Scottish and Southern Electricity Networks (SSEN)

KINTORE TO TEALING 400KV OHL - SECTION F

Geo-environmental Preliminary Risk Assessment

UK0040111.5101 /001
JULY 2025

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PRELIMINARY RISK ASSESSMENT

UK0040111.5101

PROJECT NO. UK0040111.5101

OUR REF. NO. UK0040111.5101 /001

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CONTENTS

APPENDICES

APPENDIX A

FIGURES

APPENDIX B

ADDITIONAL INFORMATION

APPENDIX B.1

GROUNDSURE REPORT

APPENDIX B.2

ZETICA UXO MAPS

APPENDIX C

LEGISLATIVE BACKGROUND

APPENDIX D

CIRIA RISK DEFINITIONS

APPENDIX E

GENERAL LIMITATIONS

EXECUTIVE SUMMARY

WSP UK Ltd (WSP) was commissioned by SSEN (the 'Client') to undertake a Phase 1 Geo-environmental Preliminary Risk Assessment (PRA) for Section F of the proposed Kintore to Tealing 400 kV Overhead Line (OHL) located between Kintore and Nether Park (the 'Study Area').

The principal aim of this assessment has been to identify potential risks from soil and groundwater contamination that may affect the proposed development.

The report highlights environmental considerations, predominantly with respect to ground conditions, and was requested to support construction of an Over Head Line (OHL) at site.

Study Findings

The majority of the Study Area comprises agricultural land, woodlands, plantations, and vacant land. Additionally, several major roads (A944, B977, B9119, B9125, and A93) as well as minor roads intersect the Study Area at various locations.

Historical maps indicate that the majority of the Study Area has been undeveloped since the first available map edition (1865-1904), with some localised historical industrial land uses on and near the Study Area.

The Study Area is underlain by Glaciofluvial superficial deposit overlying bedrock composed of Granodiorite. Made Ground is anticipated onsite due to the presence of major and minor roads. The bedrock aquifer is classified as a low productive aquifer.

Onsite surface water features include the Gormack Burn (near Landerberry Road and Couper's Road) and the Bogendinny Burn (flowing south of Study Area near Fairview). Both are classified to have an overall water quality of 'Moderate' in the year 2023 according to SEPA's Water Classification Hub. The Corskie Burn, Mony Burn, and Park Burn are also located on the Study Area; however, their identification and water quality could not be determined or reported on either Groundsure or the SEPA's Water Classification Hub website.

The preliminary risk assessment identifies a Low risk to human health, with the risk to the water environment considered Low. The risk to buildings and services is also considered to be Low.

Conclusions

The proposed presence of hardstanding reduces the probability of contemporary user exposures at a material frequency should contamination (e.g. heavy metals, TPH, PAH and asbestos) exist in these areas.

Based on the information contained within this report, it is the opinion of WSP that the Study Area represents a **Low risk** with respect to contaminated land.

1 INTRODUCTION

1.1 AUTHORISATION

WSP UK Ltd (WSP) was commissioned by SSEN (the 'Client') to undertake a Phase 1 Geo-environmental Preliminary Risk Assessment (PRA) for Section F of the proposed Kintore to Tealing 400 kV Overhead Line (OHL) located between Kintore and Nether Park (the 'Study Area').

The Study Area boundary follows a linear corridor, extending from the Kintore Grid Supply Point in the north to Nether Park Quarry in the south. This corridor traverses a range of geographical features, including woodlands, hills, and burns (streams).

1.2 PROJECT BACKGROUND & CONTEXT

WSP understands that the Study Area is a portion of the new Kintore-Tealing 400kV Overhead Line (OHL) connection (the 'proposed development'). The principal aim of this assessment is to assess potential geo-environmental risks associated with the proposed development and provide preliminary commentary on the ground related development constraints for the Study Area in the context of the proposed development.

The Study Area location and proposed development plans are presented in Figure 1 and 2 within **Appendix A**.

1.3 SOURCES OF INFORMATION

This report has been prepared using the information sources as listed below:

- BGS geology viewer accessed on 24 February 2025, available online http://mapapps2.bgs.ac.uk/geoindex/home.html;
- Groundsure report reference GS-5KA-WY5-YIW-L46 and GS-6GU-RAM-RGA-LNP (historical maps) dated 17 February 2025 (presented as **Appendix B.1**);
- Mining Remediation Authority Map viewer accessed on 24 February 2025 through https://datamine-cauk.hub.arcgis.com/
- UK Radon interactive map viewer accessed on 24 February 2025 http://www.ukradon.org/information/ukmaps;
- Online environmental data available on the Scotland Environment website access 24 February 2025 Map | Scotland's environment web ;
- Scottish Environment Protection Agency (SEPA) Water Environment Hub accessed on 24 February 2025 through Water Classification Hub (sepa.org.uk);
- Zetica UXO Assessment Risk Maps accessed on 24 February 2025 https://zeticauxo.com/downloads-and-resources/risk-maps/ (**Appendix B.2**);
- Legislative Background (**Appendix C**); and
- Contaminated Land Risk Assessment CIRIA 552 (Tables included in **Appendix D**).

1.4 LEGISLATIVE CONTEXT AND GUIDANCE

The assessment was undertaken in the legislative context of:

- Part 2A of The Environmental Protection Act (1990).
- National Planning Policy Framework (NPPF) (Chapter 9C).

The following good practice and statutory guidance was considered, and the assessment was undertaken in general accordance with:

- Environment Agency 'Land Contamination Risk Management (LCRM)', 2023.
- CIRIA 'Assessing Risks Posed by Hazardous Ground Gases to Buildings', C665 (2007).
- British Standard 'Investigation of Potentially Contaminated Sites – Code of Practice', BS EN 10175:2011 + A2: 2017.
- Defra 'Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance', PB13735 (2012).
- Scottish Government Planning Advice Note 33 (PAN 33).

1.5 LIMITATIONS

The report is addressed to and may be relied upon by SSEN, as "the Client" within the meaning given to that phrase within the agreement and subject to the terms and conditions contained therein.

This report has been completed with regard to generally accepted consulting practices and may not be relied upon by any other party without the explicit written agreement of WSP. No other third-party warranty, expressed or implied, is made as to the professional advice included in this report. This report must be used in its entirety.

Unless WSP has actual knowledge to the contrary, WSP has assumed the correctness and completeness of third-party information supplied and shall have no liability in respect of any inaccuracy, defect or omission in any information or materials provided, anecdotally or otherwise, by the Client or any other third party to WSP. WSP does not assume any liability for misrepresentation of information or for items not visible, accessible, present or supplied at the time of the study.

The general limitations to the nature of the assessment are outlined in **Appendix E**.

2 ENVIRONMENTAL SETTING

2.1 STUDY AREA DETAILS

Pertinent Study Area details are summarised in Table 2-1. Study Area location and proposed development plans are presented in Figures 1 and 2, included in **Appendix A**.

Table 2-1 – Study Area Details

Aspect	Details
Study Area address	Study Area centred at B9119, Glenecht, Echt, Aberdeenshire, Scotland, AB32 6UN
National Grid Reference	Easting:375734, Northing: 806039 (approximate Study Area centre)
Study Area Setting and Surrounding Area	The Study Area is set within a predominantly rural / agricultural setting.
Study Area Size (approximate)	530 Hectares

2.2 STUDY AREA DESCRIPTION

The Study Area boundary follows a linear corridor, extending from the Kintore Grid Supply Point in the north to Nether Park Quarry in the south. Key water bodies across the route include the Corskie Burn – (flowing through the central section), Gormack Burn (located near Landerberry Road), Bogedinny Burn (south of Study Area near Fairview),Mony Burn (south of Study Area near West Coldstream) and several smaller burns. The Study Area comprises forests like Corskie Wood, Tillybrig Wood, Scaur Wood, North Kirkton Wood, Marketmuire Wood, Coldstream Plantation, Collanach Plantation and Loch of Park. The boundary intersects several major roads (A944, B977, B9119, B9125, and A93) as well as minor roads across the Study Area at various locations.

2.2.1 OFFSITE

The Study Area is bound by agricultural fields to the north, south, east and west.

2.3 PUBLISHED GEOLOGY

The following geological sequence is anticipated on and in the vicinity of the Study Area based on British Geological Survey (BGS) 1:10,000 scale (Sheet NO79N Solid and Drift edition) geological maps, 1:50,000 scale (Sheet 76E - Inverurie, Solid and Drift Edition, 1:50:000, Sheet 66E - Banchory, Solid and Drift Edition, 1:50:000) geological maps and the Groundsure report:

Table 2-2 – Summary of Published Geology

Geological Unit	Estimated Thickness (based on historical boreholes)	Location along the route	Description
Made Ground			
Worked Ground (Undivided)	Unknown	The Study Area is likely underlain by Made Ground where several roads cross the Study Area at various locations.	
Superficials			
Banchory Till Formation	Unknown	Mapping indicates this superficial deposit is present at northern most part of the Study Area (near Kintore Substation) and extended till Nether Park Quarry.	Gravelly and sandy diamicton composed principally of decomposed Neoproterozoic metamorphic rocks and Caledonian igneous rocks.
Lacustrine Deposits	Unknown	Mapping indicates this superficial deposit is present at centre most part of the Study Area (near Carskie Wood).	Clastic deposits, including fine-grained sediments (i.e. clay and silt).
Glaciofluvial sheet deposits	Unknown	Mapping indicates this superficial deposit is present in the north (near Kintore Substation), the centre (near Carskie Wood), the south (near North Kirkton Wood) and southern most end (near Loch of Park).	Sand and gravel, locally with lenses of silt, clay or organic material.
Alluvium	Unknown	Mapping indicates the presence of this superficial deposit where the Study Area boundary intersects with A944, B9119 and B9125 road.	Soft to firm consolidated, compressible silty clay.

Geological Unit	Estimated Thickness (based on historical boreholes)	Location along the route	Description
Peat	Unknown	Mapping indicates this this superficial deposit is present near North Kirkton Wood, Lanberry Road, Quartains Moss and Loch of Park.	Partially decomposed mass of semi-carbonized vegetation.
Hummocky (Moundy) Glacial Deposits	Unknown	Mapping indicates this this superficial deposit is present south of Study Area near Loch of Park.	Composed of rock debris, clayey till and poorly- to well-stratified sand and gravel
Bedrock			
Kemnay Pluton	Unknown	Mapping indicates this bedrock is present at the northern most part of the Study Area (near Kintore Substation) and extends to Burnside.	Granite, foliated-Muscovite-Biotite
Crathes Pluton	Unknown	Mapping indicates this bedrock is present beneath the majority of the Study Area and starts from the northern section of the Study Area (near Burnside) and extends to Nether Park Quarry.	Granodiorite
Balblair Intrusion	Unknown	Mapping indicates this bedrock is present near the Scour wood and east of the Echt cross.	Microgranodiorite

BGS Borehole Logs

Two BGS borehole logs (BGS website: www.bgs.ac.uk/data/boreholescans) are recorded for the Study Area. (BGS website: NJ70NW3 and NJ70NW4).

The geology recorded from the borehole is summarised as below:

Table 3 - Summary of Borehole Geology

Borehole ID	Geological Unit	Thickness in m (based on historical boreholes)	Description
NJ70NW3 (located onsite at the eastern boundary of the Study Area near Corskie Burn, Tilly Brig, Echt)	Topsoil	0.1	Topsoil
	Fluvioglacial sand and gravel	4.2	**Sandy gravel:** large scale cross-bedding eastwards **Gravel:** fine to coarse, becoming coarser down with cobbles and boulders at base. Subangular to subrounded pink and grey granites with some psammite, vein-quartz and platy pelite.vein-quartz and platy pelite. **Sand:** coarse with medium, angular to subangular quartz and feldspar, pale olive to grey but heavily iron-stained towards top **Fines**: a little silt
NJ70NW4 (located onsite at the eastern boundary of the Study Area near Corskie Burn, Tilly Brig, Echt)	Topsoil	0.3	Topsoil
	Alluvium	3.2	**Sandy clayey silt (1.6m):** soft to firm, dusky yellowish brown (10 YR 2/2), peaty, interbedded with clean coarse-grained granitic sand. **Peat (0.3m):** very silty, soft to firm, olive black **Clayey sand (1.3+m):** Gravel – fine, granite; Sand – medium with coarse and fine, angular to subangular quartz and feldspar; Fines – silty with sticky clayey bands and rare seams of peaty silt.

2.4 MINING

Reference to the Mining Remediation Authority (MRA) Interactive Map Viewer online indicated that the Study Area does not lie within a Coal Mining Reporting Area.

2.5 GROUNDWATER QUALITY

In accordance with the Water Framework Directive, the Scottish Environment Protection Agency (SEPA) maintains its quality classification of the water environment following River Basin Management Planning (RBMP). This information is available on SEPA's Water Environment Hub (https://www.sepa.org.uk/data-visualisation/water-classification-hub/). The following groundwater quality information is available for the Study Area:

Table 2-4 – Groundwater Quality Summary

Waterbody Name	Type	Local Authority	Overall Classification	Comments
Inverurie (ID: 150685)	Bedrock	Aberdeenshire Council	Good	2023 Classification
Peterculter (ID: 150661)	Bedrock	Aberdeenshire Council	Good	2023 Classification

Drinking Water Protection Zones are not defined in Scotland. Following SEPA's position, all Scotland's groundwater bodies are designated as Drinking Water Protected Areas (DWPAs) and therefore their associated groundwater resource potential must be protected.

2.6 GROUNDWATER VULNERABILITY

The BGS Groundwater Vulnerability Map of Scotland, scale 1:625,000 (1988) reports vulnerability in terms of the thickness of the overlying superficial deposits. Groundsure's digitised mapping of this reference reports the geological classifications of the Study Area as a Low productive aquifer (Argyll Group), in which flow is virtually all through fractures and other discontinuities.

Additionally, SEPA's Water Environment Hub (https://map.environment.gov.scot/sewebmap/) also provides the following contemporary 'Aquifer Classification' for the bedrock aquifer.

Table 2-5 – Groundwater Vulnerability Summary

Rock Unit	Character	Flow Mechanism	Summary
Argyll Group	Low productive aquifer	Flow is virtually all through fractures and other discontinuities	Small amounts of groundwater in near surface weathered zone and fractures.

2.7 WATER ABSTRACTIONS

WSP contacted the Aberdeenshire Council and SEPA via email on 03 March 2025 regarding water abstraction records held relating to the Study Area. At the time of writing, no response has been received from the above-mentioned sources for the Study Area. Should any response be received, an updated report will be provided.

2.8 HYDROLOGY

According to the Groundsure report, there are three inland rivers present onsite and they are described as following:

- The Gormack Burn (ID: 23320) near Landerberry Road and Couper's Road is classified to have an overall water quality of 'Moderate' in the year 2023 according to SEPA's Water Classification Hub.
- The Bogendinny Burn (ID: 23324) flowing south of Study Area near Fairview is classified to have an overall water quality of 'Moderate' in the year 2023 according to SEPA's Water Classification Hub.

- The Corskie Burn, Mony Burn, and Park Burn are also located on the Study Area; however, their identification and water quality could not be determined or reported on either Groundsure or the SEPA's Water Classification Hub website.

2.9 FLOODING

According to the Groundsure Report, the majority of the Study Area is at negligible risk from coastal flooding. However, the mid and southern part of the Study Area, near old Kinnethie, Echt, Redmoss and Gallow hill, is identified as being at risk of flooding from river and surface water greater than 1.0m in a 1 in 30-year event.

According to the Groundsure Report, the majority of the Study Area is at moderate risk from groundwater flooding.

2.10 SENSITIVE SURROUNDING LAND USES

The Groundsure report indicates that few environmentally designated sensitive land uses are recorded onsite and within 500m of the Study Area boundary:

Table 2-6 – Sensitive Surrounding Land Uses

Type	Description
Designated ancient woodland	Offsite: Woods of Redhall, Cammackmuir Plantation, Jacksbank Wood, Den Wood are recorded to be present onsite and these are also present within 500m of Study Area.
Sites of Special Scientific Interest (SSSI)	Onsite: Loch of Park (southern portion of Study Area near Collonach Plantation).
Special Areas of Conservation (SAC)	Offsite: River Dee located 324m south of the Study Area.
Designated ancient woodland	Onsite: Tillybrig/scaur/+ Woods, Backstrip Wood, Myriewell Wood, Corskie Wood, North Kirkton Wood, Marketmuir Wood, Collonach/coldstream Plant and few unknown variety are recorded to be present onsite. Offsite: Hindhill/garden/+ Woods, Stonyhill/harthills Plantation, Myriewell Wood, Glack Wood, Dairy Wood are located within 500m of the Study Area.
Listed Buildings	Offsite: West Lodge, Park House located 56m south of the Study Area, West Lodges, Dunecht House located 61m north-west of the Study Area, Templefold located 155m and 179m south-east of the Study Area and Threshing Mill, Templefold located 180m south-east of the Study Area.
Scheduled Ancient Monuments	Onsite: New Wester Echt, stone circle Offsite: South Leylodge Steading, stone circle located 40m north to the centre of the Study Area and East Finnercy, cairn located 11m south to the centre of the Study Area.
Registered Parks and Gardens	Onsite: Park House and Dunecht House

2.11 ENVIRONMENTAL SENSITIVITY

Overall, the Study Area setting is considered to be of moderate sensitivity, due to the following:

- Presence of ‘Moderate’ quality surface water feature within 250m;
- Presence of a ‘good’ quality moderately productive bedrock aquifer underlying the Study Area;
- Presence of residential land uses within 250m; and,
- Presence of designated ancient woodland, SSSI, SAC, listed buildings, Scheduled Ancient Monuments and Registered parks and gardens on and adjacent to the Study Area.

3 STUDY AREA AND SURROUNDING AREA HISTORY

A review of historical Ordnance Survey (OS) maps has been undertaken to identify potential former sources of contamination and sensitive receptors. The historical OS maps reviewed are provided within the Groundsure report in **Appendix C.1,** and pertinent findings are summarised below.

3.1 ONSITE

3.1.1 ONSITE HISTORICAL MAPPING

The earliest available mapping, dating from 1865 to 1887, shows the Study Area as undeveloped land, remaining unchanged until 1969.

- In 1867, a few unnamed roads were identified intersecting the Study Area.
- In 1901, an old gravel pit was identified to the east of the central area of the Study Area, and a mill dam was located to the north of the northern portion.
- A sand pit was identified to the east of the northern portion of the Study Area in 1955-1956.
- The electric grid was shown passing across the centre of the northern portion of the Study Area in 1955-1956, with additional connections to the existing grid identified in 1968-1969.
- The Aberdeenshire to Kincardineshire Road passed across the centre of the southern portion of the Study Area in 1901.
- The Kintore Grid Supply Point was established in the north of the Study Area between 1991 and 1992.

3.1.2 ONSITE REGULATORY INFORMATION

A review of the Groundsure report for the Study Area has reported the following potentially contaminative land uses (some of which are not identified on historical mapping):

- Sand pit located on site which was active from 1901 to 1956
- electrical substation identified onsite in 1991
- old gravel pit present onsite from 1901 to 1955
- refuse heap recorded onsite in both 1901 and 1956, and;
- an unspecified quarry located onsite in 1867.

3.2 OFFSITE

Offsite features identified are listed below with their distance located from the Study Area:

- A spring is identified to the west of the central area of the Study Area, near Upper Mains, while a mill dam is located to the east of the central part of the Study Area in 1867.
- Sand pits are identified to the west of the central part of the Study Area in 1901.
- An aqueduct is identified to the east of the southern portion of the Study Area in 1928.
- The Sunninghill Egg Packing Station is identified to the east of the southern portion of the Study Area in 1969.
- Buchan's School, located to the east of the northern portion of the Study Area in 1869, is renamed Leylodge School in the 1901 mapping.
- An electrical substation, tanks, and garages are identified to the north of the Study Area between 1991 and 1992.

- Two quarries are identified to the west of the central portion of the Study Area in 1901, later renamed Cragenlow Quarry in 1969.
- The River Dee is shown flowing south of the southern portion of the Study Area in 1887.
- Chalybeate Spring is identified to the north of the southern portion of the Study Area, near Maryfield, in 1902.
- A gravel pit is identified to the south of the southern portion of the Study Area, near Mills of Crathes, in 1956.

3.2.1 OFFSITE REGULATORY INFORMATION

A review of the Groundsure report for the Study Area has reported the following potentially contaminative offsite land uses (some of which are not identified on historical mapping):

Several features were noted offsite, including:

- Gravel pit located 2m to the northwest,
- Smithy situated 54m to the south,
- Sand pit 156m to the northwest,
- Unspecified tank 184m to the north,
- Unspecified quarry 188m to the west,
- Refuse heap 284m to the south,
- Corn mill 371m to the southeast, and;
- Gasometer 435m to the north.

4 REGULATORY INFORMATION

4.1 GROUNDSURE REGULATORY INFORMATION SUMMARY

Table 4-1 – Regulatory Information Summary

Groundsure Feature	Onsite	0-50m	50-250m	250-500m	Details
Historical Industrial Land Uses	6	3	29	31	See Section 3
Historical Tanks	2	4	13	12	See Section 3
Historical Energy Features	2	0	0	3	The electricity substation located onsite has been present from 1984 to 1988. The closest offsite feature is a gasometer, located 432m to the north in 1900.
Historical Garages	0	0	0	0	N/A
Active or Recent Landfill	0	0	0	0	N/A
Historical Landfill Sites	0	0	2	0	The closest landfill related to a refuse tip located 118m north of the Study Area from 1997.
Licenced Waste Sites	0	0	0	0	N/A
Historical Waste Sites	0	0	1	0	A historical waste site associated with inert waste recycling located 226m north of the Study Area.
Recent Industrial Land Uses	13	4	28	-	Industrial land uses onsite relate to electrical features and water pumping station under infrastructure and facilities category. Closest offsite industrial land uses relate to electrical features 1m north of the Study Area.
Current or Recent Petrol Stations	0	0	0	0	N/A
Gas Pipelines	3	0	0	0	Gas pipelines identified onsite are owned by National Grid named as St Fergus to Aberdeen to Kirriemuir.
Control of Major Accident Hazards (COMAH)	0	0	0	0	N/A

Groundsure Feature	Onsite	0-50m	50-250m	250-500m	Details
Hazardous Substances Storage/Use	0	0	0	0	N/A
Part A(1), IPPC and Historic IPC Authorisations	0	0	0	1	The nearest offsite feature is located 350m southeast and relates to National Grid Gas Plc for combustion of Natural Gas with License reference PPC/A/1008692.
Pollution Inventory Substances	0	0	0	0	N/A
Pollution Inventory Waste Transfers	0	0	0	0	N/A
Part B Authorisations	0	0	0	0	N/A

The distance for all the features was calculated from the approximate centre of the Study Area at co-ordinates (375734, 806039)
***Note:** The features listed in the table above have been derived from the data provided in the Groundsure Report and may not be present on the historical map.*

4.2 RADON GAS

Based on the Groundsure report and UK Radon interactive map (https://www.ukradon.org/information/ukmaps) the majority of the Study Area lies within a high probability radon area where between 10% and 30% of homes are estimated to be at or above the Action level. The maximum radon potential ranges between 10% - 30% and 5% - 10% are recorded at central part of the Study Area. Given the proposed land use, no radon protection measures are considered necessary for the Study Area.

4.3 UNEXPLODED ORDNANCE

Zetica Risk Maps indicate that the Study Area is located in an area of low risk in regard to unexploded ordnance (**Appendix B**).

The UXO Risk Map for the Study Area is included in **Appendix B.2.**

4.4 RADIUM

A review of available records for Radium was undertaken and this indicated the Study Area does not pass through SEPA's 1km search area for Radioactive substances. The risks associated with Radium are therefore considered low.

5 INITIAL CONCEPTUAL SITE MODEL

5.1 INTRODUCTION

This section of the report presents the characteristics of the Study Area and provides a systematic indication of the risks to enable uncertainties and further assessment needs or other actions to be identified. It draws on the information presented in earlier sections of the report to identify plausible contaminant-pathway-receptor contaminant linkages. Details regarding the legislative framework for this assessment are presented within **Appendix C**.

5.2 POTENTIAL SOURCES

Based on information (as presented in section 3 and section 4.1) reviewed as part of this desk study and findings of the Study Area inspection, the following potential sources of contamination have been identified:

Onsite

- Contamination resulting from current and historical land use. (Made Ground, electric substation, historical tanks, industrial feature, gas pipelines and water pumping stations)
- Ground gases (Superficial deposits, old gravel pits, refuse heap, sand pits and historical unspecified quarries).

Offsite

- Made Ground associated with development adjacent to the Study Area.
- Stockpiles of topsoil / Made Ground located adjacent to Study Area boundary.
- Contamination associated with offsite historical landuses.

Based on the above potential sources, the following contaminants may be present within the Study Area:

- Heavy metals, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), chlorinated solvents, pesticides, nitrates, phosphates, sulphates, sulphides, cyanides, and asbestos
- Ground gases associated with Made Ground, including methane, carbon dioxide, carbon monoxide, hydrogen sulphide, and oxygen-deficient air, as well as potential landfill gases and radon.

5.3 POTENTIAL RECEPTORS

In the context of the proposed redevelopment, the following potential receptors were identified:

Human Health

- Future and current site occupiers/visitors (maintenance workers);
- Adjacent site users;
- Construction workers and below ground maintenance workers.

Water Environment

- Bedrock aquifer (Argyll Group)
- Surface water (The Gormack Burn, Bogendinny Burn, Corskie Burn, Mony Burn and Park Burn)

Property

- Foundations and below ground structures.

5.4 POTENTIAL CONTAMINANT PATHWAYS

Relevant potential pathways are considered to include:

- Direct contact, ingestion or inhalation of soil-bound contaminants/dust;
- Direct inhalation of asbestos fibres within soils;
- Inhalation of vapours associated with soil/groundwater contamination;
- Migration of leachable/mobile contamination laterally and vertically through granular soils;
- Ground gas migration, inhalation and accumulation.

5.5 PLAUSIBLE CONTAMINANT LINKAGES

Table 5-1 provides an evaluation of those potential contaminant linkages considered to be plausible given our current Study Area understanding.

Table 5-1 – Plausible Contaminant Linkages

Potential Source	Exposure Pathway	Receptor	Probability of Exposure	Consequence of Exposure	Risk	Plausibility of Pathway
Contaminants associated with adjacent land uses Contaminants include inorganic and organic contaminants, ground gases, and asbestos.	Inhalation, ingestion and dermal contact	Human health risks, including current and future site users, groundworkers	Unlikely	Medium	**Low to Moderate Risk**	Site users may be exposed to potential contaminants via direct dermal contact, ingestion and inhalation, or hazardous ground gases. As no enclosed spaces are included in the proposed development, the risk from ground gases is considered low. The principal human health risk is likely to be from contaminants within the soils and groundwater due to potentially contaminated Made Ground. Significant Made Ground is not expected to be encountered on most of the Study Area due to the lack of historical development, although it is noted that some historical industrial development has occurred on certain parts of the Study Area and the surrounding area. In the event of below ground works, site workers may be exposed to subsurface contamination should it exist. Yet it is generally accepted as both reasonable and an expectation that future construction workers would adopt appropriate procedures to manage health and safety risks on the assumption that a risk exists.
	Migration via infiltration into groundwater	Groundwater within superficial and bedrock deposits Surface water	Low likelihood	Mild	**Low**	The presence of hardstanding would be limited to the overhead line (OHL) tower bases which should impede the infiltration of precipitation to some degree and reduce the potential for leaching and off-site migration of any contamination. Given the current / historical use of the site, the potential for legacy contaminants to migrates to the underlying bedrock aquifer is considered to be low.

Potential Source	Exposure Pathway	Receptor	Probability of Exposure	Consequence of Exposure	Risk	Plausibility of Pathway
		Site foundations	Unlikely	Medium	**Low**	Aggressive ground conditions may affect any proposed building foundations and underground pipes. With any new development, planning would be required, and such would require a site investigation, which would need to assess whether any mitigation was required.

5.6 PRELIMINARY CONTAMINANT LINKAGE ASSESSMENT

Based on consideration of the Study Area conditions, the environmental setting of the Study Area and the level of information currently available for the Study Area, potential plausible contaminant linkages have been identified. These are based on an assumed proposed industrial or commercial end use.

The terms describing Probability and Consequence are referenced from the CIRIA 552 document. Tables 6.3, 6.4 and 6.5 from CIRIA 552 are provided for reference in **Appendix D**.

5.7 PRELIMINARY RISK CLASSIFICATION FOR THE STUDY AREA

Based on the contaminant linkage assessment completed for the Study Area in consideration of its proposed use, the following risk classifications have been determined:

- With respect to human health, the risks have been assessed as **Low**;
- With respect to surface waters, the risks from the Study Area have been assessed as **Low**
- With respect to groundwater, the risks from the Study Area have been assessed as **Low**;
- With respect to buildings and services, the Study Area is classified as **Low**;

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The potential for legacy ground contamination in shallow soils is considered possible based on historical onsite and offsite uses.

The principal risks are considered to be to the current and future site users. However, the presence of hardstanding (tower bases) reduces the probability of user exposure at a material frequency should such contamination exist in these areas.

Based on the information contained within this report, it is the opinion of WSP that the Study Area represents a **Low risk** with respect to contaminated land liabilities.

6.2 RECOMMENDATIONS

Based on the above, an intrusive ground investigation is recommended to confirm the anticipated ground conditions and enable further assessment of the above constraints.

The ground investigation should be undertaken in accordance with BS5930 and BS10175 and should be designed and scoped to provide further understanding / confirmation of the following:

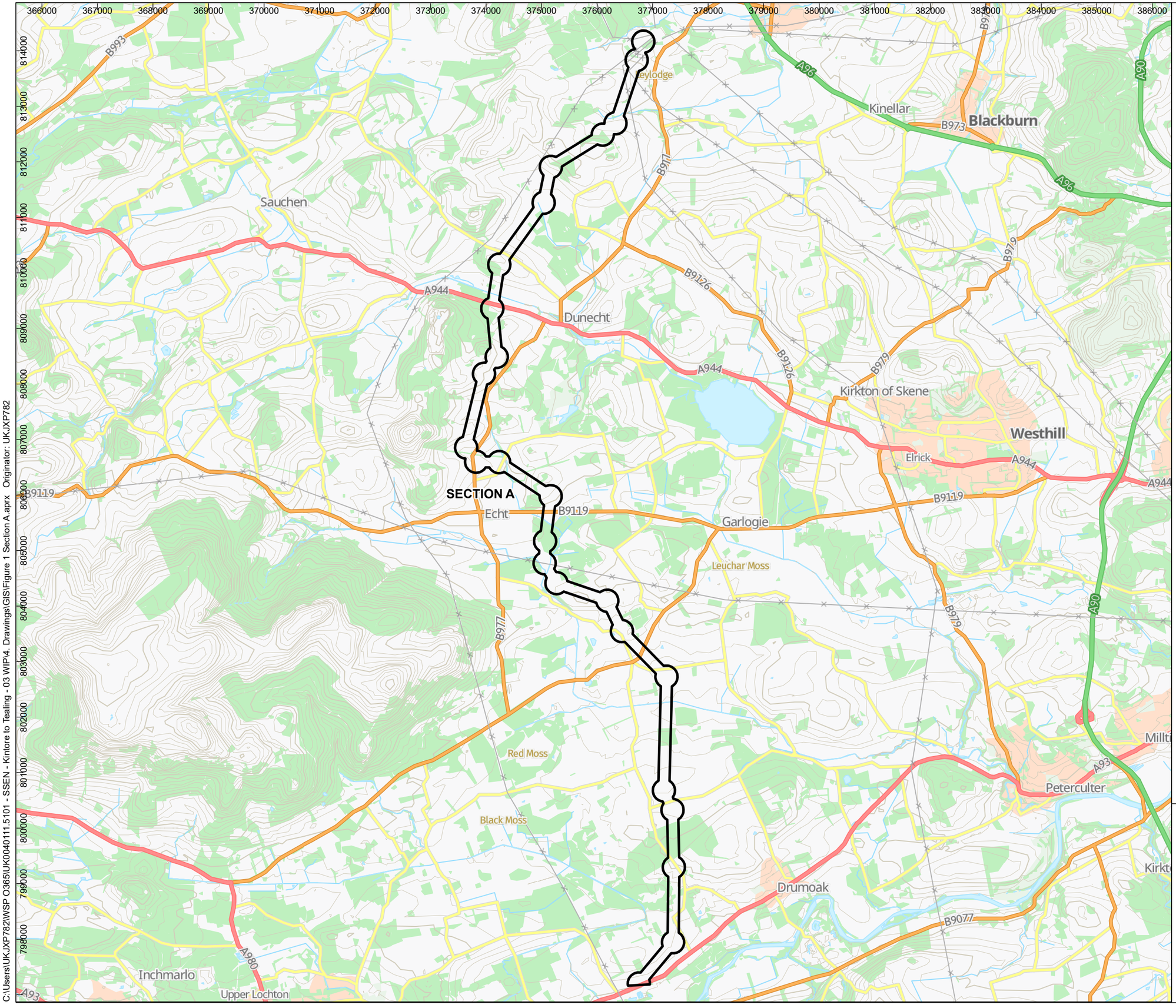
- Extent and characteristics of contamination on soils and groundwater; and
- Risks to future site users and the wider environment in the context of the proposed development.

Should the Study Area use change then the contents of this report should be revisited in ensuring that the land is made suitable for any new use.

Please note: this summary forms part of WSP's Phase I Geoenvironmental Preliminary Risk Assessment (ref.: UK0040111.5101 /001). Under no circumstances is it to be used as an independent document.

Appendix A

FIGURES



Key

Section F

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000m

Scale at A3: 1:65,000

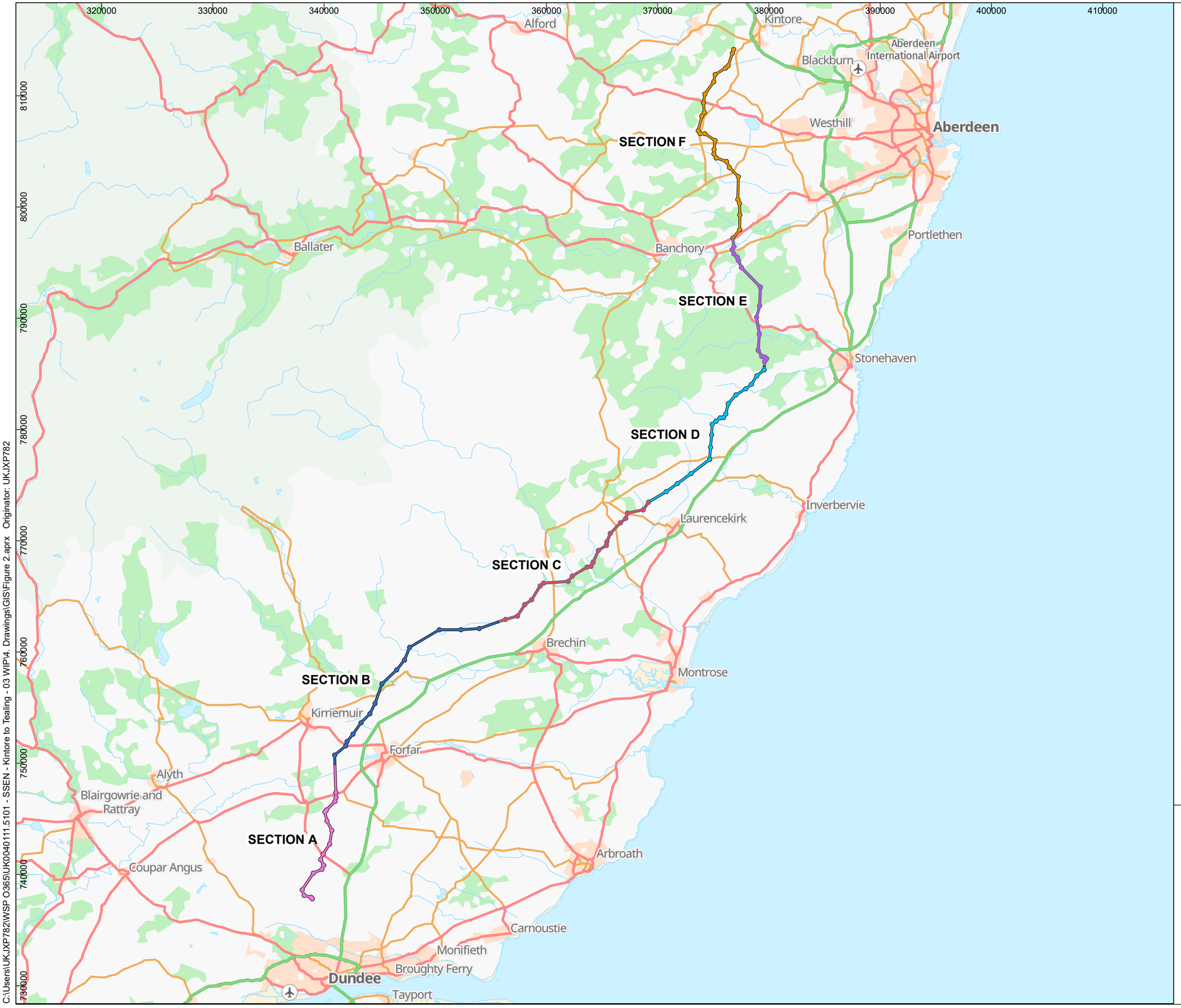
Kintore-Tealing 400kV Overhead Line (OHL) Connection

Figure 1
Site location plan

February 2025

C:\Users\UKJXP782\WSP O365\UK0040111.5101 - SSEN - Kintore to Tealing - 03 WIP\4. Drawings\GIS\Figure 1 Section A.aprx Originator: UKJXP782

Figure 1 Section A.aprx



Key

- Section F
- Section E
- Section D
- Section C
- Section B
- Section A

0 5 10 15 20km

Scale at A3: 1:325,000

Kintore-Tealing 400kV Overhead Line (OHL) Connection

Figure 2
Proposed development plan

February 2025

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Figure 2.aprx

Appendix B

ADDITIONAL INFORMATION

Appendix B.1

GROUNDSURE REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Section F

Order Details

Date: 04/09/2025

Your ref: P110439UK001

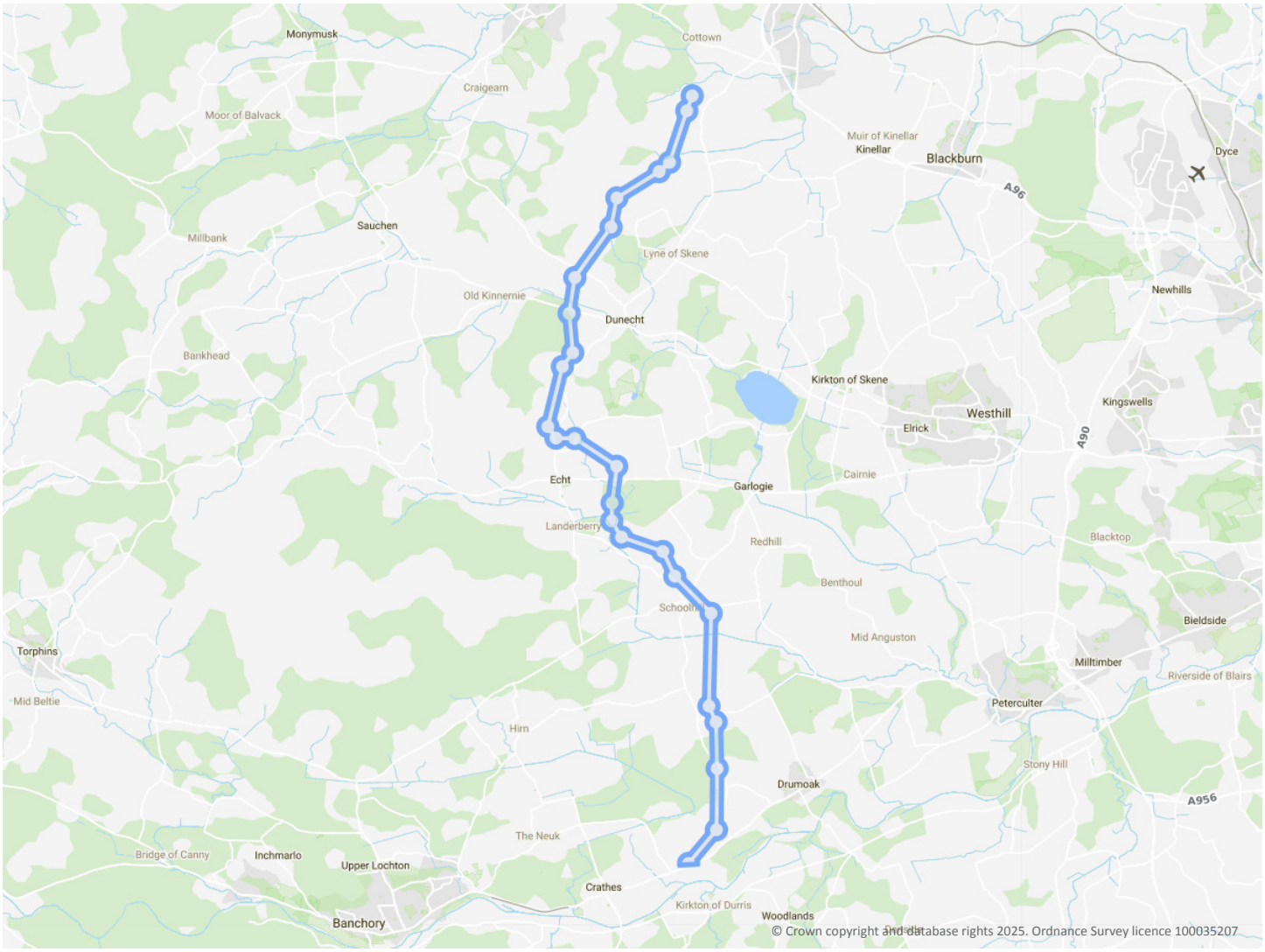
Our Ref: WSP-TLH-MU8-3QL-Z6Z

Site Details

Location: 375734 806039

Area: 530.99 ha

Authority: Aberdeenshire Council ↗



Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
12 >	1.1 >	Historical industrial land uses >	6	3	29	31	-
15 >	1.2 >	Historical tanks >	2	4	13	12	-
17 >	1.3 >	Historical energy features >	2	0	0	3	-
17 >	1.4 >	Historical petrol stations >	0	0	1	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
19 >	2.1 >	Historical industrial land uses >	8	4	40	39	-
23 >	2.2 >	Historical tanks >	2	4	16	15	-
24 >	2.3 >	Historical energy features >	3	0	0	4	-
25 >	2.4 >	Historical petrol stations >	0	0	1	0	-
25	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	2	0	-
27	3.4	Licensed waste sites	0	0	0	0	-
27 >	3.5 >	Historical waste sites >	0	0	1	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
28 >	4.1 >	Recent industrial land uses >	13	4	23	-	-
31 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	0	1	4	-	-
31	4.3	Current or recent petrol stations	0	0	0	0	-
31	4.4	Electricity cables	0	0	0	0	-
31 >	4.5 >	Gas pipelines >	3	0	0	0	-
32	4.6	Sites determined as Contaminated Land	0	0	0	0	-
32	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-

32	4.8	Regulated explosive sites	0	0	0	0	-
33	4.9	Hazardous substance storage/usage	0	0	0	0	-
33 >	4.10 >	Part A(1), IPPC and Historic IPC Authorisations >	0	0	0	1	-
33	4.11	Part B Authorisations	0	0	0	0	-
33	4.12	Pollution inventory substances	0	0	0	0	-
34	4.13	Pollution inventory waste transfers	0	0	0	0	-
34	4.14	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
35 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
37 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	6.1 >	Water Network (OS MasterMap) >	113	36	163	-	-
64 >	6.2 >	Surface water features >	1	23	104	-	-
Page	Section	River flooding >					
65 >	7.1 >	River flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Coastal flooding					
67	8.1	Coastal flooding	Negligible (within 50m)				
Page	Section	Surface water flooding >					
68 >	9.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
70 >	10.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	11.1 >	Sites of Special Scientific Interest (SSSI) >	1	0	0	0	1
72	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
72 >	11.3 >	Special Areas of Conservation (SAC) >	0	0	0	1	1
73	11.4	Special Protection Areas (SPA)	0	0	0	0	0
73	11.5	National Nature Reserves (NNR)	0	0	0	0	0
73	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
74 >	11.7 >	Designated Ancient Woodland >	10	1	8	6	84

78	11.8	Biosphere Reserves	0	0	0	0	0
78	11.9	Forest Parks	0	0	0	0	0
78	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
79	12.1	World Heritage Sites	0	0	0	-	-
80	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
80	12.3	National Parks	0	0	0	-	-
80 >	**12.4 >**	**Listed Buildings >**	0	0	5	-	-
81	12.5	Conservation Areas	0	0	0	-	-
81 >	**12.6 >**	**Scheduled Ancient Monuments >**	1	1	1	-	-
81 >	**12.7 >**	**Registered Parks and Gardens >**	2	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
83 >	**13.1 >**	**Agricultural Land Classification >**	Grade 4.2 (within 250m)				
Page	Section	**Geology 1:10,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
85 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
86 >	**14.2 >**	**Artificial and made ground (10k) >**	0	0	0	2	-
87 >	**14.3 >**	**Superficial geology (10k) >**	11	0	4	12	-
89	14.4	Landslip (10k)	0	0	0	0	-
90 >	**14.5 >**	**Bedrock geology (10k) >**	1	0	0	0	-
91 >	**14.6 >**	**Bedrock faults and other linear features (10k) >**	10	3	8	16	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
93 >	**15.1 >**	**50k Availability >**	Identified (within 500m)				
94 >	**15.2 >**	**Artificial and made ground (50k) >**	0	0	3	0	-
95	15.3	Artificial ground permeability (50k)	0	0	-	-	-
96 >	**15.4 >**	**Superficial geology (50k) >**	46	4	15	16	-
100 >	**15.5 >**	**Superficial permeability (50k) >**	Identified (within 50m)				
101	15.6	Landslip (50k)	0	0	0	0	-
102	15.7	Landslip permeability (50k)	None (within 50m)				
103 >	**15.8 >**	**Bedrock geology (50k) >**	6	0	3	0	-

104 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
104 >	15.10 >	Bedrock faults and other linear features (50k) >	38	4	18	23	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
108 >	16.1 >	BGS Boreholes >	2	2	4	-	-
Page	Section	**Natural ground subsidence** >					
110 >	17.1 >	Shrink swell clays >	Low (within 50m)				
112 >	17.2 >	Running sands >	Low (within 50m)				
114 >	17.3 >	Compressible deposits >	High (within 50m)				
116 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
118 >	17.5 >	Landslides >	Low (within 50m)				
120 >	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
122 >	18.1 >	BritPits >	1	1	10	8	-
127 >	18.2 >	Surface ground workings >	10	11	39	-	-
130	18.3	Underground workings	0	0	0	0	0
130	18.4	Underground mining extents	0	0	0	0	-
130	18.5	Historical Mineral Planning Areas	0	0	0	0	-
130 >	18.6 >	Non-coal mining >	7	0	0	0	1
132	18.7	JPB mining areas	None (within 0m)				
132	18.8	The Coal Authority non-coal mining	0	0	0	0	-
132	18.9	Researched mining	0	0	0	0	-
132	18.10	Mining record office plans	0	0	0	0	-
133	18.11	BGS mine plans	0	0	0	0	-
133	18.12	Coal mining	None (within 0m)				
133	18.13	Brine areas	None (within 0m)				
133	18.14	Gypsum areas	None (within 0m)				
133	18.15	Tin mining	None (within 0m)				
134	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m

135	19.1	Natural cavities	0	0	0	0	-
135	19.2	Mining cavities	0	0	0	0	0
135	19.3	Reported recent incidents	0	0	0	0	-
135	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon** >					
137 >	**20.1** >	**Radon** >	Between 10% and 30% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
139 >	**21.1** >	**BGS Estimated Background Soil Chemistry** >	257	51	-	-	-
150	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
150	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
151	22.1	Underground railways (London)	0	0	0	-	-
151	22.2	Underground railways (Non-London)	0	0	0	-	-
152	22.3	Railway tunnels	0	0	0	-	-
152	22.4	Historical railway and tunnel features	0	0	0	-	-
152	22.5	Royal Mail tunnels	0	0	0	-	-
152 >	**22.6** >	**Historical railways** >	2	8	1	-	-
153	22.7	Railways	0	0	0	-	-
153	22.8	Crossrail 2	0	0	0	0	-
153	22.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 05/06/2022

Site Area: 530.99ha

Recent site history - 2019 aerial photograph

Capture Date: 25/08/2019

Site Area: 530.99ha

Recent site history - 2014 aerial photograph

Capture Date: 18/04/2014

Site Area: 530.99ha

Recent site history - 2007 aerial photograph

Capture Date: 04/04/2007

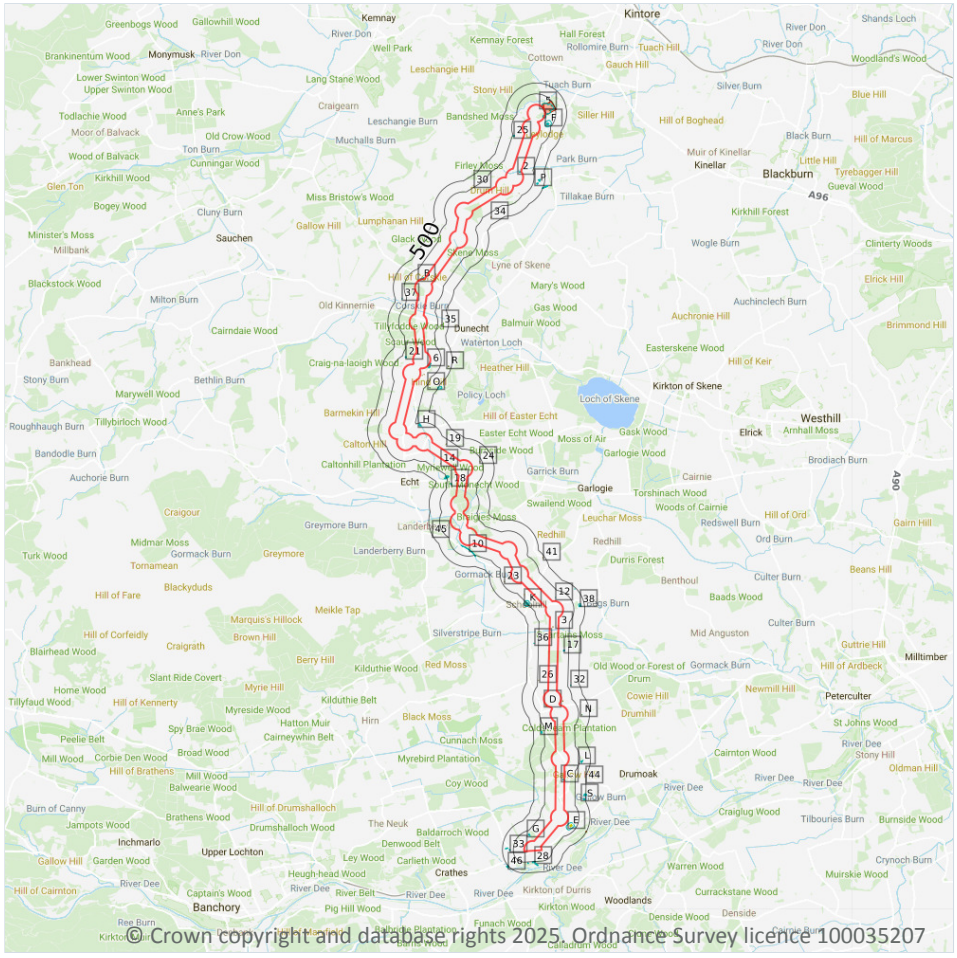
Site Area: 530.99ha

Recent site history - 2001 aerial photograph

Capture Date: 10/05/2001

Site Area: 530.99ha

1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations

1.1 Historical industrial land uses

Records within 500m	69

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**	**Garage**	**1991**	**450576**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Sand Pit**	**1901 - 1956**	**462792**
A	**On site**	**Electric Substation**	**1991**	**450605**
B	**On site**	**Old Gravel Pit**	**1901 - 1955**	**469387**
C	**On site**	**Refuse Heap**	**1901**	**495814**
C	**On site**	**Refuse Heap**	**1956**	**502045**
B	**On site**	**Unspecified Quarry**	**1867**	**461778**
6	2m SE	Gravel Pit	1956	455709
7	30m SE	Gravel Pit	1956	455710
10	54m S	Mill Lade	1902	456696
E	54m SE	Smithy	1969 - 1987	498659
12	84m N	Pumping Ram	1902	449663
F	86m SE	Smithy	1969	465663
17	125m E	Gravel Pit	1969 - 1987	470557
E	125m SE	Smithy	1902	501063
G	129m N	Shale Tip	1902	500926
E	130m SE	Smithy	1899	484936
E	130m SE	Smithy	1899	501564
G	131m N	Shale Tip	1899	494245
F	132m SE	Smithy	1901 - 1956	465320
F	138m SE	Old Smithy	1991	457958
18	138m W	Filter Beds	1969	458194
F	154m SE	Smithy	1869	470921
21	156m W	Sand Pit	1901 - 1956	463316
H	175m N	Sawmill	1901	466827
I	184m NE	Unspecified Tanks	1991	456263
H	187m N	Unspecified Tank	1867	460039
J	188m SW	Unspecified Quarry	1969	460824
K	188m SW	Smithy	1956	463685

ID	Location	Land use	Dates present	Group ID
J	194m SW	Unspecified Quarry	1956	460615
25	203m W	Unspecified Pits	1969	449692
H	206m N	Sawmill	1867	468562
J	224m SW	Unspecified Quarry	1901	464747
27	226m SE	Smithy	1904	489949
K	235m SW	Smithy	1865 - 1901	466467
K	240m SW	Smithy	1969 - 1987	467235
K	240m SW	Smithy	1902	461923
28	242m S	Unspecified Ground Workings	1956	481134
29	267m S	Gravel Pit	1928 - 1956	497742
L	284m E	Refuse Heap	1956	493026
L	285m E	Refuse Heap	1901	492297
31	289m S	Unspecified Heap	1969 - 1987	484866
M	300m W	Gravel Pit	1901 - 1902	497342
M	304m W	Gravel Pit	1956	493404
32	309m E	Unspecified Tank	1865	452506
33	319m W	Egg Packing Station	1969 - 1987	494494
N	323m E	Unspecified Tank	1901	452503
P	333m E	Gravel Pit	1901	455705
P	334m E	Refuse Heap	1956	449197
O	334m SE	Unspecified Tank	1969	452611
36	349m W	Unspecified Tank	1865	452505
37	350m W	Unspecified Tank	1867	463421
Q	354m E	Refuse Heap	1956	449199
Q	356m E	Gravel Pit	1901	455706
38	371m E	Corn Mill	1902	448784
39	373m W	Unspecified Heap	1956	478213
R	435m E	Gasometer	1901	450651

ID	Location	Land use	Dates present	Group ID
S	446m E	Sand Pit	1902	489410
T	454m E	Refuse Heap	1969 - 1987	490968
S	456m E	Sand Pit	1956	499278
S	458m E	Sand Pit	1901	496564
T	467m E	Sand Pit	1902	502442
42	467m NE	Unspecified Tank	1865	452504
43	483m SE	Nursery	1867	468795
T	483m E	Sand Pit	1901	494549
T	486m E	Sand Pit	1956	493039
U	486m SE	Gravel Pit	1901	455707
U	489m SE	Refuse Heap	1956	449198
46	500m SW	Unspecified Mills	1904	494134

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m **31**

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 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
3	**On site**	**Tank or Trough**	**1866**	**60542**
4	**On site**	**Tank or Trough**	**1866**	**60543**
D	1m SW	Unspecified Tank	1997	58749
D	15m SW	Unspecified Tank	1997	58750
8	45m E	Tank or Trough	1868	60540
9	47m E	Tank or Trough	1866	60185

ID	Location	Land use	Dates present	Group ID
11	67m E	Tank or Trough	1866	60187
13	84m E	Unspecified Tank	1900	58178
14	102m SW	Tank or Trough	1866	60795
15	111m E	Unspecified Tank	1966 - 1988	61458
16	111m E	Tank or Trough	1866	60188
19	142m NE	Tank or Trough	1866	60794
20	152m SW	Unspecified Tank	1968	59066
22	173m SE	Tank or Trough	1866	60183
I	187m NE	Tanks	1984 - 1988	62728
I	189m NE	Tanks	1966	60905
23	190m SW	Tank or Trough	1868	60798
24	200m NE	Tanks or Troughs	1866	59666
26	224m W	Unspecified Tank	1900	58753
30	285m NW	Unspecified Tank	1997	58153
N	315m E	Unspecified Tank	1968 - 1997	61416
O	332m SE	Unspecified Tank	1968	58164
34	342m SE	Unspecified Tank	1866 - 1900	61554
35	344m E	Tank or Trough	1866	60184
R	432m E	Gasometer	1900	59277
40	443m SE	Tank or Trough	1868	65417
41	458m NE	Tank or Trough	1868	60797
44	487m E	Tank or Trough	1868	65418
V	494m SE	Gasometer	1868	63411
V	494m SE	Disused Gasometer	1900	65872
45	499m SW	Unspecified Tank	1997	59046

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	5

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original 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
5	**On site**	**Electricity Substation**	**1988**	**33440**
A	**On site**	**Electricity Substation**	**1984 - 1988**	**35636**
R	432m E	Gasometer	1900	33495
V	494m SE	Gasometer	1868	35960
V	494m SE	Disused Gasometer	1900	39158

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	1

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 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
E	104m SE	Filling Station	1968	1106

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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

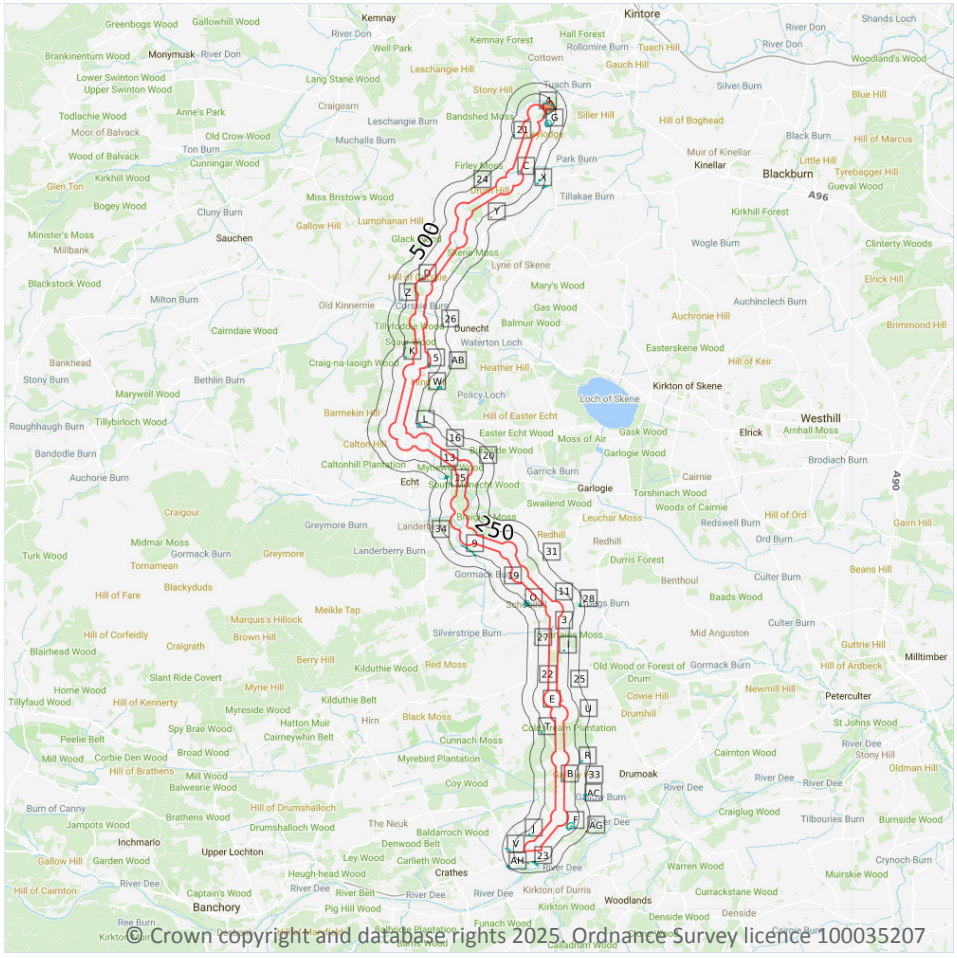
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

2.1 Historical industrial land uses

Records within 500m	91

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

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
1	On site	Garage	1991	450576
A	On site	Electric Substation	1991	450605
B	On site	Refuse Heap	1956	502045

ID	Location	Land Use	Date	Group ID
B	**On site**	**Refuse Heap**	**1901**	**495814**
C	**On site**	**Sand Pit**	**1901**	**462792**
C	**On site**	**Sand Pit**	**1956**	**462792**
D	**On site**	**Old Gravel Pit**	**1901**	**469387**
D	**On site**	**Old Gravel Pit**	**1955**	**469387**
D	**On site**	**Unspecified Quarry**	**1867**	**461778**
D	**On site**	**Unspecified Quarry**	**1867**	**461778**
5	2m SE	Gravel Pit	1956	455709
6	30m SE	Gravel Pit	1956	455710
9	54m S	Mill Lade	1902	456696
F	54m SE	Smithy	1987	498659
F	54m SE	Smithy	1969	498659
11	84m N	Pumping Ram	1902	449663
G	86m SE	Smithy	1969	465663
I	125m E	Gravel Pit	1987	470557
I	125m E	Gravel Pit	1969	470557
F	125m SE	Smithy	1902	501063
J	129m N	Shale Tip	1902	500926
F	130m SE	Smithy	1899	484936
F	130m SE	Smithy	1899	501564
J	131m N	Shale Tip	1899	494245
J	131m N	Shale Tip	1899	494245
G	132m SE	Smithy	1901	465320
G	138m SE	Old Smithy	1991	457958
15	138m W	Filter Beds	1969	458194
G	140m SE	Smithy	1956	465320
G	154m SE	Smithy	1869	470921
G	154m SE	Smithy	1869	470921

ID	Location	Land Use	Date	Group ID
K	156m W	Sand Pit	1956	463316
K	165m W	Sand Pit	1901	463316
L	175m N	Sawmill	1901	466827
M	184m NE	Unspecified Tanks	1991	456263
L	187m N	Unspecified Tank	1867	460039
L	187m N	Unspecified Tank	1867	460039
N	188m SW	Unspecified Quarry	1969	460824
O	188m SW	Smithy	1956	463685
N	194m SW	Unspecified Quarry	1956	460615
21	203m W	Unspecified Pits	1969	449692
L	206m N	Sawmill	1867	468562
L	206m N	Sawmill	1867	468562
N	224m SW	Unspecified Quarry	1901	464747
P	226m SE	Smithy	1904	489949
P	226m SE	Smithy	1904	489949
O	235m SW	Smithy	1901	466467
O	238m SW	Smithy	1865	466467
O	240m SW	Smithy	1987	467235
O	240m SW	Smithy	1969	467235
O	240m SW	Smithy	1902	461923
23	242m S	Unspecified Ground Workings	1956	481134
Q	267m S	Gravel Pit	1956	497742
Q	271m S	Gravel Pit	1928	497742
R	284m E	Refuse Heap	1956	493026
R	285m E	Refuse Heap	1901	492297
S	289m S	Unspecified Heap	1987	484866
S	289m S	Unspecified Heap	1969	484866
T	300m W	Gravel Pit	1901	497342

ID	Location	Land Use	Date	Group ID
T	303m W	Gravel Pit	1902	497342
T	304m W	Gravel Pit	1956	493404
25	309m E	Unspecified Tank	1865	452506
V	319m W	Egg Packing Station	1987	494494
V	319m W	Egg Packing Station	1969	494494
U	323m E	Unspecified Tank	1901	452503
X	333m E	Gravel Pit	1901	455705
X	334m E	Refuse Heap	1956	449197
W	334m SE	Unspecified Tank	1969	452611
27	349m W	Unspecified Tank	1865	452505
Z	350m W	Unspecified Tank	1867	463421
Z	350m W	Unspecified Tank	1867	463421
AA	354m E	Refuse Heap	1956	449199
AA	356m E	Gravel Pit	1901	455706
28	371m E	Corn Mill	1902	448784
29	373m W	Unspecified Heap	1956	478213
AB	435m E	Gasometer	1901	450651
AC	446m E	Sand Pit	1902	489410
AD	454m E	Refuse Heap	1987	490968
AD	454m E	Refuse Heap	1969	490968
AC	456m E	Sand Pit	1956	499278
AC	458m E	Sand Pit	1901	496564
AD	467m E	Sand Pit	1902	502442
32	467m NE	Unspecified Tank	1865	452504
AD	483m E	Sand Pit	1901	494549
AE	483m SE	Nursery	1867	468795
AE	483m SE	Nursery	1867	468795
AD	486m E	Sand Pit	1956	493039

ID	Location	Land Use	Date	Group ID
AF	486m SE	Gravel Pit	1901	455707
AF	489m SE	Refuse Heap	1956	449198
AH	500m SW	Unspecified Mills	1904	494134
AH	500m SW	Unspecified Mills	1904	494134

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**37**

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

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
2	**On site**	**Tank or Trough**	**1866**	**60543**
3	**On site**	**Tank or Trough**	**1866**	**60542**
E	1m SW	Unspecified Tank	1997	58749
E	15m SW	Unspecified Tank	1997	58750
7	45m E	Tank or Trough	1868	60540
8	47m E	Tank or Trough	1866	60185
10	67m E	Tank or Trough	1866	60187
12	84m E	Unspecified Tank	1900	58178
13	102m SW	Tank or Trough	1866	60795
H	111m E	Unspecified Tank	1988	61458
H	111m E	Unspecified Tank	1984	61458
14	111m E	Tank or Trough	1866	60188
H	111m E	Unspecified Tank	1966	61458
16	142m NE	Tank or Trough	1866	60794
17	152m SW	Unspecified Tank	1968	59066
18	173m SE	Tank or Trough	1866	60183

ID	Location	Land Use	Date	Group ID
M	187m NE	Tanks	1988	62728
M	187m NE	Tanks	1984	62728
M	189m NE	Tanks	1966	60905
19	190m SW	Tank or Trough	1868	60798
20	200m NE	Tanks or Troughs	1866	59666
22	224m W	Unspecified Tank	1900	58753
24	285m NW	Unspecified Tank	1997	58153
U	315m E	Unspecified Tank	1997	61416
U	316m E	Unspecified Tank	1968	61416
W	332m SE	Unspecified Tank	1968	58164
Y	342m SE	Unspecified Tank	1866	61554
Y	342m SE	Unspecified Tank	1900	61554
26	344m E	Tank or Trough	1866	60184
AB	432m E	Gasometer	1900	59277
30	443m SE	Tank or Trough	1868	65417
31	458m NE	Tank or Trough	1868	60797
33	487m E	Tank or Trough	1868	65418
AG	494m SE	Gasometer	1868	63411
AG	494m SE	Disused Gasometer	1900	65872
AG	494m SE	Disused Gasometer	1900	65872
34	499m SW	Unspecified Tank	1997	59046

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	7

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

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
4	**On site**	**Electricity Substation**	**1988**	**33440**
A	**On site**	**Electricity Substation**	**1988**	**35636**
A	**On site**	**Electricity Substation**	**1984**	**35636**
AB	432m E	Gasometer	1900	33495
AG	494m SE	Gasometer	1868	35960
AG	494m SE	Disused Gasometer	1900	39158
AG	494m SE	Disused Gasometer	1900	39158

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**1**

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'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
F	104m SE	Filling Station	1968	1106

This data is sourced from Ordnance Survey / Groundsure.

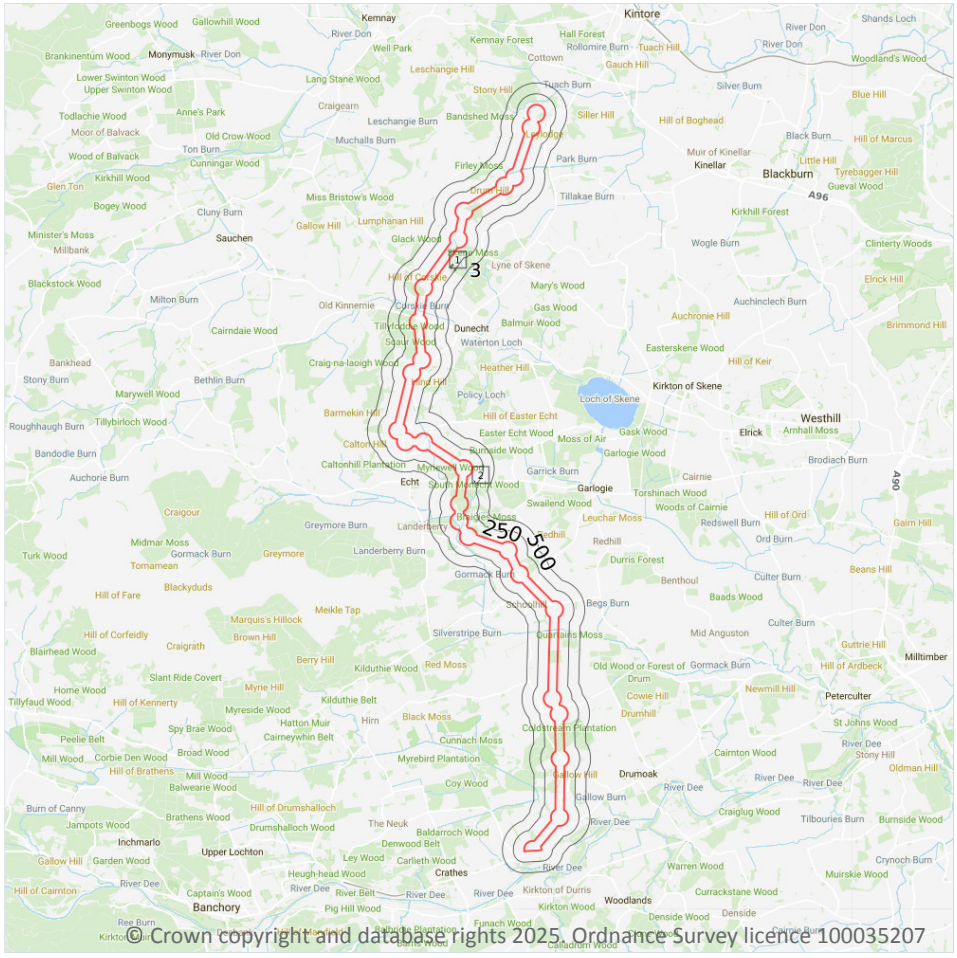
2.5 Historical garages

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)

Historical waste sites

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	2

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

Features are displayed on the Waste and landfill map on **page 26 >**

ID	Location	Site address	Source	Data type
1	118m SE	Refuse Tip	1997 mapping	Polygon
2	177m SE	Refuse Tip	1966 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 Acency (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

3.5 Historical waste sites

Records within 500m	1

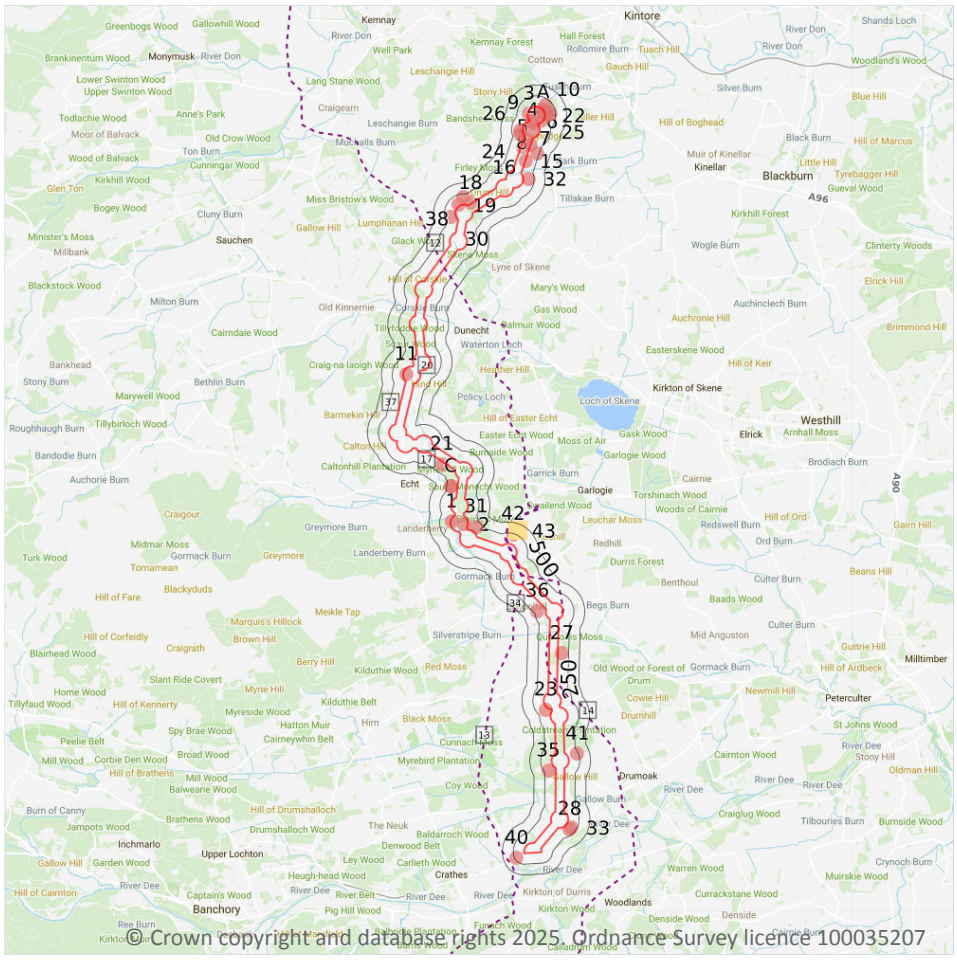
Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 26 >**

ID	Location	Address	Further Details	Date
3	226m SE	Site Address: Castle Fraser, Inverurie, Grampian, AB51 7	Type of Site: Recycling Facility (Conversion) Planning application reference: APP/2013/1090 Description: Scheme comprises full planning permission for change of use of land from agricultural to recycling area for inert waste with associated landscaping and site office. Data source: Historic Planning Application Data Type: Point	-

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	40

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Pylon**	**Aberdeenshire, AB32**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Pylon**	**Aberdeenshire, AB32**	**Electrical Features**	**Infrastructure and Facilities**
3	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
4	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
5	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
6	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
7	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
8	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
9	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
10	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
11	**On site**	**Wind Pump**	**Aberdeenshire, AB32**	**Water Pumping Stations**	**Industrial Features**
A	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
A	**On site**	**Pylon**	**Aberdeenshire, AB51**	**Electrical Features**	**Infrastructure and Facilities**
15	1m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
16	1m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
18	18m NW	Pump	Aberdeenshire, AB51	Water Pumping Stations	Industrial Features
19	36m NW	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
21	53m SW	Pump	Aberdeenshire, AB32	Water Pumping Stations	Industrial Features
22	57m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
23	58m SW	H S Project Engineering Ltd	2 Broomfield Steading, Drumoak, Aberdeenshire, AB31 5EP	Civil Engineers	Engineering Services
24	61m W	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
25	71m NE	Electricity Sub Station	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
26	72m W	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
27	92m E	Workings (Dis)	Aberdeenshire, AB31	Unspecified Quarries Or Mines	Extractive Industries
28	124m SE	D & W Anderson	Carpenters Cottage Workshop Park, Drumoak, Aberdeenshire, AB31 5HB	Metalworkers Including Blacksmiths	Construction Services
29	124m NE	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
30	125m W	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
31	130m NE	Pylon	Aberdeenshire, AB32	Electrical Features	Infrastructure and Facilities
32	131m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
33	139m SE	Pump	Aberdeenshire, AB31	Water Pumping Stations	Industrial Features
B	139m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
C	161m W	Works	Aberdeenshire, AB32	Unspecified Works Or Factories	Industrial Features
35	161m SW	Pump	Aberdeenshire, AB31	Water Pumping Stations	Industrial Features
C	162m W	Sewage Works	Aberdeenshire, AB32	Waste Storage, Processing and Disposal	Infrastructure and Facilities
36	172m SW	Pump	Aberdeenshire, AB32	Water Pumping Stations	Industrial Features
38	179m N	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
39	195m E	Pylon	Aberdeenshire, AB51	Electrical Features	Infrastructure and Facilities
40	211m SW	Pylon	Aberdeenshire, AB31	Electrical Features	Infrastructure and Facilities
41	227m NE	Pump	Aberdeenshire, AB31	Water Pumping Stations	Industrial Features
42	239m N	Pylon	Aberdeenshire, AB32	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

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

Records within 250m	5

Current or recent tanks identified from the Ordnance Survey NGD.

Features are displayed on the Current industrial land use map on **page 28 >**

ID	Location	Tank description	Activity	Date first identified
17	9m S	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/09/2015
20	53m SE	Open Storage Tank	Commercial Activity: Distribution Or Storage	15/09/2005
B	110m E	Open Storage Tank	Commercial Activity: Distribution Or Storage	03/11/2005
34	154m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	20/06/2014
37	178m W	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	20/06/2014

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	3

High pressure underground gas transmission pipelines.

Features are displayed on the Current industrial land use map on **page 28 >**

ID	Location	Pipe Name	Details	
12	**On site**	**ST. FERGUS TO ABERDEEN**	**Pipe Number: -** **Pipeline Safety Regulations Number: -** **Ownership: National Grid** **Maximum Operating Pressure (Bar): -**	**Pipeline Diameter (mm): 1050** **Wall Thickness (mm): -** **Year of commission: Not specified** **Abandonment Status: Not abandoned**
13	**On site**	**ABERDEEN TO KIRRIEMUIR**	**Pipe Number: -** **Pipeline Safety Regulations Number: -** **Ownership: National Grid** **Maximum Operating Pressure (Bar): -**	**Pipeline Diameter (mm): 900** **Wall Thickness (mm): -** **Year of commission: Not specified** **Abandonment Status: Not abandoned**
14	**On site**	**ABERDEEN TO KIRRIEMUIR**	**Pipe Number: -** **Pipeline Safety Regulations Number: -** **Ownership: National Grid** **Maximum Operating Pressure (Bar): -**	**Pipeline Diameter (mm): 900** **Wall Thickness (mm): -** **Year of commission: Not specified** **Abandonment Status: Not abandoned**

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	**0**

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

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	**0**

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

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

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

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 28 >**

ID	Location	Address	Operator	Processes undertaken	License reference
43	350m NE	Aberdeen Compressor Station, Finercy, Aberdeen, AB32 6US	National Grid Gas Plc	Combustion of Natural Gas	PPC/A/1008692

This data is sourced from the Scottish Environment Protection Agency.

4.11 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.

4.12 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.

4.13 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.

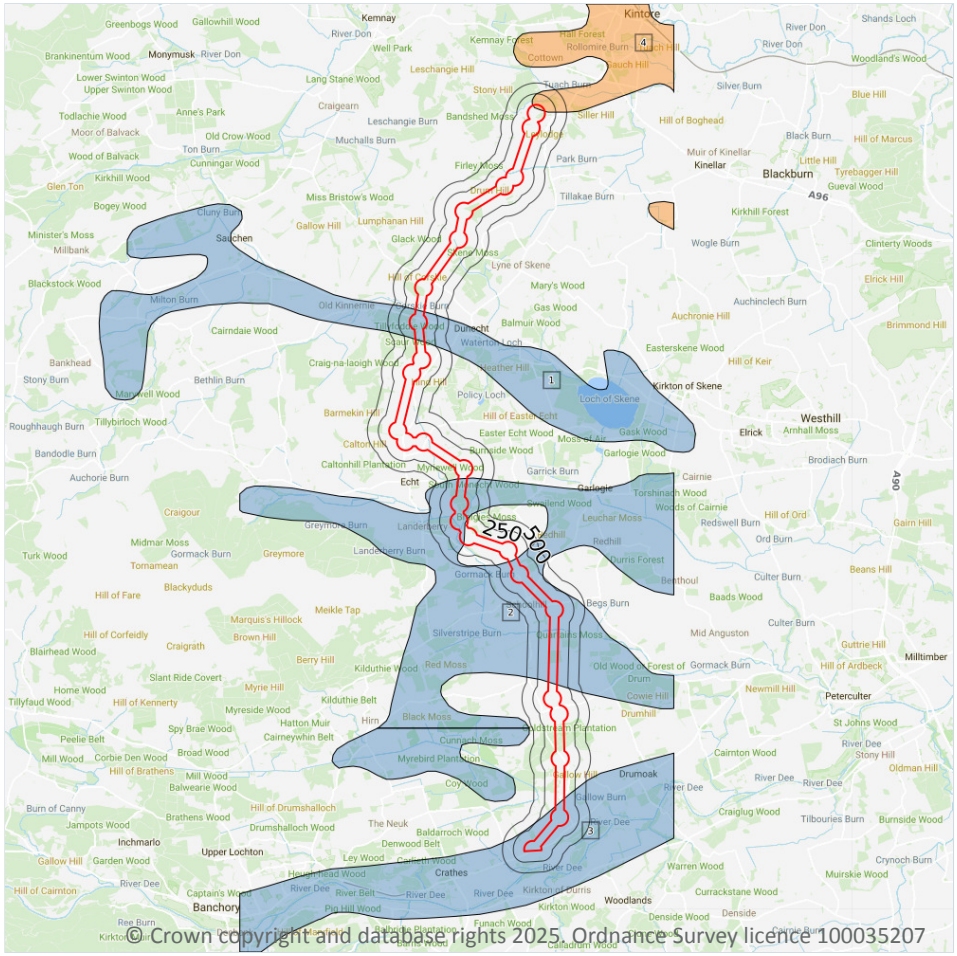
4.14 Pollution inventory radioactive waste

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	4

Records of groundwater classification within superficial geology.

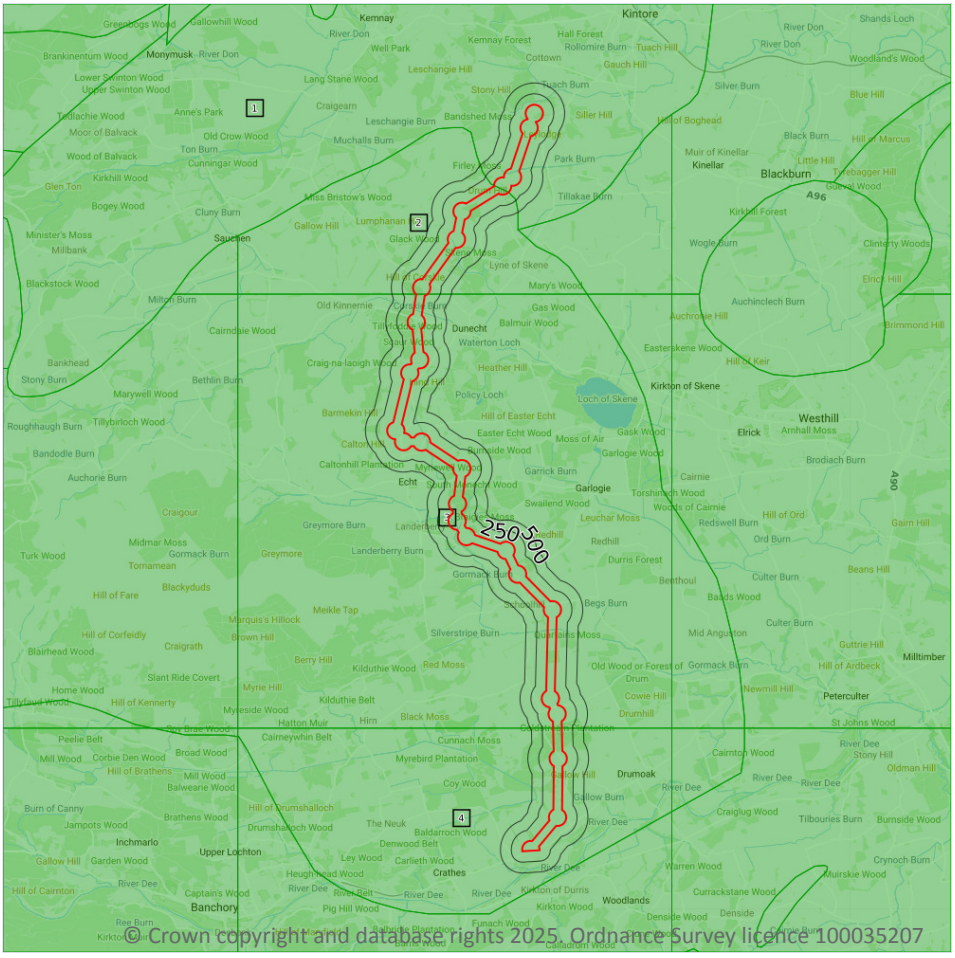
Features are displayed on the Hydrogeology map on **page 35 >**

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 Fluviatile Alluvium
2	On site	Concealed aquifers, aquifers of limited potential, regions without significant groundwater	Concealed aquifers; aquifers with limited or local potential	Quaternary Coastal and Fluviatile Alluvium

ID	Location	Description	Type	Rock description
3	**On site**	**Concealed aquifers, aquifers of limited potential, regions without significant groundwater**	**Concealed aquifers; aquifers with limited or local potential**	**Quaternary Coastal and Fluviatile Alluvium**
4	**On site**	**Aquifers in which intergranular flow is significant**	**Locally important aquifers**	**Quaternary Sands and Gravels**

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 **4**

Records of groundwater classification within bedrock geology.

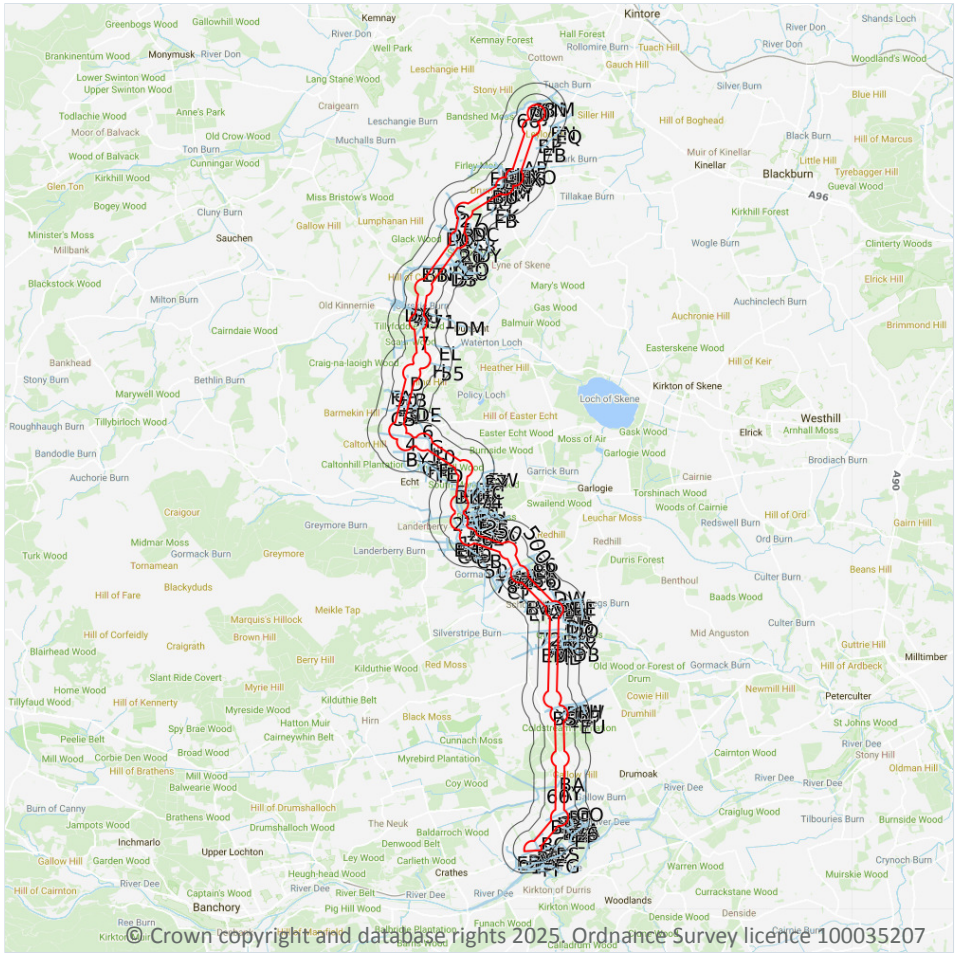
Features are displayed on the Bedrock aquifer map on **page 37 >**

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; rare springs.	UNNAMED IGNEOUS INTRUSION, ORDOVICIAN TO SILURIAN
2	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; rare springs.	UNNAMED IGNEOUS INTRUSION, LATE SILURIAN TO EARLY DEVONIAN

ID	Location	Description	Flow	Summary	Rock description
3	**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; rare springs.**	**UNNAMED IGNEOUS INTRUSION, LATE SILURIAN TO EARLY DEVONIAN**
4	**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; rare springs.**	**UNNAMED IGNEOUS INTRUSION, LATE SILURIAN TO EARLY DEVONIAN**

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	312

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 39 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Corskie Burn
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Corskie Burn
10	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mony Burn
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	On site	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
15	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
18	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
20	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
21	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
22	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
23	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Bogendinny Burn
27	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
28	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
30	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)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
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)	-
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.	Underground	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)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	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)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bogendinny Burn
S	On site	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
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	On site	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
AB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	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
AE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	On site	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
AN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Park Burn
AP	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bogendinny Burn
AS	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Park Burn
AS	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Park Burn
AS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Park Burn
AT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AT	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AU	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AV	On site	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
AW	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AW	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AW	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AW	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AW	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
AX	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Park Burn**
AY	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AZ	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
BI	6m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
46	9m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	10m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	12m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BJ	12m 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
K	14m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BK	14m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BL	17m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BM	19m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BO	20m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BP	20m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	22m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BQ	22m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BR	23m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mony Burn
BS	24m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BT	25m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
47	26m NW	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
BS	26m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
48	27m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BU	27m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	28m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BK	30m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BR	30m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mony Burn
BL	32m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BX	32m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	36m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BY	38m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	38m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	41m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
49	46m S	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
CA	47m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
50	48m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
51	48m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
BK	48m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
52	50m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
CC	52m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Landerberry Burn
CD	54m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CE	56m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BT	57m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
53	58m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
54	59m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BL	60m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CF	61m SW	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
55	62m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CG	62m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	62m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CH	64m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CI	64m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
CJ	65m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
57	69m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BX	69m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CB	69m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CL	69m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CM	69m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
CN	69m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn

ID	Location	Type of water feature	Ground level	Permanence	Name
CO	70m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CP	71m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	71m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CR	73m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BR	73m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
58	74m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
59	74m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BR	77m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CS	77m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CT	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CU	79m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
60	80m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	80m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mony Burn

ID	Location	Type of water feature	Ground level	Permanence	Name
CV	81m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
61	83m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CW	83m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
62	84m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BM	85m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BS	86m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CX	86m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	87m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DA	88m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	88m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CY	88m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DC	91m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	91m W	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
DD	92m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BM	93m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	94m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
64	96m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DF	98m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DH	105m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CV	105m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
65	108m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Corskie Burn
BH	108m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DG	108m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
66	110m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
68	110m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
DI	110m W	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
DJ	110m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
DD	110m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	114m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DI	115m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DG	115m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
69	116m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	120m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
70	120m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dewsford Burn
71	123m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Corskie Burn
DL	123m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
72	125m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Gormack Burn
BZ	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	125m SE	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
BZ	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	126m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DM	127m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Corskie Burn
DD	129m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
73	129m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DN	131m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DO	133m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	135m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DP	136m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	137m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
74	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	139m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DR	139m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
DS	139m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DS	140m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	142m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DU	143m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	144m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	145m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DW	146m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DW	146m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DX	147m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DY	148m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EA	150m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
76	151m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	152m SE	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
EB	154m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	155m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BM	155m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BZ	156m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
ED	157m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EE	159m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EF	160m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DU	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	170m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EG	170m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EH	171m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EH	171m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	174m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
78	178m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	178m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	178m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	178m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EK	180m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
79	186m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DE	188m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EL	188m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EM	191m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
83	192m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EI	195m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EN	198m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EO	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bogendinny Burn

ID	Location	Type of water feature	Ground level	Permanence	Name
EN	201m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EP	201m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EI	208m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EQ	209m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EP	209m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
ER	212m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EK	216m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EK	218m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
ES	220m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
ET	220m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
84	221m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EU	222m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EV	223m SW	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
EK	225m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
ES	226m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EG	226m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EW	228m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
86	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
87	229m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EY	230m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
88	235m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EG	235m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	236m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EJ	236m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
90	237m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EZ	240m SW	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
91	241m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
FA	241m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FB	242m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FC	242m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FD	243m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FE	244m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EJ	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FF	247m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FG	248m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FH	248m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mony Burn
FI	249m S	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	128

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 39 >**

This data is sourced from the Ordnance Survey.

7 River flooding

Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

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 65 >**

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 Ambiental 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

Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

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 68 >**

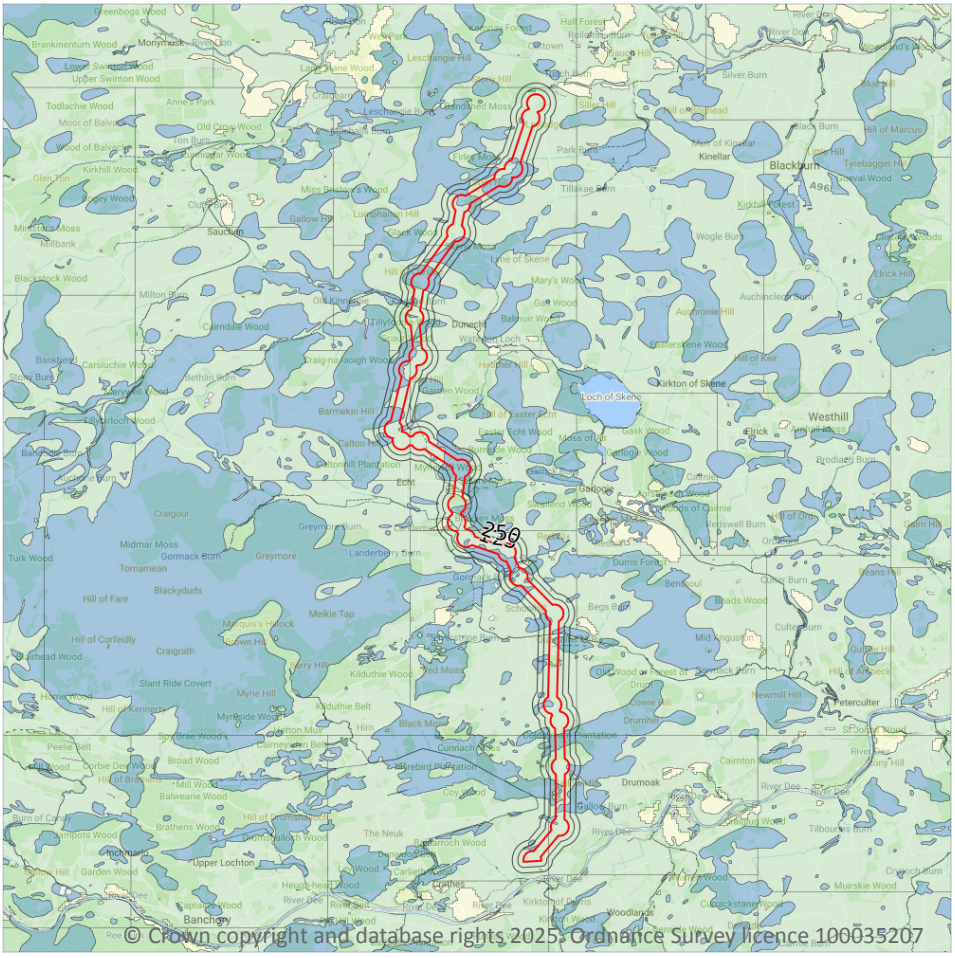
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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 Ambiental Risk Analytics.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

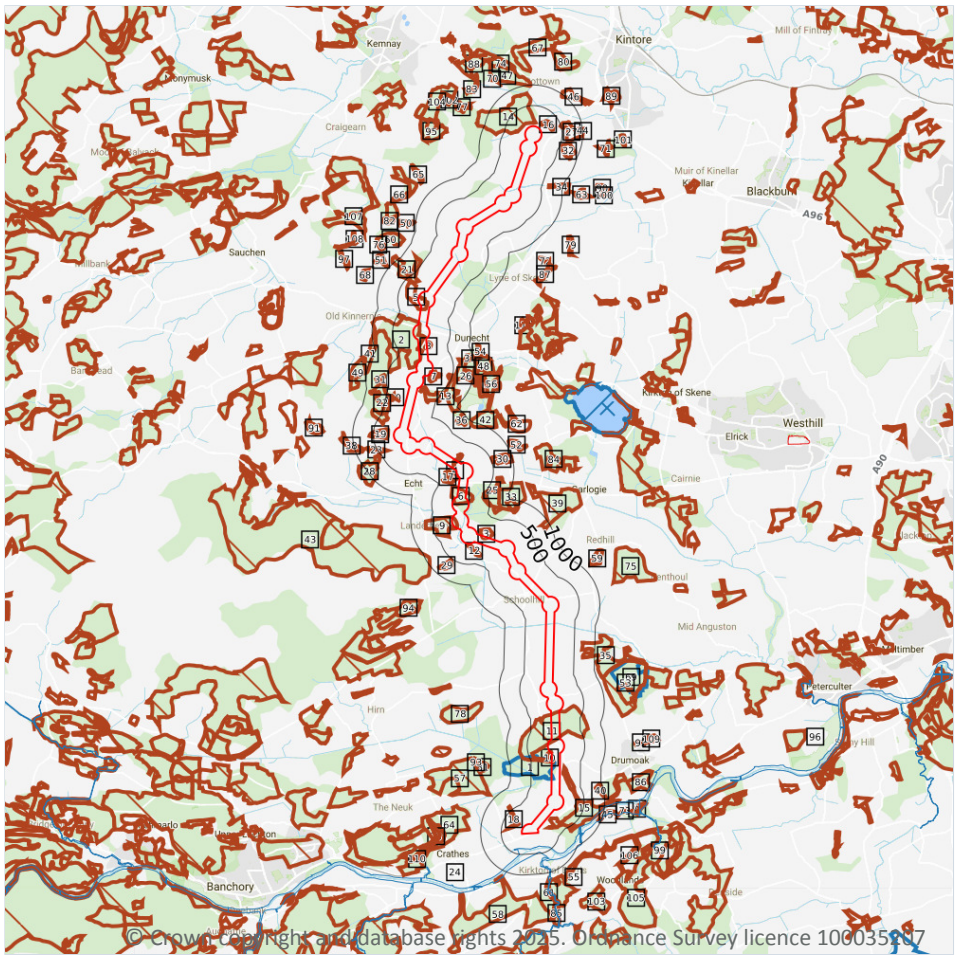
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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 70 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



Site Outline

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- Conserved wetland sites (Ramsar sites)
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Local Nature Reserves (LNR)
- Designated Ancient Woodland

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 71 >**

ID	Location	Name	Data source
1	**On site**	**Loch of Park**	**NatureScot**

ID	Location	Name	Data source
69	1363m NE	Old Wood of Drum	NatureScot

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	**2**

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

Features are displayed on the Environmental designations map on **page 71 >**

ID	Location	Name	Features of interest	Habitat description	Data source
24	324m S	River Dee	Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels; Rivers with floating vegetation often dominated by water-crowfoot; Wet heathland with cross-leaved heath; Dry heaths; Mountain willow scrub; Species-rich grassland with mat-grass in upland areas; Mountain hay meadows; Blanket bog; Very wet mires often identified by an unstable `quaking` surface; Caledonian forest; Alder woodland on floodplains; Sea lamprey; Brook lamprey; Atlantic salmon; Freshwater pearl mussel; Otter	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Inland rocks, Screes, Sands, Permanent Snow and ice; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Mixed woodland; Coniferous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland	Scottish Natural Heritage

ID	Location	Name	Features of interest	Habitat description	Data source
96	1851m E	River Dee	Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels; Rivers with floating vegetation often dominated by water-crowfoot; Wet heathland with cross-leaved heath; Dry heaths; Mountain willow scrub; Species-rich grassland with mat-grass in upland areas; Mountain hay meadows; Blanket bog; Very wet mires often identified by an unstable `quaking` surface; Caledonian forest; Alder woodland on floodplains; Sea lamprey; Brook lamprey; Atlantic salmon; Freshwater pearl mussel; Otter	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Inland rocks, Screes, Sands, Permanent Snow and ice; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Mixed woodland; Coniferous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland	Scottish Natural Heritage

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

11.4 Special Protection Areas (SPA)

Records within 2000m	**0**

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.

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	109

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 71 >**

ID	Location	Name	Woodland Type
2	**On site**	**Tillybrig/scaur/+ Woods**	**Long-Established (of plantation origin)**
3	**On site**	**Backstrip Wood**	**Long-Established (of plantation origin)**
4	**On site**	**Myriewell Wood**	**Long-Established (of plantation origin)**
5	**On site**	**Corskie Wood**	**Long-Established (of plantation origin)**
6	**On site**	**North Kirkton Wood**	**Long-Established (of plantation origin)**
7	**On site**	**Unknown**	**Long-Established (of plantation origin)**
8	**On site**	**Unknown**	**Long-Established (of plantation origin)**
9	**On site**	**Marketmuir Wood**	**Long-Established (of plantation origin)**
10	**On site**	**Collonach/coldstream Plnt**	**Long-Established (of plantation origin)**
11	**On site**	**Unknown**	**Long-Established (of plantation origin)**
12	12m S	Unknown	Ancient (of semi-natural origin)
13	54m SE	Hindhill/garden/+ Woods	Long-Established (of plantation origin)
14	76m N	Stonyhill/harthills Plantation	Long-Established (of plantation origin)
15	77m SE	Unknown	Long-Established (of plantation origin)
16	104m NE	Unknown	Long-Established (of plantation origin)
17	109m SW	Myriewell Wood	Long-Established (of plantation origin)
18	137m NW	Unknown	Long-Established (of plantation origin)
19	139m W	Unknown	Long-Established (of plantation origin)
20	177m W	Unknown	Ancient (of semi-natural origin)
21	290m N	Glack Wood	Long-Established (of plantation origin)
22	307m W	Unknown	Long-Established (of plantation origin)
23	311m SW	Unknown	Long-Established (of plantation origin)

ID	Location	Name	Woodland Type
25	377m E	Unknown	Long-Established (of plantation origin)
26	398m E	Dairy Wood	Long-Established (of plantation origin)
27	487m E	Unknown	Long-Established (of plantation origin)
28	504m SW	Caltonhill Plantation	Long-Established (of plantation origin)
29	521m SW	Unknown	Long-Established (of plantation origin)
30	522m E	Burnside Wood	Long-Established (of plantation origin)
31	556m W	Unknown	Long-Established (of plantation origin)
32	559m E	Unknown	Long-Established (of plantation origin)
33	607m E	Braigiewell Wood	Long-Established (of plantation origin)
34	662m E	Unknown	Long-Established (of plantation origin)
35	689m E	Unknown	Long-Established (of plantation origin)
36	737m NE	Unknown	Long-Established (of plantation origin)
37	784m E	Dunecht Lodge Wood	Long-Established (of plantation origin)
38	788m W	Unknown	Long-Established (of plantation origin)
39	824m NE	Swailend Wood	Long-Established (of plantation origin)
40	832m E	Unknown	Long-Established (of plantation origin)
41	894m W	Tillybrig/scaur/+ Woods	Long-Established (of plantation origin)
42	900m N	Tillymannoch Wood	Long-Established (of plantation origin)
43	903m SW	Midmar Forest	Long-Established (of plantation origin)
44	939m E	Unknown	Long-Established (of plantation origin)
45	944m SE	Unknown	Ancient (of semi-natural origin)
46	948m NE	Unknown	Long-Established (of plantation origin)
47	978m N	Craigmyle Wood	Long-Established (of plantation origin)
48	1003m E	Dunecht Lodge Wood	Long-Established (of plantation origin)
49	1012m W	Tillybrig/scaur/+ Woods	Long-Established (of plantation origin)
50	1024m W	Unknown	Long-Established (of plantation origin)
51	1051m NW	Unknown	Long-Established (of plantation origin)
52	1072m NE	Easter Echt Wood	Long-Established (of plantation origin)

ID	Location	Name	Woodland Type
53	1109m E	Unknown	Ancient (of semi-natural origin)
54	1125m E	Dunecht Lodge Wood	Long-Established (of plantation origin)
55	1128m SE	Kirkton Wood	Long-Established (of plantation origin)
56	1132m E	Dunecht Lodge Wood	Long-Established (of plantation origin)
57	1134m NW	Coy Wood	Long-Established (of plantation origin)
58	1139m SW	Funach/free Church Wood	Long-Established (of plantation origin)
59	1161m NE	Unknown	Long-Established (of plantation origin)
60	1190m NW	Unknown	Long-Established (of plantation origin)
61	1241m S	Unknown	Ancient (of semi-natural origin)
62	1260m NE	Unknown	Long-Established (of plantation origin)
63	1285m E	Unknown	Long-Established (of plantation origin)
64	1288m W	Baldarroch Wood	Long-Established (of plantation origin)
65	1302m NW	Unknown	Long-Established (of plantation origin)
66	1318m NW	Lauchintilly Wood	Long-Established (of plantation origin)
67	1340m N	Old Hall Forest	Long-Established (of plantation origin)
68	1353m W	Unknown	Long-Established (of plantation origin)
70	1366m NW	Craigmyle Wood	Long-Established (of plantation origin)
71	1369m E	Unknown	Long-Established (of plantation origin)
72	1396m SE	Unknown	Long-Established (of plantation origin)
73	1402m E	Unknown	Ancient (of semi-natural origin)
74	1415m N	Craigmyle Wood	Long-Established (of plantation origin)
75	1421m E	Unknown	Long-Established (of plantation origin)
76	1439m NW	Unknown	Long-Established (of plantation origin)
77	1444m W	Unknown	Long-Established (of plantation origin)
78	1463m W	Hares Wood	Long-Established (of plantation origin)
79	1489m SE	Unknown	Long-Established (of plantation origin)
80	1499m NE	Hall Forest	Long-Established (of plantation origin)
81	1516m W	Coy Wood	Long-Established (of plantation origin)

ID	Location	Name	Woodland Type
82	1528m W	Lauchintilly Wood	Long-Established (of plantation origin)
83	1579m NW	Unknown	Long-Established (of plantation origin)
84	1591m E	Scotstown Wood	Long-Established (of plantation origin)
85	1602m S	Unknown	Ancient (of semi-natural origin)
86	1613m E	Unknown	Long-Established (of plantation origin)
A	1647m E	Unknown	Ancient (of semi-natural origin)
87	1652m SE	Unknown	Long-Established (of plantation origin)
88	1659m NW	Craigmyle Wood	Long-Established (of plantation origin)
89	1692m NE	Gauch Hill Wood	Long-Established (of plantation origin)
90	1699m SE	Unknown	Long-Established (of plantation origin)
91	1712m W	Unknown	Long-Established (of plantation origin)
92	1725m E	Unknown	Long-Established (of plantation origin)
93	1733m W	Coy Wood	Long-Established (of plantation origin)
94	1770m SW	Unknown	Long-Established (of plantation origin)
A	1784m E	Unknown	Ancient (of semi-natural origin)
95	1820m W	Unknown	Long-Established (of plantation origin)
97	1862m W	Unknown	Long-Established (of plantation origin)
98	1875m W	Carlieth Wood	Ancient (of semi-natural origin)
99	1882m SE	Unknown	Long-Established (of plantation origin)
100	1922m SE	Unknown	Long-Established (of plantation origin)
101	1924m E	Unknown	Long-Established (of plantation origin)
102	1942m W	Unknown	Ancient (of semi-natural origin)
103	1943m SE	Woodlands Wood	Long-Established (of plantation origin)
104	1946m NW	Unknown	Long-Established (of plantation origin)
105	1952m SE	Sawmill/clune Wood	Long-Established (of plantation origin)
106	1953m SE	Sawmill/clune Wood	Long-Established (of plantation origin)
107	1962m W	Miss Bristow's Wood	Long-Established (of plantation origin)
108	1979m NW	Unknown	Long-Established (of plantation origin)

ID	Location	Name	Woodland Type
109	1982m E	Unknown	Long-Established (of plantation origin)
110	1991m W	Milton Wood	Long-Established (of plantation origin)
111	1995m SE	Balmur Wood	Long-Established (of plantation 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.