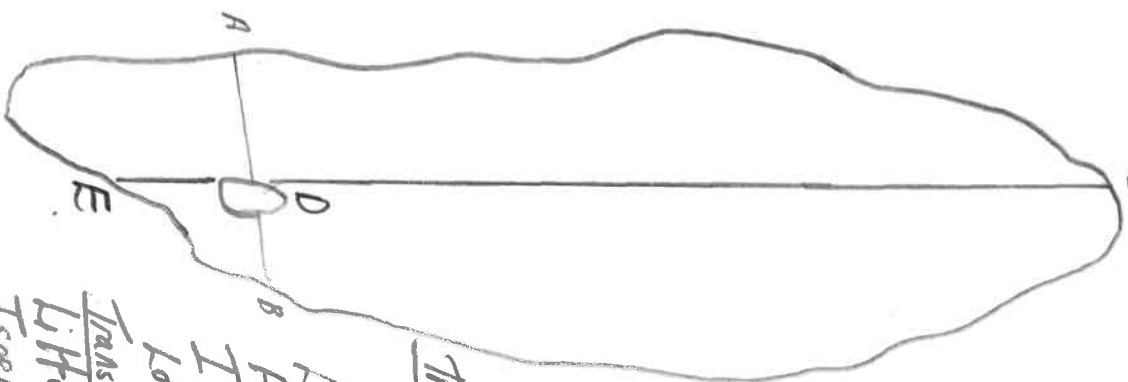


LOCH OF GIRLSTA

NAME OF SITE		FULL GRID REF.		RECORDER'S NAME		DATE OF VISIT TO SITE		RECORD NUMBER
								(leave blank)
ADULT DRAGONFLIES (ODONATA)		H U 4 3 3 5 2 0		C NEWBOLD		26 | 7 | 86		884
BIRDS		FISH		OTHER INFORMATION				
Playgenemis pennipes Ceratagion tenellum Erythronna najas Coezagion armatum hastulatum mercuriale puella pulchellum scutellum Enallagma cyathigerum Pyrrhosoma nymphula Ischnura elegans pumilio Leses dryas sponsa Agrion splendens virgo Gomphus vulgarissimus Brachytron pratense Aeshna caerulea cyanea grandis isoscetes juncea mixta Anax imperator Cordulegaster boltonii Cordulia aenea Somatochlora arctica metallica Oxygaster curtisii Orthetrum cancellatum coerulescens Libellula depressa fulva quadrimaculata flavescens fonscolombei nigrescens sanguineum scutellum striolatum vulgatum Leucorrhinia dubia	Red-throated Diver Great Crested Grebe Little Grebe Teal Garganey Gadwall Wigeon Pintail Shoveler Tufted Duck Goldeneye Common Scoter Red-breasted Merganser Goosander Greylag Goose Pink-footed Goose Canada Goose Mute Swan Water Rail Coot Black-headed Gull Common Tern Kingfisher Dipper Bearded Tit Reed Warbler Grey Wagtail Other Species:	Bardel Bleak Bream—Common Silver Bullhead Burbot Carp—Common Crucian Chub Charr Dace Poached Grayling Gudgeon Lamprey—Brook —River —Sea Loach—Spined —Stone Rudd Ruffe (Pope) Salmon Stickleback—9/10-spined —3-spined Tench Other species:	Conductivity: 150µmhos pH 7.2.					
MAMMALS		AMPHIBIA						
Otter Mink Coyote Water shrew Water vole Other species:	Great Crested Newt (Triturus cristatus) Smooth Newt (Triturus vulgaris) Palmate Newt (Triturus helveticus) Common Toad (Bufo bufo) Natterjack Toad (Bufo calamita) Common Frog (Rana temporaria) Edible Frog (Rana esculenta) Marsh Frog (Rana ridibunda) Other species:							



Site no: HU4528
Survey no: 1448

Transect AB (1)

Myriophyllum alterniflorum

Littorella uniflora

Fragaria vesicaria

Isaetes lacustris

Labelia dortmanna

Transect CD (2)

Littorella uniflora (by early)

Isaetes lacustris

Nitella opaca (agg)

SUBMERGED, FLOATING AND EMERGENT PLANTS

OTHER WETLAND AND RIPARIAN PLANTS

<i>Acorus calamus</i> <i>Agrostis stolonifera</i> <i>Alisma gramineum</i> <i>lancoletum</i> <i>plantago-aquatica</i> <i>Apium inundatum</i> <i>nodiflorum</i> <i>Aponegetum disachyos</i> <i>Azolla filiculoides</i> <i>Baldellia ranunculoides</i> <i>Berula erecta</i> <i>Butomus umbellatus</i> <i>Callitriche brutia</i> <i>copocarpa</i> <i>hamulata</i> <i>hemaphrodica</i> <i>obusangula</i> <i>platycarpa</i> <i>stagnalis</i> <i>truncata</i> <i>sp. (undetermined)</i> <i>Caltha palustris</i> <i>Cardamine amara</i> <i>Carex acuta</i> <i>acutiformis</i> <i>aquarilis</i> <i>elata</i> <i>lasiocarpa</i> <i>limosa</i> <i>nigra</i> <i>paniculata</i> <i>pseudocyperus</i> <i>riparia</i> <i>rostrata</i> <i>vesticaria</i> <i>Caabrosa aquatica</i> <i>Ceratophyllum demersum</i> <i>submersum</i> <i>Cicuta virosa</i> <i>Cladium mariscus</i> <i>Corrigiola litoralis</i> <i>Danthonium alisma</i> <i>Drosera rotundiflora</i> <i>Egeria densa</i> <i>Elatine hexandra</i> <i>hydrophyter</i> <i>Eleocharis acicularis</i> <i>palustris</i> <i>Elodea canadensis</i> <i>ernstiae</i> <i>nuttallii</i> <i>Equisetum fluviatile</i> <i>palustre</i> <i>Eriocaulon aquaticum</i> <i>Eriophorum angustifolium</i> <i>Glyceria declinata</i> <i>fluitans</i> <i>maxima</i> <i>plicata</i> <i>Groenlandia densa</i> <i>Hippuris vulgaris</i> <i>Horitonia palustris</i> <i>Hydrocharis morsus-ranae</i> <i>Hydrocotyle vulgaris</i> <i>Iris pseudacorus</i> <i>versicolor</i> <i>Juncus setacea</i> <i>lucens</i> <i>lunatus</i> <i>alpinus</i> <i>butomus</i> <i>effusus</i>	<i>Lagarosiphon major</i> <i>Lemna gibba</i> <i>minor</i> <i>Tristelia</i> <i>Limosella aquatica</i> <i>australis</i> <i>Littorella maritima</i> <i>robusta</i> <i>Ludwigia palustris</i> <i>Luronium natans</i> <i>Lysimachia thyrsiflora</i> <i>Lythrum portula</i> <i>Mentha aquatica</i> <i>Menyanthes trifoliata</i> <i>Myosotis laxa</i> <i>scoroides</i> <i>secunda</i> <i>stolonifera</i> <i>Myosoton aquaticum</i> <i>Microphyllum alterniflorum</i> <i>heterophyllum</i> <i>specatum</i> <i>verticillatum</i> <i>Najas flexilis</i> <i>marina</i> <i>Nasutrium microphyllum</i> <i>officinale</i> <i>microphyllum/officinale</i> <i>Nuphar lutea</i> <i>pumila</i> <i>Nymphaea alba</i> <i>Nymphoides peltata</i> <i>Oenanthe aquatica</i> <i>fistulosa</i> <i>Phalaris arundinacea</i> <i>Pirragmites australis</i> <i>Philularia globulifera</i> <i>Polygonum amphibium</i> <i>hydrophyter</i> <i>Potamogeton acutifolius</i> <i>alpinus</i> <i>bercholdii</i> <i>coloratus</i> <i>compressus</i> <i>crispus</i> <i>epithyridus</i> <i>filiformis</i> <i>fresii</i> <i>gramineus</i> <i>lucens</i> <i>natans</i> <i>nodosus</i> <i>obtusifolius</i> <i>perchinatus</i> <i>perfoliatus</i> <i>polygonifolius</i> <i>praedongus</i> <i>pustilus</i> <i>rufulus</i> <i>trichoides</i> <i>hybrids</i> <i>Potentilla palustris</i> <i>aquaticus</i> <i>baudouiti</i> <i>Ranunculus aquatilis</i> <i>hederacicus</i> <i>omniphyllus</i> <i>petalis</i>	<i>Ranunculus pseudo-fluitans</i> <i>(penicillatus var. calcaricus)</i> <i>pseudofluitans</i> <i>(penicillatus var. penicillatus)</i> <i>sceleratus</i> <i>trichophyllus</i> <i>tripartitus</i> <i>Rorippa amphibia</i> <i>Rumex aquaticus</i> <i>hydrocephalum</i> <i>Ruppia cirrhosa</i> <i>maritima</i> <i>Sagittaria rigida</i> <i>sagittifolia</i> <i>Scheuchzeria palustris</i> <i>Scirpus fluitans</i> <i>lacustris ssp. lacustris</i> <i>lacustris ssp. tabernaemontani</i> <i>maritimus</i> <i>Sparganium angustifolium</i> <i>emersum</i> <i>erectum</i> <i>minimum</i> <i>Spirodela polyrrhiza</i> <i>Stratiotes aloides</i> <i>Subularia aquatica</i> <i>Typha angustifolia</i> <i>latifolia</i> <i>Utricularia australis</i> <i>intermedia</i> <i>minor</i> <i>vulgaris</i> <i>australis/vulgaris</i> <i>Valisneria spiralis</i> <i>Veronica angustis-aquatica</i> <i>beccabunga</i> <i>catenata</i> <i>scutellata</i> <i>Wolffia arrhiza</i> <i>Zanichellia palustris</i>	<i>Ailae</i> Charophyta <i>Entromompha</i> Other large free floating or attached species <i>Bryophytes</i> Amblystegium (Leptodictyum) riparium <i>Calliergon</i> (Acrocladium) sp. <i>Drepanocladus</i> sp. <i>Fontinalis antipyretica</i> <i>Hydrohypnum</i> sp. <i>squamosa</i> <i>Rhynchostegium</i> (Eurhynchium) riparioides <i>Riccia fluitans</i> <i>Ricciocaropus natans</i> <i>Scapania</i> sp. <i>Sphagnum</i> sp. <i>Lichens</i> Submerged species	<i>Achillea ptarmica</i> <i>Aconitum napellus</i> <i>Alnus glutinosa</i> <i>Allium schoenoprasum</i> <i>Allium aequalis</i> <i>geniculatus</i> <i>Anagallis tenella</i> <i>Andromeda polifolia</i> <i>Angelica archangelica</i> <i>syvestris</i> <i>Apium graveolens</i> <i>Amaroria rusticana</i> <i>Athyrium filix-femina</i> <i>Barbarea intermedia</i> <i>stricta</i> <i>vulgaris</i> <i>Bidens cernua</i> <i>tripartita</i> <i>Blysmus aempressus</i> <i>Brassica nigra</i> <i>Calamagrostis canescens</i> <i>epigejos</i> <i>scotica</i> <i>Carduus acanthoides</i> <i>stricta</i> <i>Cardamine flexuosa</i> <i>pratensis</i> <i>Carex appropinquata</i> <i>buxbaumii</i> <i>curta</i> <i>demissa</i> <i>diantra</i> <i>dioica</i> <i>disticha</i> <i>echinata</i> <i>flacca</i> <i>hostiana</i> <i>laevigata</i> <i>lepidocarpa</i> <i>ortubae</i> <i>panicula</i> <i>panicula</i> <i>pendula</i> <i>pulicaris</i> <i>spicata</i> <i>vulpina</i> <i>Chrysosplenium alternifolium</i> <i>oppositifolium</i> <i>Cirsium dissectum</i> <i>oleraceum</i> <i>palustre</i> <i>Conium maculatum</i> <i>Crepis mollis</i> <i>paludosa</i> <i>Cyperus fuscus</i> <i>longus</i> <i>Dactylorhiza fuchsii</i> <i>incarnata</i> <i>magalis ssp. praetermissa</i> <i>magalis ssp. purpurella</i> <i>transsylvanica</i> <i>Deschampsia caespitosa</i> <i>setacea</i> <i>Dipsacus fulvonum</i> <i>philosus</i> <i>Drosera anglica</i> <i>intermedia</i> <i>Dryopteris carthusiana</i> <i>crisata</i> <i>Eleocharis austriaca</i> <i>multicaulis</i> <i>quinqueflora</i>	<i>Eleocharis unguiculata</i> <i>Epilobium adnecatum</i> <i>alutifolium</i> <i>anagallidifolium</i> <i>hirsutum</i> <i>neretroides</i> <i>obscureum</i> <i>palustre</i> <i>parvifolium</i> <i>tetragonum</i> <i>Epipactis palustris</i> <i>arvensis</i> <i>Equisetum hyemale</i> <i>pratense</i> <i>variegatum</i> <i>Erica tetralix</i> <i>gracile</i> <i>latifolium</i> <i>vaginale</i> <i>Eupatorium cannabinum</i> <i>Fragaria ulmus</i> <i>Galium boreale</i> <i>debile</i> <i>palustre</i> <i>uliginosum</i> <i>Geum rivale</i> <i>Hammarbya paludosa</i> <i>Hieracium mantegazzianum</i> <i>Hieracium odorata</i> <i>Hypericum elodes</i> <i>tetrapetrum</i> <i>undulatum</i> <i>Impatiens capensis</i> <i>glandulifera</i> <i>noli-tangere</i> <i>Iris spuria</i> <i>articulatus</i> <i>articularis</i> <i>balticus</i> <i>bulbosus</i> <i>castaneus</i> <i>compressus</i> <i>conglomeratus</i> <i>filiformis</i> <i>intexus</i> <i>squarrosus</i> <i>subrotundus</i> <i>Lathyrus palustris</i> <i>Leersia oryzoides</i> <i>Leptodermis inundata</i> <i>Liparis loeselii</i> <i>Lotus uliginosus</i> <i>Lupinus nootkatensis</i> <i>Luzula sylvatica</i> <i>Lychnis floer-cuculi</i> <i>Lychnis europaeus</i> <i>Lysimachia nemorum</i> <i>nummularia</i> <i>vulgaris</i> <i>Lythrum hyssopifolia</i> <i>salicaria</i> <i>Mentha arvensis</i> <i>rotundifolia</i> <i>Mimulus guttatus</i> <i>lucens</i> <i>Minuartia stricta</i> <i>Molinia caerulea</i> <i>Montia fontana</i> <i>sibirica</i> <i>Myrica gale</i>	<i>Narthecium ossifragum</i> <i>Oenanthe crocata</i> <i>lactenarii</i> <i>OphioGLOSSUM vulgatum</i> <i>Osmunda regalis</i> <i>Oxyria digyna</i> <i>Parnassia palustris</i> <i>Pseudanemum ostruthium</i> <i>palustre</i> <i>Pedicularis sylvatica</i> <i>Petasites hybridus</i> <i>Pinguicula lusitanica</i> <i>vulgaris</i> <i>Plantago maritima</i> <i>Polygonum lapathifolium</i> <i>minus</i> <i>mitis</i> <i>Potentilla erecta</i> <i>repens</i> <i>Pulicaria dysenterica</i> <i>vulgaris</i> <i>Ranunculus lingua</i> <i>ophioglossus</i> <i>repans</i> <i>Rhynchospora alba</i> <i>fusca</i> <i>Rorippa islandica</i> <i>syvestris</i> <i>Rumex longifolius</i> <i>maritimus</i> <i>palustris</i> <i>Sagina procumbens</i> <i>Salix</i> sp. <i>Saxifraga valerandi</i> <i>Saxifraga aizoides</i> <i>stellaris</i> <i>Schoenus nigricans</i> <i>Scirpus cespitosus</i> <i>cernuus</i> <i>setaceus</i> <i>Scriophularia auriculata</i> <i>Scutellaria galericulata</i> <i>Selaginella selaginoides</i> <i>Selinum carvifolia</i> <i>Senecio aquaticus</i> <i>Solanum dulcamara</i> <i>Sonchus oleraceus</i> <i>palustris</i> <i>Stachys palustris</i> <i>Stellaria alpine</i> <i>neglecta</i> <i>memorum</i> <i>palustris</i> <i>Symphitum officinale</i> <i>Tenacium scordium</i> <i>Thalictrum flavum</i> <i>Thelypactis palustris</i> <i>Torifolia pusilla</i> <i>Trigonotis palustris</i> <i>Trifolium x crocosmiflorum</i> <i>Tussilago farfara</i> <i>Urtica dioica</i> <i>Vaccinium microcarpum</i> <i>oxyococcus</i> <i>Valeriana dioica</i> <i>officinalis</i> <i>Viola palustris</i>
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1997 LOCH INVENTORY: SHETLAND ISLANDS

Code HU4528 Name Loch of Girdra Grid Ref HU43523
 Date 2/9/97 Surveyors MB/OL Estate
 Area 96.10 ha Altitude 20 m Catchment ha Geology 24
 Water colour colourless Clarity clear Boat used ☒ Secchi disc depth 3.15 m
 Loch type 3 Edge type(s) (NVC codes)
 Status Loch of Girdra SSSI Access 1 Road/houses present (underline)
 Land use % Open water Semi-natural Forestry Agriculture

Substrate types (underline main type, tick others present)

Bedrock ☒
 Boulders (>30cm max. diam.) ☒
Stones (5-30cm diam.) ☒
 Gravel (4-50mm diam.) ☒
 Sand (0.1-4mm diam.) ☒
 Silt (<0.1mm diam.) ☒
 Organic mud
 Peat ☒
 Artificial embankment ☒

USES AND DAMAGE

Use

Observations

Adjacent forestry
 Agricultural pollution
 Edge trampling Site open to stock
 Fishing (edge/boat)
 Litter
 Shooting
 Water abstraction Water abstracted for fish-hatchery. Now more restricted

SURROUNDING LAND USE:

Sheep-grazed pasture. Small amount semi-improved.

FAUNA

Mammals

Birds

Reptiles
Amphibians

Fish

Dragonflies &
other invertebrates

SPECIES DIVERSITY

RARE SPECIES

WATER CHEMISTRY

Edge 14 Scarce (*) Alkalinity 0.12 meq/l
 Open water 13 Red Data Book (**) Conductivity 235 μ S/cm
 Total 23 p.H. 6.46

1997 SHETLAND ISLANDS LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code Hu4528 Site name Loch of Gielsta Grid ref Hu433523 Date 2/2/97

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR	Other edge species	
Ags	<u>Agrostis stolonifera</u>	<u>0/LF</u>	Cxd	<u>Carex viridula ssp. oedocarpa (=C. demissa)</u> <u>F</u>
Ber	<u>Berula erecta</u>	.....	Cxe	<u>Carex echinata</u> <u>0/LF</u>
Cas	<u>Callitriche stagnalis</u>	<u>0/LA</u>	Cxp	<u>Carex panicea</u> <u>F/LA</u>
Cap	<u>Caltha palustris</u>	<u>0</u>	Cxpa	<u>Carex paniculata</u>
Cxa	<u>Carex aquatilis</u>	.....	Gp	<u>Galium palustre</u> <u>0</u>
Cxli	<u>Carex limosa</u>	.....	Sa	<u>Senecio aquaticus</u>
Cxn	<u>Carex nigra</u>	<u>F/LA</u>	Tp	<u>Triglochin palustre</u>
Cxro	<u>Carex rostrata</u>	.....	Vp	<u>Viola palustris</u> <u>0/LF</u>
Ca	<u>Catabrosa aquatica</u>	.....		
Des*	<u>Deschampsia setacea</u>	.....		
Elac	<u>Eleocharis acicularis</u>	.....		
Elm	<u>Eleocharis multicaulis</u>	.....		
Elp	<u>Eleocharis palustris</u>	<u>R</u>		
Elq	<u>Eleocharis quinqueflora</u>	.....		
Elu	<u>Eleocharis uniglumis</u>	.....		
Eqf	<u>Equisetum fluviatile</u>	.....		
Eqp	<u>Equisetum palustre</u>	.....		
Eqxl	<u>Equisetum x litorale</u>	.....		
Era	<u>Eriophorum angustifolium</u>	<u>LA</u>		
Gld	<u>Glyceria declinata</u>	.....		
Glf	<u>Glyceria fluitans</u>	.....		
Hip	<u>Hippuris vulgaris</u>	.....		
Hyd	<u>Hydrocotyle vulgaris</u>	<u>F/LA</u>		
Ip	<u>Iris pseudacorus</u>	.....		
Jac	<u>Juncus acutiflorus</u>	.....		
Ja	<u>Juncus articulatus</u>	<u>F/LA</u>		
Jb	<u>Juncus bulbosus</u>	<u>F</u>		
Jc	<u>Juncus conglomeratus</u>	.....		
Je	<u>Juncus effusus</u>	<u>F</u>		
Lit	<u>Littorella uniflora</u>	<u>F/LA</u>		
Ma	<u>Mentha aquatica</u>	.....		
Mt	<u>Menyanthes trifoliata</u>	.....		
Mg	<u>Mimulus guttatus</u>	.....		
Mi	<u>Mimulus sp.</u>	.....		
Mon	<u>Montia fontana</u>	<u>0/LF</u>		
Myl	<u>Myosotis laxa</u>	.....		
Msc	<u>Myosotis scorpioides</u>	.....		
Msec	<u>Myosotis secunda</u>	.....		
Pam	<u>Persicaria amphibia</u>	.....		
Pha	<u>Phalaris arundinacea</u>	.....		
Phr	<u>Phragmites australis</u>	.....		
Pop	<u>Potentilla palustris</u>	.....		
Rfl	<u>Ranunculus flammula</u>	<u>F/LA</u>		
Rh	<u>Ranunculus hederaceus</u>	.....		
Roi	<u>Rorippa islandica</u>	.....		
Rm	<u>Rorippa microphylla</u>	.....		
Rna	<u>Rorippa nasturtium-aquaticum</u>	.....		
Rxs	<u>Rorippa x sterilis</u>	.....		
Sl	<u>Schoenoplectus lacustris</u>	.....		
Sper	<u>Sparganium erectum</u>	.....		
Vaa	<u>Veronica anagallis-aquatica</u>	.....		
Vb	<u>Veronica beccabunga</u>	.....		
Vxl	<u>Veronica x lackschewitzii</u>	.....		
Vs	<u>Veronica scutellata</u>	<u>R/LA</u>		

SPECIES TOTAL

14

Note: * = Scarce plants (occurring in 16-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency North Region.

1997 SHETLAND ISLANDS LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code Hu4528 Site name Loch of Girdsta Grid ref Hu43523 Date 2/9/97

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR
Api	<i>Apium inundatum</i>	.....
Cah	<i>Callitriche hamulata</i>	.....
Cher	<i>Callitriche hermaphrodita</i>	Wash up
Cpla	<i>Callitriche platycarpa</i>	.....
Cas	<i>Callitriche stagnalis</i>	0
Ca	<i>Callitriche</i> sp.	.....
Ela	<i>Elatine hexandra</i>	.....
Ef	<i>Eleogiton fluitans</i>	.....
Fon	<i>Fontinalis antipyretica</i>	F
Hip	<i>Hippuris vulgaris</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	0/LA
Ise*	<i>Isoetes echinospora</i>	.....
Isl	<i>Isoetes lacustris</i>	.....
Jb	<i>Juncus bulbosus</i>	F
Lm	<i>Lemna minor</i>	.....
Lit	<i>Littorella uniflora</i>	F/LA
Lob	<i>Lobelia dortmanna</i>	.....
Mal	<i>Myriophyllum alterniflorum</i>	R
Msp	<i>Myriophyllum spicatum</i>	.....
Na	<i>Nymphaea alba</i>	.....
Pam	<i>Persicaria amphibia</i>	.....
Pal	<i>Potamogeton alpinus</i>	.....
Pbe	<i>Potamogeton berchtoldii</i>	R
Pfil*	<i>Potamogeton filiformis</i>	.....
Pfr	<i>Potamogeton friesii</i>	.....
Pxg	<i>Potamogeton x gessnacsensis</i>	.....
Pgr	<i>Potamogeton gramineus</i>	.....
Pn	<i>Potamogeton natans</i>	R/LA
Pxn	<i>Potamogeton x nitens</i>	.....
Ppec	<i>Potamogeton pectinatus</i>	.....
Pper	<i>Potamogeton perfoliatus</i>	.....
Ppol	<i>Potamogeton polygonifolius</i>	0/LF
Ppra	<i>Potamogeton praelongus</i>	.....
Ppu	<i>Potamogeton pusillus</i>	.....
Pr**	<i>Potamogeton rutilus</i>	.....
Pxz	<i>Potamogeton x zizii</i>	.....
Rb	<i>Ranunculus baudotii</i>	.....
Rtr	<i>Ranunculus trichophyllus</i>	.....
Ruc*	<i>Ruppia maritima</i>	.....
Rum	<i>Ruppia cirrhosa</i>	.....
Spa	<i>Sparganium angustifolium</i>	R/LF
Spn	<i>Sparganium natans</i>	.....
Sp	<i>Sparganium</i> sp.	.....
Sub	<i>Subularia aquatica</i>	.....
Uti	<i>Utricularia intermedia</i>	.....
Um	<i>Utricularia minor</i>	.....
Uo	<i>Utricularia ochroleuca</i>	.....
Us	<i>Utricularia stygia</i>	.....
Uva	<i>Utricularia vulgaris/australis</i> agg.	.....
Ut	<i>Utricularia</i> sp.	.....
Zan	<i>Zannichellia palustris</i>	.....

Map code	Species	DAFOR
Chavi	<i>Chara</i> sp. <u>virgata</u>	R
Nitflagg	<i>Nitella</i> sp. <u>flexilis</u> agg. <u>sterile</u>	R/LF
		
		
		
	SPECIES TOTAL	13
	Other species not included in total:	
Sphag	<i>Sphagnum</i> sp.	.....
	<u>Filamentous algae</u>	LF

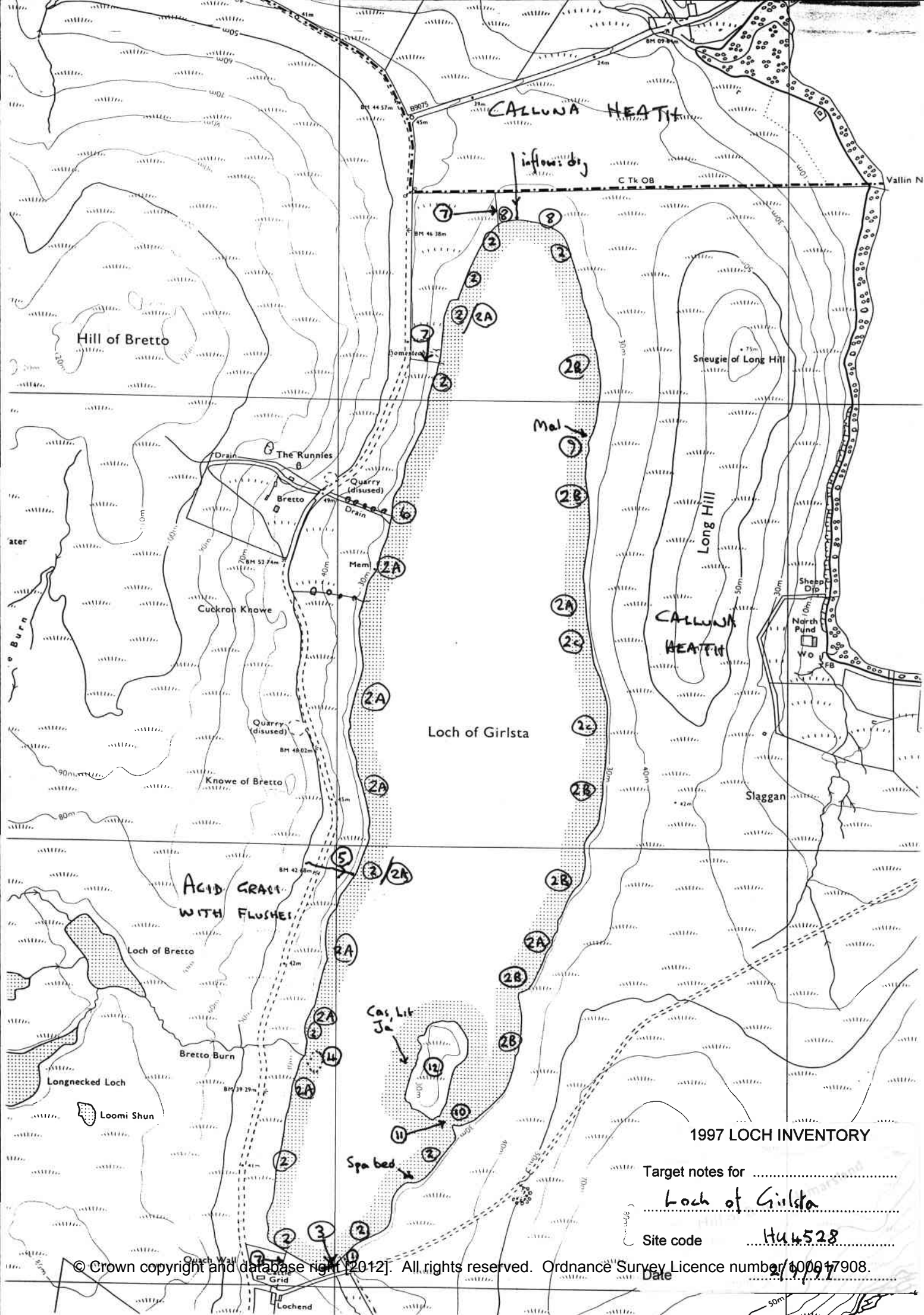
Potamogeton identification
verified by C. D. Preston

Charophyte identification
verified by N.F. Stewart

Specimens:	
<i>Chara</i> sp.	<u>C. virgata</u> 192/97
<i>Nitella</i> sp.	<u>N. flexilis</u> agg. <u>sterile</u> 193/97
<i>Potamogeton</i> sp.	<u>Pbe</u> 316/97
<i>Utricularia</i> sp.	

Note: * = Scarce plants (occurring in 16-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency North Region.

** = Red Data Book Species (occurring in ≥15 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency North Region.



Adjacent land: sheep-grazed pasture, mostly Calluna heath to north and east. The northern part of the western shore has a mosaic of acid grass and Calluna heath. Most of the land adjacent to the western shore is acid grassland with some patches of mire (Eri + Tric over Sphagnum). There are frequent flushed areas just above the shoreline here with Ja, Hyd + small sedges. In the south there are some small fields which are semi-improved.

The aquatic vegetation is confined to the shallow margins. It is fairly consistent throughout with abundant Lit, frequent Jb + Rfl, locally frequent Ja + Fon, and other species only occasional. Except for sheltered bay to east of island, see TN 10 below

The shoreline/drawdown-zone vegetation is also dominated by Lit, along with Ja + Rfl, which are frequent to abundant throughout. The small sedges Cxp, Cxd and Cxn are frequent and locally abundant, especially on the western shore where there is some flushing and the shoreline veg is more spp-rich. Fon is locally abundant along the waterline, while Hyd is frequent and locally abundant further back. The draw-down zone is quite wide in parts (water is abstracted for nearby fish hatchery)

- ① Track to boat-launching area, with 8 boats.
- ② Fairly wide draw-down zone (to c 10m) with stone + gravel substrate: Lit, Ags, Ja, Jb, Hyd, Rfl, Cxd, Cxp, Cxn, Potentilla anserina (local) (Vp), (Mon), (Car) ...
- Shallow water inshore: Jb, Lit, Rfl, Ja, Vs, Fon, Mal
- Deeper water offshore has no veg.
- ②A As ② but with narrower draw-down zone and narrower inshore vegetated zone. Draw-down zone with larger stones and more boulders.
- ②B As ② but draw-down zone less spp-rich: Ja, Rfl + Lit co-dom., Cxp (F), Cxd (F), Je (F at back of shore)
- ②C As ② but larger stones of substrate support much sparser veg.
- ③ Stone dam (c 1m) and sluice to outlet. Outflow: narrow stream over stones with Cap, Alpecurus gen., Ja..., dry at time of survey
- ④ 2m burn, fast flow over stones and boulders. Bed of Pn just offshore.
- ⑤ Narrow inflow (surface water from road?)
- ⑥ Fence/wall into loch. No definite inflow. Seepage inflow through flushes: Ping vulg, Ppol, small sedges, Hyd, Jb, Ja...
- ⑦ Fence + wall into loch.
- ⑧ Beach (gravel, sand, stones, boulders) with no veg. Inshore veg sparse: Jb (LF), Rfl (LF), Callitriche sp, (Ppol), Lit (LF) over stones and gravel.
- ⑨ Gravel/stone bar. Mal growing in lee.
- ⑩ Aquatic veg in sheltered bay: Jb, spa, Nit flex, (Chara), (Callitriche sp) (Pbe).
- ⑪ Sheep can gain access to island here across rocky "causeway"
- ⑫ Sheep-grazed island - Calluna heath. There is usually a wide draw-down zone, of mud and stones with scattered boulders which supports a dense, short-grazed sward of Lit, Hyd, Car, Rfl, Ja + bryophytes. Shallow water around the island has: Hyd, Lit, Car, Jb, Rfl, Ja + much filamentous algae.