

Scotland, Red Line Boundary

Order Details

Date: 01/05/2024
Your ref: Scotland, Red Line Boundary
Our Ref: GSIP-2024-14714-18280_G

Site Details

Location: 234948 831451
Area: 40.1 ha
Authority: [The Highland Council](#) ↗



Summary of findings

[p. 2](#) >

Aerial image

[p. 7](#) >

OS MasterMap site plan

N/A: >10ha

[Insight User Guide](#) ↗

Summary of findings

| Page | Section | <u>Past land use</u> > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|----------------------|-----------------------|--|---------|-------|---------|----------|-----------|
| 12 > | 1.1 > | Historical industrial land uses > | 1 | 0 | 2 | 0 | - |
| 13 | 1.2 | Historical tanks | 0 | 0 | 0 | 0 | - |
| 13 | 1.3 | Historical energy features | 0 | 0 | 0 | 0 | - |
| 13 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 14 | 1.5 | Historical garages | 0 | 0 | 0 | 0 | - |
| 14 | 1.6 | Historical military land | 0 | 0 | 0 | 0 | - |
| Page | Section | <u>Past land use - un-grouped</u> > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 15 > | 2.1 > | Historical industrial land uses > | 1 | 0 | 2 | 0 | - |
| 16 | 2.2 | Historical tanks | 0 | 0 | 0 | 0 | - |
| 16 | 2.3 | Historical energy features | 0 | 0 | 0 | 0 | - |
| 16 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 16 | 2.5 | Historical garages | 0 | 0 | 0 | 0 | - |
| Page | Section | <u>Waste and landfill</u> > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 17 | 3.1 | Active or recent landfill | 0 | 0 | 0 | 0 | - |
| 17 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 0 | - |
| 18 > | 3.3 > | Historical landfill (LA/mapping records) > | 0 | 0 | 1 | 0 | - |
| 18 | 3.4 | Licensed waste sites | 0 | 0 | 0 | 0 | - |
| 18 | 3.5 | Historical waste sites | 0 | 0 | 0 | 0 | - |
| Page | Section | <u>Current industrial land use</u> > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 19 > | 4.1 > | Recent industrial land uses > | 0 | 0 | 2 | - | - |
| 20 | 4.2 | Current or recent petrol stations | 0 | 0 | 0 | 0 | - |
| 20 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 20 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 20 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |
| 20 | 4.6 | Control of Major Accident Hazards (COMAH) | 0 | 0 | 0 | 0 | - |
| 21 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |



| 21 | 4.8 | Hazardous substance storage/usage | 0 | 0 | 0 | 0 | - |
|-------------------------|---------------------------|---|--|-------|---------|----------|-----------|
| 21 | 4.9 | Part A(1), IPPC and Historic IPC Authorisations | 0 | 0 | 0 | 0 | - |
| 21 | 4.10 | Part B Authorisations | 0 | 0 | 0 | 0 | - |
| 21 | 4.11 | Pollution inventory substances | 0 | 0 | 0 | 0 | - |
| 22 | 4.12 | Pollution inventory waste transfers | 0 | 0 | 0 | 0 | - |
| 22 | 4.13 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |
| Page | Section | Hydrogeology > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 23 > | 5.1 > | Superficial aquifer > | Identified (within 500m) | | | | |
| 24 > | 5.2 > | Bedrock aquifer > | Identified (within 500m) | | | | |
| Page | Section | Hydrology > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 25 > | 6.1 > | Water Network (OS MasterMap) > | 21 | 6 | 20 | - | - |
| 29 > | 6.2 > | Surface water features > | 1 | 3 | 4 | - | - |
| Page | Section | River flooding > | | | | | |
| 30 > | 7.1 > | River flooding > | 1 in 30 year, Greater than 1.0m (within 50m) | | | | |
| Page | Section | Coastal flooding | | | | | |
| 32 | 8.1 | Coastal flooding | Negligible (within 50m) | | | | |
| Page | Section | Surface water flooding > | | | | | |
| 33 > | 9.1 > | Surface water flooding > | 1 in 30 year, Greater than 1.0m (within 50m) | | | | |
| Page | Section | Groundwater flooding > | | | | | |
| 35 > | 10.1 > | Groundwater flooding > | Moderate (within 50m) | | | | |
| Page | Section | Environmental designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 36 | 11.1 | Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 |
| 37 | 11.2 | Conserved wetland sites (Ramsar sites) | 0 | 0 | 0 | 0 | 0 |
| 37 | 11.3 | Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 |
| 37 > | 11.4 > | Special Protection Areas (SPA) > | 0 | 0 | 0 | 0 | 2 |
| 38 | 11.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 38 | 11.6 | Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 |
| 38 > | 11.7 > | Designated Ancient Woodland > | 3 | 1 | 0 | 1 | 22 |
| 39 | 11.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |



| 40 | 11.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |
|-------------------------|---------------------------|---|--------------------------|-------|---------|----------|-----------|
| 40 | 11.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| Page | Section | Visual and cultural designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 41 | 12.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 41 | 12.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 41 | 12.3 | National Parks | 0 | 0 | 0 | - | - |
| 41 | 12.4 | Listed Buildings | 0 | 0 | 0 | - | - |
| 42 | 12.5 | Conservation Areas | 0 | 0 | 0 | - | - |
| 42 | 12.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 42 | 12.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | Agricultural designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 43 > | 13.1 > | Agricultural Land Classification > | Grade 4.1 (within 250m) | | | | |
| Page | Section | Geology 1:10,000 scale > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 45 > | 14.1 > | 10k Availability > | Identified (within 500m) | | | | |
| 46 | 14.2 | Artificial and made ground (10k) | 0 | 0 | 0 | 0 | - |
| 47 > | 14.3 > | Superficial geology (10k) > | 7 | 0 | 3 | 3 | - |
| 48 | 14.4 | Landslip (10k) | 0 | 0 | 0 | 0 | - |
| 49 | 14.5 | Bedrock geology (10k) | 0 | 0 | 0 | 0 | - |
| 49 > | 14.6 > | Bedrock faults and other linear features (10k) > | 2 | 1 | 10 | 4 | - |
| Page | Section | Geology 1:50,000 scale > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 51 > | 15.1 > | 50k Availability > | Identified (within 500m) | | | | |
| 52 | 15.2 | Artificial and made ground (50k) | 0 | 0 | 0 | 0 | - |
| 52 | 15.3 | Artificial ground permeability (50k) | 0 | 0 | - | - | - |
| 53 > | 15.4 > | Superficial geology (50k) > | 3 | 0 | 3 | 3 | - |
| 54 > | 15.5 > | Superficial permeability (50k) > | Identified (within 50m) | | | | |
| 54 | 15.6 | Landslip (50k) | 0 | 0 | 0 | 0 | - |
| 55 | 15.7 | Landslip permeability (50k) | None (within 50m) | | | | |
| 56 > | 15.8 > | Bedrock geology (50k) > | 1 | 0 | 1 | 2 | - |
| 57 > | 15.9 > | Bedrock permeability (50k) > | Identified (within 50m) | | | | |



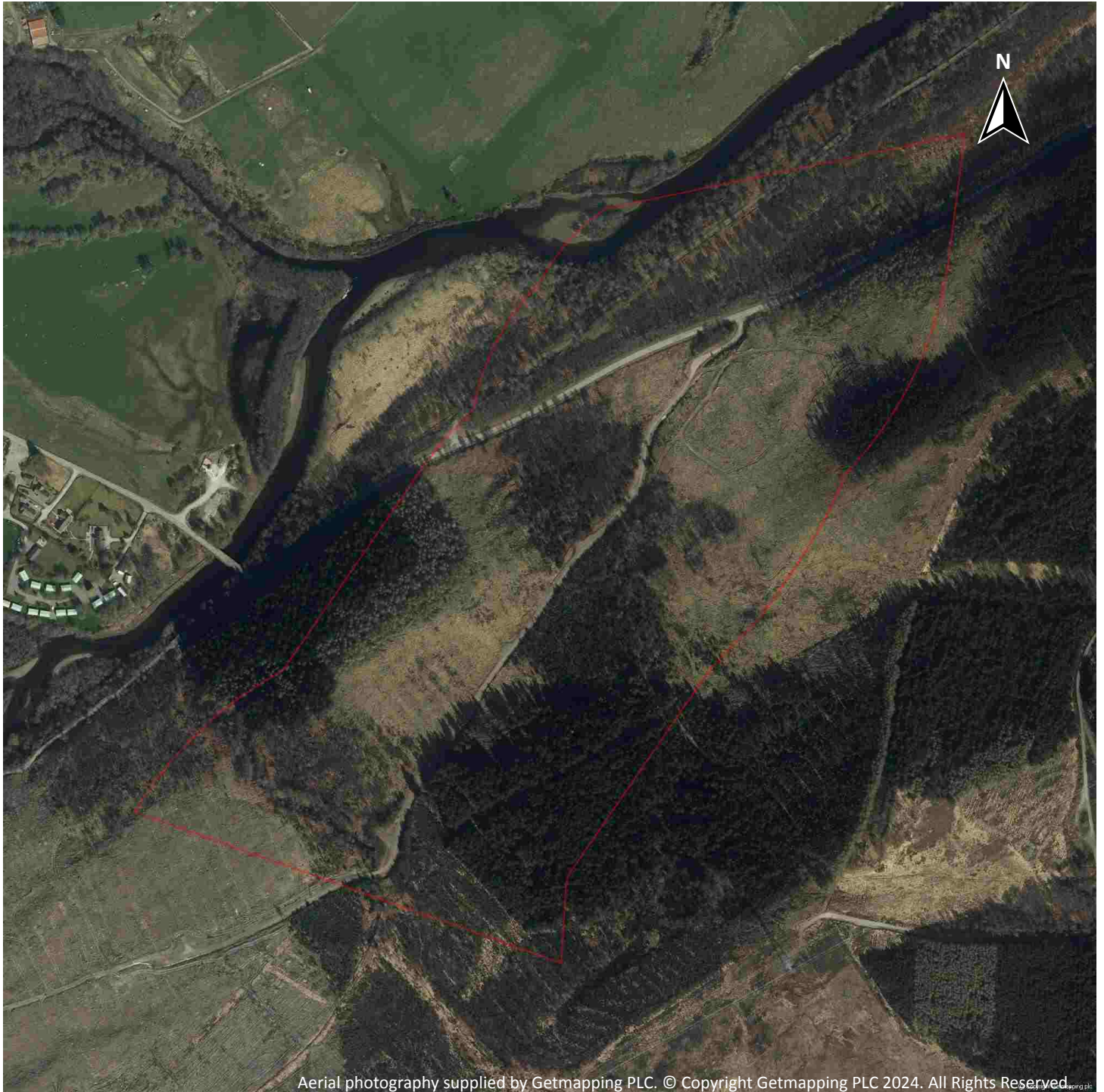
| 57 > | 15.10 > | Bedrock faults and other linear features (50k) > | 2 | 1 | 4 | 2 | - |
|-------------------------|----------------------------|---|-------------------------|-------|---------|----------|-----------|
| Page | Section | Boreholes | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 59 | 16.1 | BGS Boreholes | 0 | 0 | 0 | - | - |
| 60 > | 17.1 > | Shrink swell clays > | Very low (within 50m) | | | | |
| 61 > | 17.2 > | Running sands > | Very low (within 50m) | | | | |
| 63 > | 17.3 > | Compressible deposits > | Low (within 50m) | | | | |
| 65 > | 17.4 > | Collapsible deposits > | Very low (within 50m) | | | | |
| 66 > | 17.5 > | Landslides > | Very low (within 50m) | | | | |
| 67 > | 17.6 > | Ground dissolution of soluble rocks > | Negligible (within 50m) | | | | |
| Page | Section | Mining and ground workings > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 69 | 18.1 | BritPits | 0 | 0 | 0 | 0 | - |
| 70 > | 18.2 > | Surface ground workings > | 1 | 0 | 3 | - | - |
| 70 | 18.3 | Underground workings | 0 | 0 | 0 | 0 | 0 |
| 70 | 18.4 | Underground mining extents | 0 | 0 | 0 | 0 | - |
| 70 | 18.5 | Historical Mineral Planning Areas | 0 | 0 | 0 | 0 | - |
| 71 > | 18.6 > | Non-coal mining > | 0 | 0 | 0 | 1 | 0 |
| 71 | 18.7 | JPB mining areas | None (within 0m) | | | | |
| 71 | 18.8 | The Coal Authority non-coal mining | 0 | 0 | 0 | 0 | - |
| 72 | 18.9 | Researched mining | 0 | 0 | 0 | 0 | - |
| 72 | 18.10 | Mining record office plans | 0 | 0 | 0 | 0 | - |
| 72 | 18.11 | BGS mine plans | 0 | 0 | 0 | 0 | - |
| 72 | 18.12 | Coal mining | None (within 0m) | | | | |
| 72 | 18.13 | Brine areas | None (within 0m) | | | | |
| 73 | 18.14 | Gypsum areas | None (within 0m) | | | | |
| 73 | 18.15 | Tin mining | None (within 0m) | | | | |
| 73 | 18.16 | Clay mining | None (within 0m) | | | | |
| Page | Section | Ground cavities and sinkholes | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 74 | 19.1 | Natural cavities | 0 | 0 | 0 | 0 | - |



| | | | | | | | |
|-------------------------|---------------------------|--|-------------------------------|-------|---------|----------|-----------|
| 74 | 19.2 | Mining cavities | 0 | 0 | 0 | 0 | 0 |
| 74 | 19.3 | Reported recent incidents | 0 | 0 | 0 | 0 | - |
| 74 | 19.4 | Historical incidents | 0 | 0 | 0 | 0 | - |
| 75 | 19.5 | National karst database | 0 | 0 | 0 | 0 | - |
| Page | Section | Radon > | | | | | |
| 76 > | 20.1 > | Radon > | Between 1% and 3% (within 0m) | | | | |
| Page | Section | Soil chemistry > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 78 > | 21.1 > | BGS Estimated Background Soil Chemistry > | 11 | 0 | - | - | - |
| 78 | 21.2 | BGS Estimated Urban Soil Chemistry | 0 | 0 | - | - | - |
| 79 | 21.3 | BGS Measured Urban Soil Chemistry | 0 | 0 | - | - | - |
| Page | Section | Railway infrastructure and projects | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 80 | 22.1 | Underground railways (London) | 0 | 0 | 0 | - | - |
| 80 | 22.2 | Underground railways (Non-London) | 0 | 0 | 0 | - | - |
| 80 | 22.3 | Railway tunnels | 0 | 0 | 0 | - | - |
| 80 | 22.4 | Historical railway and tunnel features | 0 | 0 | 0 | - | - |
| 80 | 22.5 | Royal Mail tunnels | 0 | 0 | 0 | - | - |
| 81 | 22.6 | Historical railways | 0 | 0 | 0 | - | - |
| 81 | 22.7 | Railways | 0 | 0 | 0 | - | - |
| 81 | 22.8 | Crossrail 1 | 0 | 0 | 0 | 0 | - |
| 81 | 22.9 | Crossrail 2 | 0 | 0 | 0 | 0 | - |
| 81 | 22.10 | HS2 | 0 | 0 | 0 | 0 | - |



Recent aerial photograph



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Capture Date: 29/05/2020

Site Area: 40.1ha



Recent site history - 2017 aerial photograph



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Capture Date: 06/05/2017

Site Area: 40.1ha



Recent site history - 2013 aerial photograph



Capture Date: 19/07/2013

Site Area: 40.1ha



Recent site history - 2008 aerial photograph



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Capture Date: 09/05/2008

Site Area: 40.1ha



Recent site history - 2005 aerial photograph

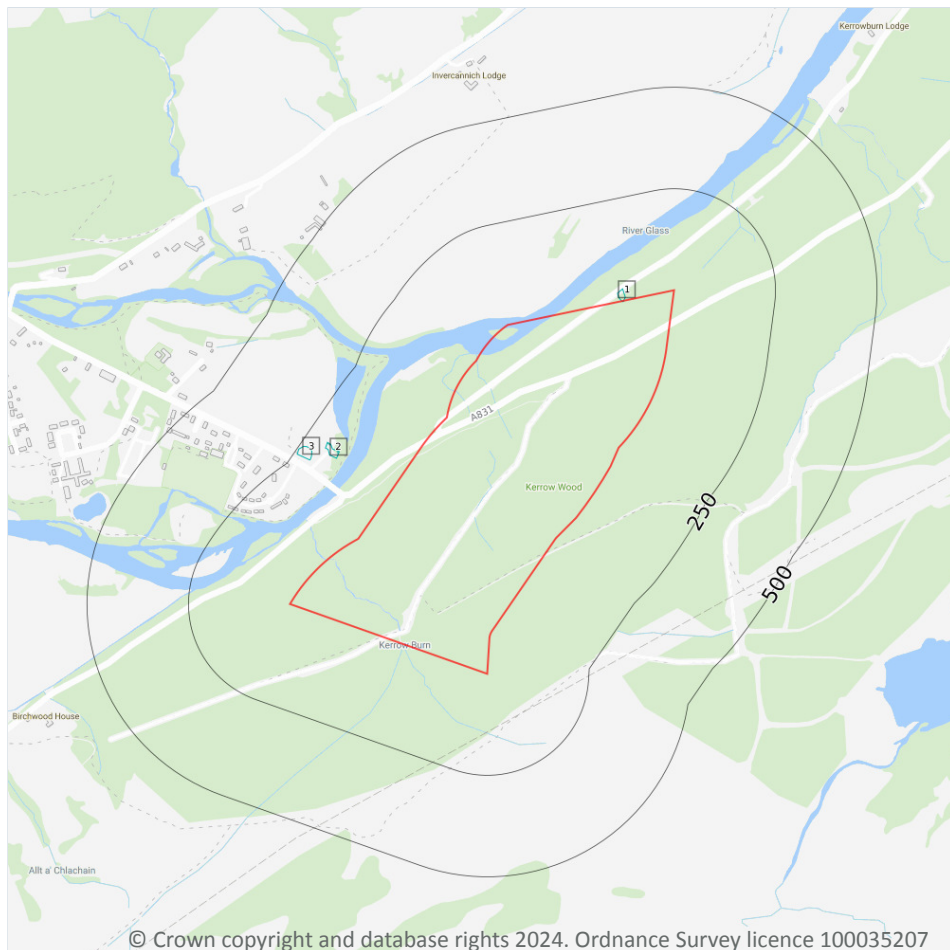


Capture Date: 25/04/2005

Site Area: 40.1ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

3

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

Features are displayed on the Past land use map on [page 12 >](#)

| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| 1 | On site | Sand Pit | 1901 | 64151 |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|---------------------|---------------|----------|
| 2 | 157m W | Disused Sewage Beds | 1971 | 63065 |
| 3 | 208m W | Sand Pit | 1901 | 64150 |

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

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

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



2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

2.1 Historical industrial land uses

Records within 500m

3

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

Features are displayed on the Past land use - un-grouped map on [page 15](#) >

| ID | Location | Land Use | Date | Group ID |
|----|----------|---------------------|------|----------|
| 1 | On site | Sand Pit | 1901 | 64151 |
| 2 | 157m W | Disused Sewage Beds | 1971 | 63065 |
| 3 | 208m W | Sand Pit | 1901 | 64150 |

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (LA/OS)

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Scottish Environment Protection (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m**1**

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

Features are displayed on the Waste and landfill map on [page 17 >](#)

| ID | Location | Site address | Source | Data type |
|----|----------|--------------|--------------|-----------|
| 1 | 211m W | Refuse Tip | 1969 mapping | Polygon |

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

3.4 Licensed waste sites

Records within 500m**0**

Active or recently closed waste sites under Scottish Environment Protection Agency (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

3.5 Historical waste sites

Records within 500m**0**

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

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses

4.1 Recent industrial land uses

Records within 250m

2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 19](#) >

| ID | Location | Company | Address | Activity | Category |
|----|----------|--------------|----------------|--|-------------------------------|
| A | 159m W | Works | Inverness, IV4 | Unspecified Works Or Factories | Industrial Features |
| A | 161m W | Sewage Works | Inverness, IV4 | Waste Storage, Processing and Disposal | Infrastructure and Facilities |

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Part A(1), IPPC and Historic IPC Authorisations

Records within 500m

0

Records of Part A installations regulated for the release of substances to the environment.

This data is sourced from the Scottish Environment Protection Agency.

4.10 Part B Authorisations

Records within 500m

0

Records of Part B installations regulated for the release of substances to the environment.

This data is sourced from the Scottish Environment Protection Agency.

4.11 Pollution inventory substances

Records within 500m

0

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

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

4.12 Pollution inventory waste transfers

Records within 500m

0

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

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

4.13 Pollution inventory radioactive waste

Records within 500m

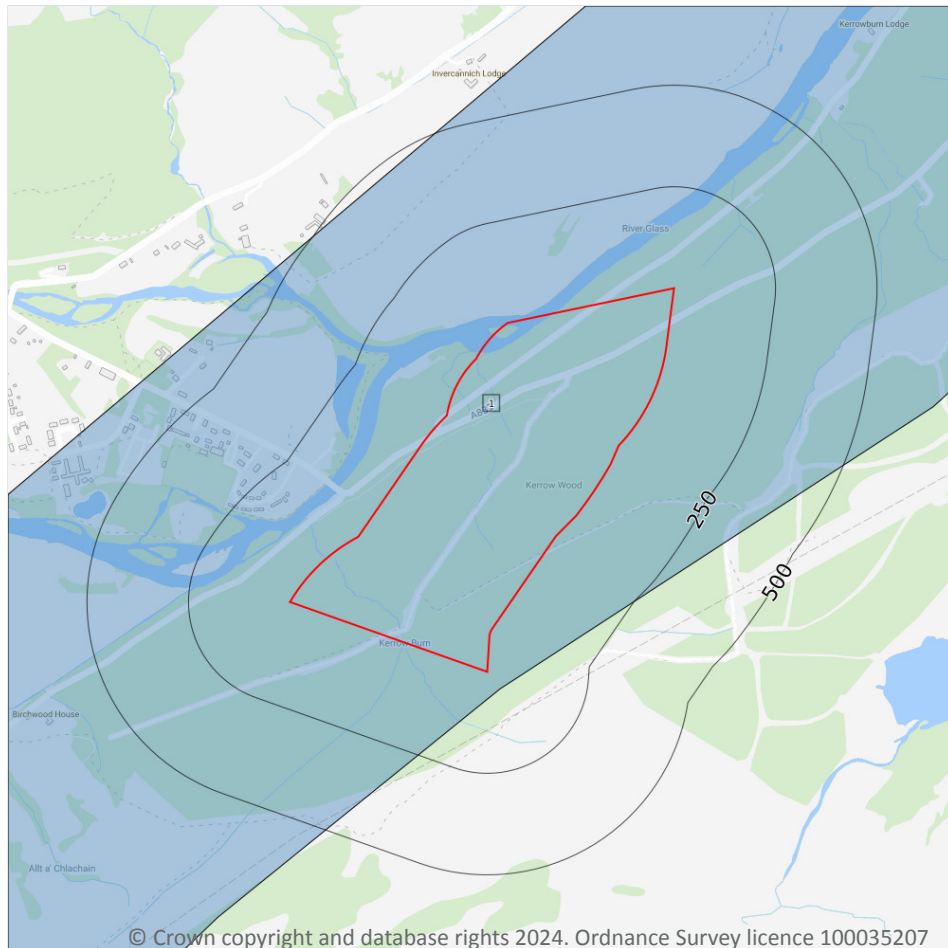
0

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

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



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Limited or local potential
- Locally important - intergranular

5.1 Superficial aquifer

Records within 500m

1

Records of groundwater classification within superficial geology.

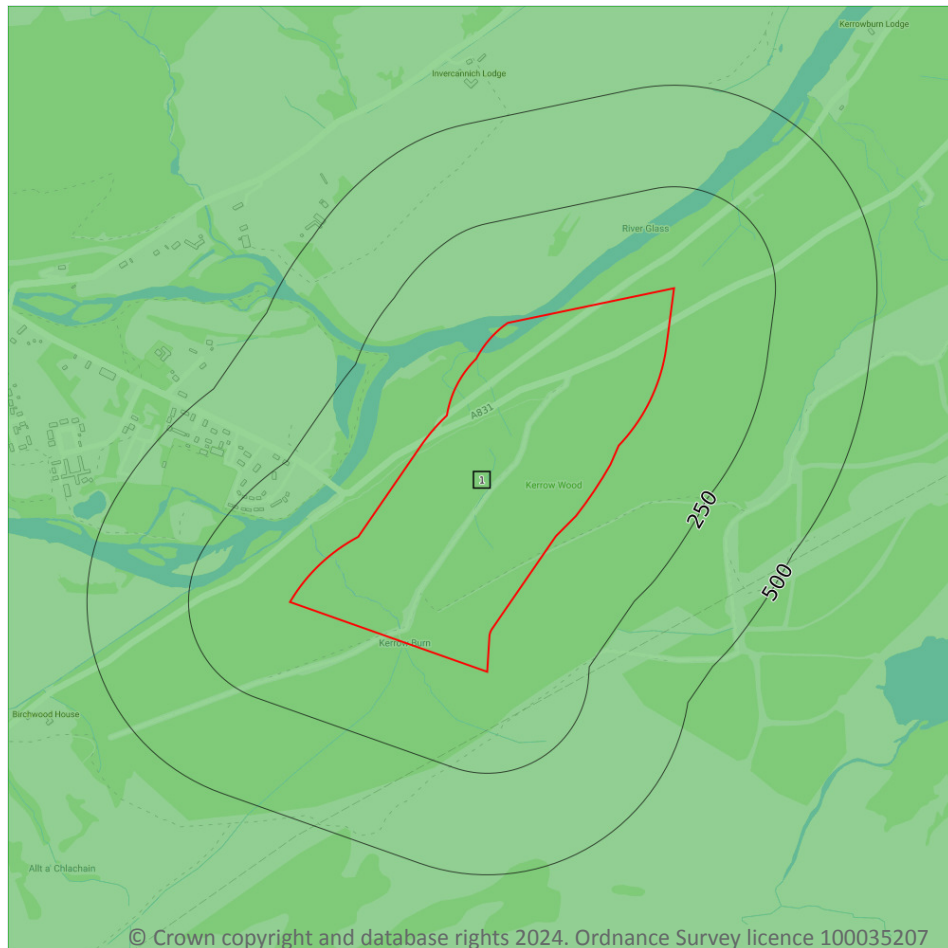
Features are displayed on the Hydrogeology map on [page 23](#) >

| ID | Location | Description | Type | Rock description |
|----|----------|--|--|---|
| 1 | On site | Concealed aquifers, aquifers of limited potential, regions without significant groundwater | Concealed aquifers; aquifers with limited or local potential | Quaternary Coastal and Fluvatile Alluvium |

This data is sourced from the British Geological Survey.



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Highly productive - fissures/discontinuities
 - Highly productive - intergranular
 - Moderately productive - fissures/discontinuities
 - Moderately productive - intergranular
 - Low productive - fissures/discontinuities
 - Low productive - intergranular
 - No significant groundwater

5.2 Bedrock aquifer

Records within 500m

1

Records of groundwater classification within bedrock geology.

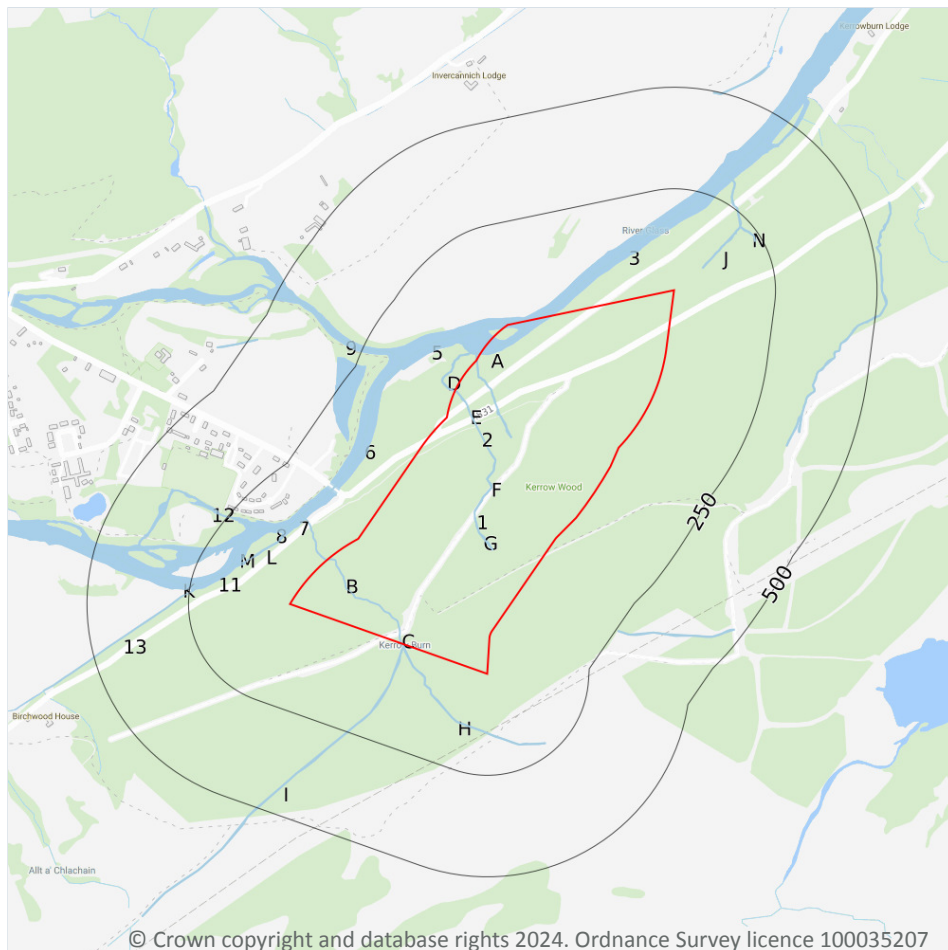
Features are displayed on the Bedrock aquifer map on [page 24](#) >

| ID | Location | Description | Flow | Summary | Rock description |
|----|----------|--------------------------|---|--|------------------|
| 1 | On site | Low productivity aquifer | Flow is virtually all through fractures and other discontinuities | Small amounts of groundwater in near surface weathered zone and secondary fractures. | LOCH EIL GROUP |

This data is sourced from the British Geological Survey.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)

6.1 Water Network (OS MasterMap)

Records within 250m

47

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

Features are displayed on the Hydrology map on [page 25](#) >

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|--------------|---|------|
| 1 | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |



| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|-------------|
| 2 | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| 3 | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| B | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Kerrow Burn |



| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|-------------|
| C | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | Kerrow Burn |
| C | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Kerrow Burn |
| D | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | On site | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| F | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| G | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| A | On site | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| H | 5m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Kerrow Burn |
| I | 5m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| A | 7m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | 22m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| A | 31m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |



| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|---------------|
| 5 | 66m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| J | 88m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 115m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| 6 | 116m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| 7 | 122m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| 8 | 123m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| 9 | 146m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Cannich |
| 11 | 170m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| M | 170m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| 12 | 174m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 174m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| M | 183m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| N | 225m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |



| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|-------------------|
| N | 226m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 13 | 234m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Allt a' Chlachain |
| K | 234m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| N | 237m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| K | 238m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| K | 238m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | River Glass |
| N | 242m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

8

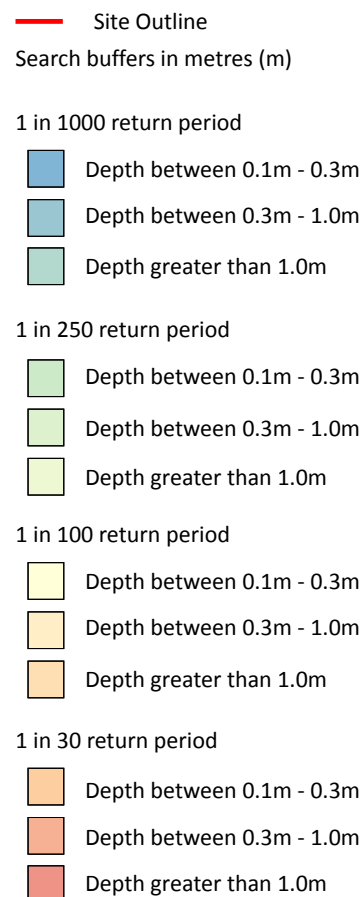
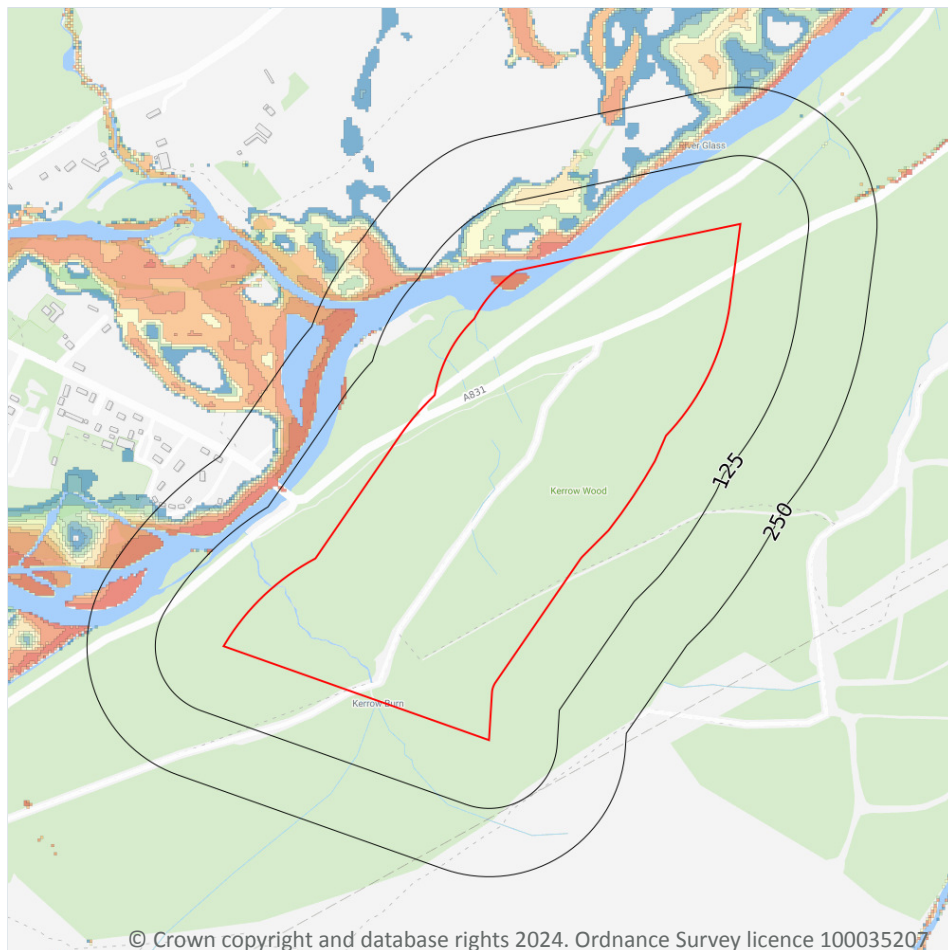
Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as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

Features are displayed on the Hydrology map on [page 25 >](#)

This data is sourced from the Ordnance Survey.



7 River flooding



7.1 River flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

This is an assessment of flood risk for rivers in Scotland produced using modelled data, provided by Ambiental Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of flooding from rivers presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)

- and 1 in 1,000 year (0.1%)

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

Features are displayed on the River flooding map on [page 30 >](#)

| Return period | Maximum modelled depth |
|----------------|------------------------|
| 1 in 1000 year | Greater than 1.0m |
| 1 in 250 year | Greater than 1.0m |
| 1 in 100 year | Greater than 1.0m |
| 1 in 30 year | Greater than 1.0m |

This data is sourced from Ambiantal Risk Analytics.

8 Coastal flooding - Coastal flooding

8.1 Coastal flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

This is an assessment of coastal flood risk in Scotland produced using modelled data, provided by Ambiental Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of coastal flooding presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)
- and 1 in 1,000 year (0.1%)

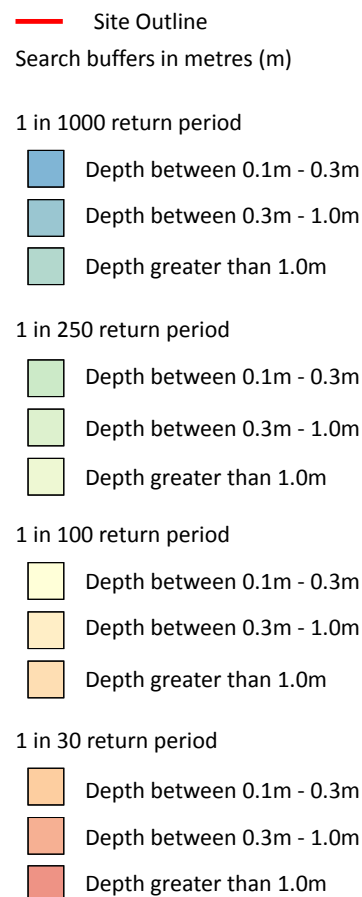
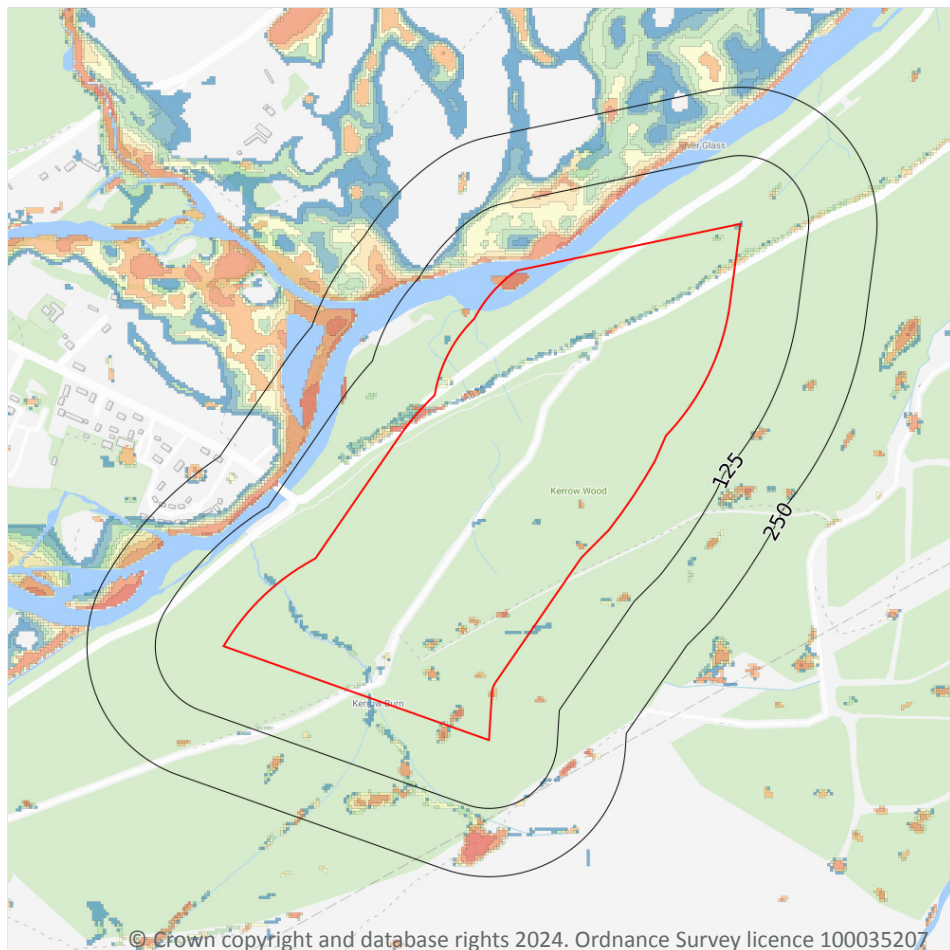
The data shown on the map shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Surface water flooding



9.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on [page 33](#) >

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

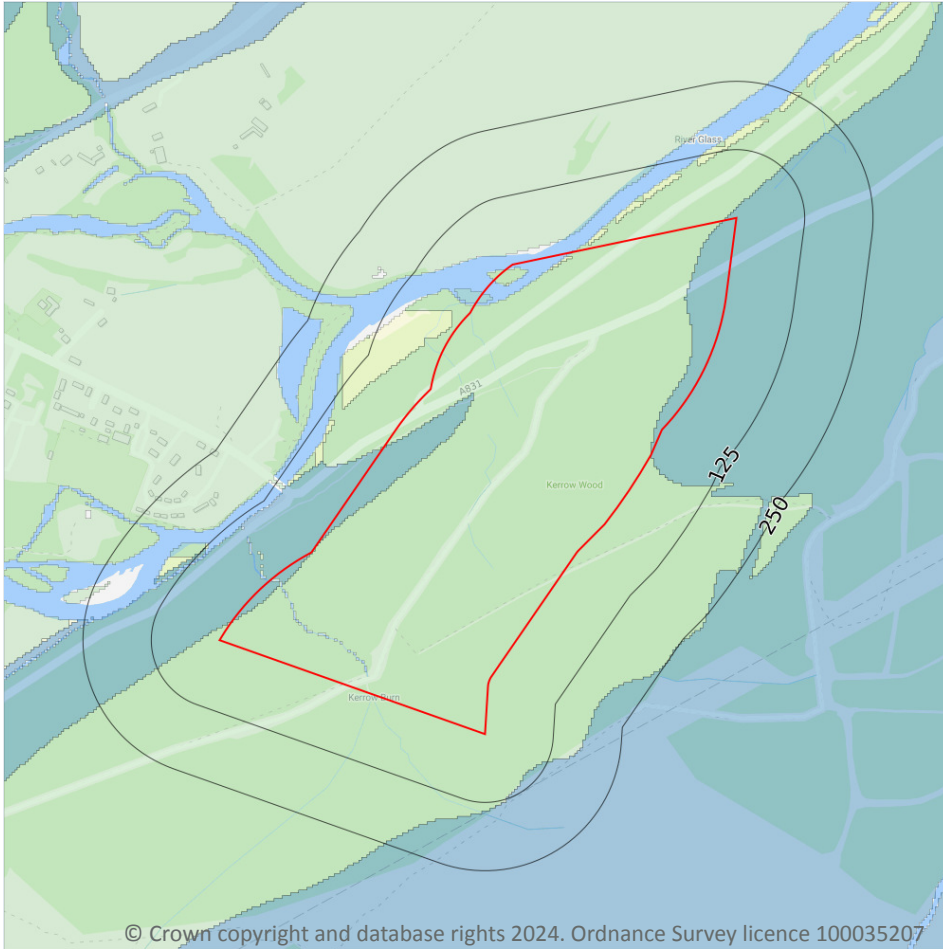
The table below shows the maximum flood depths for a range of return periods for the site.

| Return period | Maximum modelled depth |
|----------------|------------------------|
| 1 in 1000 year | Greater than 1.0m |
| 1 in 250 year | Greater than 1.0m |
| 1 in 100 year | Greater than 1.0m |
| 1 in 30 year | Greater than 1.0m |

This data is sourced from Ambiantal Risk Analytics.



10 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

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10.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

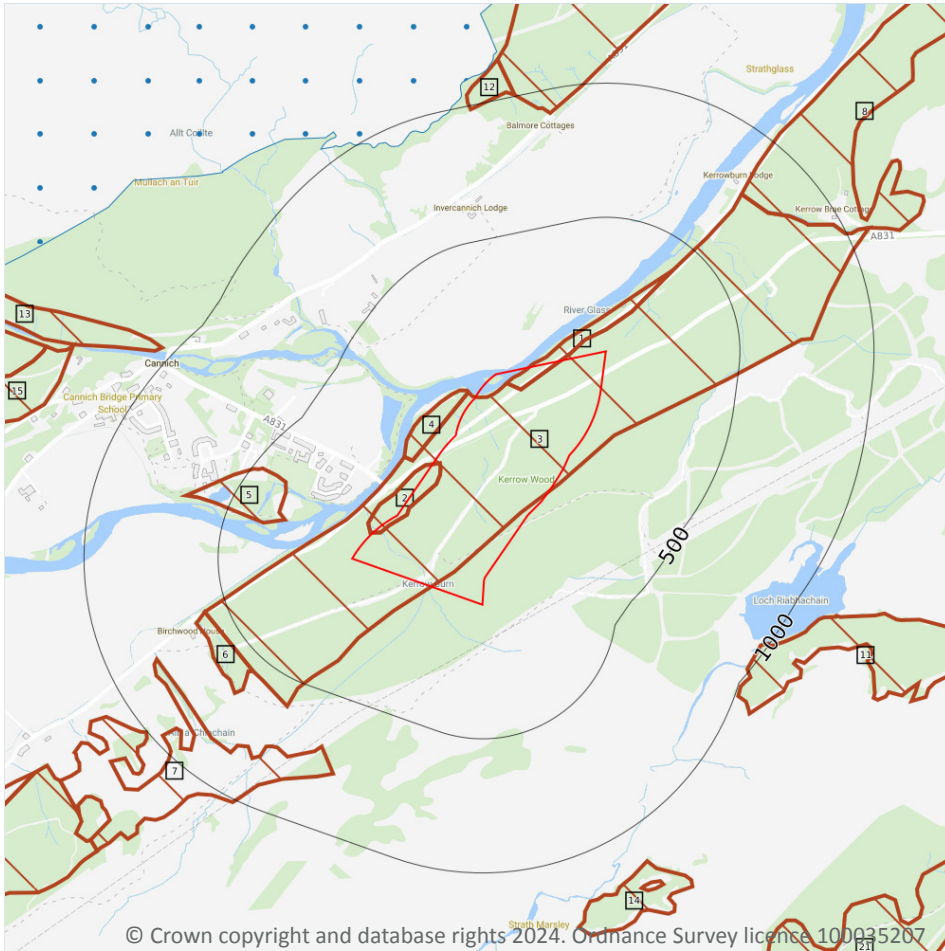
Moderate

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

Features are displayed on the Groundwater flooding map on [page 35 >](#)

This data is sourced from Ambiantal Risk Analytics.

11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Special Protection Areas (SPA)
- ▨ Designated Ancient Woodland

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

11.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

11.4 Special Protection Areas (SPA)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 36 >](#)

| ID | Location | Name | Species of interest | Habitat description | Data source |
|----|----------|----------------------------|---------------------|--|---------------------------|
| 10 | 926m N | Glen Affric to Strathconon | Golden eagle | Inland water bodies (Standing water, Running water); Mixed woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Coniferous woodland; Inland rocks, Scree, Sands, Permanent Snow and ice; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Improved grassland; Alpine and sub-Alpine grassland | Scottish Natural Heritage |
| - | 1374m N | Glen Affric to Strathconon | Golden eagle | Inland water bodies (Standing water, Running water); Mixed woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Coniferous woodland; Inland rocks, Scree, Sands, Permanent Snow and ice; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Improved grassland; Alpine and sub-Alpine grassland | Scottish Natural Heritage |



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

11.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

11.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

11.7 Designated Ancient Woodland

Records within 2000m

27

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

Features are displayed on the Environmental designations map on [page 36](#) >

| ID | Location | Name | Woodland Type |
|----|----------|----------------|----------------------------------|
| 1 | On site | Unknown | Ancient (of semi-natural origin) |
| 2 | On site | Kerrow Wood | Ancient (of semi-natural origin) |
| 3 | On site | Unknown | Ancient (of semi-natural origin) |
| 4 | 32m N | Unknown | Ancient (of semi-natural origin) |
| 5 | 289m W | Unknown | Other (on Roy map) |
| 6 | 551m SW | Unknown | Ancient (of semi-natural origin) |
| 7 | 698m SW | Balnahoun Wood | Ancient (of semi-natural origin) |
| 8 | 774m NE | Unknown | Ancient (of semi-natural origin) |



| ID | Location | Name | Woodland Type |
|----|----------|---------------------|---|
| 9 | 912m N | Carnoch Wood | Ancient (of semi-natural origin) |
| 11 | 977m SE | Unknown | Ancient (of semi-natural origin) |
| 12 | 986m N | Carnoch Wood | Ancient (of semi-natural origin) |
| 13 | 1044m W | Unknown | Other (on Roy map) |
| 14 | 1136m S | Unknown | Ancient (of semi-natural origin) |
| 15 | 1276m W | Comar Wood | Ancient (of semi-natural origin) |
| 16 | 1368m SW | Unknown | Ancient (of semi-natural origin) |
| 18 | 1386m W | Unknown | Other (on Roy map) |
| - | 1399m W | Fasnakyle Wood | Ancient (of semi-natural origin) |
| 20 | 1425m SW | Balnahoun Wood | Ancient (of semi-natural origin) |
| 21 | 1634m SE | Coille Na Ceardaich | Ancient (of semi-natural origin) |
| - | 1752m W | Fasnakyle Wood | Ancient (of semi-natural origin) |
| - | 1798m N | Carnoch Wood | Ancient (of semi-natural origin) |
| - | 1899m W | Unknown | Ancient (of semi-natural origin) |
| - | 1899m W | Unknown | Ancient (of semi-natural origin) |
| - | 1909m SE | Coille Na Ceardaich | Ancient (of semi-natural origin) |
| - | 1943m SE | Breckry Wood | Ancient (of semi-natural origin) |
| - | 1947m E | Unknown | Long-Established (of plantation origin) |
| - | 1972m SE | Coille Na Ceardaich | Ancient (of semi-natural origin) |

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

11.8 Biosphere Reserves

Records within 2000m

0

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

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



11.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

11.10 Marine Conservation Zones

Records within 2000m

0

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

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



12 Visual and cultural designations

12.1 World Heritage Sites

Records within 250m

0

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

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

12.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

12.3 National Parks

Records within 250m

0

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

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

12.4 Listed Buildings

Records within 250m

0

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



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

12.5 Conservation Areas

Records within 250m

0

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

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

12.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

12.7 Registered Parks and Gardens

Records within 250m

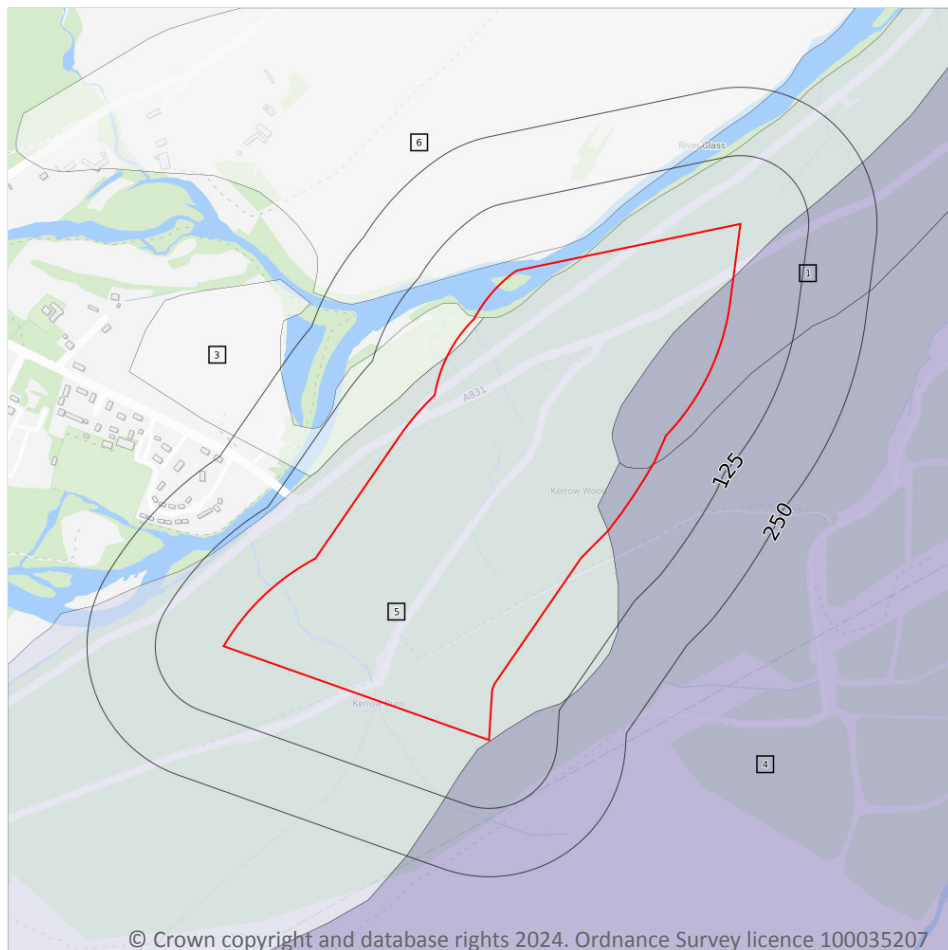
0

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

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



13 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 4 - good quality
- Grade 5 - moderate quality
- Grade 6 - poor quality
- Grade 7 - very poor quality

13.1 Agricultural Land Classification

Records within 250m

5

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

Features are displayed on the Agricultural designations map on [page 43](#) >

| ID | Location | Classification | Description |
|----|----------|----------------|---|
| 1 | On site | Grade 6.2 | Land Suited only to Improved Grassland and Rough Grazings |
| 3 | On site | Grade 4.1 | Land Suited to Arable Cropping |
| 4 | On site | Grade 6.3 | Land Suited only to Improved Grassland and Rough Grazings |

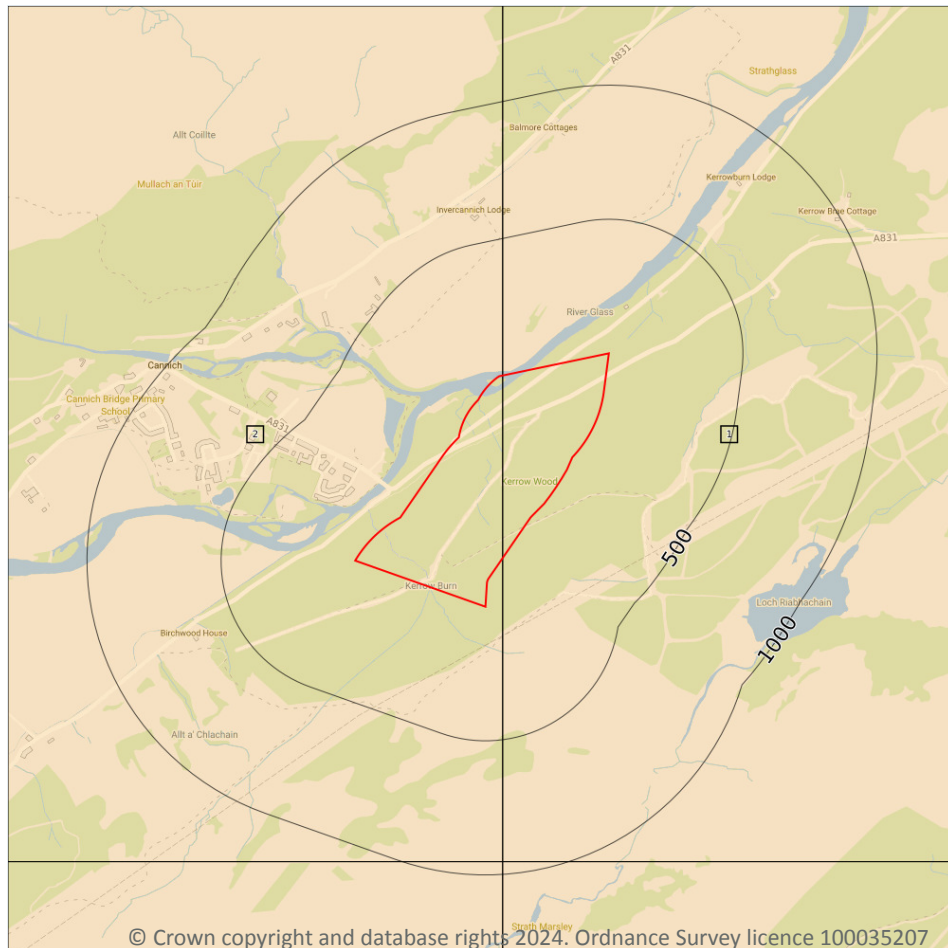


| ID | Location | Classification | Description |
|----|----------|----------------|---|
| 5 | On site | Grade 5.3 | Land Suited only to Improved Grassland and Rough Grazings |
| 6 | 21m N | Grade 4.1 | Land Suited to Arable Cropping |

This data is sourced from the James Hutton Institute.



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

2

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 45](#) >

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|-------------|-------------|-------------|---------------|-----------|
| 1 | On site | No coverage | Full | No coverage | No coverage | NH33SE |
| 2 | On site | No coverage | Full | No coverage | No coverage | NH33SW |

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

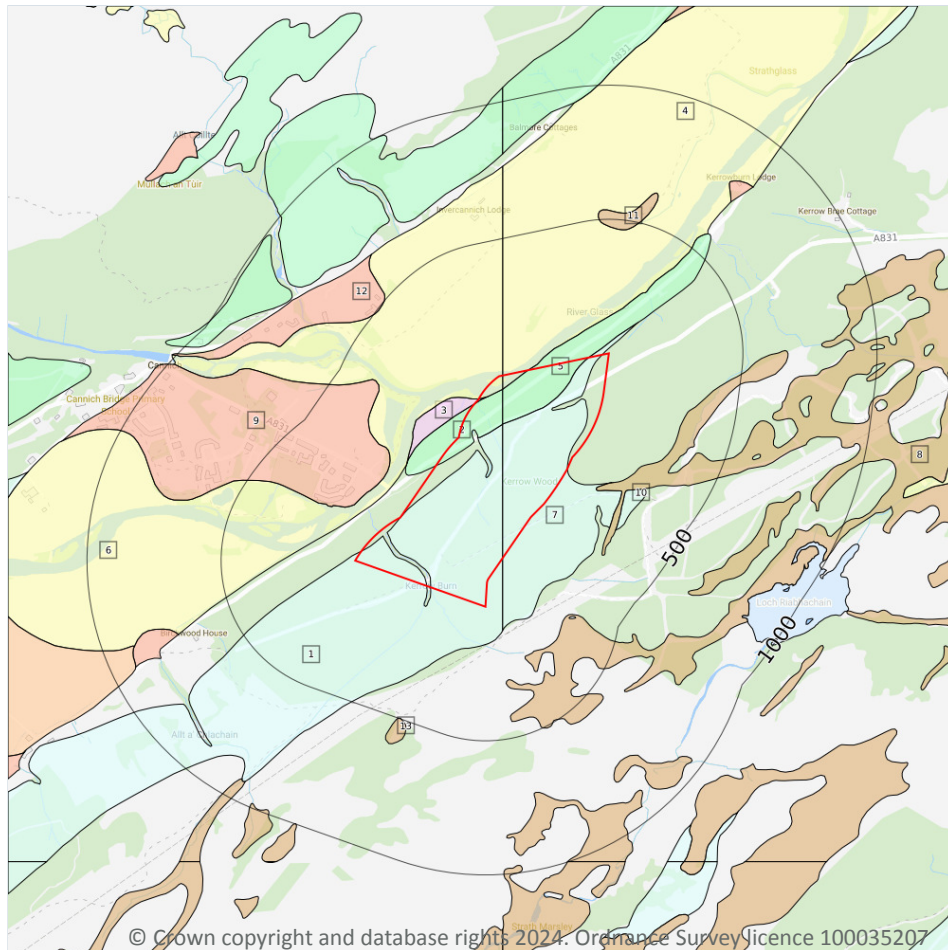
0

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.

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

13

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 47](#) >

| ID | Location | LEX Code | Description | Rock description |
|----|----------|------------|--|--|
| 1 | On site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 2 | On site | HMGDD-XDSV | Hummocky (moundy) Glacial Deposits, Devensian - Diamicton, Sand And Gravel | Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended] |



| ID | Location | LEX Code | Description | Rock description |
|----|----------|----------------|--|--|
| 3 | On site | GFSD- XSVB | Glaciofluvial Sheet Deposits, Devensian - Sand, Gravel And Boulders | Sand, Gravel And Boulders |
| 4 | On site | ALV-XSVB | Alluvium - Sand, Gravel And Boulders | Sand, Gravel And Boulders |
| 5 | On site | HMGDD- XDSV | Hummocky (moundy) Glacial Deposits, Devensian - Diamicton, Sand And Gravel | Diamicton, Sand And Gravel [unlithified Deposits Coding Scheme - Extended] |
| 6 | On site | ALV-XSVB | Alluvium - Sand, Gravel And Boulders | Sand, Gravel And Boulders |
| 7 | On site | TILLD- DMTN | Till, Devensian - Diamicton | Diamicton |
| 8 | 130m E | PEAT-P | Peat - Peat | Peat |
| 9 | 135m W | ALF-XVSZC | Alluvial Fan Deposits - Gravel, Sand, Silt And Clay | Gravel, Sand, Silt And Clay |
| 10 | 233m E | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |
| 11 | 463m NE | PEAT-P | Peat - Peat | Peat |
| 12 | 494m NW | ALF-XVSZC | Alluvial Fan Deposits - Gravel, Sand, Silt And Clay | Gravel, Sand, Silt And Clay |
| 13 | 498m S | PEAT-P | Peat - Peat | Peat |

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

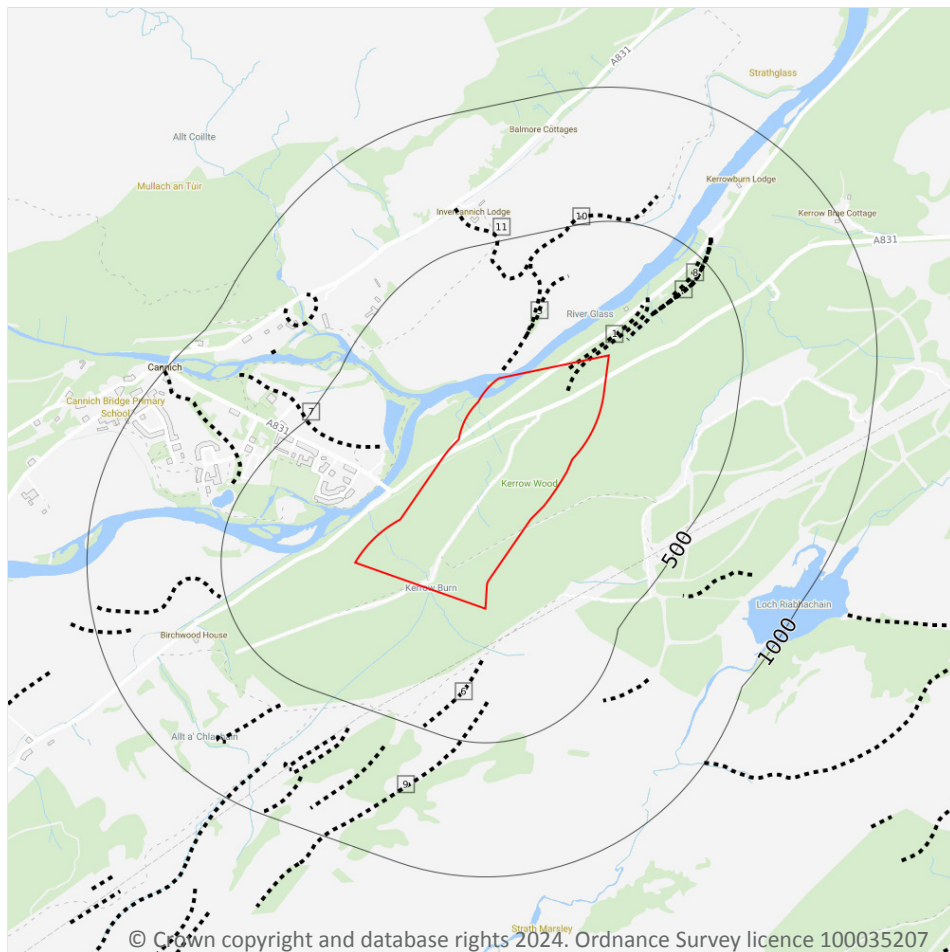
| | |
|---------------------|---|
| Records within 500m | 0 |
|---------------------|---|

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

0

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.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

17

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.



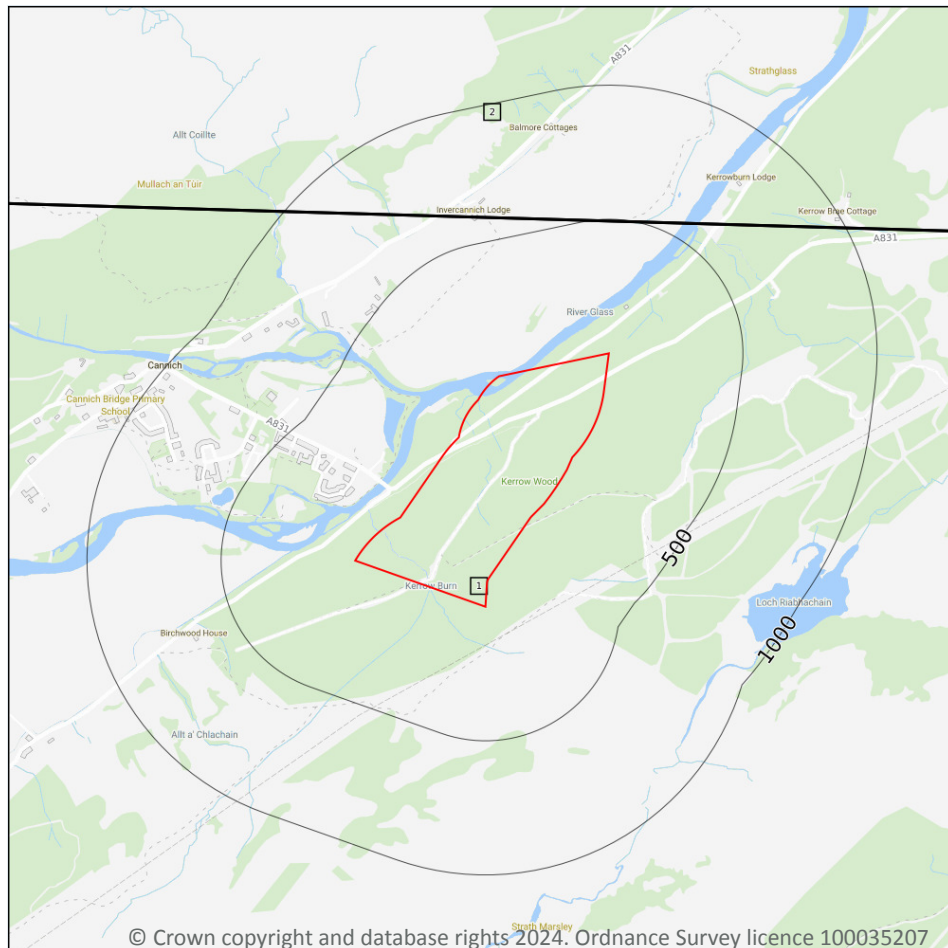
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 49 >](#)

| ID | Location | Category | Description |
|----|----------|----------|---|
| 1 | On site | LANDFORM | Crestline of linear feature |
| 2 | On site | LANDFORM | Ice marginal glacial meltwater channel, single side right |
| 3 | 28m N | LANDFORM | Palaeochannel, centre line (within terrace or fan) |
| 4 | 92m NE | LANDFORM | Ice marginal glacial meltwater channel, single side right |
| 5 | 134m N | LANDFORM | Palaeochannel, centre line (within terrace or fan) |
| 6 | 194m S | LANDFORM | Ice marginal glacial meltwater channel, single side right |
| 7 | 217m W | LANDFORM | Backfeature of terrace margin, arrowheads denote uphill side |
| A | 218m NE | LANDFORM | Ice marginal glacial meltwater channel, single sided right, head only |
| A | 218m NE | LANDFORM | Ice marginal glacial meltwater channel, single sided right, head only |
| A | 218m NE | LANDFORM | Ice marginal glacial meltwater channel, single sided right, head only |
| A | 218m NE | LANDFORM | Ice marginal glacial meltwater channel, single sided right, head only |
| A | 218m NE | LANDFORM | Ice marginal glacial meltwater channel, single sided right, head only |
| A | 218m NE | LANDFORM | Marked concave break of slope, arrowheads denote uphill side |
| 8 | 328m NE | LANDFORM | Crestline of linear feature |
| 9 | 348m S | LANDFORM | Marked concave break of slope, arrowheads denote uphill side |
| 10 | 355m N | LANDFORM | Palaeochannel, centre line (within terrace or fan) |
| 11 | 380m N | LANDFORM | Palaeochannel, centre line (within terrace or fan) |

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m

2

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 51](#) >

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|-------------|-------------|---------|---------------|-------------------------|
| 1 | On site | No coverage | Full | Full | No coverage | SC073w_Invermoriston_v4 |
| 2 | 493m NE | No coverage | Full | Full | No coverage | SC083w_Strathconon_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

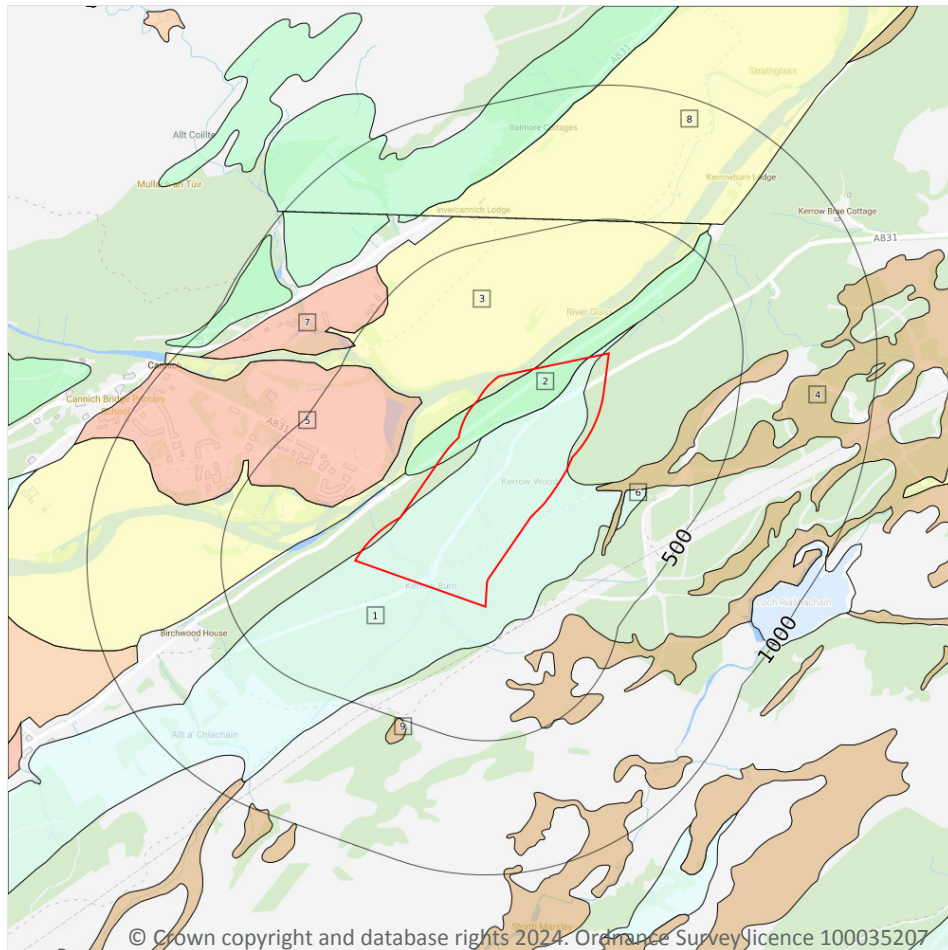
0

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

9

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 53](#) >

| ID | Location | LEX Code | Description | Rock description |
|----|----------|------------|---|----------------------------|
| 1 | On site | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON |
| 2 | On site | HMGDD-XDSV | HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVANSIAN | DIAMICTON, SAND AND GRAVEL |
| 3 | On site | ALV-XSVB | ALLUVIUM | SAND, GRAVEL AND BOULDERS |



| ID | Location | LEX Code | Description | Rock description |
|----|----------|------------|-----------------------|-----------------------------|
| 4 | 130m E | PEAT-P | PEAT | PEAT |
| 5 | 135m W | ALF-XVSZC | ALLUVIAL FAN DEPOSITS | GRAVEL, SAND, SILT AND CLAY |
| 6 | 233m E | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| 7 | 470m NW | ALF-XVSZC | ALLUVIAL FAN DEPOSITS | GRAVEL, SAND, SILT AND CLAY |
| 8 | 493m NE | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 9 | 497m S | PEAT-P | PEAT | PEAT |

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

| | |
|---------------------------|----------|
| Records within 50m | 6 |
|---------------------------|----------|

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 | 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 |

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

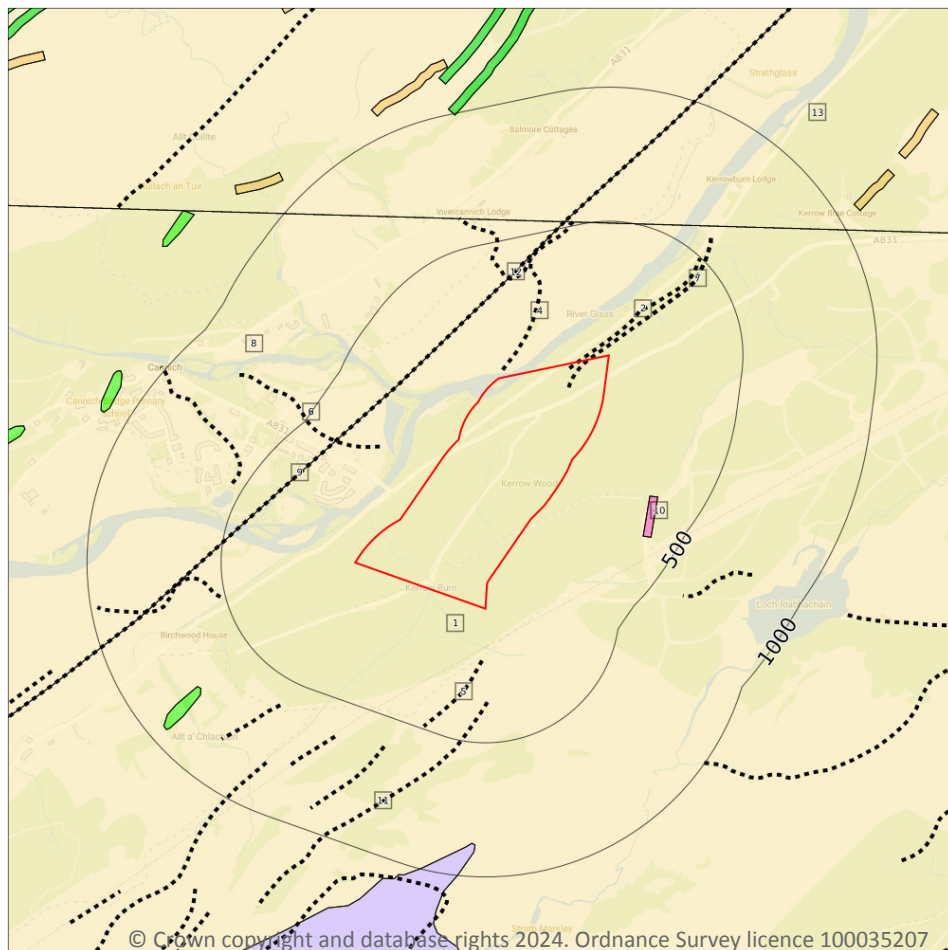
0

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



15.8 Bedrock geology (50k)

Records within 500m

4

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 56 >](#)

| ID | Location | LEX Code | Description | Rock age |
|----|----------|------------|--------------------------------------|----------|
| 1 | On site | TAPS-PSAMM | TARVIE PSAMMITE FORMATION - PSAMMITE | - |
| 8 | 241m N | TAPS-PSAMM | TARVIE PSAMMITE FORMATION - PSAMMITE | - |



| ID | Location | LEX Code | Description | Rock age |
|----|----------|------------|---|----------|
| 10 | 311m E | GMOR-PGLG | GLEN MORISTON VEIN COMPLEX - PEGMATITE AND LEUCOGRANITE | - |
| 13 | 493m NE | TAPS-PSAMM | TARVIE PSAMMITE FORMATION - PSAMMITE | - |

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

| | |
|---------------------------|----------|
| Records within 50m | 2 |
|---------------------------|----------|

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 |

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

| | |
|----------------------------|----------|
| Records within 500m | 9 |
|----------------------------|----------|

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 56](#) >

| ID | Location | Category | Description |
|----|----------|----------|---|
| 2 | On site | LANDFORM | Linear feature crestline |
| 3 | On site | LANDFORM | Ice-marginal glacial single-sided meltwater channel, right |
| 4 | 28m N | LANDFORM | Palaeochannel centre line (other than glacial meltwater channel or of unknown origin) |
| 5 | 194m S | LANDFORM | Ice-marginal glacial single-sided meltwater channel, right |
| 6 | 217m W | LANDFORM | Back-feature of terrace |
| 7 | 218m NE | LANDFORM | Ice-marginal glacial single-sided meltwater channel, right (head) |
| 9 | 241m N | FAULT | Fault, inferred, displacement unknown |



| ID | Location | Category | Description |
|----|----------|----------|---|
| 11 | 349m S | LANDFORM | Marked concave break in slope |
| 12 | 355m N | LANDFORM | Palaeochannel centre line (other than glacial meltwater channel or of unknown origin) |

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

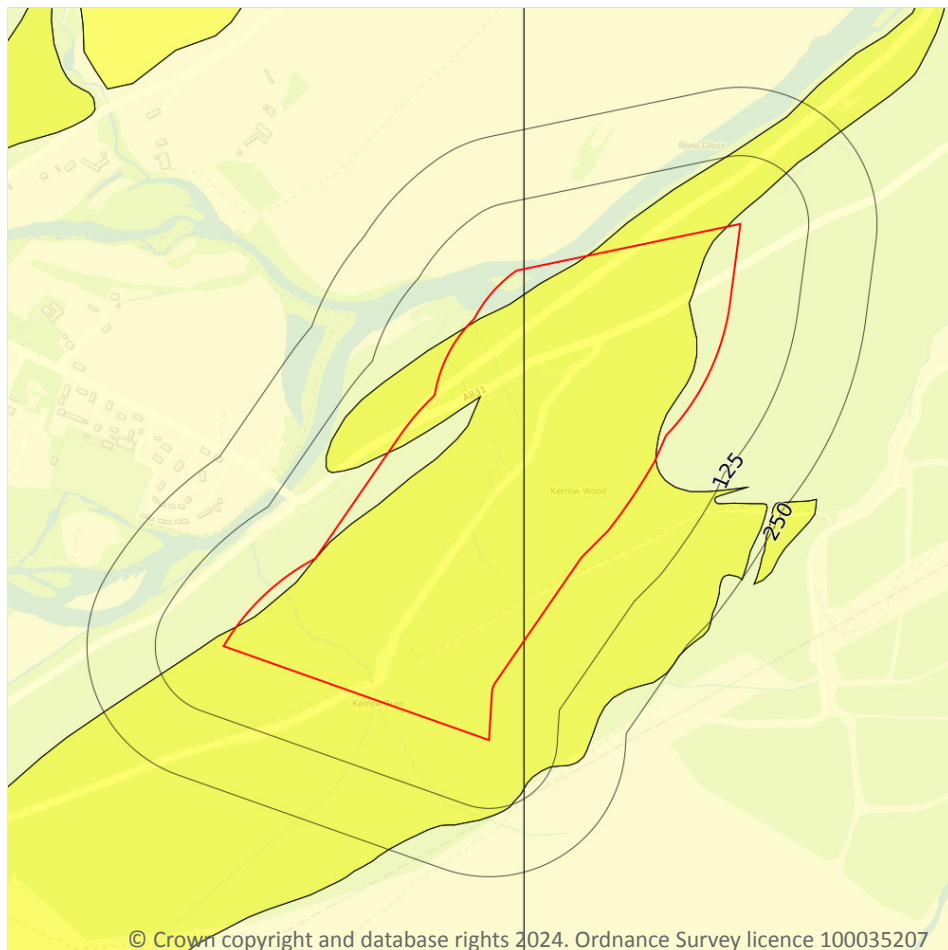
0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

2

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

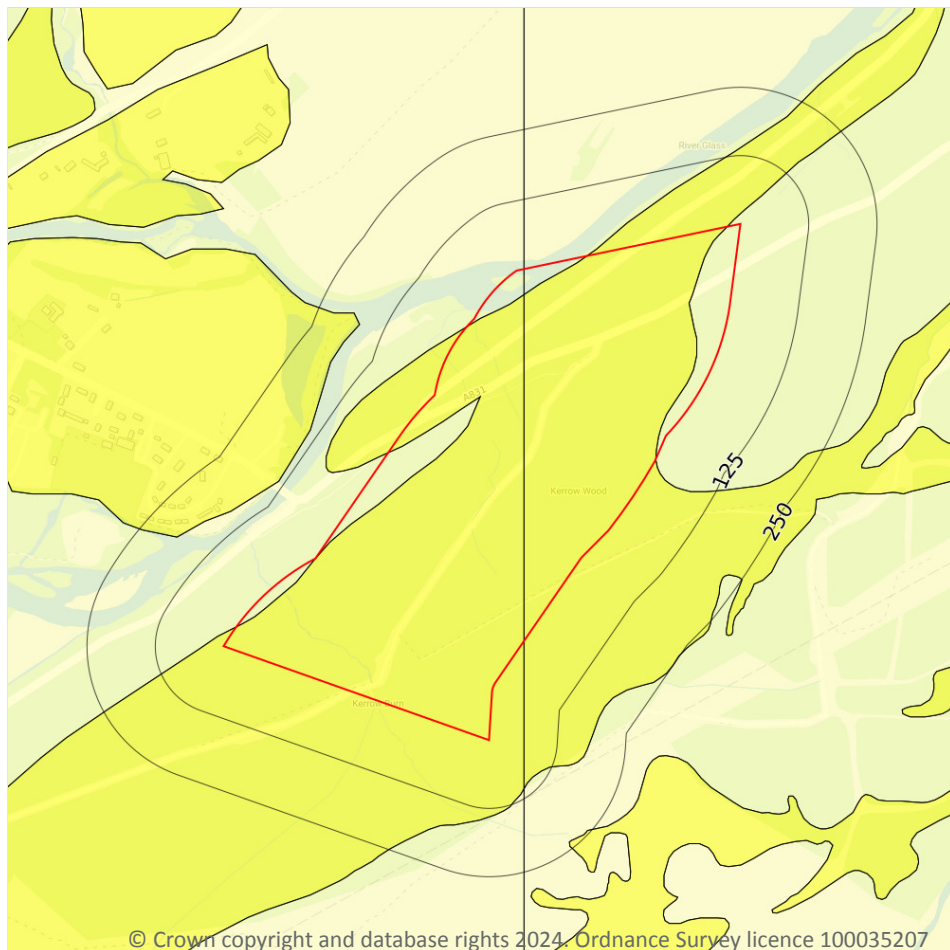
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 60](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 61](#) >

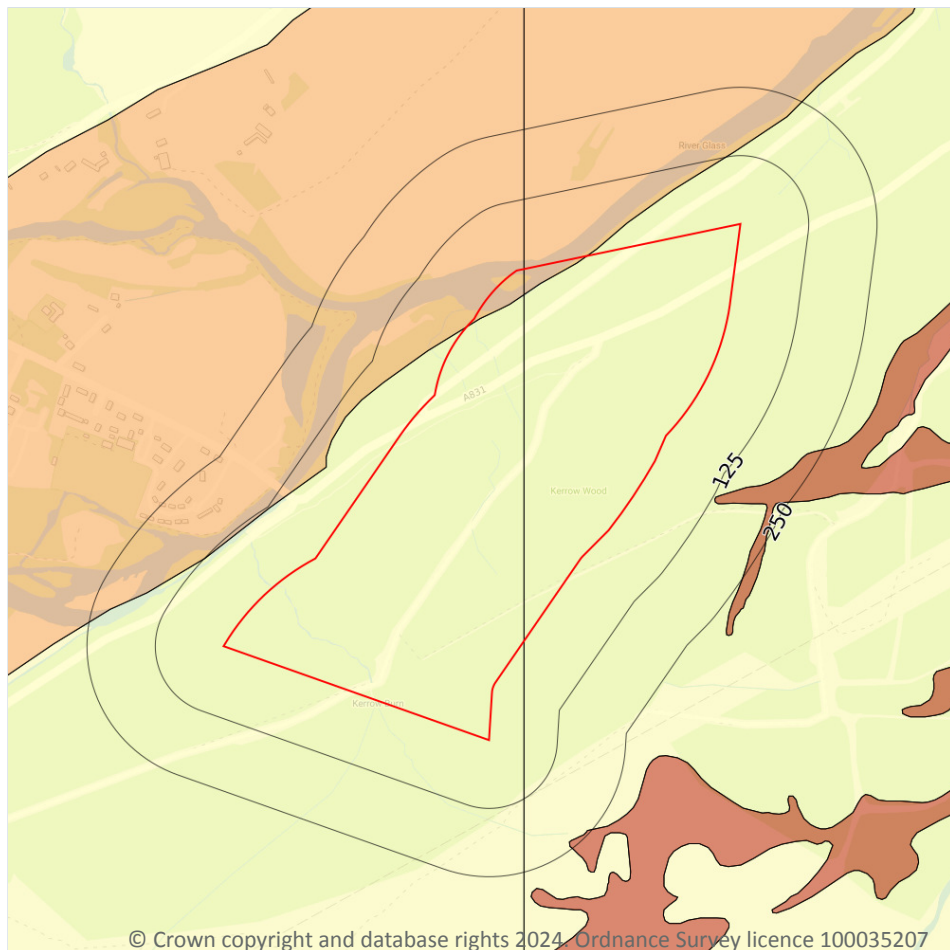
| Location | Hazard rating | Details |
|----------|---------------|--|
| On site | Negligible | Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions. |



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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

2

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 63](#) >

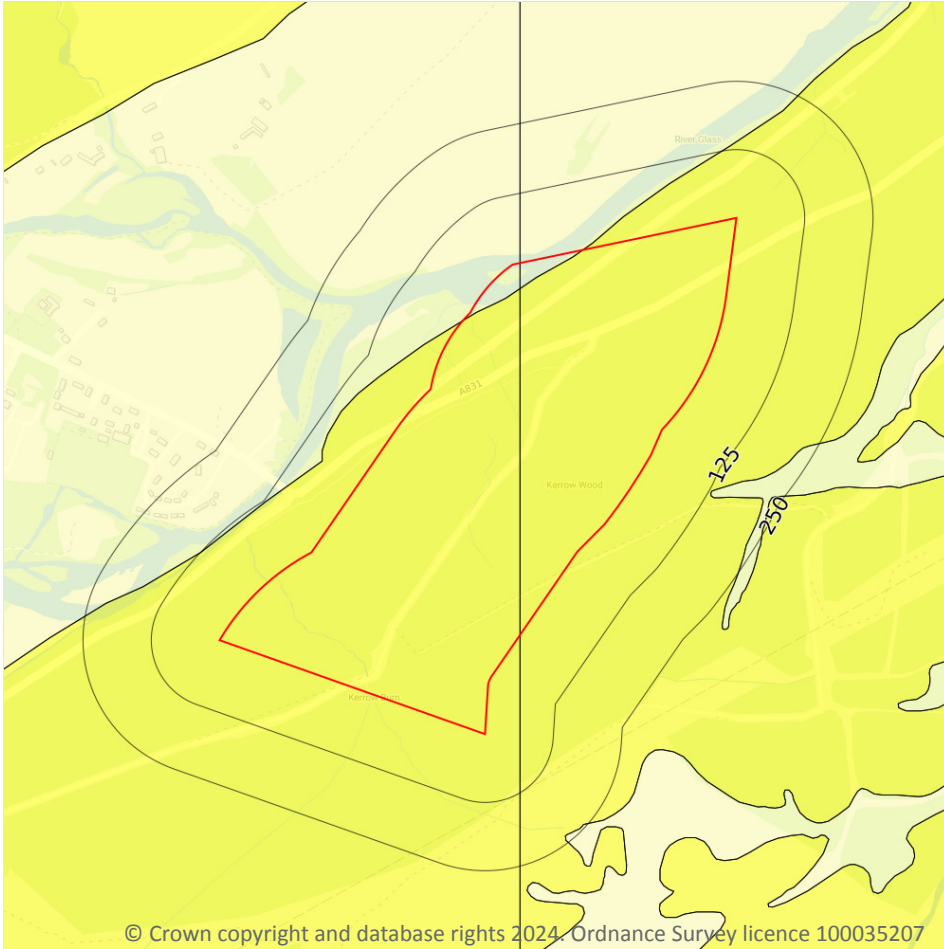
| Location | Hazard rating | Details |
|----------|---------------|--|
| On site | Negligible | Compressible strata are not thought to occur. |
| On site | Low | Compressibility and uneven settlement potential may be present. Land use should consider specifically the compressibility and variability of the site. |



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

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

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17.4 Collapsible deposits

Records within 50m

2

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.

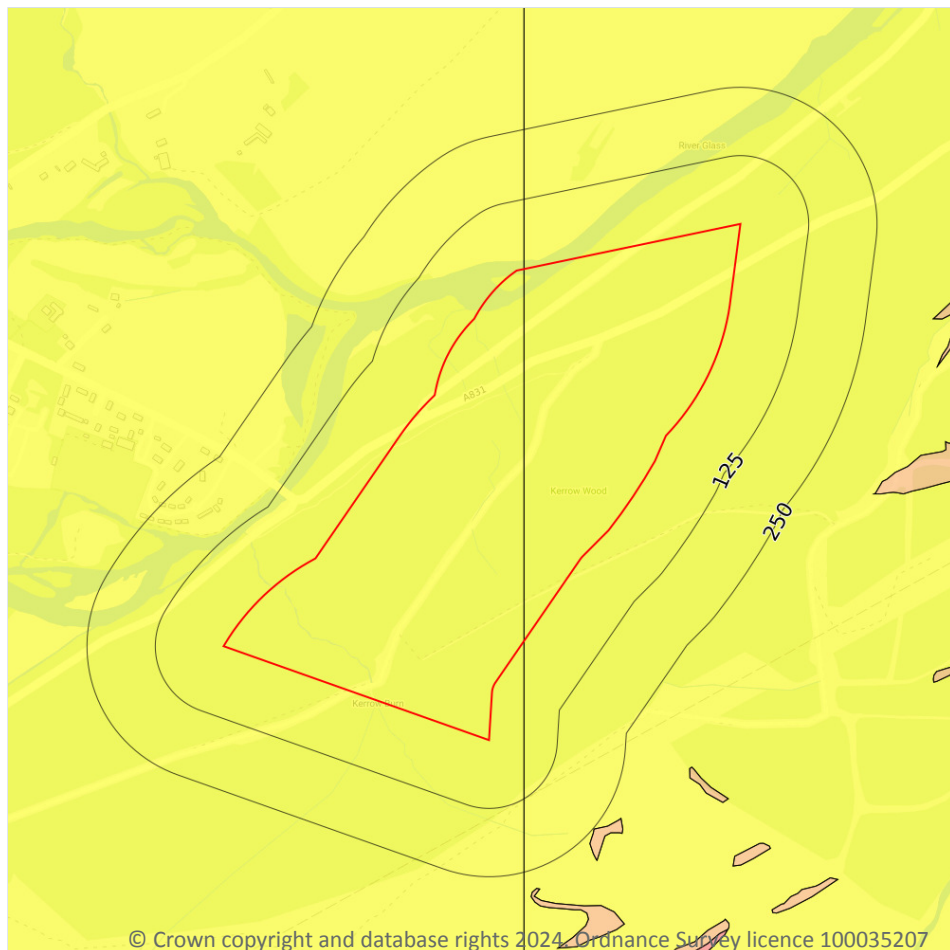
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 65 >](#)

| 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. |

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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.

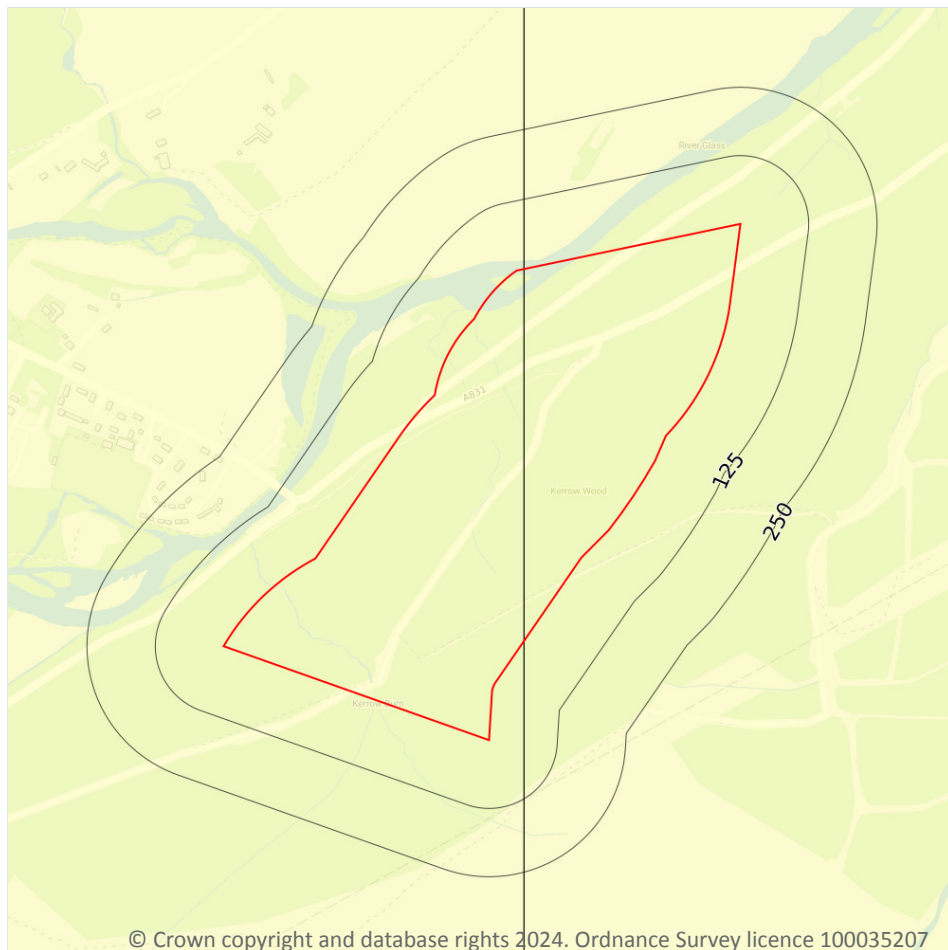
Features are displayed on the Natural ground subsidence - Landslides map on [page 66](#) >

| 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. |

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

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 67](#)

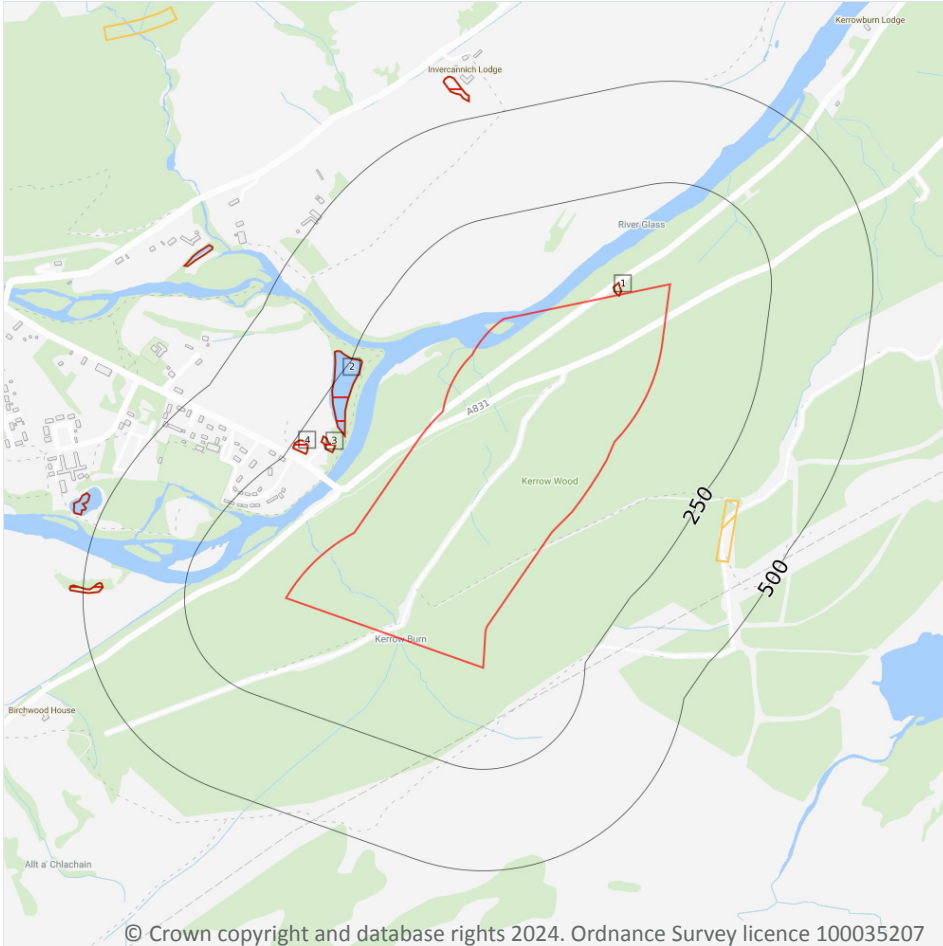
| Location | Hazard rating | Details |
|----------|---------------|---|
| On site | Negligible | Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present. |



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.



18.2 Surface ground workings

Records within 250m

4

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 69](#) >

| ID | Location | Land Use | Year of mapping | Mapping scale |
|----|----------|---------------------|-----------------|---------------|
| 1 | On site | Sand Pit | 1901 | 1:10560 |
| 2 | 155m W | Water Body | 1971 | 1:10000 |
| 3 | 157m W | Disused Sewage Beds | 1971 | 1:10000 |
| 4 | 208m W | Sand Pit | 1901 | 1:10560 |

This 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 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

1

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 69 >](#)

| ID | Location | Name | Commodity | Class | Likelihood |
|----|----------|---------------|--------------|-------|--|
| 5 | 303m E | 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.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

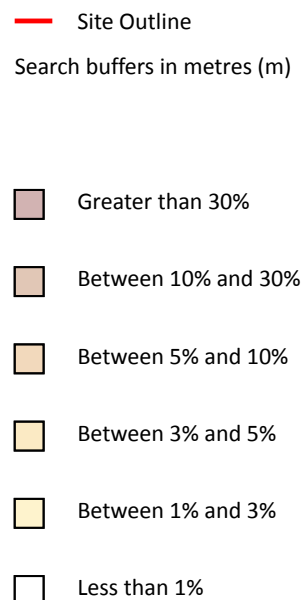
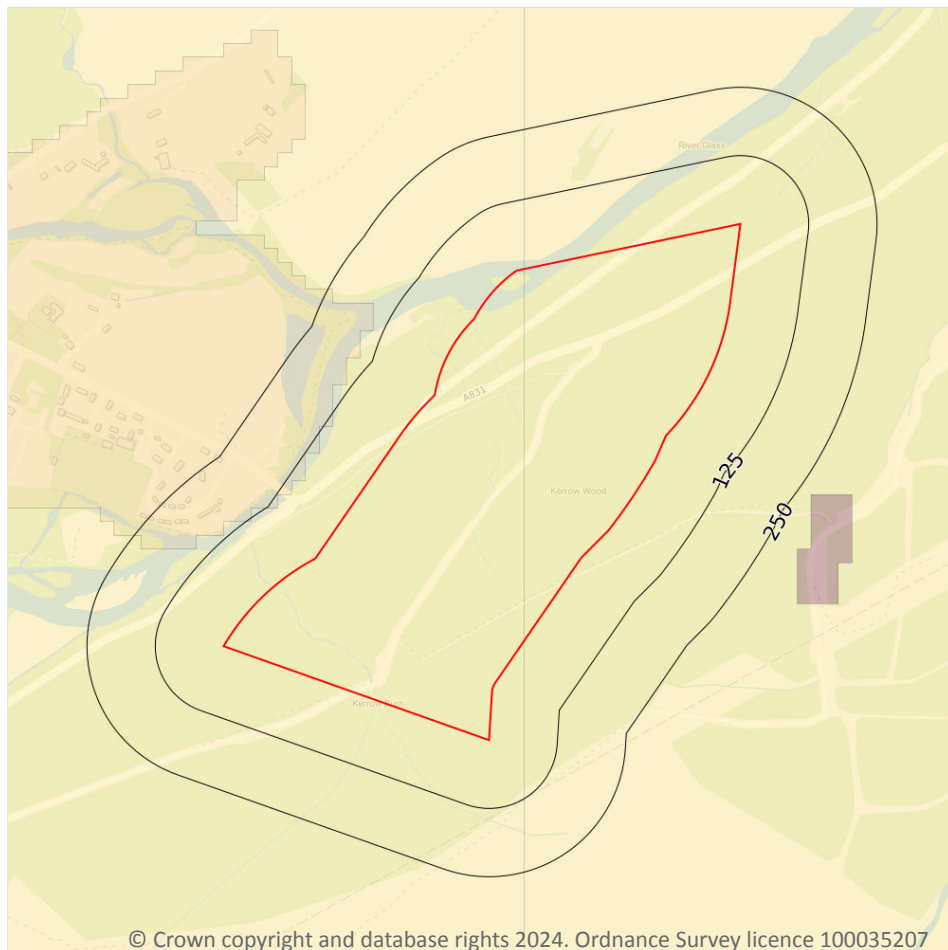
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

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 76 >](#)

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

11

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

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|----------|----------|-----------------------|-----------|--------------------|---------|---------------|---------------|
| On site | 15 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 |

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

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 | 0 |
|---------------------|---|

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

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 1

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

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

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

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

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

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

This data is sourced from HS2 Ltd.



Data providers

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

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