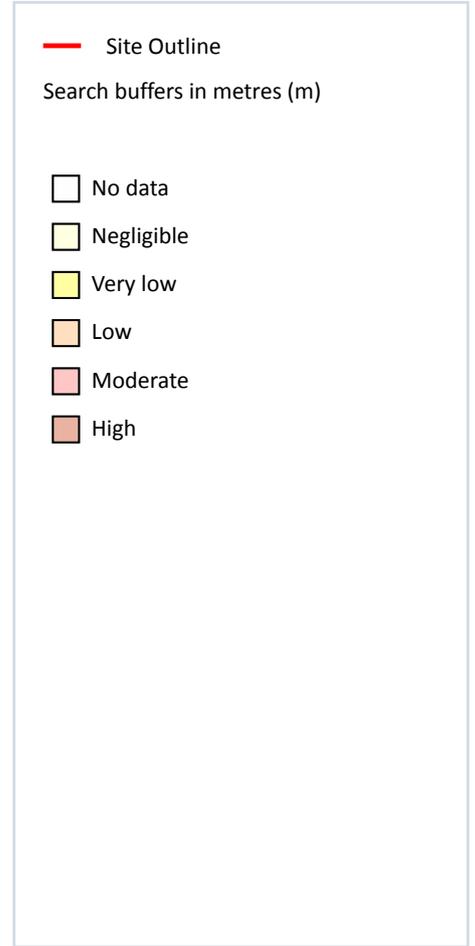
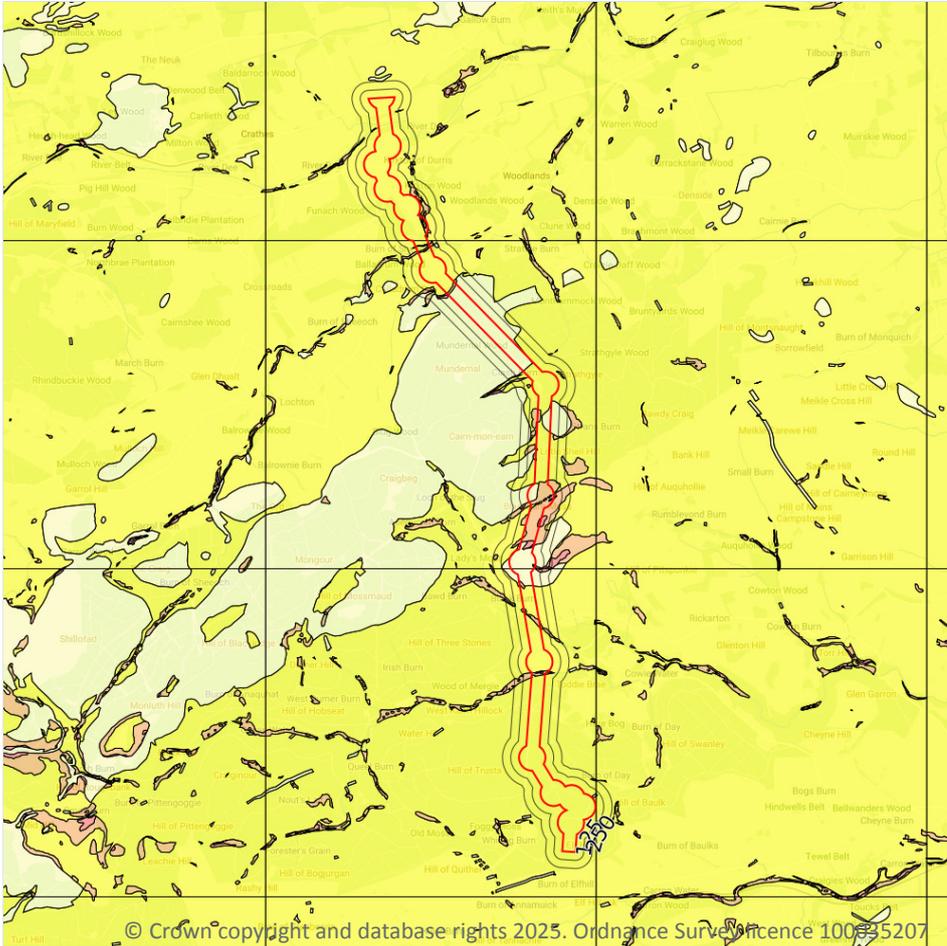
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 105 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
10m E	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

Location	Hazard rating	Details
18m SE	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

17

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 107 >](#)

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

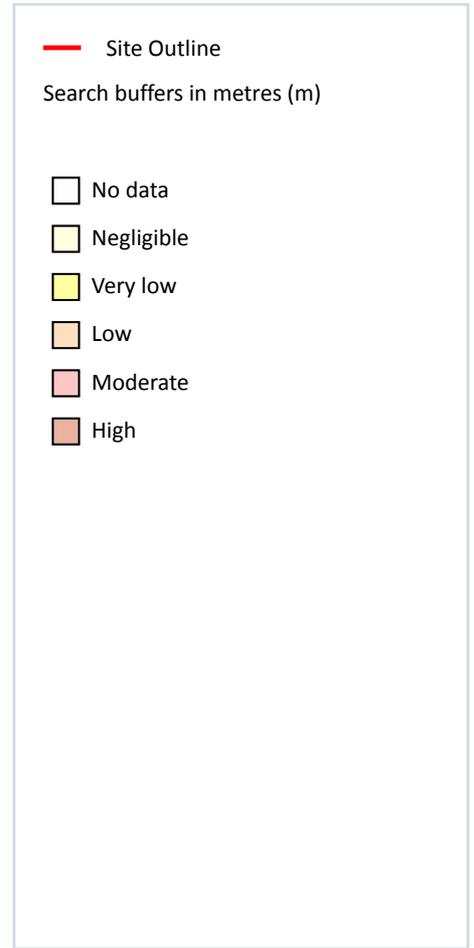
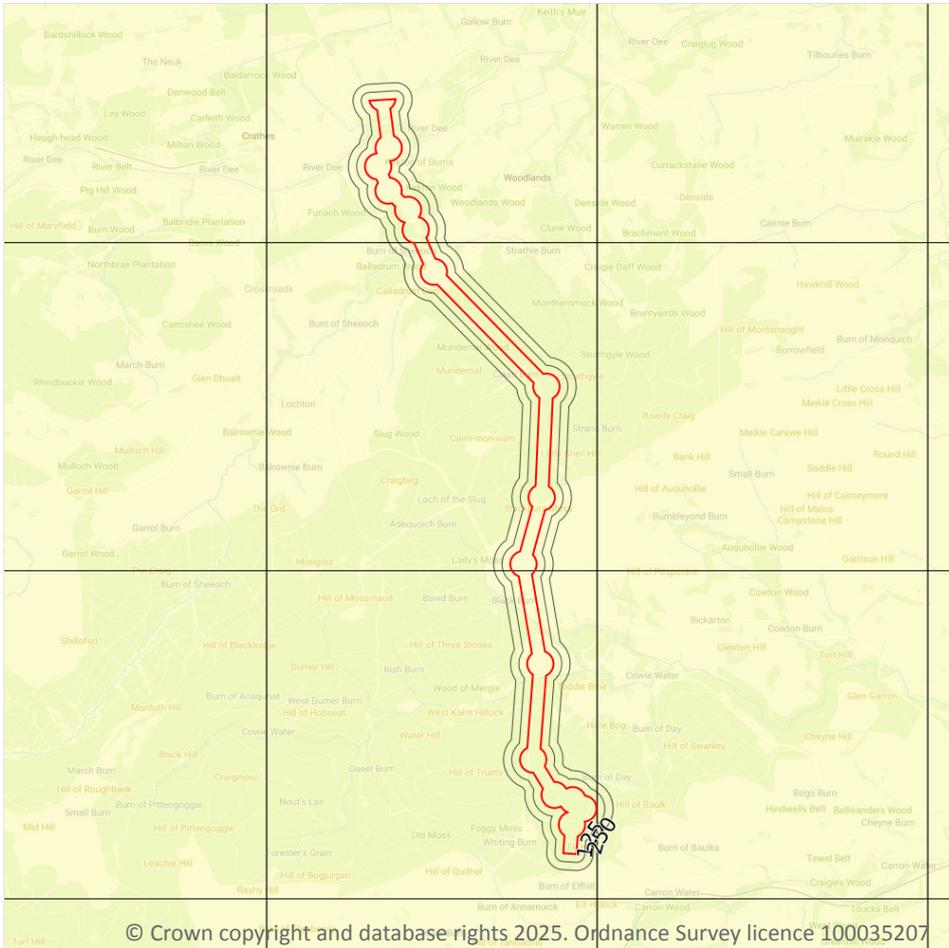


Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
10m E	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
12m NE	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
12m SE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
13m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
13m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
17m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
18m SE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
33m NE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
36m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
36m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
49m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
50m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
50m NE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 109](#) >

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

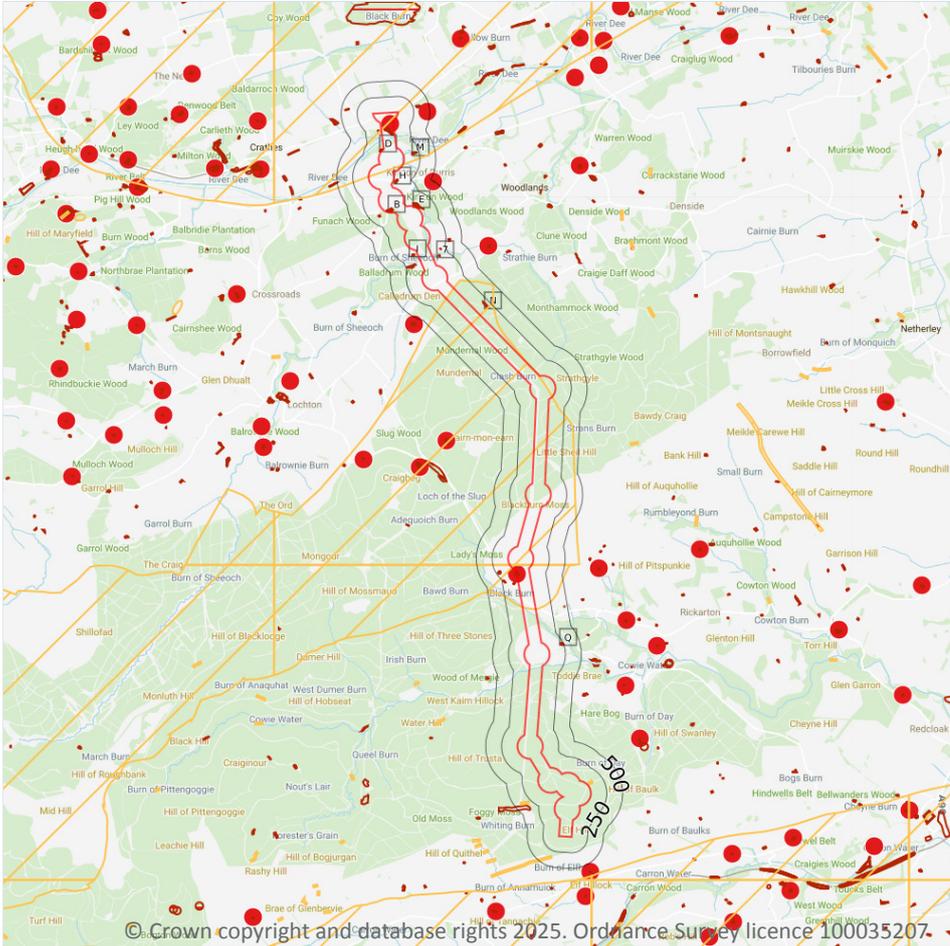


Location	Hazard rating	Details
10m E	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



18.1 BritPits

Records within 500m

5

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

Features are displayed on the Mining and ground workings map on [page 111](#) >

ID	Location	Details	Description
1	On site	Name: Nether Park Quarry Address: Drumoak, BANCHORY, Aberdeenshire, AB31 5AD Commodity: Sand & Gravel Status: Active	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals
A	On site	Name: Craigneil Address: Slug Road, Rickarton, STONEHAVEN, Kincardineshire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
O	199m SW	Name: Craigneil Gravel Pit Address: Slug Road, Rickarton, STONEHAVEN, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
15	463m E	Name: Netherpark Quarry Address: Drumoak, BANCHORY, Aberdeenshire Commodity: Sand & Gravel Status: Inactive	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which is not currently extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered 'Mothballed' by operator. May be considered to have 'Active' or 'Dormant' planning permission by the Mineral Planning Authority



ID	Location	Details	Description
T	499m NE	Name: Kirkton of Durris Address: Kirkton of Durris, BANCHORY, Kincardineshire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

67

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

Features are displayed on the Mining and ground workings map on [page 111](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Unspecified Ground Workings	1956	1:10560
A	On site	Unspecified Quarry	1927	1:10560
A	On site	Unspecified Quarry	1981	1:10000
B	On site	Pond	1923	1:10560
B	On site	Water Body	1956	1:10560
B	On site	Water Body	1928	1:10560
B	On site	Unspecified Heap	1902	1:10560
B	On site	Pond	1902	1:10560
B	On site	Pond	1887	1:10560
B	On site	Unspecified Heap	1904	1:10560
B	On site	Pond	1904	1:10560
B	On site	Unspecified Heap	1899	1:10560
B	On site	Pond	1899	1:10560
B	On site	Unspecified Heap	1904	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Pond	1904	1:10560
B	On site	Unspecified Heap	1899	1:10560
B	On site	Pond	1899	1:10560
C	On site	Unspecified Heap	1987	1:10000
C	On site	Unspecified Heap	1969	1:10560
D	7m NW	Pond	1923	1:10560
D	9m NW	Pond	1887	1:10560
E	11m NE	Pond	1887	1:10560
E	14m NE	Water Body	1987	1:10000
E	14m NE	Water Body	1969	1:10560
E	19m NE	Water Body	1899	1:10560
E	19m NE	Water Body	1899	1:10560
E	21m NE	Water Body	1928	1:10560
E	24m NE	Water Body	1902	1:10560
E	25m NE	Water Body	1956	1:10560
E	27m NE	Water Body	1904	1:10560
E	27m NE	Water Body	1904	1:10560
G	37m W	Gravel Pit	1956	1:10560
G	38m W	Gravel Pit	1928	1:10560
H	38m E	Pond	1887	1:10560
H	38m E	Water Body	1928	1:10560
H	39m E	Water Body	1956	1:10560
I	48m SW	Refuse Heap	1904	1:10560
I	48m SW	Refuse Heap	1904	1:10560
J	55m W	Unspecified Pit	1981	1:10000
J	66m W	Unspecified Quarry	1927	1:10560
6	93m SW	Unspecified Pit	1956	1:10560
7	93m NE	Unspecified Heap	1956	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
K	101m SW	Gravel Pit	1928	1:10560
K	102m SW	Gravel Pit	1956	1:10560
L	116m SW	Unspecified Pit	1923	1:10560
M	134m E	Pond	1887	1:10560
M	137m E	Pond	1923	1:10560
M	139m E	Pond	1899	1:10560
M	139m E	Pond	1899	1:10560
M	140m E	Pond	1987	1:10000
M	140m E	Pond	1969	1:10560
L	141m SW	Unspecified Heap	1956	1:10560
M	149m E	Pond	1902	1:10560
M	150m E	Pond	1904	1:10560
M	150m E	Pond	1904	1:10560
N	157m NE	Unspecified Ground Workings	1956	1:10560
8	160m NE	Refuse Heap	1956	1:10560
N	161m NE	Unspecified Ground Workings	1904	1:10560
O	179m SW	Unspecified Pit	1981	1:10000
O	182m SW	Gravel Pit	1927	1:10560
P	196m W	Pond	1864	1:10560
O	198m SW	Gravel Pit	1902	1:10560
Q	206m NE	Water Body	1927	1:10560
Q	206m NE	Water Body	1902	1:10560
P	210m W	Water Body	1902	1:10560
Q	212m NE	Unspecified Pit	1981	1:10000
Q	215m NE	Pond	1864	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

11

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

Features are displayed on the Mining and ground workings map on [page 111](#) >

ID	Location	Name	Commodity	Class	Likelihood
3	On site	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
4	On site	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
5	On site	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	12m NE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	65m NE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
9	286m SW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	336m S	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
18	680m S	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
19	686m S	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
20	693m SE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
22	749m SE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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

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

18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site

0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



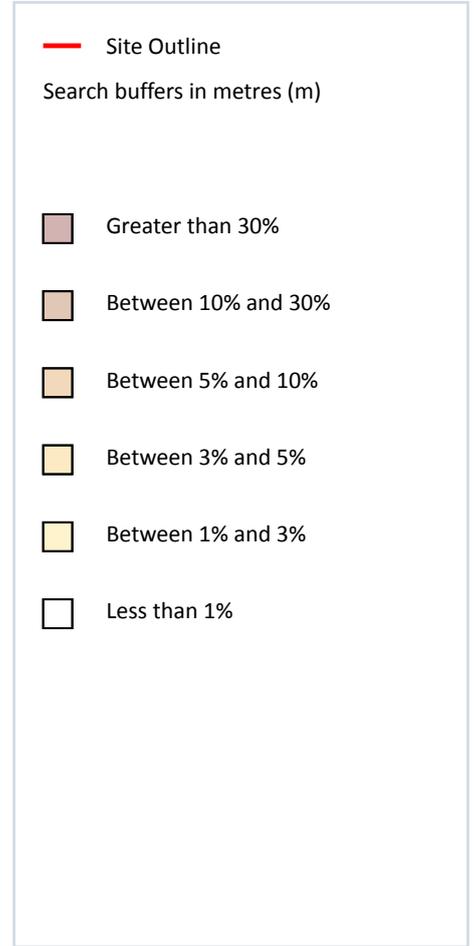
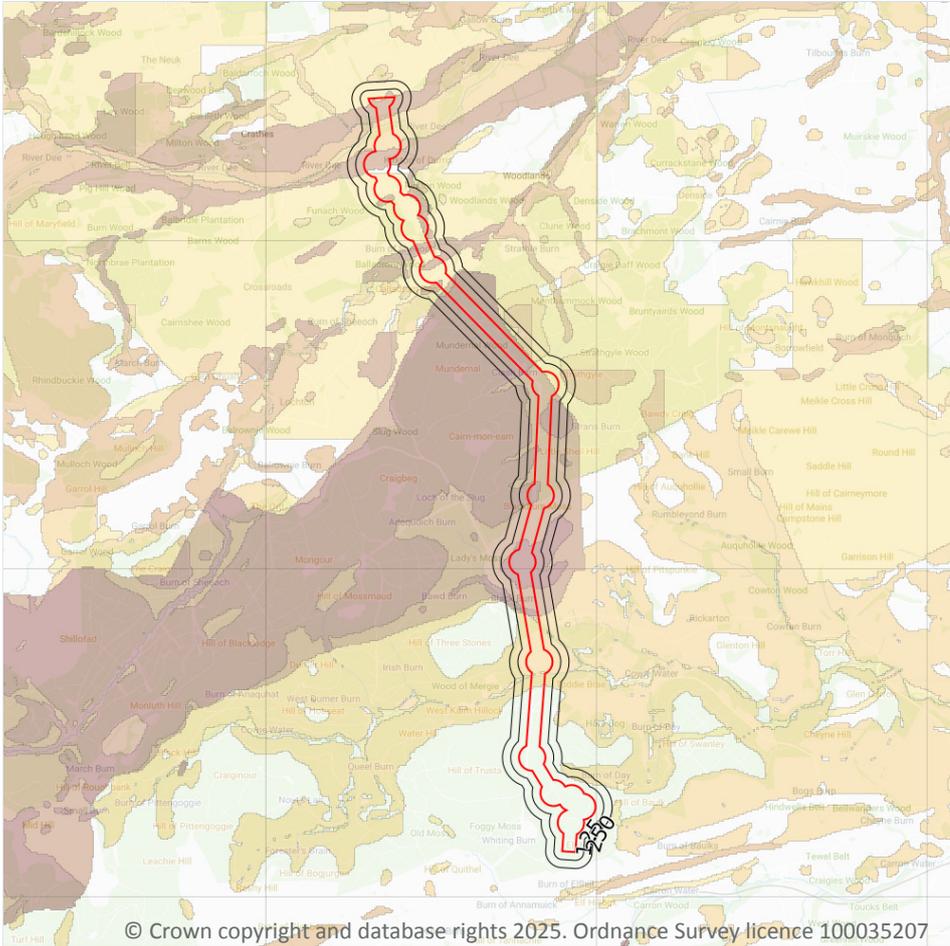
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01273 257 755

Date: 4 September 2025

20 Radon



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20.1 Radon

Records on site

6

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 123 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	Basic



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Date: 4 September 2025

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 5% and 10%	Basic
On site	Between 3% and 5%	Basic
On site	Between 10% and 30%	Full
On site	Less than 1%	None
On site	Greater than 30%	Full

This data is sourced from the British Geological Survey and UK Health Security Agency.



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
4m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
10m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
10m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
11m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
12m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
12m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
13m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
14m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
15m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
15m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
15m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
16m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
16m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
18m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
18m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
21m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
23m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
26m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
26m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
28m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
33m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 mg/kg
34m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
38m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
39m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
40m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
42m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 mg/kg
42m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	20 - 40 mg/kg	15 - 30 mg/kg
44m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
45m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
45m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
46m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
47m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
47m SW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
48m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
48m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg
49m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21.3 BGS Measured Urban Soil Chemistry

Records within 50m

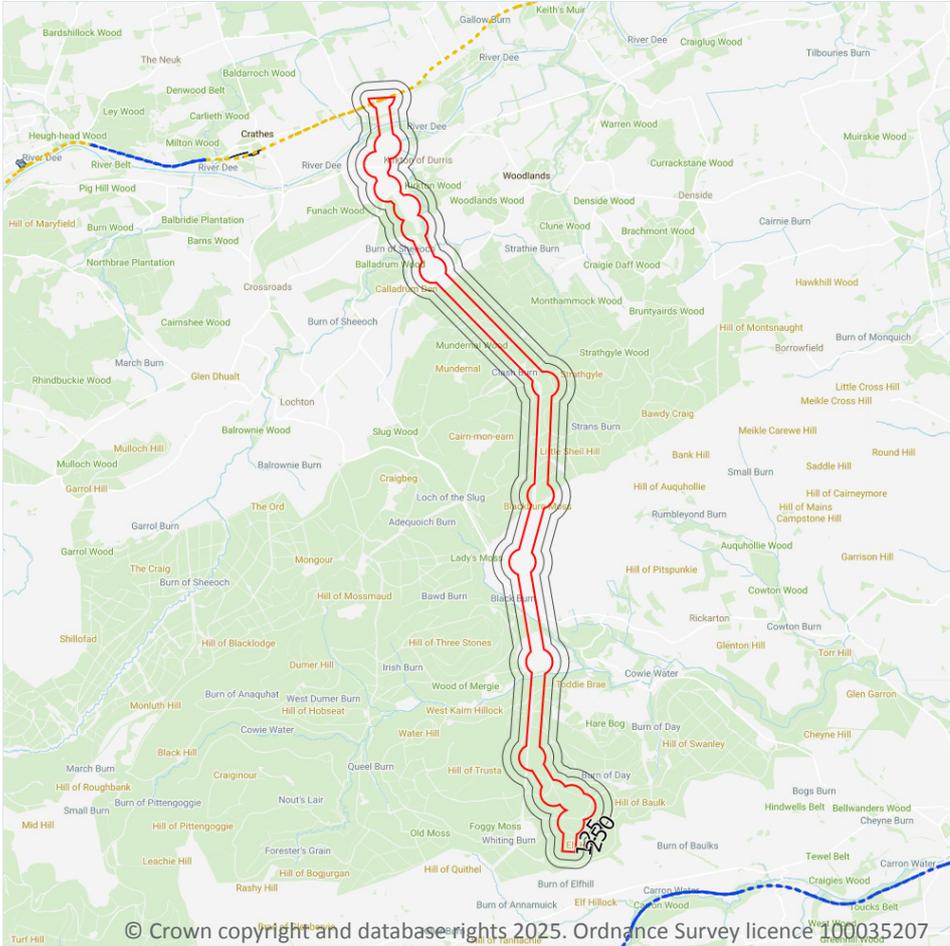
0

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

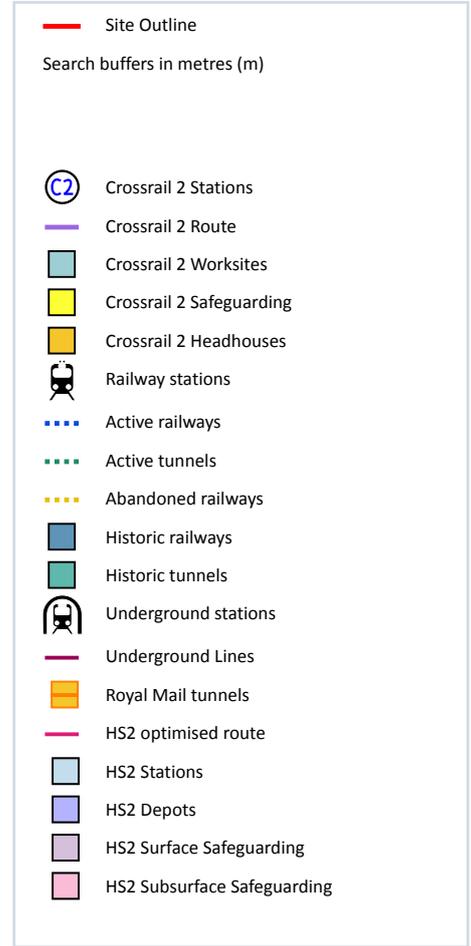
This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

11

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

Features are displayed on the Railway infrastructure and projects map on [page 134 >](#)

Location	Description
On site	Abandoned
On site	Historical OSM
On site	Historical OSM
On site	Historical OSM
On site	Abandoned



Location	Description
On site	Abandoned
On site	Historical OSM
33m N	Abandoned
39m N	Historical OSM
39m N	Abandoned
163m SW	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m **0**

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m **0**

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m **0**

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



Appendix B.2

ZETICA UXO MAPS

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 379384,789720



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

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