

Your ref:

Our ref: 20061208_beckyhillcovelet_msp.doc

Rebecca Hill
Mouchel Parkman
93 Water Lane
Leeds
LS11 5QN

08 June 2008

Dear Rebecca

DATA ENQUIRY FOR CARRUTHERSTOWN AREA

As you requested, I have carried out a data search for species records held by the Dumfries and Galloway Environmental Resources Centre which fall within the study site. The study site was defined as using the map provided and a buffer of 1km added as requested. Information on these species records, along with maps showing broad habitat types/protected sites etc. for the area, have been sent by email. A copy of the Local Wildlife Site report for Kelhead Flow accompanies this letter.

As you will be aware from the metadata provided previously, and given that the Centre is still in its infancy, our records at present are still incomplete for many species and species groups. We have very little information, for example, on Badgers, birds and bats. I would therefore recommend you contact other people to find out further information, in particular the local SNH office who you have no doubt already been in touch with. The County Bird Recorder (Paul Collin) and Pete Dale (representative for local badger group) may also be useful contacts.

Please note that release of these data is in accordance with the terms and conditions of data release included with the Data Enquiry Form, and that permission to use the data expires after six months.

Finally, the Environmental Resources Centre would be very pleased to receive copies of any reports/records resultant from your any fieldwork undertaken part of this project when these are publicly available (as is outlined in the IEEM best practice guidelines) to enable this information to be made readily available for other purposes such as updating the Local Biodiversity Action Plan. Due to its large size and small population, Dumfries and Galloway suffers from under-recording of many species and the information from such studies can be valuable in helping with local atlas work etc. I hope you and your client will be able to contribute information to the Centre.

An invoice will be sent out shortly. Please do not hesitate to contact me if you require any further information.

Yours sincerely

Mark Pollitt
DGERC Manager

Species records

99 records were obtained of species within your search area and 17 of these records appear on one or more of the lists highlighted. More information on any of these species/records can be provided on request.

NB Species highlighted in green appear on one or other of the following lists: LBAP, UKBAP, W&CA, RDB, Notable/Scarce or on the Scottish Biodiversity List. Details can be found on the right hand side of the table.

NB Record dates (column D) prefixed by a minus sign (-) can be interpreted as 'pre' the date specified. For example, '-1990' means that the record is known to have occurred before 1990.

10km Sq	Scientific Name	Common Name	Date	Location	Spatial Ref	Spatial Ref Qualifier	Survey Name	Recorder(s)	Comment	Occurrence Type	Record Type	Measure Data	Measure Qualifier	Measure Unit	Measure Type	LBAP Species	UK BAP Species	W&C Act	RDB	Notable /Scarce	Scottish Biodiversity List
NY17	Andromeda polifolia	Bog-Rosemary	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	A	Field/ground	DAFOR	Coverage	Y					
NY17	Betula pubescens	Downy Birch	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Calluna vulgaris	Heather	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	F	Field/ground	DAFOR	Coverage						Y
NY17	Drosera rotundifolia	Round-Leaved Sundew	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage						
NY17	Empetrum nigrum nigrum	Crowberry	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage						
NY17	Erica tetralix	Cross-Leaved Heath	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	D	Field/ground	DAFOR	Coverage						
NY17	Eriophorum angustifolium	Common Cottongrass	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	F	Field/ground	DAFOR	Coverage						
NY17	Eriophorum vaginatum	Hare's-Tail Cottongrass	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	D	Field/ground	DAFOR	Coverage						
NY17	Myrica gale	Bog Myrtle	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Narthecium ossifragum	Bog Asphodel	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage						
NY17	Pinus sylvestris	Scots Pine	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	D	Canopy	DAFOR	Coverage					Y	Y
NY17	Rhododendron ponticum	Rhododendron	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Rhynchospora alba	White Beak-Sedge	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage						
NY17	Vaccinium myrtillus	Bilberry	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Vaccinium oxycoccos	Cranberry	14/09/1999	Kelhead Flow: compartment A	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	D	Field/ground	DAFOR	Coverage						
NY17	Betula pubescens	Downy Birch	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Betula pubescens	Downy Birch	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage						
NY17	Betula pubescens	Downy Birch	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	F	Canopy	DAFOR	Coverage						
NY17	Betula pubescens	Downy Birch	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	F	Canopy	DAFOR	Coverage						

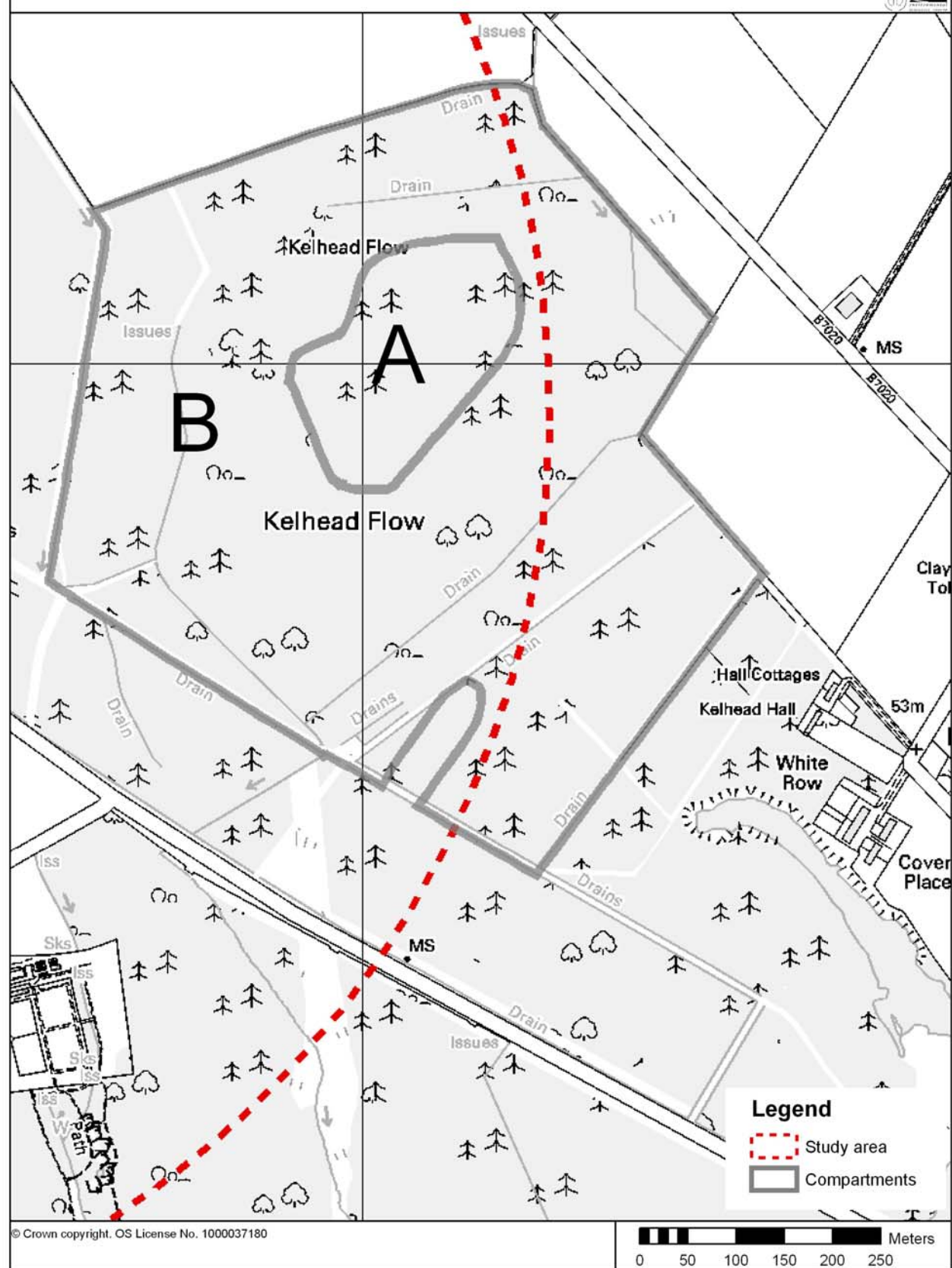
NY17	Callitriche stagnalis sens.str.	Common Water-Starwort	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Cardamine flexuosa	Wavy Bitter-Cress	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Deschampsia caespitosa	Tufted Hair-Grass	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Deschampsia flexuosa	Wavy Hair-Grass	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Digitalis purpurea	Foxglove	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Dryopteris dilatata	Broad Buckler-Fern Common Marsh-Bedstraw	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	A	Field/ground	DAFOR	Coverage		
NY17	Galium palustre		14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Galium saxatile	Heath Bedstraw	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Ilex aquifolium	Holly	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Shrub	DAFOR	Coverage		
NY17	Juncus effusus	Soft Rush	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Luzula multiflora	Heath Wood-Rush	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Molinia caerulea	Purple Moor-Grass	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	O	Field/ground	DAFOR	Coverage		
NY17	Oxalis acetosella	Wood-Sorrel	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	F	Field/ground	DAFOR	Coverage		
NY17	Pinus sylvestris	Scots Pine	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	D	Canopy	DAFOR	Coverage	Y	Y
NY17	Rhododendron ponticum	Rhododendron	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	F	Field/ground	DAFOR	Coverage		
NY17	Rubus fruticosus agg.	Bramble	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Rubus idaeus	Raspberry	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Sorbus aucuparia	Rowan	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Urtica dioica	Common Nettle	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	R	Field/ground	DAFOR	Coverage		
NY17	Vaccinium myrtillus	Bilberry	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	F	Field/ground	DAFOR	Coverage		
NY17	Quercus	Oak	14/09/1999	Kelhead Flow: compartment B	NY1470	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	1	Field/ground	DAFOR	Coverage		
NY17	Aulacomnium palustre	Bog Groove-moss	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance		
NY17	Hypnum cupressiforme sens.lat.	Hypnum cupressiforme sens.lat.	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance		
NY17	Odontoschisma sphagni	Odontoschisma sphagni	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites Local	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance		

														Sites	
NY17	Plagiothecium undulatum	Plagiothecium undulatum	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Pleurozium schreberi	Pleurozium schreberi	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Polytrichum commune	Common Haircap	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Rhytidiadelphus squarrosus	Springy Turf-moss	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum capillifolium	Red Bog-moss	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum fimbriatum	Sphagnum fimbriatum	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum magellanicum	Magellanic Bog-moss	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum palustre	Sphagnum palustre	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum papillosum	Papillose Bog-moss	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Sphagnum tenellum	Sphagnum tenellum	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Buteo buteo	Buzzard	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Adult	Count	Abundance
NY17	Carduelis spinus	Siskin	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Certhia familiaris	Treecreeper	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Columba palumbus	Woodpigeon	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Erithacus rubecula	Redbreast	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Fringilla coelebs	Chaffinch	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Parus ater	Coal Tit	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Parus caeruleus	Blue Tit	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Parus major	Great Tit	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Parus montanus	Willow Tit	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Regulus regulus	Goldcrest	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Troglodytes troglodytes	Wren	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None	1	Individuals	Count	Abundance
NY17	Picromerus bidens	Picromerus bidens	14/09/1999	Kelhead Flow LWS	NY140700	Estimated from Map	Local Wildlife Sites	Jim McCleary		Taxon	None				
NY17	Vanessa	Red Admiral	14/09/1999	Kelhead Flow	NY140700	Estimated	Local	Jim		Taxon	None				

[illegible]

							Survey of Dumfries and Galloway		and other farm buildings.							
NY17	Selenia dentaria	Early Thorn	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Euthrix potatoria	Drinker	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Epinotia brunnichana	Epinotia brunnichana	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Eulithis populata	Northern Spinach	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	6	Adult		Count	Abundance
NY17	Hylaea fasciaria	Barred Red	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	5	Adult		Count	Abundance
NY17	Hydriomena furcata	July Highflyer	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	3	Adult		Count	Abundance
NY17	Apotomis betuletana	Apotomis betuletana	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Tinea semifulvella	Tinea semifulvella	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Mesapamea secalis	Common Rustic	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Udea lutealis	Udea lutealis	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Xanthorhoe ferrugata	Dark-barred Twin-spot Carpet	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Noctua fimbriata	Broad-bordered Yellow Underwing	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance
NY17	Idaea biselata	Small Fan-footed Wave	05/08/2005	Kelhead Moss Plantation	NY140700	Estimated from Map	Lepidoptera records (KN)	Richard Mearns, Keith Naylor		Taxon	trapped at actinic light	1	Adult		Count	Abundance

Kelhead Flow Compartment Map 1999



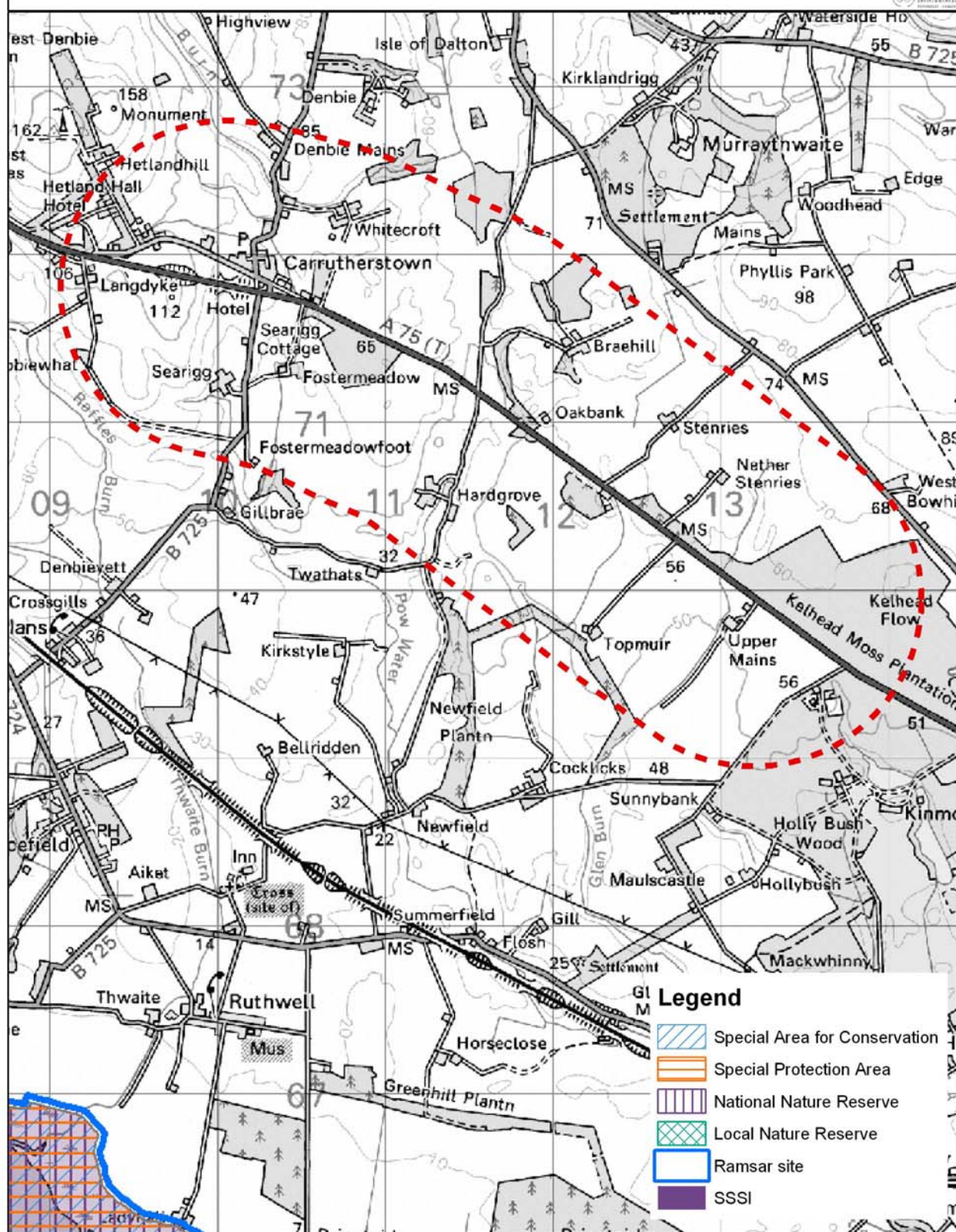
Survey Details

Survey Name	Owner/supplier/curator	Description	Further information
Casual Records	DGERC	Casual records sent in by local recorders to the DGERC. Ownership of individual records rests with observer. Where possible records of rare or important species are confirmed with the recorder.	Dumfries and Galloway Environmental Resources Centre
Dragonfly Recording Network	Dragonfly Recording Network	Dragonfly and damselfly records collected and collated by the Dragonfly Recording Network (DRN), a part of the British Dragonfly Society, for the period 1807-2005. This dataset incorporates the previous DRN and BRC dragonfly datasets on the Gateway. The records include observations on all species, dragonflies and damselflies records, made by volunteers and submitted to the Dragonfly Recording Network. The records includes breeding and abundance information. The records include observations on all species, dragonflies and damselflies records, made by volunteers and submitted to the Dragonfly Recording Network. The records includes breeding and abundance information. Records that lie well outside currently known distributions and would indicate significant changes of range have been validated to ensure their validity. Validation of all other records relies on the efforts of vice-county and regional recorders prior to their submission to the Dragonfly Recording Network. They have not been further validated during their collation.	http://www.searchnbn.net/datasetInfo/taxonDataset.jsp?refID=7&orgKey=6&dsType=T&dsKey=GA000012&grpType=2&
Lepidoptera records (KN)	Keith Naylor	Moth and butterfly records from Keith Naylor. Records from moth trapping and casual observations. Difficult to identify specimens have been determined by National Museum of Scotland.	Dumfries and Galloway Environmental Resources Centre
Local Wildlife Sites	DGERC	Local Wildlife Sites (or Local Biodiversity Sites) are identified to recognise places of local biodiversity importance outside statutory designated areas. Each candidate site is professionally surveyed and assessed by a team of local experts against agreed criteria. Sites meeting or exceeding an agreed standard are classified as Local Wildlife Sites. Sites may also be assessed based on existing information for particular key species. This dataset includes the records from these surveys, each of which was carried out by a professional ecological surveyor. Surveys were carried out predominantly from 1998 onwards.	Dumfries and Galloway Environmental Resources Centre
Mammal Record Sheets	DGERC	Casual mammal records sent in by local recorders to the DGERC. Ownership of individual records rests with observer. Most observers submitting records have been trained in mammal identification as part of Dumfries and Galloway Council/DGERC 'Mammal Guardians' project.	Dumfries and Galloway Environmental Resources Centre
NNW Swallow and House Martin Survey of Dumfries and Galloway	DGERC	Records collected as part of a public participation survey conducted as part of the Neighbourhood Nature Watch project in summer 2006. Public asked to record sightings of Swallows and House Martins, and to distinguish between casual sightings and nesting birds. Occasional records of Sand Martin and Swift also recorded.	Dumfries and Galloway Environmental Resources Centre
Red and Grey Squirrel Records (RSSS/Red Alert)	Red Squirrels in South Scotland	Sightings of Red and Grey Squirrels reported to the Red Alert/Red Squirrels in South Scotland projects. Includes road casualties. Records from early 1990s onwards. Not all records of Grey Squirrel are confirmed sightings.	Anne-Marie McMaster, Red Squirrel Officer http://www.red-squirrels.org.uk

Designated and Non-designated sites

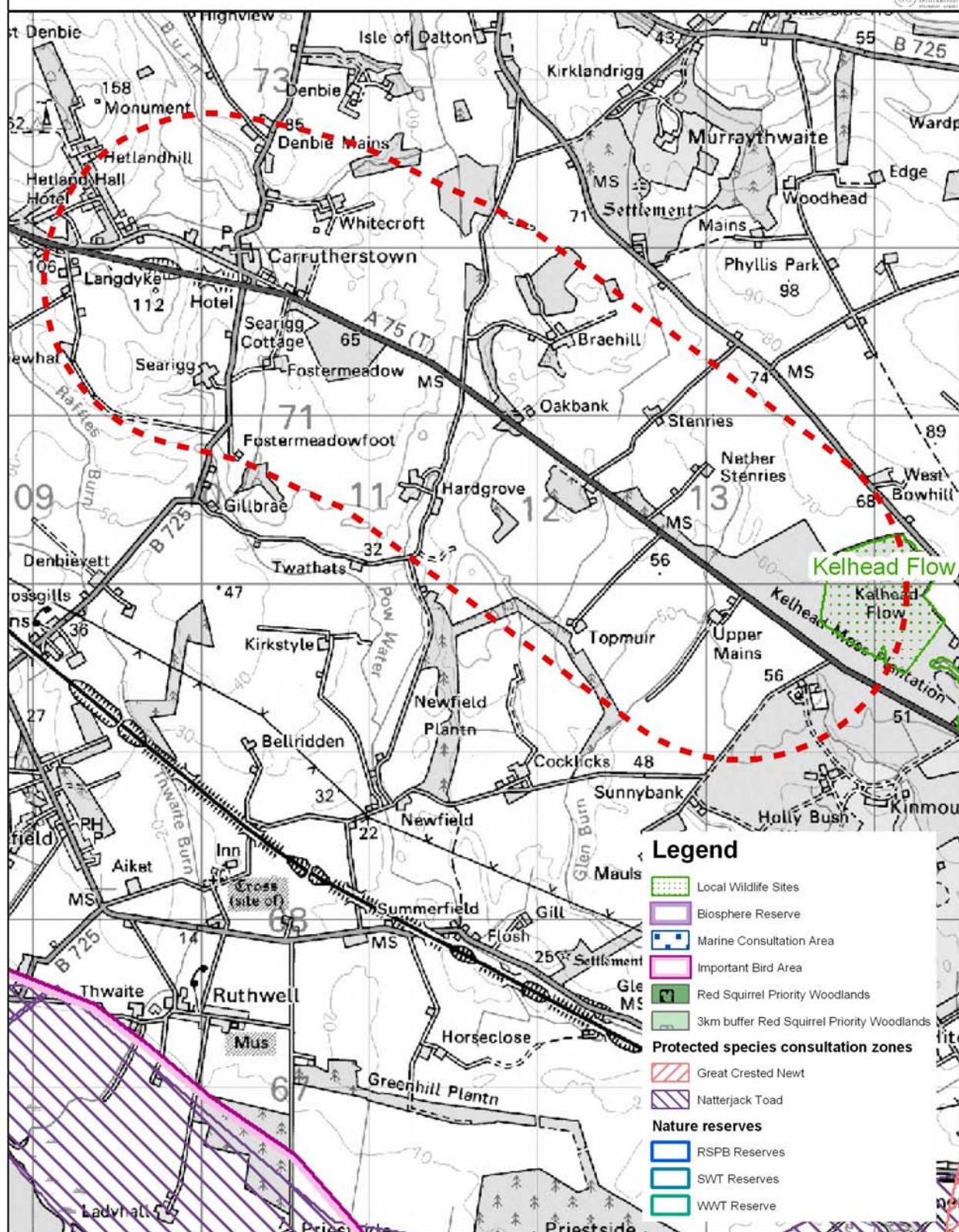
	Present in study area	Map	Additional information provided	Contact for further information
Statutory Sites		Designated areas.jpg		
Special Protection Area	No			Scottish Natural Heritage
Special Area of Conservation	No			Scottish Natural Heritage
Site of Special Scientific Interest	No			Scottish Natural Heritage
National Nature Reserve	No			Scottish Natural Heritage
Local Nature Reserve	No			Scottish Natural Heritage
Ramsar sites	No			Scottish Natural Heritage
Non-statutory sites		Non-statutory sites.jpg		
Biosphere Reserves	No			Scottish Natural Heritage
Marine Consultation Areas	No			Scottish Natural Heritage Dumfries and Galloway Environmental Resources Centre
Local Wildlife Sites	Yes			Anne-Marie McMaster, Red Squirrel Officer www.red-squirrels.org.uk
Red Squirrel Priority Woodlands	No			SNH Dumfries Office
Protected Species Consultation Zones	No			RSPB www.rspb.org.uk
RSPB Important Bird Area	No	No		RSPB/Wildfowl & Wetlands Trust/Scottish Wildlife Trust
Nature reserves	No			
Key habitats		Habitats.jpg		
Ancient woodland	Yes			Scottish Natural Heritage
Semi-natural ancient woodland	Yes			Scottish Natural Heritage
Raised bog	Yes			Scottish Natural Heritage
Intermediate bog	No			Scottish Natural Heritage

Designated Areas



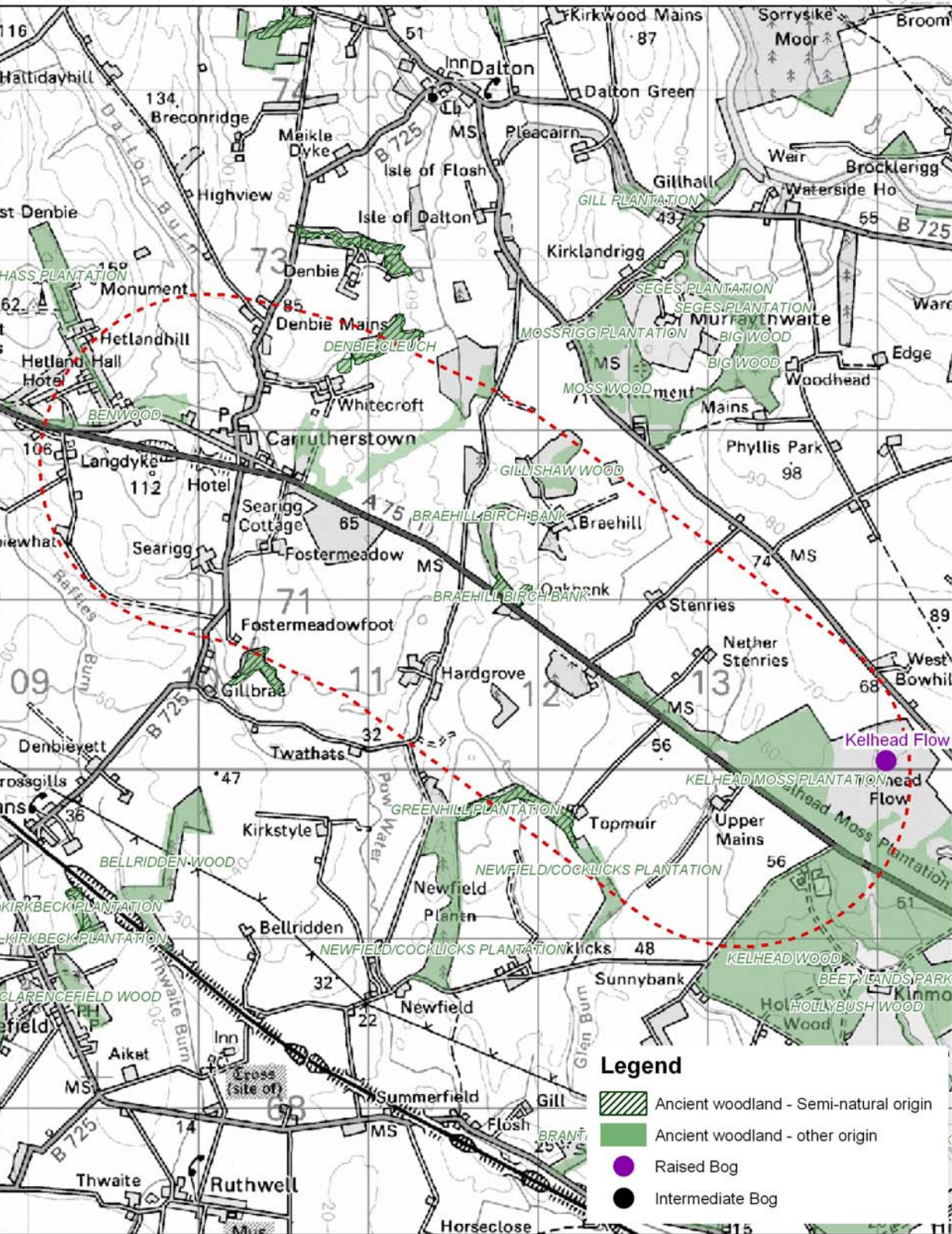
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Non-statutory sites, designations and consultation zones



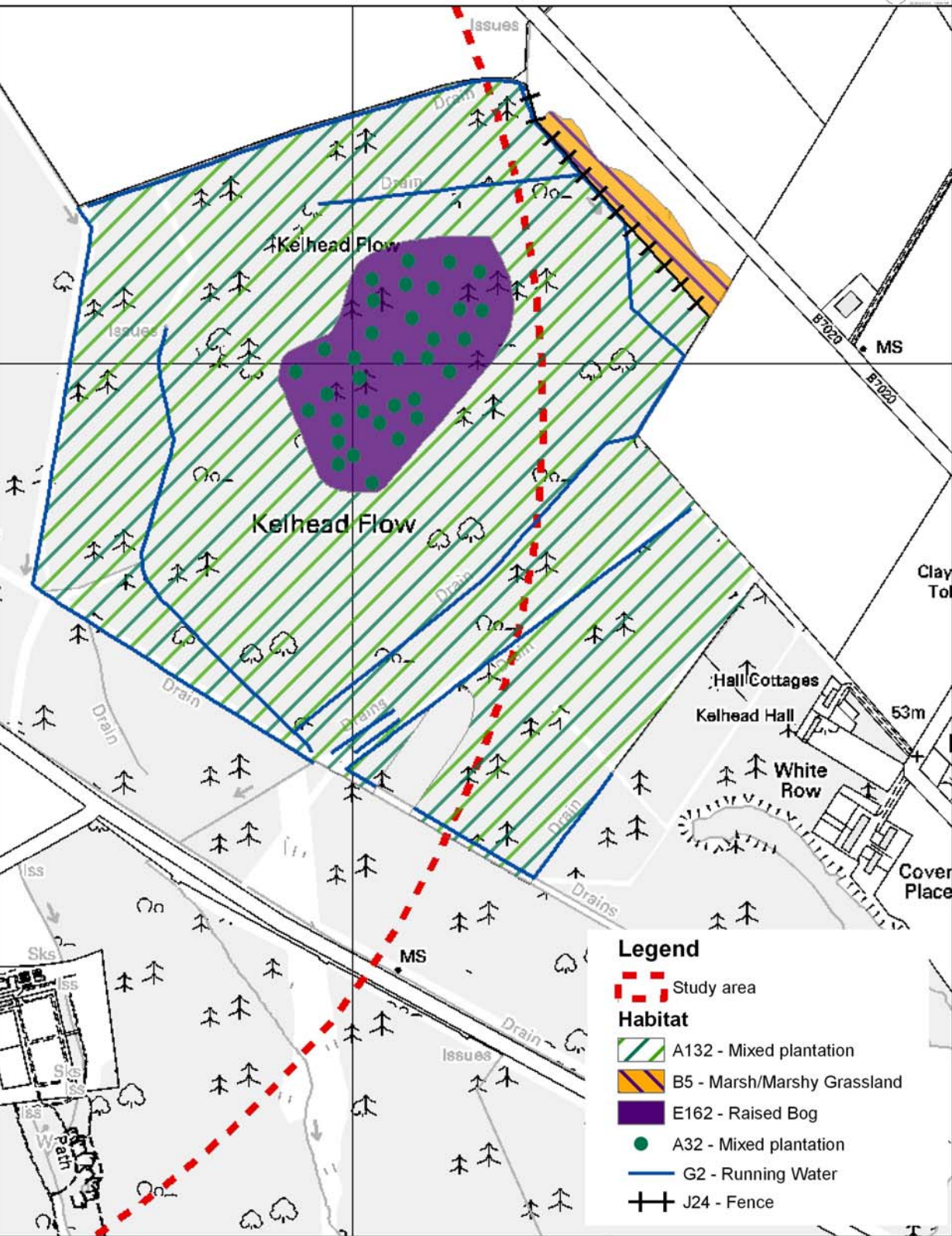
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Biosphere Reserves/Marine Consultation Area/Protected species consultation zones
Red Squirrel Priority Woodlands ©Red Squirrels in South Scotland

Habitat Information



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(SNH Ancient Woodland Inventory v3/SNH Bog Inventory ©SNH all rights reserved)

Kelhead Flow Phase 1 Habitat Map 1999



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Full Name	Acronym	Description
Protected Areas		
Site of Special Scientific Interest	SSSI	SSSIs are key areas of nature conservation and wildlife importance. In the coastal context they can include dunes, cliffs and intertidal foreshore as far as the mean low water spring mark. SSSIs are designated by Scottish Natural Heritage (SNH) under the Nature Conservation (Scotland) Act (formerly under the provision of the Wildlife and Countryside Act 1981). SSSI status does not change the use of the land but local authorities, owners and occupiers must consult with SNH on any developments or activities which may affect the site. Citations are available for each site stating the features of interest for which the site was designated.
National Nature Reserve	NNR	NNRs are areas of national importance for nature conservation and include some of the most important natural and semi-natural habitats in Great Britain. NNRs are designated by Scottish Natural Heritage (SNH) under the National Parks and Access to the Countryside Act 1949 and the Wildlife and Countryside Act 1981. All NNRs are SSSIs and the land is either owned by SNH or managed under agreement between SNH and the owner specifically for nature conservation.
Local Nature Reserve	LNR	LNRs can be declared by local authorities in conjunction with Scottish Natural Heritage (SNH) to reflect areas of local nature conservation importance or amenity and to give access to the public. A management agreement, often in the form of a management plan, is usually required and bylaws may be introduced to regulate the use of the LNR. The legislative basis is the Wildlife and Countryside Act 1981 (as amended by the Local Government and Planning (Scotland) Act 1982).
Special Protection Area	SPA	SPAs are classified under EC Directive 79/409/EEC on the Conservation of Wild Birds (the Birds Directive). The Directive requires the Member States of the European Community to identify and classify the most suitable territories, in size and number, for certain rare or vulnerable species (listed in Annex I of the Directive) and for regularly occurring migratory species. SPAs are intended to safeguard the habitats of the species for which they are selected and to protect the birds from significant disturbance. SPAs together with Special Areas of Conservation form the Natura 2000 network of sites.
Special Area of Conservation	SAC	SACs are designated under EC Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (the Habitats Directive). Candidate sites are identified to the European Commission and agreed at biogeographic region level as qualifying for designation. Almost all terrestrial candidate SACs are SSSIs. Together with SPAs, SACs will form a network of European sites to be known as Natura 2000.
Ramsar Site		Ramsar Sites are wetlands of international importance particularly those containing large numbers of waterfowl. They include estuaries, open water and intertidal marine areas. They are listed under "The Convention on Wetlands of International Importance especially as Waterfowl Habitat 1971", known as the Ramsar Convention, which was ratified by UK Government in 1976. All Ramsar Sites in Scotland are SSSIs and nearly all are SPAs under the EC Directive on the Conservation of Wild Birds 1979.
Non-statutory Sites		
Biosphere Reserve		Biosphere Reserves are representative examples of natural habitats which characterise one of the world's natural regions. They are used for long term research of ecosystems, environmental change and diversity of species. There is no statutory requirement for Biosphere Reserves. The Biosphere Programme was set up in 1971 by United Nations Educational, Scientific and Cultural Organisation (UNESCO) to co-ordinate understanding of man's influence on the natural environment.
Local Wildlife Sites	LWS	Local Wildlife Sites (or Local Biodiversity Sites) are identified to recognise places of local biodiversity importance outside statutory designated areas. Each candidate site is surveyed and assessed by a team of local experts against agreed criteria. Sites meeting or exceeding an agreed standard are classified as Local Wildlife Sites. This dataset includes the records from these surveys, each of which was carried out by a professional ecological surveyor. Surveys were carried out predominantly from 1998 onwards.
National Scenic Area	NSA	NSAs are nationally important areas of outstanding natural beauty which were identified in the report "Scotland's Scenic Heritage" and introduced by the Government in a Scottish Office Development Department Circular in 1980 (amended by Circular 9/1987). Policies for protecting NSAs are set out in development plans; there are no separate management plans.
Red Squirrel Priority Woodlands		Woodlands that have been identified using the Reynold and Bentley selection criteria as priority woodland for Red Squirrel conservation. A 3km buffer
SNH Protected Species Consultation Zones		The zones illustrate the known distribution of Great crested Newt and Natterjack toad both of which are European Protected Species (EPS) under The Conservation (Natural Habitats, &c.) Regulations 1994, "The Habitats Regulations". These zones are based on a 2 km radius of known breeding sites for these species and are taken from survey data held by Scottish Natural Heritage (SNH). It is essential that planning permission is not granted without the planning authority having satisfied itself that the proposed development either will not impact adversely on any European protected species on the site or that, all three tests necessary for the eventual grant of a Regulation 44 license are likely to be satisfied. Further advice should be sought from SNH with regards development proposals within or close to these areas.
Semi-natural Ancient Woodland/Ancient Woodland		In response to a 1980 select committee which recommended that ancient woods should be recognised and treated as a separate category, the NCCs compiled the Inventories of Ancient, Long-established and Semi-natural woodlands. A more sophisticated classification was developed for woodlands in Scotland due to the nature of the available historical sources. IMPORTANT. For Scottish woods, the category Ancient' comprises woods recorded as being of semi-natural origin on EITHER the 1750 Roy maps OR the 1st Edition Ordnance Survey maps of 1860. This is due a) to the likelihood of the latter having been omitted from the Roy maps and b) to render the Scottish classification compatible with that for England and Wales.

Important Bird Areas	IBA	IBAs have been identified and published in <i>Important Bird Areas in Europe: priority sites for conservation</i> , sponsored by RSPB. These sites are selected because of the bird numbers and species complements they hold. IBAs are particularly important for species that congregate in large numbers, such as wintering and passage waterbirds and breeding seabirds. Many sites have also been identified for species of global and European/EU conservation concern.
Marine Consultation Area	MCA	MCAs are non-statutory designations introduced in 1986 and represent areas where Scottish Natural Heritage (SNH) wish to be consulted on developments which are likely to have an impact on the marine environment.
Private Reserves		
Royal Society for the Protection of Birds Reserve		RSPB Reserves are owned or leased by RSPB to protect and manage the habitats of important species of birds. They provide public access and promote conservation. There is no statutory requirement for these reserves but they are often SSSIs and RSPB usually prepares management plans for the sites.
Scottish Wildlife Trust Reserve		SWT Reserves are owned or managed by SWT to protect locally important plants, animals and other wildlife. They provide public access and encourage the involvement of landowners. There is no statutory requirement for these reserves. SWT usually prepares management plans for the sites.
Wildfowl & Wetlands Trust		WWT reserves are owned or leased by WWT and manage to conserve wetland habitats and their dependent wildlife, particularly wildfowl. There is no statutory requirement or protection for these reserves, although many include areas protected by other designations (e.g.SSSIs).