

1997 LOCH INVENTORY: SOUTH EAST SCOTLAND*

Code NT2712 Name Duddingston Loch Grid Ref NT281724
 Date 10/6/97 Surveyors MB/OAL Estate
 Area 7.20 ha Altitude 40 m Catchment ha Geology 72/80
 Water colour COLOURLESS Clarity CLEAR Boat used YES Secchi disc depth 2 m
 Loch type 10 Edge type(s) S23 S4a, S12b, S5, S12a, S28a, S10a, S19a (NVC codes)
 Status SSSI (Duddingston Loch) 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.) ☒ Silt (<0.1mm diam.)
 Stones (5-30cm diam.) ☒ Organic mud
 Gravel (4-50mm diam.) Peat
 Sand (0.1-4mm diam.) Artificial embankment

USES AND DAMAGE
Observations

Use
 Adjacent forestry
 Agricultural pollution
 Edge trampling Some, by wild fowl.
 Fishing (edge/boat) edge
 Litter Small amount - washed up plastic bottles.
 Shooting
 Water abstraction

SURROUNDING LAND USE:

Nature Reserve,
Amenity grassland
Gardens
Swamp/Carr

FAUNA

Mammals Birds Greylag goose,
Mute Swan,
Coot, Mallard
G.C. Grebe, (RR)
Gulls (H+LBB)
Heron (BR)
 Reptiles Amphibians Fish 3-spined stickle back
 Dragonflies & other invertebrates Aeschna cyanea

SPECIES DIVERSITY

RARE SPECIES

WATER CHEMISTRY

Edge 23 Scarce (*) Alkalinity 2.42 meq/l
 Open water 14 Red Data Book (**) Conductivity 780 μ S/cm
 Total 36 p.H. 7.3

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

* Includes Angus, City of Edinburgh, Clackmannanshire, Dundee City, East Lothian, Falkirk, Fife, Midlothian, Perth & Kinross, Scottish Borders, Stirling and West Lothian unitary authorities.

1997 SOUTH EAST SCOTLAND LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code NT2212 Site name Duddingston Loch Grid ref NT281724 Date 10/6/97

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Ac	<i>Acorus calamus</i>		Ma	<i>Mentha aquatica</i>	F
Ags	<i>Agrostis stolonifera</i>	LF	Mt	<i>Menyanthes trifoliata</i>	
Al	<i>Alisma lanceolatum</i>		Mg	<i>Mimulus guttatus</i>	
Apa	<i>Alisma plantago-aquatica</i>	LF	MI	<i>Mimulus luteus</i>	
Apn	<i>Apium nodiflorum</i>		Mm	<i>Mimulus moschatus</i>	
Bar	<i>Baldellia ranunculoides</i>		Mi	<i>Mimulus sp. guttatus / x robertianus</i>	0
Ber	<i>Berula erecta</i>		Mon	<i>Montia fontana</i>	
Bom	<i>Bolboschoenus maritimus</i>		Myl	<i>Myosotis laxa</i>	
Bu	<i>Butomus umbellatus</i>		Msc	<i>Myosotis scorpioides</i>	F+LA
Cal	<i>Calla palustris</i>		Msec	<i>Myosotis secunda</i>	
Cab	<i>Callitriche brutia</i>		Mst*	<i>Myosotis stolonifera</i>	
Cas	<i>Callitriche stagnalis</i>	LF	Oa	<i>Oenanthe aquatica</i>	
Cap	<i>Caltha palustris</i>	0	Oc	<i>Oenanthe crocata</i>	
Cxat	<i>Carex acuta</i>		Of	<i>Oenanthe fistulosa</i>	
Cxaf	<i>Carex acutiformis</i>		Pam	<i>Persicaria amphibia</i>	0
Cxa	<i>Carex aquatilis</i>		Ph	<i>Persicaria hydropiper</i>	
Cxl	<i>Carex lasiocarpa</i>		Pha	<i>Phalaris arundinacea</i>	0/LA
Cxli	<i>Carex limosa</i>		Phr	<i>Phragmites australis</i>	F/LD
Cxn	<i>Carex nigra</i>		Pop	<i>Potentilla palustris</i>	
Cxri	<i>Carex riparia</i>	F/LA	Rfl	<i>Ranunculus flammula</i>	
Cxro	<i>Carex rostrata</i>		Rh	<i>Ranunculus hederaceus</i>	
Cxv	<i>Carex vesicaria</i>		RI	<i>Ranunculus lingua</i>	
Ca	<i>Catabrosa aquatica</i>		Ro	<i>Ranunculus omiophyllus</i>	
Civ*	<i>Cicuta virosa</i>		Rr	<i>Ranunculus reptans</i>	
Cim	<i>Cladium mariscus</i>		Rs	<i>Ranunculus sceleratus</i>	
Des*	<i>Deschampsia setacea</i>		Roa	<i>Rorippa amphibia</i>	
Elac	<i>Eleocharis acicularis</i>		Roi	<i>Rorippa islandica</i>	
Elm	<i>Eleocharis multicaulis</i>		Rm	<i>Rorippa microphylla</i>	
Elp	<i>Eleocharis palustris</i>	0/LF	Rn*	<i>Rorippa nasturtium-aquaticum</i> agg	L-0
Elq	<i>Eleocharis quinqueflora</i>		Rxs	<i>Rorippa x sterilis</i>	
Elu	<i>Eleocharis uniglumis</i>		Rxh	<i>Rumex hydrolapathum</i>	
Eqf	<i>Equisetum fluviatile</i>	0/LF	Scp**	<i>Scheuchzeria palustris</i>	
Eqp	<i>Equisetum palustre</i>	0	SI	<i>Schoenoplectus lacustris</i>	
Eqxl	<i>Equisetum x litorale</i>		St	<i>Schoenoplectus tabernaemontani</i>	
Era	<i>Eriophorum angustifolium</i>		Spem	<i>Sparganium emersum</i>	
Gld	<i>Glyceria declinata</i>		Sper	<i>Sparganium erectum</i>	L-0
Glf	<i>Glyceria fluitans</i>		Ta	<i>Typha angustifolia</i>	
Glm	<i>Glyceria maxima</i>		Ti	<i>Typha latifolia</i>	LF
Gln	<i>Glyceria notata</i>		Vaa	<i>Veronica anagallis-aquatica</i>	
Glxp	<i>Glyceria x pedicellata</i>		Vb	<i>Veronica beccabunga</i>	0
Hip	<i>Hippuris vulgaris</i>	LF	Vc	<i>Veronica catenata</i>	R
Hyd	<i>Hydrocotyle vulgaris</i>		Vs	<i>Veronica scutellata</i>	
Ip	<i>Iris pseudacorus</i>	0			
Iv	<i>Iris versicolor</i>				
Jac	<i>Juncus acutiflorus</i>				
Jaa*	<i>Juncus alpinoarticulatus</i>				
Ja	<i>Juncus articulatus</i>	0			
Jb	<i>Juncus bulbosus</i>				
Jc	<i>Juncus conglomeratus</i>				
Je	<i>Juncus effusus</i>	0			
Lim*	<i>Limosella aquatica</i>				
Lit	<i>Littorella uniflora</i>				
Lyc*	<i>Lycopodiella inundata</i>				
Lyt*	<i>Lysimachia thyrsoiflora</i>				
Lyp	<i>Lythrum portula</i>				
Lys	<i>Lythrum salicaria</i>				

SPECIES TOTAL

23

Juncus inflexus LF

Other edge species

Cxd	<i>Carex viridula</i> ssp. <i>oedocarpa</i> (=C. <i>demissa</i>)
Cxe	<i>Carex echinata</i>
Cxp	<i>Carex panicea</i>
Cxpa	<i>Carex paniculata</i>
Gp	<i>Galium palustre</i>
Sa	<i>Senecio aquaticus</i>
Tp	<i>Triglochin palustre</i>
Vp	<i>Viola palustris</i>

Note: * = Scarce plants (occurring in 10-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency East & West Regions.
 ** = Red Data Book Species (occurring in 2-15 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency East & West Regions.

1997 SOUTH EAST SCOTLAND LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code NT2712 Site name Duddingston Loch Grid ref NT281724 Date 10/6/97

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR
Api	<i>Apium inundatum</i>	.....
Apd	<i>Aponogeton distachyos</i>	.....
Af	<i>Azolla filiculoides</i>	.....
Bar	<i>Baldellia ranunculoides</i>	.....
Cah	<i>Callitriche hamulata</i>	LA
<u>Cher</u>	<u><i>Callitriche hermaphrodita</i></u>	LF
Cao	<i>Callitriche obtusangula</i>	.....
Cpla	<i>Callitriche platycarpa</i>	.....
Cas	<i>Callitriche stagnalis</i>	.....
Ca	<i>Callitriche</i> sp.	.....
Ced	<i>Ceratophyllum demersum</i>	.....
Crh	<i>Crassula helmsii</i>	.....
Ela	<i>Elatine hexandra</i>	.....
Elh*	<i>Elatine hydropiper</i>	.....
Ef	<i>Eleogiton fluitans</i>	.....
<u>Ec</u>	<u><i>Elodea canadensis</i></u>	O
En	<i>Elodea nuttallii</i>	.....
Fon	<i>Fontinalis antipyretica</i>	.....
Grd	<i>Groenlandia densa</i>	.....
Hip	<i>Hippuris vulgaris</i>	.....
Hmr	<i>Hydrocharis morsus-ranae</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	.....
Ise*	<i>Isoetes echinospora</i>	.....
Isl	<i>Isoetes lacustris</i>	.....
Jb	<i>Juncus bulbosus</i>	.....
Lam	<i>Lagarosiphon major</i>	.....
Lg	<i>Lemna gibba</i>	.....
<u>Lm</u>	<u><i>Lemna minor</i></u>	Lo
<u>Lt</u>	<u><i>Lemna trisulca</i></u>	O
Lit	<i>Littorella uniflora</i>	.....
Lob	<i>Lobelia dortmanna</i>	.....
Lun	<i>Luronium natans</i>	.....
Lyp	<i>Lythrum portula</i>	.....
Mal	<i>Myriophyllum alterniflorum</i>	.....
Msp	<i>Myriophyllum spicatum</i>	.....
Nf*	<i>Najas flexilis</i>	.....
Nua	<i>Nuphar advena</i>	.....
Nul	<i>Nuphar lutea</i>	.....
Nup*	<i>Nuphar pumila</i>	.....
Nus	<i>Nuphar x spenneriana</i>	.....
Na	<i>Nymphaea alba</i>	.....
<u>Nyp</u>	<u><i>Nymphoides peltata</i></u>	LA
<u>Pam</u>	<u><i>Persicaria amphibia</i></u>	LA
Pil*	<i>Pilularia globulifera</i>	.....
Pal	<i>Potamogeton alpinus</i>	.....
Pbe	<i>Potamogeton berchtoldii</i>	.....
Pcol*	<i>Potamogeton coloratus</i>	.....
Pcom*	<i>Potamogeton compressus</i>	.....
Pxco	<i>Potamogeton x cooperi</i>	.....
<u>Pcr</u>	<u><i>Potamogeton crispus</i></u>	O
Pfil*	<i>Potamogeton filiformis</i>	.....
Pfr	<i>Potamogeton friesii</i>	.....
Pgr	<i>Potamogeton gramineus</i>	.....
Plu	<i>Potamogeton lucens</i>	.....
Pn	<i>Potamogeton natans</i>	.....

Map code	Species	DAFOR
Pxn	<i>Potamogeton x nitens</i>	.....
Pob	<i>Potamogeton obtusifolius</i>	.....
Pxo	<i>Potamogeton x olivaceus</i>	.....
<u>Ppec</u>	<u><i>Potamogeton pectinatus</i></u>	LA
Pper	<i>Potamogeton perfoliatus</i>	.....
Ppol	<i>Potamogeton polygonifolius</i>	.....
Ppra	<i>Potamogeton praelongus</i>	.....
<u>Ppu</u>	<u><i>Potamogeton pusillus</i></u>	O/LF
Pxsa	<i>Potamogeton x salicifolius</i>	.....
Pxsp	<i>Potamogeton x sparganiifolius</i>	.....
Pxsu	<i>Potamogeton x suecicus</i>	.....
Pt*	<i>Potamogeton trichoides</i>	.....
Pxz	<i>Potamogeton x zizii</i>	.....
Ra	<i>Ranunculus aquatilis</i>	.....
Rb	<i>Ranunculus baudotii</i>	.....
Rc	<i>Ranunculus circinatus</i>	.....
Rf	<i>Ranunculus fluitans</i>	.....
Rxk	<i>Ranunculus x kelchoensis</i>	.....
Rp	<i>Ranunculus peltatus</i>	.....
Rpse	<i>Ranunculus penicillatus</i>	.....
	ssp. <i>pseudofluitans</i>	.....
Rtr	<i>Ranunculus trichophyllus</i>	.....
Rum	<i>Ruppia maritima</i>	.....
Sas	<i>Sagittaria sagittifolia</i>	.....
Spa	<i>Sparganium angustifolium</i>	.....
Spem	<i>Sparganium emersum</i>	.....
Spn	<i>Sparganium natans</i>	.....
Sp	<i>Sparganium</i> sp.	.....
Spp	<i>Spirodela polyrrhiza</i>	.....
Sta	<i>Stratiotes aloides</i>	.....
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.	.....
<u>Zan</u>	<u><i>Zannichellia palustris</i></u>	F/LA
<u>Charu/L</u>	<u><i>Chara</i> var. <i>longibracteata</i></u>	O/LA
<u>Chavi</u>	<u><i>Chara</i> var. <i>vulgata</i></u>	O/LA
Nit	<i>Nitella</i> sp.	.....
<u>Chagl</u>	<u><i>Chara globularis</i></u>	O/LA
SPECIES TOTAL		14

Other species not included in total:

Sphag	<i>Sphagnum</i> sp.	LA
	<i>Euteromorpha</i>	LA
	<i>Filamentous algae</i>	LA
Specimens:		
Chara sp.	<i>C. vulgaris</i> 14/97	15/97
	<i>C. vulgaris</i> 14/97	15/97
	<i>C. globularis</i>	
Nitella sp.		
Potamogeton sp.	<i>P. c.</i> 27/97	<i>P. p.</i> 28/97, <i>P. p.</i> 29/97
Utricularia sp.		

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

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

All species names follow those in Stace 1991.

Charophyte identification
verified by N.F. StewartPotamogeton identification
verified by C. D. Preston

EDINBURGH

Holyrood

Holyrood Park

Willowbrae

ARTHUR'S SEAT

Prestonfield

1997 LOCH INVENTORY

Site location map for NT2712

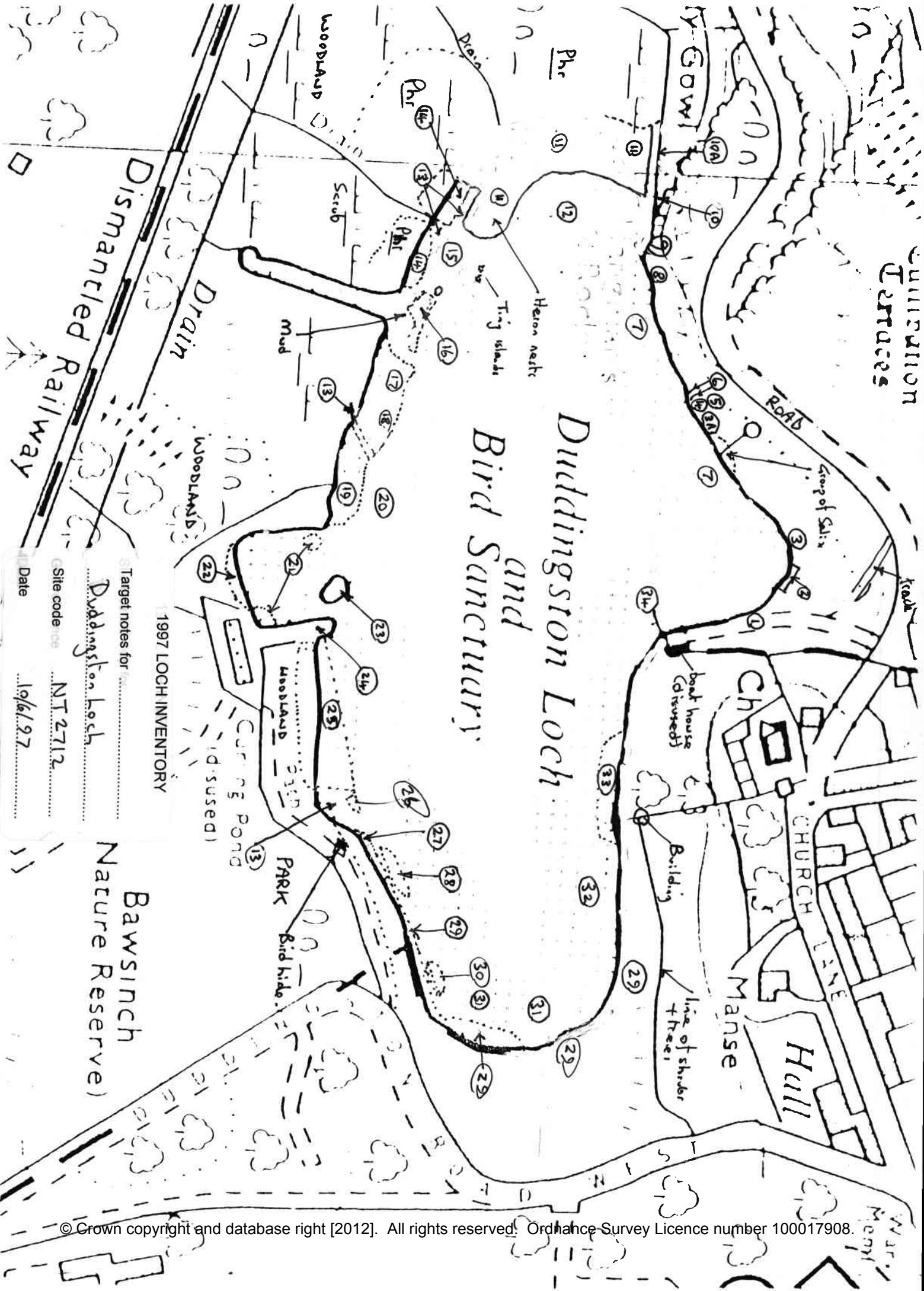
Duddingston Loch

Grid reference NT28724

Date

10/6/97

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908



1997 LOCH INVENTORY

Target notes for

Duddingston Loch

Site code NT2712

Date 10/6/97

Bawsinch
Nature Reserve

The loch is only a short distance from the centre of Edinburgh. It is surrounded by nature reserve, willow and alder carr, reed swamp, private gardens and amenity grassland.

- ① Amenity grassland, short, mown + grazed by wildfowl, behind a constructed rocky edge c. 5m wide. The rocky shore supports sparse veg including: Ma, Urt dio, Msc, Ran + terrestrial spp.
Offshore aquatic: Entomorpha, Ppc, Lm, FA - Zan, Cher, Ppu, Pcr, Cah.
- ② Fenced area with planted alders over tall herbs. Rocky shore as ① but with plants more frequent, incl. Mi, Card prat, Roripa sp, Ran repens, Artemisia vulg.
- ③ Stony shore with no veg backed by short turf.
③A Lowbank with short turf rising steeply behind
- ④ Low bank, often rocky, with steeply-rising ground behind. Ground poached by wildfowl near shore. Some Car.
- ⑤ Wetland veg in seepage area on higher ground: Epi hir, Phr, Card prat, Tw far, Pot ans, Crip, Juncus inf, Ja, Ma, Aster sp.
- ⑥ 2 trickle, seepage inflow. Small anast of Ig + Eoff.
- ⑦ Stony bottom. Cher, Zan, FA, Entomorpha, Ppu
- ⑧ 1m high, bare soil bank with grassland + patches of shrub behind.
- ⑨ Bedrock reaches loch. Some short turf over rocks with Thyme, rock rose, Lotus corn.
- ⑩ Partly-derelict wall forms shore line. Patchy shoreline veg: Jc, Solanum dulc, Ma, Epi hir.
Aquatic: Pcr, Ppu, Ec, Chara, Lt.
⑩A Willow trees just beyond wall shade narrow channel (c 10m wide) between wall and carr.
- ⑪ Salix + Alnus carr, in mosaic with Phr beds. Gd flora in carr: Msc, Vb, Vc, Phr Cxii
Solanum dul, Ma, Epi hir,
- ⑫ Fine silt substrate, no aquatic veg.
- ⑬ Open channels
- ⑭ Phr beds backed by Alnus + Salix. Fronted by narrow strip with occ Ma + Ip. Carr + Juncus before on duck loafing area
- ⑮ Zan + FA
- ⑯ "Island": Phr bed fringed by Salix + Alnus.
- ⑰ Phr with (Apo), Msc, Ma, Ip locally on western fringe. Northern fringe fronted by Betula, Salix (Acer psar), Ma, Msc, Crip, ribes sp
- ⑱ Phr, ribes sp.
- ⑲ Salix carr with mature S. alba
- ⑳ FA, Pcr, Zan, Ppu, Cher
- ㉑ Hip
- ㉒ Ip with Ma, Hip, Mc, Vb, Epi hir, Pam, Nyp, Msc Jc, Pha, Eoff, Salix, Elp, Ga, Agr, Lm, Sper, Ip, Sol dulc.
Backed by woodland with mature oak, Salix, Sambucus, Rubus, Urt dio, Eqp.
- ㉓ Small island with 1 salix + duck loafing area. Zan + FA offshore
- ㉔ Peninsula with trees, + bird hide at tip. Small Nyp near tip. Offshore: Zan, Chara, Ppc, Ppu

- (25) Phr bed with Crip, Msc, Ma, Nyp, Sol dule along water line; Ppec offshore. Backed by woodland.
- (26) Phr bed fringed by Ma, Crip, Je, Msc, Ip; with open water bay behind.
- (27) Crip bed flanked by Phr beds. Mature oaks + bird hide onshore. Offshore: Ppec, Chava
- (28) Nyp bed with Hip + Pam over Ppec
- (29) Phr
- (30) Pam bed surrounded by dense beds of Ppec
- (31) Ppec, Chava, Ppu, Pcr. (Shallow water < 80cm). Phr fringe encroaching into loch here.
- (32) Chava, Ec, Ppu, Ppec, Pcr.
- (33) Nyp bed backed by Phr with occ Cap, Tl, Crip, Ip. Offshore: Ppu, FA, Cher, Lt.
- (34) Wall juts out into loch