Glossary

'A' weighting dB(A)	The human ear does not respond uniformly to different frequencies. A-weighting is commonly used to simulate the frequency response of the ear.
Abutment	The structure that supports the end of the bridge or supports and retains the bridge approach.
Acid grassland	Grassland that occurs on acidic soils (pH less than 5.5).
Aggregate	Materials used in construction, including sand, gravel, crushed stone, slag, or recycled crushed concrete.
Air Quality Management Area (AQMA)	A non-permanent designation created if monitoring reveals that statutory air quality thresholds are being exceeded or will be exceeded in the near future.
Algae	Single or multi-cellular organisms that photosynthesise.
Alien species	A species that exists outside of its normal distribution.
Allocation	A proposal for land for housing, industry or other uses within a Local Plan that identifies a specific area of land to be developed within the time period of the plan.
Alluvium	Sediment deposited by a river.
Amber list species	Species with unfavourable conservation status in Europe or showing moderate declines or rare or localised in their distribution.
Ambient Noise	The all encompassing sound at any point in time.
Amenity grassland	Intensively managed and regularly mown grasslands that are typical of golf courses, sports pitches, playing fields and lawns. These grasslands are typically of low diversity and limited wildlife and landscape value.
Amenity value	Defined as the relative pleasantness of a journey and relates in particular to the exposure of pedestrians and others to traffic.
Ammocoete	Larval stage in the life cycle of lamprey.
Amphibian	Any cold blooded animal of the class Amphibia which includes frogs, toads and newts.
Ancient Woodland	Areas of land that appear as wooded on maps dated pre-1750 (in Scotland) and are considered likely to have been continuously wooded from this date.
Ancient Woodland Inventory	Aims to list all probable ancient semi-natural woodlands on a county basis together with those woodlands in other ancient categories of lesser woodland nature conservation interest.
Appropriate Assessment	Determination by an identified competent authority (Scottish Government, informed by SNH) of likely significant effects associated with a development on a European Protected Site. Required by law under Regulation 48 of the Habitats Regulations (1994), implementing Article 6(3) of Habitats Directive (92/43/EEC).
Aquifer	A body of rock through which appreciable amounts of water can flow.

Arable land	Land that is or can be used for growing crops.
Artificial refuge	A sheet of corrugated metal, carpet tile or other material that is placed on the ground and is typically used to survey for the presence of retiles and amphibians.
Assessment	An umbrella term for description, analysis and evaluation.
Attenuation	Increase in duration of flow hydrograph with a consequent reduction in peak flow.
Attribute	Characteristics of an environmental receptor.
Authority area	The area administered by a local authority for example, District Council, City Council or Unitary Authority.
Average Score Per Taxon (ASPT)	Calculated by dividing the Biological Monitoring Working Party (BMWP) score of a sample by the number of scoring families that contributed to the BMWP score of that sample.
Barrier effects	Features such as roads which may impact ecological communities through restriction of movement and habitat alteration, sub-dividing populations with demographic and possibly genetic consequences.
Baseline	The existing conditions which form the basis or start point of the environmental assessment.
Bedrock	Hard rock that lies beneath a superficial cover of soils and sediments.
Best Practicable Means	A feasible approach [to mitigation], having due regard for means, resources and conditions. Control of Pollution Act (1974) defines this as measures 'reasonably practicable having regard among other things to local conditions and circumstances, to the current stated of technical knowledge and to financial implications'.
Bioaccumulation	The process by which substances accumulate in the tissues of living organisms with particular reference to toxic substances that accumulate via a food chain.
Bioaccumulation	The process by which substances accumulate in the tissues of living organisms with particular reference to toxic substances that accumulate via a food chain.
Biodiversity	Biological diversity, or richness of living organisms present in representative communities and populations.
Biodiversity Action Plan (BAP)	Sets objectives, along with measurable targets for the conservation of biodiversity.
Biological Monitoring Working Party (BMWP)	A scoring system for measuring water quality using species of macroinvertebrates as biological indicators, based on the variability in sensitivity of invertebrate groups to different pollutants/pollutant types. Pollution-sensitive taxa are assigned a higher score than pollutant tolerant taxa. The higher the sum of individual taxon scores, the better quality invertebrate communities and the better the water quality.
Bog	An area of soft, wet, peaty ground.
Broadleaved woodland	An area of woodland with predominantly deciduous tree species (less than 10% coniferous trees in the canopy).
Bryophyte	Phylum of non-flowering plants, with little or no vascular tissue; includes plants such as true mosses and liverworts.

Buffer	A natural, undisturbed strip surrounding a development or land disturbance activity or bordering a stream or permanent water body.
Bund	An embankment, wall or dam that can be used to minimise noise or alternatively built around an oil tank to contain the contents in the event of spillage.
Burn	A small stream.
Calcareous	Refers to a sediment, sedimentary rock, or soil type which is formed from or contains a high proportion of calcium carbonate.
CAR	Controlled Activities Regulations
Catchment	The area contributing flow to a point on a drainage system.
Channel morphology	Physical characteristics of stream channels, such as width/depth ratio and sinuosity, and types of pattern e.g. braided, meandering, straight.
Channel sinuosity	An assessment of the degree of irregularity in the path of a river channel across the landscape; it is measured as the difference between channel length and valley length.
Community	Assemblage of interacting populations that occupy a given area.
Community Conservation Index (CCI)	A conservation indexing protocol for summarising aquatic macroinvertebrate data obtained from inland flowing and still water sites.
Community Severance	Community severance is defined here as the separation of residents from facilities and services they use within their community caused by new or improved roads or by changes in traffic flows.
Community type	The composition of plant species that form a habitat or group of habitats.
Commuting route	A linear route used regularly by individuals of a population of bats for travelling between roosting and foraging habitats.
Compulsory Purchase Order (CPO)	A legal document giving the government (Scottish Ministers) power to compulsorily purchase the areas of land necessary for construction of the scheme.
Coniferous woodland	An area of woodland with predominantly coniferous tree species (less than 10% deciduous trees in the canopy).
Conservation	Preservation or restoration of the natural environment and wildlife.
Conservation Area	Area of special architectural or historic interest, the character or appearance of which it is desirable to preserve or enhance. Designated under section 61 Planning (Listed Buildings and Conservation Areas) (Scotland) Act 1997.
Contaminated land	Land in such condition by reason of substances on or under the land that significant harm is being caused, there is a significant possibility of such harm being caused or pollution of controlled water is being, or likely to be caused'.
Contracting Parties	Partnership or organisation which enters into a binding agreement with one or more other contracting parties.

Core Path	A right of way designated by a Local Authority as being of importance to maintain access and leisure provision.
Couch	Above-ground otter shelter.
Cropmark	Marks visible in growing and ripening crops, especially via aerial photography, which reflect the differences in the subsoil beneath. For example, parched lines of grass may indicate hidden stone walls or packed stone layers.
Culvert	A metal, wooden, plastic, or concrete conduit through which surface water can flow under or across roads.
DAFOR Scale	A scale for assessing species abundance.
Decibel (dB)	The range of audible sound pressures is approximately 0.00002 Pa to 00 Pa. Using decibel notation presents this range in a more manageable form, 0 dB to 140 dB.
Deciduous	Trees and shrubs that shed their leaves annually.
Demography	The studying/science of the characteristics of populations, such as size, growth rate etc.
Designed Landscape	A designed area of landscape which is identified in the Inventory of Gardens and Designed Landscapes (jointly compiled by SNH and Historic Scotland).
Detention basin	An area for temporarily storing water which delays its flow downstream. Includes some water quality benefits. Usually part of SUDS (drainage design).
Diffuse pollution	Contamination and pollution arising from many dispersed and different sources. These sources are often individually minor, but collectively may be significant.
Discharge regime	The rate of flow of a river at a particular moment in time, relative to volume and velocity.
Displacement	To move something from its natural environment.
Diurnal	Organisms which are active during daylight hours.
Dolerite	Basic igneous rock similar in composition to basalt but with a coarser grain.
Do-Minimum (DM)	The base scenario for assessment purposes, where there are no modifications to the existing road network. May also refer to the minimum modifications, which will necessarily take place in the absence of a proposed scheme.
Do-Something (DS)	The 'with proposed scheme' scenario for assessment purposes,
Drey	The most common squirrel nest type. Comprises a round ball of twigs, leaves and bark. Frequently built close to tree trunk or in branch forks to provide shelter.
Drift deposits	Drift geology overlying bedrock.
Driven shooting	Involves birds being driven over guns by beaters. The guns are stationed in pre- determined positions.
Earthworks	Works created through the moving of quantities of soil or unformed rock.

Easements	A term relating to law where a right (e.g. a right of way) is held by one person to make limited use of another landowner's property.
Echolocation	The use by bats of ultrasonic signals to navigate and locate insect prey.
Ecological Clerk of Works (ECoW)	A qualified ecologist who supervises construction sites, ensuring that ecological impacts are minimised and that the law relating to protected species etc. is complied with.
Ecological receptors	Living organisms, habitats, or natural resources that could be impacted by the construction or operation of the proposed scheme.
Ecology	The branch of biology concerned with the relations of organisms to one another and to their physical surroundings.
Ecosystem	A biological community of organisms interacting with one another and their physical environment.
Edge effect	Processes that characterise habitat fragmentation and the concomitant creation of edges. Habitat conditions (such as degree of humidity and exposure to light or wind) created at or near the more-or-less well-defined boundary between ecosystems, as, for example, between open areas and adjacent forest.
Effect	The result of change or changes on specific environmental resources or receptors.
Eft	An immature newt in its terrestrial phase.
Electrofishing	A fish sampling technique using electric currents and electric fields to control fish movement and/or immobilize fish, allowing capture.
Element	A component part of the landscape or environment (e.g. roods, hedges, woodlands).
Emergent vegetation	The vegetation that grows up from within the water.
Environmental Clerk of Works (EnvCoW)	A qualified environmental specialist who supervises construction sites, ensuring that environmental aspects are considered and any mitigation measre are commitments are implemented.
Environmental Impact Assessment (EIA)	The process by which information about the environmental effects of a project is evaluated and mitigation measures are identified.
Environmental Management Plan (EMP)	Document which describes the processes to be followed to ensure compliance with environmental legislation and policy and minimise harm to the environment.
Environmental Statement (ES)	Document provided by the Developer to the Competent Authority, containing environmental information required under Article 5 of Directive 85/337/EEC as amended.
Feeding station	In ecology, a favoured spot where food items are often brought to be eaten and feeding remains as neat piles of chewed lengths of vegetation are evident.
Fen	A wetland that, like a bog, has organic soil. In contrast with bogs, fens receive most of their water from the surrounding groundwater, and consequently can be either acidic or alkaline, depending on the surrounding earth. They support a greater variety of plants than bogs, but are often still dominated by peat.

Fill	Material deposited by man in ground depression or excavated area.
Floodplain	Land adjacent to a river, which is subject to regular flooding.
Flora	Referring to plants of a particular region or habitat.
Flow regime	Combinations of river discharge and corresponding water levels and their respective (yearly or seasonally) averaged values and characteristic fluctuations around these values.
Fluvial geomorphology	The study of landforms associated with river channels and the sediment processes which form them.
Footprint	The geographical extent of an ecological impact.
Foraging	Searching for food or provisions.
Fragmentation	Breaking up of an organisms habitat into smaller fragments that may vary in size.
Freshwater	Bodies of water such as ponds, lakes, rivers and streams containing low concentrations of dissolved salts and other total dissolved solids.
Geomorphology	The branch of geology concerned with the structure, origin and development of topographical features of the earth's crust.
Geophysical survey	Geophysical survey is a non-intrusive pre-construction archaeological evaluation technique that exploits a variety of physical or chemical characteristics of rocks and soils etc, in an attempt to locate underground features of archaeological interest. Types of geophysical survey include magnetometer survey, magnetic susceptibility survey and resistivity survey.
Geotextile	Permeable fabric made of polypropylene/polyester and which has the ability to separate, filter, reinforce, protect or drain.
Glacial Till	Glacial till is that part of glacial drift which was deposited directly by the glacier. It may vary from clays to mixtures of clay, sand, gravel and boulders.
Glaciofluvial	Pertaining to streams fed by melting glaciers, or to the deposits and landforms produced by such streams.
Glide	Even paced section of river or stream with laminar flow.
Green Belt	The green belt is an area of countryside around the edge of an urban area where new building is not normally allowed and planning is strictly controlled. The aims are to prevent urban expansion, allow easy access to the countryside and protect attractive landscapes.
Green list species	Bird species with no identified threat to their population status.
Ground Investigation	Exploratory investigation to determine the structure and characteristics of the ground. The collected information is used to establish or predict ground and groundwater behaviour during, and subsequent to, construction.
Ground-truthing	Verification on the ground of conditions on a site.
Groundwater	Water below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

Habitat	Term most accurately meaning the place in which a species lives, but also used to describe plant communities or agglomerations of plant communities, as used, for example in a Phase 1 Habitat Survey.
Habitat Action Plan	Objectives set by the British government to conserve the biodiversity in given habitats.
Habitat complexity	The sum of factors which interact to dictate environments in which species live.
Habitat fragmentation	Describes the breaking up of an organisms preferred environment/habitat. Occurs naturally through geological processes that alter the layout of the physical environment over long periods of time, or through human activities, such as land conversion.
Habitat Modification Index	An index used to assess the condition of a river corridor based on the biological condition of a sampling point.
Habitat Modification Score	An assessment of the extent of anthropogenic modification to a channel. Larger scores indicate a higher degree of modification.
Habitat Quality Assessment	A measure of the structural diversity of the river. Increasing scores are associated with increasingly complex habitat diversity.
Habitat Regulations Appraisal (HRA)	The process by which certain plans or projects are assessed which could affect the integrity of european sites. The report is used to inform an Appropriate Assessment (AA) under the requirements of the Habitats Directive.
Habitat Suitability Index	A numerical index that represents the capacity of a given habitat to support a selected species.
Habitats Directive	EC Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora.
Habituate	To become accustomed to a particular situation.
Heathland	Uncultivated land with sandy soil and scrubby vegetation.
Heavy Duty Vehicle (HDV)	Vehicles greater than 3.5 tonnes gross (includes HGVs, as below).
Heavy Goods Vehicle (HGV)	Vehicles with 3 axles (articulated) or 4 or more axles (rigid and articulated).
Hibernacula	Structures used by animals to hibernate through the winter, such as log piles, rock piles, vegetation piles, old mammal burrows, tree root complexes and buildings.
Hibernation	Extended period of torpor undertaken during winter.
Holt	Deep underground otter shelter.
Hydraulic	Of, relating to, or operated by the force of liquid in motion.
Hydrocarbon	A chemical compound of hydrogen and carbon.
Hydrogeology	Branch of geology dealing with occurrence, distribution, and effect of groundwater.
Hydrological	The exchange of water between the atmosphere, the land and the oceans.

Hymenoptera	Taxonomic order of the Insecta which includes ants, bees and wasps.
Igneous Petrology	The study of igneous rocks, their occurrence, composition, and origin.
Impact	Any changes attributable to the proposed scheme that have the potential to have environmental effects (i.e. the causes of the effects).
Impermeable	Material that does not allow fluids to pass through it.
Improved grassland	Grasslands that have been so modified by fertilisers, drainage or grazing that they have lost most of the species expected in unimproved grassland.
Incidental sighting	Casual observation of a plant or animal of one or more species recorded by whilst performing a non-relevant ecological survey.
Indicator species	A species that is characteristic of a particular habitat. The disappearance of such a species is an early warning of habitat degradation.
Inter alia	'Among other things'.
Inter-bedded	Alternating layers of different materials in a section of bedded rocks.
Interstitial	Referring to the spaces between sediment grains or in other minute spaces.
Invertebrate	An animal without a backbone.
L _{Aeq}	Equivalent Continuous Sound Level. A notional steady sound level which would cause the same A-weighted sound energy to be received as that due to the actual, possibly fluctuating, sound level over a given period of time.
Landform	Combination of slope and elevation producing the shape and form of the land surface.
Landscape	Human perception of the land, conditioned by knowledge and identity with a place.
Land-tak e	Acquired land which is necessary to construct the proposed scheme and associated infrastructure and to undertake the essential environmental mitigation measures.
Larvae	An active immature form of an insect or other animal that undergoes metamorphosis, e.g. a caterpillar or tadpole.
Lateral connectivity	Hydrologic connectivity is defined as the condition by which disparate regions on the hillslope are linked via subsurface water flow. Lateral refers to the spatial dimensions of riverine/riparian/floodplain habitats.
Lichen	A group of complex organisms, which are formed from the symbiotic association of a fungus and an alga.
Listed Building	Building included on the list of buildings of special architectural or historic interest and afforded statutory protection under the 'Planning (Listed Buildings and Conservation Areas) (Scotland) Act 1997' and other planning legislation. Classified categories A-C.
Lithology	The study of rocks, with particular emphasis on their in terms of their color, texture, and composition.

Local Landscape Character Area (LLCA)	An area outlined as having distinct characteristics based on landscape features. Derived from regional landscape studies available from SNH.
Macroinvertebrate	An animal without a backbone that can be seen with the naked eye, for example, snails, waterfleas, shrimps or insects.
Macrophyte	An individual alga large enough to be seen easily with the unaided eye.
Made ground	Ground comprised of material deposited by man i.e. not natural.
Magnitude	Size, extent, scale and duration of an impact.
Marginal vegetation	Vegetation at the water's edge.
Marshland	Low-lying wet land with grassy vegetation; usually a transition zone between land and water.
Meadow	An area of grassland that has is normally grazed by livestock and/or used for growing hay.
Meander bend	A bend in a sinuous watercourse. Formed when moving water in a valley bottom erodes the outer banks causing the channel to change shape.
Mesotrophic	Of a moderately rich or productive habitat.
Migration	The movement (of an animal) from one habitat to another according to the seasons.
Mineral extraction	The removal of a naturally occurring solid formed through geological process that has a characteristic chemical composition, a highly ordered atomic structure and specific physical properties.
Mire	General term for all peat-forming ecosystems; bog, fen, carr, muskeg, moor and peatland (does not include marshes as these are non-peat-forming and are seasonally flooded).
Mitigation	Measure to avoid, reduce or offset potential adverse impacts.
Mixed plantation woodland	Planted stands with either broadleaf or conifer species comprising 10-90% of the canopy.
Monoculture	Land that is used to grow one crop only.
Natal holt	The small space (usually a holt or couch) used by a female otter to give birth and raise cubs for a period of up to three months.
National Vegetation Classification (NVC)	A system to describe British vegetation types, whereby each vegetation type has a different 'code'.
Native	A species occurring in its normal geographic range (not introduced).
Non-indigenous	Not originating in, nor characteristic of, a particular area.
Non-motorised users	Pedestrians, cyclists and equestrians.
Non-prime land	Agricultural land of Land Capability for Agriculture (LCA) classes 3.2 to 7.

Non-Statutory Guidance/ Organisation	Direction from a professional governing body and not directly through legislation.
Notable species	Species which are below Red Data Book species in terms of threat status.
Offsetting	The process of compensating for something with something else.
Open space	Any land laid out as public parks or used for the purpose of public recreation, or land which is a disused burial ground.
Outfall	The place of discharge e.g. where a sewage pipe discharges into a river.
Parr	Young salmon or trout with distinctive thumbprint markings on flanks.
Pasture	An area of grassland (or other suitable plants) used to feed grazing animals.
Peatland	Land where plant decomposes only partially and accumulates to form brown to black organic material called peat; the two main types are bogs and fens.
Perennial	A plant that continues to grow from year to year, sometimes undergoing several years of growth before seeds are produced.
Permeable	Something that can be penetrated/passed through by something else e.g. soil is permeable to water as the water can pass through it.
рH	A figure expressing acidity or alkalinity on a logarithmic scale of 0 to 14.
Phase 1 Habitat Survey	This identifies the different habitats that are contained within or make up a site, and the key plant species for each of those habitat types.
Phase 2 Habitat Survey	A detailed specialist survey or phytosociological (plant community) study of a habitat within a site. It may utilise analysis of sample vegetation plots (quadrats) following the UK National Vegetation Classification.
Pile/Piling	A heavy stake or post made out of timber, steel, reinforced concrete or pre-tensioned concrete, driven into the ground to support foundations.
PlanningAdvice Note (PAN)	Supporting document to National Planning Policy Guidelines, which disseminates good practice and provides more specific design advice of a practical nature.
Plantation woodland	Woodland of any age that obviously originated from planting.
Poaching	Term used in river habitat survey (RHS) to mean the erosion of a watercourse bank by livestock.
Point bars	Deposits of alluvium found on the inside bank of a meander, they form when alluvium is eroded from the outside bend (cut bank) and deposited on the inside bend of a meander.
Point pollution	A point source of pollution is a single identifiable localised source of air, water, thermal, noise or light pollution.
Polycyclic aromatic hydrocarbon (PAH)	Any of a class of carcinogenic organic molecules that consist of three or more benzene rings and are commonly produced by fossil fuel combustion.

Potential Impact	The impact on an aspect of the environment that may occur in the absence of mitigation.
Prime agricultural land	Agricultural land of Land Capability for Agriculture (LCA) classes 1, 2 and 3.1.
Priority habitat	Those which have been identified as being most threatened and requiring actions under the UK Biodiversity Action Plan.
Priority species	Those which have been identified as being most threatened and requiring actions under the UK Biodiversity Action Plan.
Proposed Scheme	The scheme design as reported in Chapter 4 of the ES, and used as the basis for environmental assessment and reporting.
Quadrat	A sample area of known size enclosed within a square frame, inside of which a community of plants/animals is analysed.
Qualitative	Concerned only with the nature of the organism/substance being investigated.
Quantitative	Concerned with the number, as well as nature of the organism/substance being investigated.
Ramsar sites	Internationally important wetland identified for conservation under the RAMSAR Convention 1971.
Receptor	In this context, an element that is susceptible to being affected (either directly or indirectly) by the proposed scheme. Examples include habitats, species, people, properties, landscape, archaeological remains etc.
Red Data List	The IUCN Red List of Threatened Species [™] provides taxonomic, conservation status and distribution information on plants and animals that have been globally evaluated using the IUCN Red List Categories and Criteria. Designed to determine the relative risk of extinction, and to catalogue and highlight those plants and animals that are facing a higher risk of global extinction (i.e. those listed as Critically Endangered, Endangered and Vulnerable).
Red list species	Bird species in severe population decline. Or globally threatened.
Refuge/refuges	Any structure that provides animals temporarily with a place they can retreat to and feel secure. This can be rock or log piles, dense scrub or mammal burrows
Regionally Important Geological Sites (RIGS)	Sites designated by regional geological groups on locally developed criteria, currently the most important places for geology and geomorphology outside statutorily protected land such as SSSIs.
Residual impact	Residual impact means the environmental impact after the provision of mitigation measures, if any.
Rhizome	A horizontally creeping underground stem which bears roots and leaves and usually persists from season to season
Riffle	A shallow section of a river/stream where the water is fast-flowing over a gravel/cobble substrate.
Right of way	A public right of way is a defined route which has been used by the general public for at least 20 years and which links two public places (usually public roads).

Riparian habitat	Natural home for plants and animals occurring in a thin strip of land bordering a stream or river.
Riparian zone	The area of habitat that is under the influence of the water body. It includes the transitional area between the water and land, and also extends further back than just the water edges.
River basin characterisation	The process of identifying the type, and all significant pressures on every water body.
River Basin District	The area of land and sea, made up of one or more river basins, together with the associated groundwater and coastal waters, identified by the Water Framework Directive as the main unit for the management of river basins.
River basin management plan	A plan setting out actions required within a river basin to achieve set environmental quality objectives, reviewed on a six yearly basis.
River Habitat Survey (RHS)	A survey to assess the physical structure of freshwater streams and rivers, providing a broad assessment of habitat quality.
Rockhead	The surface representing the top of the solid geological strata, i.e. below any drift deposits.
Roost	Any resting site used by bats including maternity roosts which are used by females and their young, hibernacula which are used during winter hibernation and transitional roosts which may be used at any time.
Rough grassland	Rank or tussocky grassland. May have been drained, grazed, mown or treated with manure but not so improved by fertiliser or herbicides as to have altered the sward composition greatly. Associated with unenclosed uplands, lowlands with poor access or wet areas, and road verges.
Rough pasture	Rough pasture is non-intensive grazing pasture, commonly found on poor soils, especially in hilly areas.
Ruderal	A plant that colonizes disturbed ground. They are often weeds that have a high nutrient requirement and/or are intolerant of competition.
Run	Fast flowing, silent water flow. Standing waves at surface are unbroken.
Runoff	Water that flows over the ground surface to the drainage system. This occurs if the ground is impermeable or if permeable ground is saturated.
Salmonid	Pertaining or belonging to the family Salmonidae (salmon, trout and charr).
Scat	Animal faeces.
Scheduled Monument (SM)	A monument which has been scheduled by the Scottish Ministers as being of national importance under the terms of the 'Ancient Monuments and Archaeological Areas Act 1979'.
Scottish Planning Policy (SPP)	A statement of Scottish Government policy on nationally important land use.
Scour	A depression or hole left when sediment is washed away from the bottom of a river.

Scrub	Vegetation dominated by locally native shrubs, usually less than 5m tall.
Sediment	Material carried in particles by water or wind and deposited on the land surface or seabed.
Sedimentation	The deposition or accumulation of sediment.
Semi-improved grassland	Grassland that has been modified by fertilizers, drainage or intensive grazing. Contain less species diversity than unimproved grasslands.
Semi-natural Ancient Woodland	Areas that appear as wooded on 1860 maps but not maps from 1750 i.e. woodland that appeared between these two dates.
Semi-natural habitat	Habitat which has been altered by altered by land management.
Semi-natural woodland	Woodland that does not obviously originate from planting. The distribution of species will generally reflect the variations in the site and the soil. Planted trees must account for less than 30% of the canopy composition.
Sett	The burrow system of badgers comprising a series of underground tunnels and chambers. There are several categories of sett including a main sett, annexe sett, subsidiary sett and outlier sett.
Severance	The separation of communities from facilities and services used within their community. Alternatively, in relation to agricultural land, the division of land into separate areas, potentially affecting access or availability for agricultural use.
Side bar	See Point Bar.
Sinuous	A river with many curves/ bends (meanders).
Site compound	A secure area close to the construction site white provides full site services including storage for equipment, materials and fuel, offices and amenity areas.
Site of Importance to Nature Conservation (SINC)	Non-statutory designation which seeks to protect areas of high wildlife value at a local level.
Sites of Special Scientific Interest (SSSI)	Designated areas of national importance. The aim of the SSSI network is to maintain an adequate representation of all natural and semi-natural habitats and native species in the UK. The site network is protected under the provisions of Sections 28 and 19 of the Wildlife and Countryside Act 1981 as well as the Amendment Act 1985 and the Environmental Protection Act 1990.
Soakaway	A deep hole used for drainage, where rainwater and other waste water drains directly into the ground, without connection to mains drainage or sewerage pipes.
Soutterain	Curving, underground passageway built many years ago, which are usually lined with stone. Their use is not known but it is thought that they were either used for storage of valuable commodities or for ritual purposes.
Spawning	The process of egg release into the water by aquatic animals.
Special Area of Conservation (SAC)	An area designated under the EC Habitats Directive to ensure that rare, endangered or vulnerable habitats or species of community interest are either maintained at or restored to a favourable conservation status.

Special Protection Area (SPA)	An area designated under the Wild Birds Directive (Directive74/409/EEC) to protect important bird habitats.
Species Action Plan	UK Biodiversity Action Plans detailing information on the conservation status of 382 species and the actions necessary to achieve the action plan targets.
Specific impact	A forceful consequence or strong effect to something particular or unique.
Spraint	Otter faeces.
Stakeholder	A person or group that has an investment, share or interest in something.
Statute	Formal written enactment of a legislative authority that governs a country, city, or county. Typically, statutes command or prohibit something, or declare policy. Statute is often used to distinguish law made by legislative bodies from case law and the regulations issued by Government agencies.
Strategic Environmental Assessment (SEA)	The process by which information about the environmental effects of proposed plans, policies and programmes are evaluated.
Strategic Transport Project Review (STPR)	A two year review of the Scottish transport network being undertaken by Transport Scotland. It aims to identify and prioritise road, rail and other interventions of national significance, which will be taken forward to improve the network. Through selecting which transport projects of national significance should be progressed, the STPR would also affect regional and local transport networks.
Sub-lethal	Not causing death directly but has cumulative deleterious effects.
Superficial Deposits	The youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back 1.8 million years.
Susceptibility	The ability to accommodate change without adverse effect.
Sustainable Drainage Systems (SUDS)	A sequence of management practices and control structures designed to drain surface water in a more sustainable fashion than some conventional techniques.
Swamp	An area of wet spongy land that often supports some trees and vegetation but is too wet for cultivation.
Таха	Plural of taxon.
Taxon	A taxonomic group of any rank.
Taxonomy	The branch of science (biological) concerned with classification.
Terrestrial	The environment above the mean high water spring
Threshold	The minimum intensity or value of a signal etc that will produce a response or specified effect.
Turbid	High concentrations of suspended sediment and particulates in the water column.
Tussocky grassland	Grassland which have no, or only a very sparse, tree and shrub layer, and a ground layer dominated by tussock-forming (clump of) grasses.

Vascular plants	Higher plants, including flowering plants, conifers and ferns. They are characterised by the possession of specialized tissues (vascular tissue) for the translocation of substances around the plant.
Velocity	A measure of the speed and direction of an object.
Vernacular	Refers to a type of architecture which is indigenous to a specific time or place.
Viaduct	A bridge that carries a road, railroad etc. over a valley.
Vibro-piling	A method of driving a pile into the ground using rapid repeated oscillations of the pile.
Visual envelope	Illustrates the extent of potential visibility to or from a specific area.
Vulnerable groups	In environmental assessment, generally children, elderly and disabled.
Water Framework Directive (WFD)	European environmental legislation (2000/60/EC) relating to inland surface waters, estuarine and coastal waters and groundwater. Fundamental objective to maintain "high status" of waters where it exists, preventing any deterioration in the existing status of waters and achieving at least "good status" in relation to all waters by 2015.
Water quality	The chemical and biological status of various parameters within the water column and their interactions, for example dissolved oxygen, indicator metals such as dissolved copper, or suspended solids (the movement of which is determined by hydrological process and forms geomorphological landforms).
Wildfow	Any wild bird such as ducks, geese or swans.
Wildlife and Countryside Act 1981 (WCA)	Principal mechanism for wildlife protection in the UK. Referred to as WCA.
Working corridor	Strip of land either side of a proposed development.
Zone of influence	An area along a proposed development over which potential effects extend.

Abbreviations

AADT	Annual Average Daily Traffic
AAWT	Average Annual Weekday Traffic
AEP	Annual Exceedance Probability
aOD	above Ordnance Datum
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area
AQO	Air Quality Objectives
ASPT	Average Score Per Taxon
AWI	Ancient Woodland Inventory
B&B	Bed and Breakfast
BAP	Biodiversity Action Plan
BCT	Bat Conservation Trust
bgl	Below ground level
BGS	British Geological Survey
BHS	British Horse Society
BMWP	Biological Monitoring Working Party
BS	British Standard
BTO	British Trust for Ornithology
CAR	Water Environment (Controlled Activities) (Scotland) Regulations 2005
CBD	Convention on Biological Diversity
CCI	Community Conservation Index
CEL:LfN	Cost Effective Landscapes: Learning from Nature
CEMP	Construction Environmental Management Plan
ch	Chainage
CIEH	Chartered Institute of Environmental Health
CIRIA	Construction Industry Research and Information Association
CL:AIRE	Contaminated Land: Applications in Real Environments
CO ₂	Carbon Dioxide

CoPA	Control of Pollution Act (1974)
COSHH	Control of Substances Hazardous to Health Regulations
CP	Crossing Point
СРО	Compulsory Purchase Order
CROW	Catalogue of Rights of Way
CRTN	Calculation of Road Traffic Noise
cSLA	Candidate Special Landscape Area
CSM	Conceptual Site Model
CTC	Cycle Touring Club (Scotland)
D&B	Design and Build
D2AP	Dual Carriageway Rural All Purpose
dB	Decibel
DEFRA	Department of the Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges
DSFB	District Salmon Fisheries Board
DTM	Digital Terrain Model
ECoW	Ecological Clerk of Works
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
END	Environmental Noise Directive
EnvCoW	Environmental Clerk of Works
EPA	Environmental Protection Act (1990)
EPS	European Protected Species
EQS	Environmental Quality Standards
ES	Environmental Statement
EU	European Union
FEH	Flood Estimation Handbook
GAC	Generic Assessment Criteria
GBR	General Binding Rules

GCN	Great Crested Newt
GCR	Geological Conservation Review
GES	Good Ecological Status
GI	Ground Investigations
GIS	Geographic Information System
GLVIA2	Guidelines for Landscape and Visual Impact Assessment $2^{n\alpha}$ Edition (2002)
GLVIA3	Guidelines for Landscape and Visual Impact Assessment 3 ^{ra} Edition (2013)
GPS	Global Positioning System
GPZ	Groundwater Protection Zones
GSV	Gas Screening Value
GWDTE	Groundwater Dependent Terrestrial Ecosystems
ha	Hectare
HALP	Highland Area Local Plan
HAP	Habitat Action Plan
HAWRAT	Highways Agency's Water Risk Assessment Tool
HDV	Heavy Duty Vehicle
HES	High Ecological Status
HGV	Heavy Goods Vehicle
HLA	Historic Landscape Assessment
HLT	Historic Landscape Type
HMWB	Heavily Modified Waterbodies
HRA	Habitat Regulations Appraisal (or Assessment)
HRA	Hot Rolled Asphalt
HSE	Health and Safety Executive
HSI	Habitat Suitability Index
HVH	High Value Habitats
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
IEEM	
	Institute of Ecology and Environmental Management
IEMA	Institute of Ecology and Environmental Management Institute of Environmental Management and Assessment

IfA	Institute for Archaeologists
IIP	Infrastructure Investment Plan
INNS	Injurious Non-Native Species
IUCN	International Union for the Conservation of Nature
JLA	Journey Length Assessment
JNCC	Joint Nature Conservation Council
JTC	Junction Turning Count
kph	Vehicle speed, kilometres per hour
LAQM	Local Air Quality Management
LBAP	Tayside Local Biodiversity Action Plan
LCA	Land Capability for Agriculture
LCA	Landscape Character Area
LCT	Landscape Character Type
LDP	Local Development Plan
LDV	Light Duty Vehicles
LHAP	Local Habitat Action Plan
LLCA	Local Landscape Character Area
LNR	Local Nature Reserve
LNSR	Low Noise Surface Road
LQM	Land Quality Management
LSAP	Local Species Action Plans
LWS	Local Wildlife Site
mBGL	Metres Below Ground Level
MLURI	Macaulay Land Use Research Institute
MMP	Materials Management Plan
MTRIPS	Major Transport Infrastructure Projects
NAQS	National Air Quality Strategy
NBN	National Biodiversity Network
NCN	National Cycle Network
NCR	National Cycle Route

NCSA	Nature Conservation (Scotland) Act 2004
NGR	National Grid Reference
NMU	Non-Motorised User
NNR	National Nature Reserve
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NOx	Oxides of Nitrogen
NPF	National Planning Framework
NPF2	National Planning Framework 2
NPF3	National Planning Framework 3
NPPG	National Planning Policy Guidelines
NRTF	National Road Traffic Forecasts
NTAXA	The Number of Scoring Taxa
NTS	National Transport Strategy
NTS	Non-Technical Summary
NVC	National Vegetation Classification
OS	Ordnance Survey
РАН	Polycyclic Aromatic Hydrocarbon
PALP	Perth Area Local Plan
PAN	Planning Advice Note
PEL	Probable Effects Levels
PES	Preliminary Engineering Services
PKLPD	Perth & Kinross Local Development Plan
PM ₁₀	Particulate Matter
PPG	Pollution Prevention Guidelines
PWL	Sound Power Level
PWS	Private Water Supply
q50	Flow that is expected to be exceeded 50% of the time (m^3/s)
q95	Flow that is expected to be exceeded 95% of the time (m^3/s)
QMED	Median annual maximum flood flow (m $^{\circ}$ /s) (the same as the flow with a 2yr return period)

RAP	Route Action Plan
RBMP	River Basin Management Plan
RCAHMS	Royal Commission on Ancient and Historical Monuments of Scotland
RHS	River Habitat Survey
RICT	River Invertebrate Classification Tool
RIGS	Regionally Important Geological Sites
RISS	Route Improvement Strategy Study
RoD	Record of Determination
ROW	Right of Way
RSPB	Royal Society for the Protection of Birds
SAAR	Standard Average Annual Rainfall (mm)
SAC	Special Area of Conservation
SAP	Species Action Plan
SBL	Scottish Biodiversity List
SCI	Sites of Community Importance
SDP	Strategic Development Plan
SEA	Strategic Environmental Assessment
SEPA	Scottish Environment Protection Agency
SFRA	Strategic Flood Risk Assessment
SHEP	Scottish Historic Environment Policy
SHEP	Scottish Historic Environmental Policies
SINC	Site of Importance to Nature Conservation
SNH	Scottish Natural Heritage
SOM	Soil Organic Matter
SPA	Special Protection Area
SPL	Sound Pressure Level
SPP	Scottish Planning Policy
SSSI	Site of Special Scientific Interest
STAG	Scottish Transport Appraisal Guidance
STPR	Strategic Transport Project Review

STW	Sewage Treatment Works
SUDS	Sustainable Drainage Systems
SWMP	Site Waste Management Plan
TACTRANS	Tayside and Central Scotland Transport Partnership
TBP	Tayside Biodiversity Partnership
TEL	Threshold Effects Levels
TMfS	Transport Model for Scotland
TRS	Trophic Ranking Score
TS	Transport Scotland
UKBAP	UK Biodiversity Action Plan
WANE	Wildlife and Natural Environment (Scotland) Act 2011
WCA	Wildlife and Countryside Act 1981
WEWS	Water Environment and Water Services (Scotland) Act 2003
WFD	Water Framework Directive
WS2+1	Wide single 2+1 (sections of roads consisting of two lanes of travel in one direction and a single lane of traffic in the opposite direction).