

1997 LOCH INVENTORY: SOUTH EAST SCOTLAND*

Code NT.1608 Name THREIPMUIR RESERYOIR Grid Ref NT.163635
 Date 5/6/97 Surveyors OLL MB Estate EAST OF SCOTLAND WATER
 Area ha Altitude m Catchment ha Geology 7.2/7.8
 Water colour y. PALE BROWN Clarity CLEAR Boat used YES Secchi disc depth 0.61m
 Loch type SA Edge type(s) S9a, S10b, S28b S27a Scrag (NVC codes)
 Status BALERNO COMMON 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.) 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
 Fishing (edge/boat) PRIVATE FISHING CLUB - 6 BOATS
 Litter
 Shooting
 Water abstraction
Nature reserve with bird hide

SURROUNDING LAND USE:

Rough pasture
Arable
Nature reserve (+ hide)

FAUNA

Mammals	Birds	Reptiles Amphibians	Fish	Dragonflies & other invertebrates
	<u>HERON</u> <u>REED BUNTING</u> <u>MALLARD</u> <u>TUFTED DUCK</u> <u>COOT</u> <u>G.C. GREBE</u> <u>B.H. GULLS - NESTING</u>	<u>TADPOLES</u>	<u>BROWN +</u> <u>RAINBOW TROUT</u> <u>FISHING</u>	<u>SIALIS LUTARIA LARVAE</u> <u>LYUNAEA PEREGR</u>

SPECIES DIVERSITY	RARE SPECIES	WATER CHEMISTRY
Edge <u>23</u> Scarce (*)	Open water <u>14</u> Red Data Book (**)	Alkalinity <u>0.92</u> meq/l
Total <u>36</u>		Conductivity <u>167</u> µS/cm
		p.H. <u>7.3</u>

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* 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 NT1608 Site name THREIPMUIR RESERVOIR Grid ref NT163635 Date 5/6/97

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Ac	<i>Acorus calamus</i>	.....	Ma	<i>Mentha aquatica</i>	...0....
Ags	<i>Agrostis stolonifera</i>	...0....	Mt	<i>Menyanthes trifoliata</i>	F/L/D
Al	<i>Alisma lanceolatum</i>	.....	Mg	<i>Mimulus guttatus</i>	.....
Apa	<i>Alisma plantago-aquatica</i>	...LF..	Ml	<i>Mimulus luteus</i>	.....
Apn	<i>Apium nodiflorum</i>	.....	Mm	<i>Mimulus moschatus</i>	.....
Bar	<i>Baldellia ranunculoides</i>	.....	Mi	<i>Mimulus sp.</i>	.....
Ber	<i>Berula erecta</i>	.....	Mon	<i>Montia fontana</i>	.....
Bom	<i>Bolboschoenus maritimus</i>	.....	My	<i>Myosotis</i> - 2 - sp.	0/LF
Bu	<i>Butomus umbellatus</i>	.....	Msc	<i>Myosotis scorpioides</i>	.....
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>	.....	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>	...0/LF.	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>	.....
Cxn	<i>Carex nigra</i>	...0....	Pop	<i>Potentilla palustris</i>	...0....
Cxri	<i>Carex riparia</i>	.....	Rfl	<i>Ranunculus flammula</i>	...0....
Cxro	<i>Carex rostrata</i>	F/L/D	Rh	<i>Ranunculus hederaceus</i>	.....
Cxv	<i>Carex vesicaria</i>	.....	Rl	<i>Ranunculus lingua</i>	.....
Ca	<i>Catabrosa aquatica</i>	.....	Ro	<i>Ranunculus omiophyllus</i>	.....
Civ*	<i>Cicuta virosa</i>	.....	Rr	<i>Ranunculus reptans</i>	.....
Clm	<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>	R/LF.	Rna	<i>Rorippa nasturtium-aquaticum</i>	.....
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>	F/L/D	Scp**	<i>Scheuchzeria palustris</i>	.....
Eqp	<i>Equisetum palustre</i>	.....	Sl	<i>Schoenoplectus lacustris</i>	.....
Eqxl	<i>Equisetum x litorale</i>	.....	St	<i>Schoenoplectus tabernaemontani</i>	.....
Era	<i>Eriophorum angustifolium</i>	...0....	Spem	<i>Sparganium emersum</i>	...LF..
Gld	<i>Glyceria declinata</i>	.....	Sper	<i>Sparganium erectum</i>	.....
Glf	<i>Glyceria fluitans</i>	...R..	Ta	<i>Typha angustifolia</i>	.....
Glm	<i>Glyceria maxima</i>	.....	Tl	<i>Typha latifolia</i>	...0/LA
Gln	<i>Glyceria notata</i>	.....	Vaa	<i>Veronica anagallis-aquatica</i>	.....
Glxp	<i>Glyceria x pedicellata</i>	.....	Vb	<i>Veronica beccabunga</i>	.....
Hip	<i>Hippuris vulgaris</i>	.....	Vc	<i>Veronica catenata</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	.....	Vs	<i>Veronica scutellata</i>	.....
Ip	<i>Iris pseudacorus</i>	0/LF.			
Iv	<i>Iris versicolor</i>	.....		SPECIES TOTAL	23
Jac	<i>Juncus acutiflorus</i>	0/LF.			
Jaa*	<i>Juncus alpinoarticulatus</i>	.....		Other edge species	
Ja	<i>Juncus articulatus</i>	.....	Cxd	<i>Carex viridula</i> ssp. <i>oedocarpa</i> (=C. <i>demissa</i>)	
Jb	<i>Juncus bulbosus</i>	.....	Cxe	<i>Carex echinata</i>	
Jc	<i>Juncus conglomeratus</i>	.....	Cxp	<i>Carex panicea</i>	
Je	<i>Juncus effusus</i>	0/LA	Cxpa	<i>Carex paniculata</i>	
Lim*	<i>Limosella aquatica</i>	.....	Gp	<i>Galium palustre</i>	
Lit	<i>Littorella uniflora</i>	R/LA	Sa	<i>Senecio aquaticus</i>	
Lyc*	<i>Lycopodiella inundata</i>	.....	Tp	<i>Triglochin palustre</i>	
Lyt*	<i>Lysimachia thyrsoiflora</i>	.....	Vp	<i>Viola palustris</i>	
Lyp	<i>Lythrum portula</i>	.....		
Lys	<i>Lythrum salicaria</i>	.....		

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

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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

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SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Api	<i>Apium inundatum</i>	.....	Pxn	<i>Potamogeton x nitens</i>	.....
Apd	<i>Aponogeton distachyos</i>	.....	<u>Pob</u>	<u><i>Potamogeton obtusifolius</i></u>	<u>0/LF</u>
Af	<i>Azolla filiculoides</i>	.....	Pxo	<i>Potamogeton x olivaceus</i>	.....
Bar	<i>Baldellia ranunculoides</i>	.....	Ppec	<i>Potamogeton pectinatus</i>	.....
<u>Cah</u>	<u><i>Callitriche hamulata</i></u>	<u>LF</u>	Pper	<i>Potamogeton perfoliatus</i>	.....
Cher	<i>Callitriche hermaphroditica</i>	.....	Ppol	<i>Potamogeton polygonifolius</i>	.....
Cao	<i>Callitriche obtusangula</i>	.....	Ppra	<i>Potamogeton praelongus</i>	.....
Cpla	<i>Callitriche platycarpa</i>	.....	Ppu	<i>Potamogeton pusillus</i>	.....
Cas	<i>Callitriche stagnalis</i>	.....	Pxsa	<i>Potamogeton x salicifolius</i>	.....
Ca	<i>Callitriche sp.</i>	.....	Pxsp	<i>Potamogeton x sparganiifolius</i>	.....
Ced	<i>Ceratophyllum demersum</i>	.....	Pxsu	<i>Potamogeton x suecicus</i>	.....
Crh	<i>Crassula helmsii</i>	.....	Pt*	<i>Potamogeton trichoides</i>	.....
Ela	<i>Elatine hexandra</i>	.....	Pxz	<i>Potamogeton x zizii</i>	<u>LA</u>
Elh*	<i>Elatine hydropiper</i>	.....	Ra	<i>Ranunculus aquatilis</i>	.....
Ef	<i>Eleogiton fluitans</i>	.....	Rb	<i>Ranunculus baudotii</i>	.....
<u>Ec</u>	<u><i>Elodea canadensis</i></u>	<u>F/LA</u>	Rc	<i>Ranunculus circinatus</i>	.....
En	<i>Elodea nuttallii</i>	.....	Rf	<i>Ranunculus fluitans</i>	.....
<u>Fon</u>	<u><i>Fontinalis antipyretica</i></u>	<u>0/LA</u>	Rxk	<i>Ranunculus x kelchoensis</i>	.....
Grd	<i>Groenlandia densa</i>	.....	<u>Rp</u>	<u><i>Ranunculus peltatus</i></u>	<u>F</u>
Hip	<i>Hippuris vulgaris</i>	.....	Rpse	<i>Ranunculus penicillatus</i> ssp. <i>pseudofluitans</i>	.....
Hmr	<i>Hydrocharis morsus-ranae</i>	.....	Rtr	<i>Ranunculus trichophyllum</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	.....	Rum	<i>Ruppia maritima</i>	.....
Ise*	<i>Isoetes echinospora</i>	.....	Sas	<i>Sagittaria sagittifolia</i>	.....
Isl	<i>Isoetes lacustris</i>	.....	Spa	<i>Sparganium angustifolium</i>	.....
Jb	<i>Juncus bulbosus</i>	.....	<u>Spem</u>	<u><i>Sparganium emersum</i></u>	<u>LA</u>
Lam	<i>Lagarosiphon major</i>	.....	Spn	<i>Sparganium natans</i>	.....
Lg	<i>Lemna gibba</i>	.....	Sp	<i>Sparganium sp.</i>	.....
Lm	<i>Lemna minor</i>	.....	Spp	<i>Spirodela polyrhiza</i>	.....
Lt	<i>Lemna trisulca</i>	.....	Sta	<i>Stratiotes aloides</i>	.....
<u>Lit</u>	<u><i>Littorella uniflora</i></u>	<u>R/LF</u>	Sub	<i>Subularia aquatica</i>	.....
Lob	<i>Lobelia dortmanna</i>	.....	Uti	<i>Utricularia intermedia</i>	.....
Lun	<i>Luronium natans</i>	.....	Um	<i>Utricularia minor</i>	.....
Lyp	<i>Lythrum portula</i>	.....	Uo	<i>Utricularia ochroleuca</i>	.....
<u>Mal</u>	<u><i>Myriophyllum alterniflorum</i></u>	<u>R</u>	Us	<i>Utricularia stygia</i>	.....
Msp	<i>Myriophyllum spicatum</i>	.....	Uva	<i>Utricularia vulgaris/australis</i> agg.	.....
Nf*	<i>Najas flexillis</i>	.....	Ut	<i>Utricularia sp.</i>	.....
Nua	<i>Nuphar advena</i>	.....	Zan	<i>Zannichellia palustris</i>	.....
Nul	<i>Nuphar lutea</i>	.....		
Nup*	<i>Nuphar pumila</i>	.....	<u>Chavi</u>	<u><i>Chara sp. virgata</i></u>	<u>LA</u>
Nus	<i>Nuphar x spenneriana</i>	.....	<u>Nit op</u>	<u><i>Nitella sp. opaca</i></u>	<u>LF</u>
Na	<i>Nymphaea alba</i>	.....		
Nyp	<i>Nymphoides peltata</i>	.....		
<u>Pam</u>	<u><i>Persicaria amphibia</i></u>	<u>LA</u>			
Pil*	<i>Pilularia globulifera</i>	.....		
Pal	<i>Potamogeton alpinus</i>	.....		
<u>Pbe</u>	<u><i>Potamogeton berchtoldii</i></u>	<u>0/LF</u>			
Pcol*	<i>Potamogeton coloratus</i>	.....		
Pcom*	<i>Potamogeton compressus</i>	.....		
Pxco	<i>Potamogeton x cooperi</i>	.....		
Pcr	<i>Potamogeton crispus</i>	.....		
Pfil*	<i>Potamogeton filiformis</i>	.....		
Pfr	<i>Potamogeton friesii</i>	.....		
<u>Pgr</u>	<u><i>Potamogeton gramineus</i></u>	<u>LA</u>			
Plu	<i>Potamogeton lucens</i>	.....		
<u>Pn</u>	<u><i>Potamogeton natans</i></u>	<u>LA</u>			

SPECIES TOTAL 14

Other species not included in total:

Sphag *Sphagnum sp.*
Potamogeton identification verified by C. D. Preston

Specimens:

Chara sp. C. virgata 10/97 ✓

N. opaca

Nitella sp. N. flexillis 11/97

Potamogeton sp. P. be. 11/97; P. ob. 12/97; P. xz. 16/97 x Pof 15/97

Utricularia sp.

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All species names follow those in Stace 1991.

Charophyte identification
verified by N.F. Stewart

OLL5/97

...R.S.R.V.O.R.

Site code N.T.I.6.08

Date 5/6/97

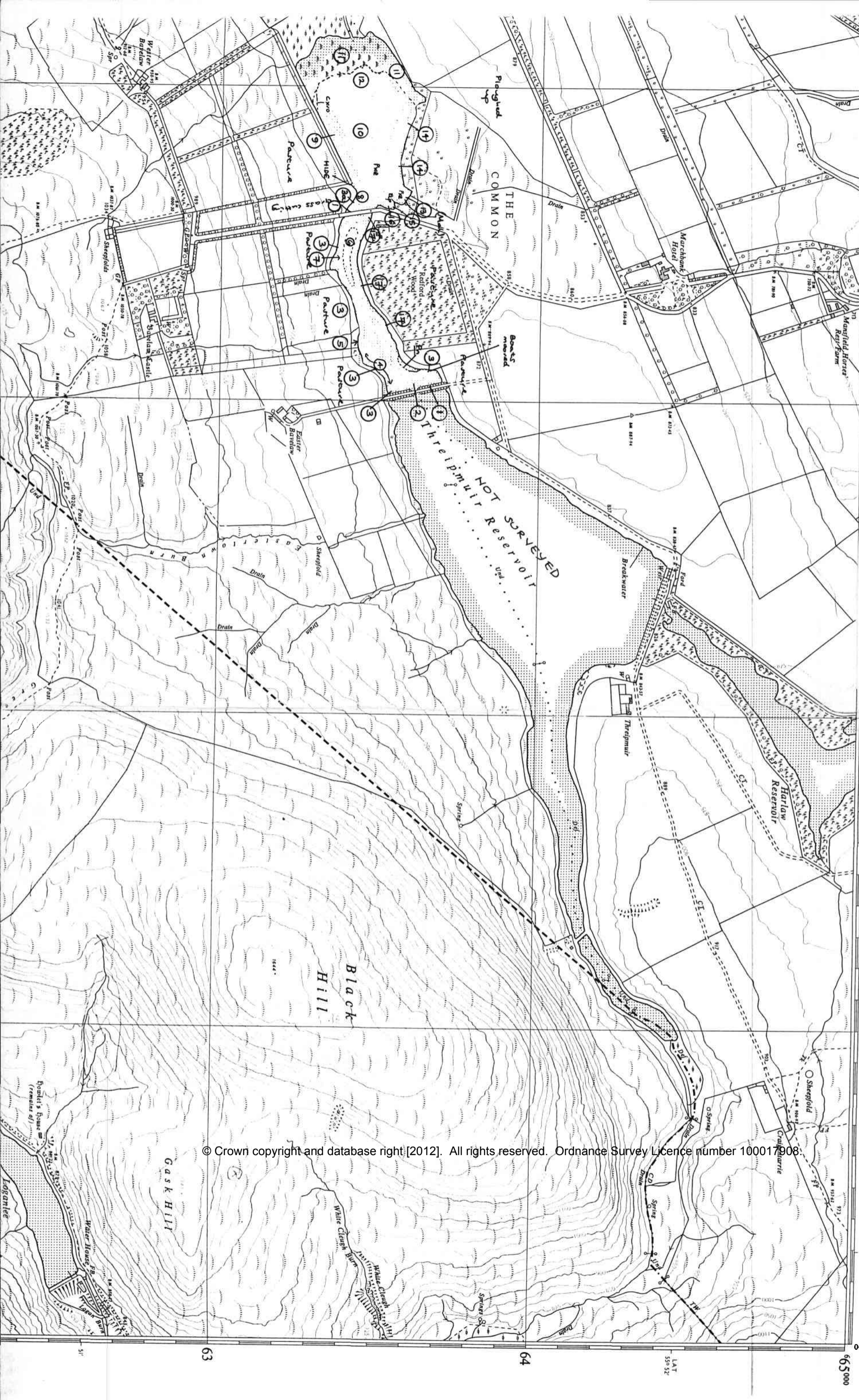
160

240 Chains

16 17 18 19 20
LONG 33 17 W

65 000

LAT 55 05 2



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Threipmuir reservoir is divided into two parts by the bridge which crosses to Easter Barelaw farm. Only the western half of the reservoir was surveyed for macrophytes. The eastern section was comparatively barren with limited aquatic vegetation.

- ① Stone clad reservoir bank: Phe, Cxro, Fili ulm, Urtica dioica, occ. Hawthorn, willows, gorse
chamerion angustifolium, Angelica sylv, (Pam (t)) Rumex acetosa. Fern on exposed dry stones.
- ② Open water along dam: Ec + Leaf litter [Ec, Pn, Apa, Spem, Egf worked up]
- ③ Egf stand in shallow water + Mt, Pam (a), Ec, (Apa), Rp, Pn backed by willow swamp
+ Deschampsia cesp, (Cap), Cxh, Spem, Stachys pal, Jac, Pop, Equis arr, Ags, Fili ulm,
Galium apar, Urtica dioica, Heracleum glond, Cxa, Apa, Cap, Cxro, Mt, TL. ^{3a Egf, willows}
Apa Mt
Pop
- ④ Open water: mud + Pob, Ec, Rp with patches of Spem over mud and leaf litter
- ⑤ Seepage + Stellaria alvina, Egf, Cap, Mentha sp.
- ⑥ Sparse Pn bed + (Ec), Pob and leaf litter
- ⑦ Open water + Ec, Rp, Pob occ. Pn, Spem
- ⑧ Open water + Ec (Pn)
- ⑨ Bank overhung with willows, v. narrow Egf strip (Ip) → large beds of Cxro and → Cxa
in shallow water. Pam beds in deeper water with rafts of Mt + Ec, Pob
- ⑩ Open water with rafts of Mt with nesting black headed gull + Pob, Ec, Rp, Pxe, chara
+ Nitella. [Water c. 80cm deep]
- ⑪ Large inundation zone with open areas of mud and clumps of Cxa, Rp, Pop, Mt, Apa,
Cah, Myosotis sp. + willow scrub.
- ⑫ Shallow water over mud + Pbe, Rp, Ec, Cah, Nitella flexilis, Pob.
- ⑬ Bay with aquatic beds of Pxe, Rp and Spem. Egf along shoreline + Cxro, willow scrub,
(Mat)
Apa, Je. Drier bank + Cxh, Pop, Mt, Je, Era, Eriophorum vaginatum, Egf.
- ⑭ Willow swamp with Cxro at edge. Patches of Pn, Pam along edge of Loch. Water: Pn,
Rp rafts, Apa, Ec, Chara virgata, Nitella flexilis.
- ⑮ Small bay backed by (Ip), Apa, Egf, Mt, Pn, Rp, Spem, Elp. Open water + Pxe.
- ⑯ Patch of Pn + Ec
- ⑰ Shaded banks with v. occ. patches of Mt, Spem, Apa, Je. Stands of Elp, Apa, Cxa, Pam(a)
in shallow water along edge. Open water: Ec, Chara virgata, Pob.
- ⑱ Sandy beach: Pam (a), Ec, Spem, Rft, Lit, Myosotis sp., Gdf, Jac. Fern on logs.
- ⑲ Overhanging willows + Cxro bed + Je, Apa.