

Code NG6221..... Name CILL CHRIOSD..... Grid Ref NG612205...

Date 20.06.89..... Surveyors S.B.I.B/C.D/K.S... Estate DAFS.....

Area 18.0.. ha Altitude 30.. m Catchment ha Geology LI.....

Water Colour CLLESS. Clarity CLEAR Boat used ✓.... Secchi disk depth CLEAR TO BOTTOM ~ 4m

Loch type ... 3? Edge type(s) ... 943, 592, 583.....

Status ... SSS!..... Access....!..... Road/houses Present (underline)

Land Use % Open Water... 3. Semi-natural... 94. Forestry... 3. Agriculture....
Sea distance 2.6 Km.

<u>Substrate types</u> (underline main type tick others present)	Sand (0.1 - 4mm diam.)
✓ Bedrock	Silt (< 0.1mm diam.)
Boulders (>30 cm max diam.)	Organic mud
Stones (5-30cm diam.)	Peat
Gravel (4-50mm diam.)	Artificial embankment (Road)

Uses and Damage

USE	AREA AFFECTED	DAMAGE
Water abstraction
Sewage inflow
Agricultural pollution
Edge trampling	Signs of cattle + sheep trampling of marsh areas
Adjacent forestry	See map.....
Fishing (Edge/boat)	Fishing may be developed.....
	Dam at outflow.....
	Manmade.....

Fauna	Mammals	Reptiles	Dragonflies and other Invertebrates	Fish
Birds		Amphibians		
Common Sandpiper		Toad	Ishnura elegans	
Mallard + 8 Sws			Sympetrum nigrocaeruleum	
Common gull + 1 Sw.				
Lapwing				

manmade for salmon fishing turn of century c1900

Species diversity Detailed water analysis..... ✓ (3).....

Edge: 21 Conductivity 200....
Open Water 21 pH 7.26....
Total ... 40.....

Rare Species

National Rare in River Purification Board Other

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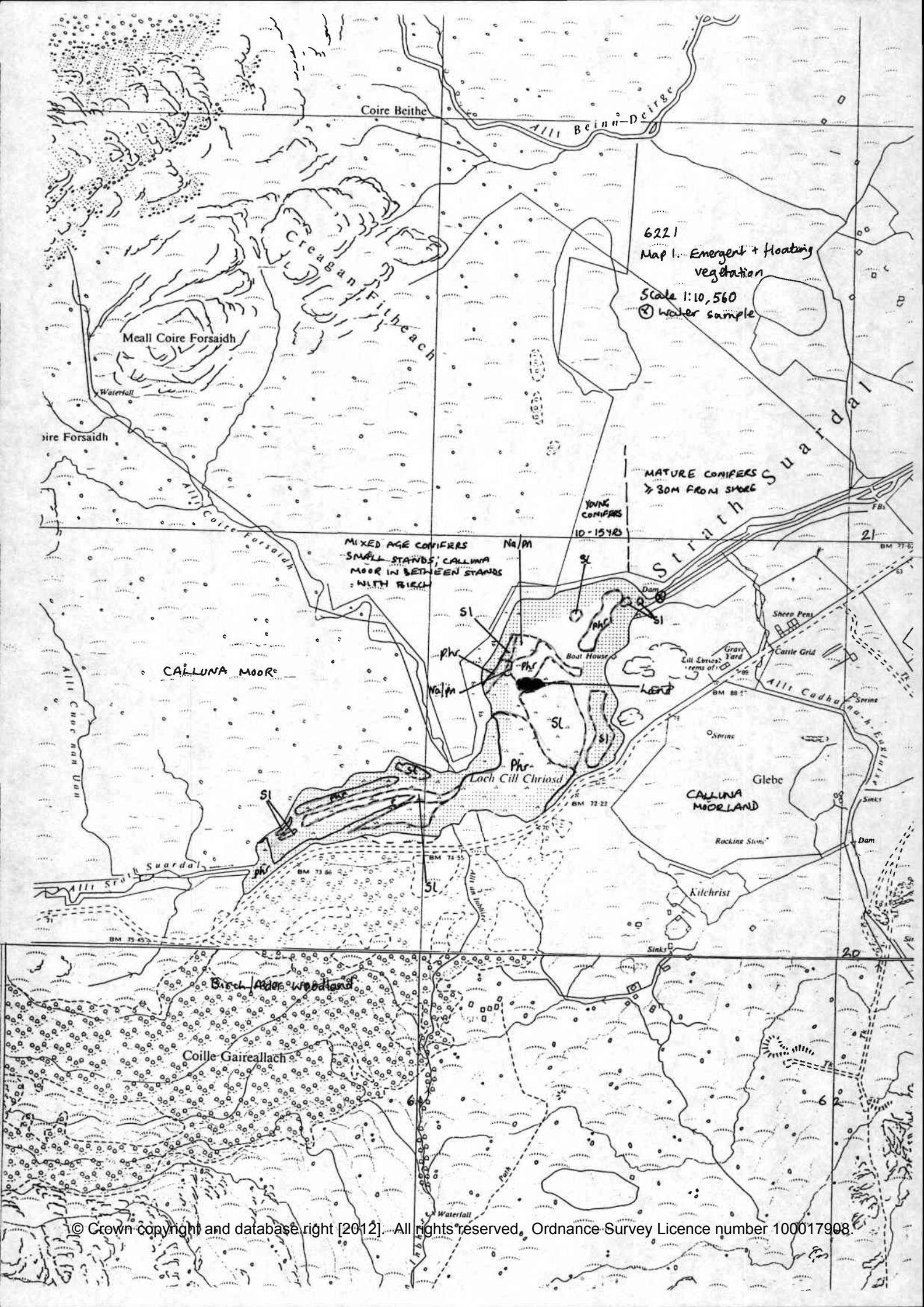
PCo1 Sub Ese 2 150 Plu

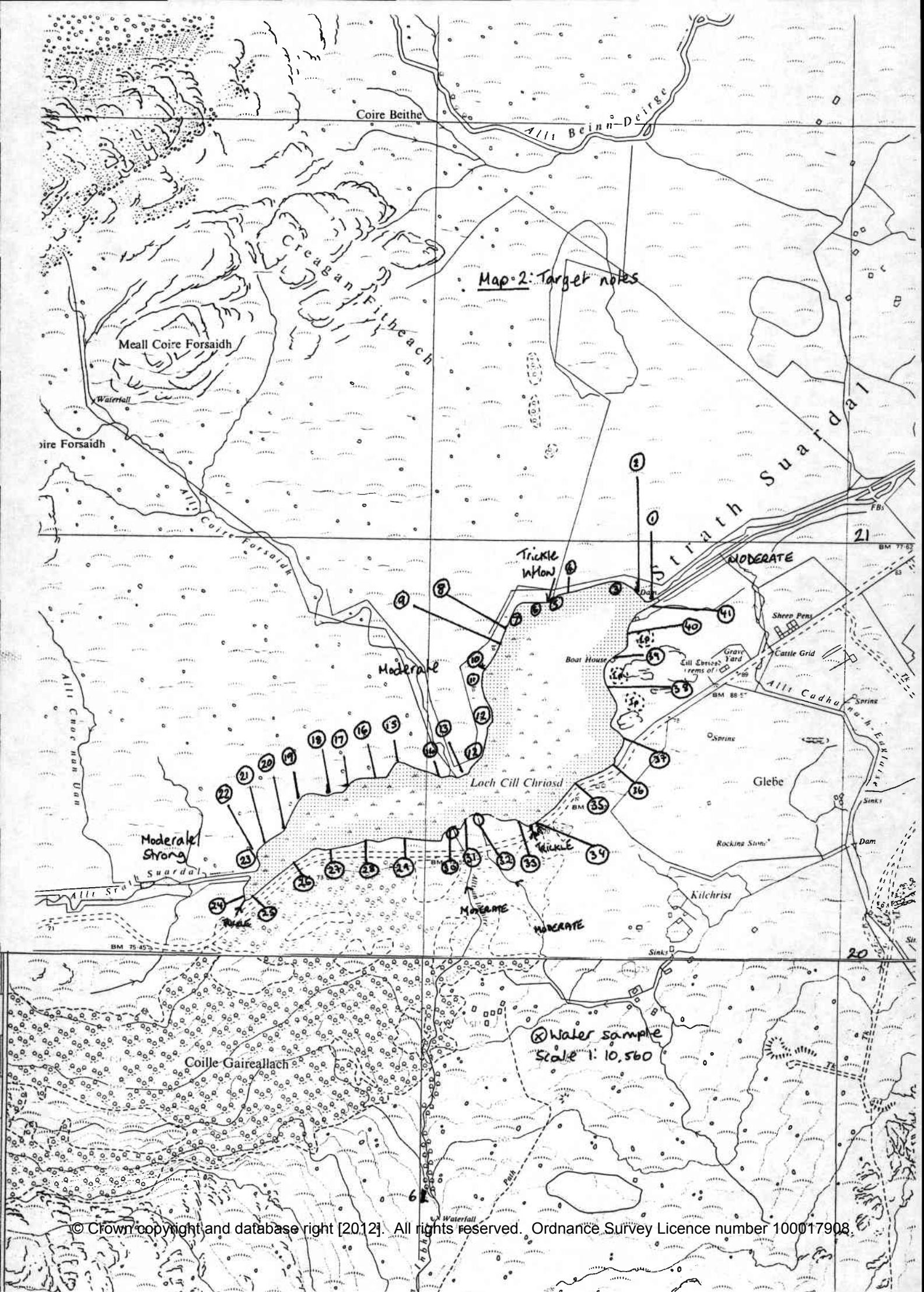
© EROSION AND EDGE SPECIES:

Own code	DAFOR	Map code	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR
SUBMERGED AND FLOATING SPECIES									
Ags Agrostis stolonifera	Sl	Scirpus lacustris	L.D.	All* Alisma lanceolatum	Plu*	Potamogeton lucens	F		
Berl Berula erecta	St*	Scirpus tabernaemontanae	.....	Api* Apium inundatum	Pn	Potamogeton natans	4A.		
Cap Caltha palustris	O..	Sper Sparganium erectum	.....	Bar* Baldellia ranunculoides	Pxn	Potamogeton x nitens	F		
Crl Carex lasiocarpa	4F..	Spem Sparganium emersum	.....	Cah Callitrichia hamulata	Ppr	Potamogeton perfoliatus			
Crl Carex limosa	O..	Ta Typha angustifolia	.....	Cher** Callitrichie hermaphroditica	Ppol	Potamogeton polygonifolius	LF..	Inflow	END
Crl Carex rostrata	4A..	Vb Veronica beccabunga	.....	Cas Callitrichie stagnalis	Ppr**	Potamogeton praelangus			
Crv Carex vesicaria	4F..	Vs Veronica scutellata	.....	Ela** Elatine hexandra	Rhe	Ranunculus hederaceus			
Elm Eleocharis multicaulis	4F..	Egf Equisetum fluviatile	Q..	Eae** Eriocaulon septangulare R	Rtr*	Ranunculus trichophyllus			
Elm right Eleocharis quinqueflora	4F..	Eqp Equisetum palustre	LF..	Fon Fontinalis antipyretica L.D.	Rma*	Ruppia maritima			
Era [Eriophorum angustifolium] Q.		Species total		Hip Hippuris vulgaris	Rsp**	Ruppia spiralis			
Gld Glyceria declinata	Q..	Other edge species		Hyd Hydrocotyle vulgaris	Sf	Scirpus fluitans			
Glf Glyceria fluitans	Q..	Crd Carex demissa		Isl Isoetes lacustris	Spa	Sparganium angustifolium LF	(P)ch		
Hip All Hippuris vulgaris	4F..	Cxe Carex echinata	.....	Iss** Isoetes setacea	Spani	Sparganium minimum F.	(B)		
Hyd Hydrocotyle vulgaris	Q..	Cxp Carex panicosa	.....	Ish Isoetes hybrid?	Spem	Sparganium emersum			
Ip Iris pseudacorus	4F..	Cxp Carex paniculata	.....	Jb Juncus bulbosus	Subt*	Subularia aquatica R.			
Ja Juncus articulatus	4F..	Gp Galium palustre	.....	var fluitans	Uti	Utricularia intermedia			
Jb Juncus bulbosus	Q..	Gr Geum rivale	.....	Lm* Lemna minor	Utm	Utricularia minor LF			
Jc Juncus conglomeratus	4D..	Sa Senecio aquaticus	.....	Lit Littorella uniflora	Utu	Utricularia vulgaris/LF			
Je Juncus effusus	Q..	Tp Triglochin palustris	.....	Lob Lobelia dortmanna	uts	Utricularia ochroleuca LF			
Lit Littorella uniflora	4D..	Vp Viola palustris	.....	Mal Myriophyllum alterniflorum	2pa*	Zannichellia palustris			
Lyc* Lycopodiella inundata	Q..	Carv Curta O	0	Na Nyphaea alba	Cha	Chara sp			
Ma Mentha aquatica	4F..	On Carex nigra	F	Msp Myriophyllum spicatum	Nit	Nitella sp			
Mt Menyanthes trifoliata	4F..	Cardamine pratensis	R	Na					
Mis Mimulus guttatus .....	.....							
Mil Mimulus luteus .....	.....							
Nsc Nasturtium officinale .....	.....							
Oc Oenanthe crocata .....	.....							
Pha Phalaris arundinacea	4D/A								
Phr* Phragmites australis	4D/A								
Pop Potentilla palustris	O..								
Rfl Ranunculus flammula	O..LF								
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identification confirmed by P. Taylor									
No U. vulgaris specimen identified.									

* species requiring special protection within the HRPB area (Palmer & Newbold 1977)
** species occurring in less than 100 10 x 10 km squares in Great Britain

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TARGET NOTES. L. CILL CHRIOSD. NG612205. 6221

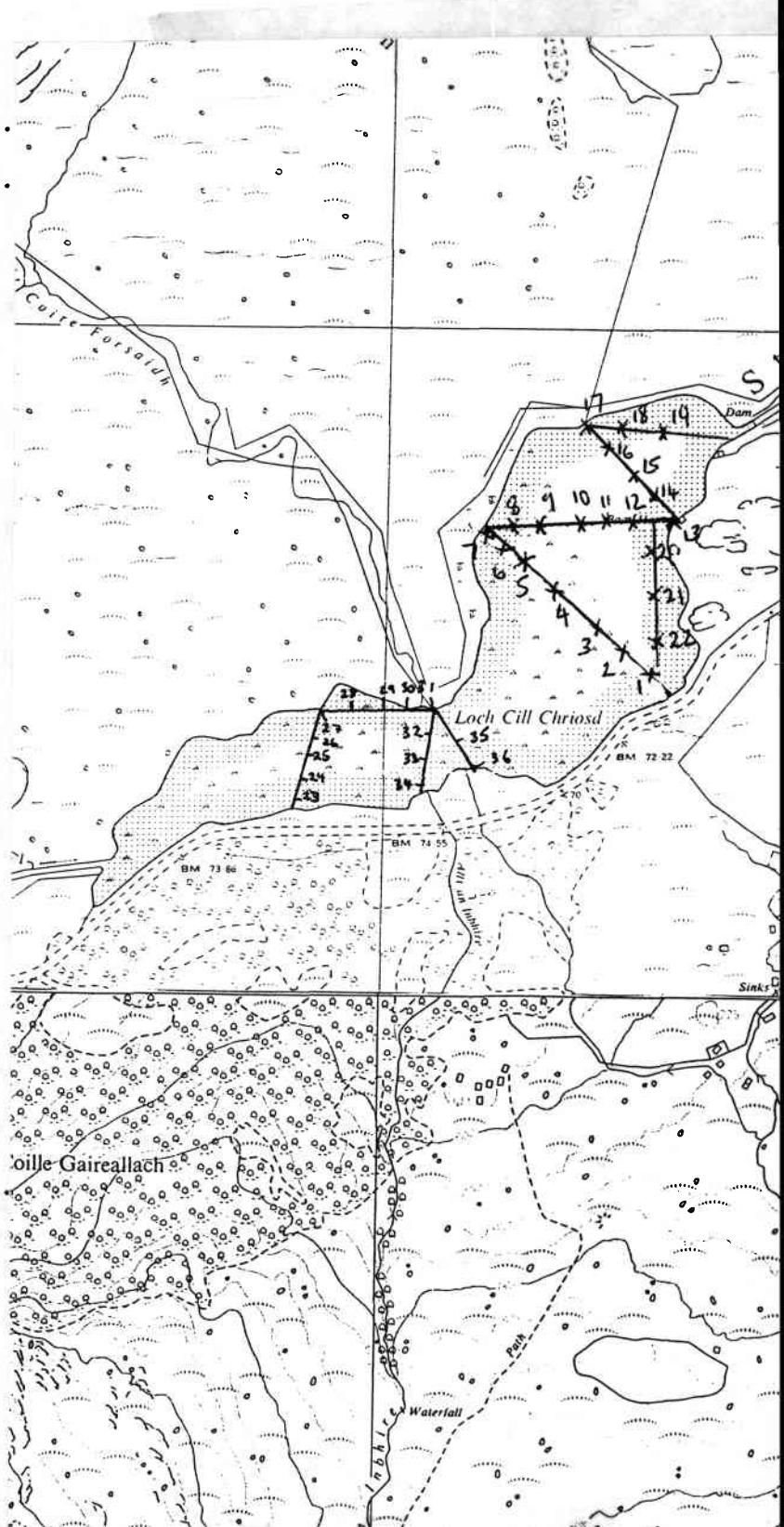
1. Outflow bay. Loch has been dammed to raise water level by approximately 0.5m.
Species present: Bar, (LF), Cxro, Mal. Some Nostock algal balls. Cxro + Bar occur at waters edge with Cxp + Cxd further back grading into grassland and Calluna moor.
2. S1, Bar, Lit, Cap, Ja, Eqf, Pn. Some Lob, Jb occur in more open water.
Water level down to expose \pm 10m of shore with Lit, Eqp + Ja.
3. Wave washed stones and gravel. Little vegetation other than in central corner of bay where Cha, Lit, Mal occur with Ja + Rfl high on the shore.
4. Little vegetation, some Fon.
5. Flush and trickle inflow. Spp present; (Fon, Cha), Cap, Jb, Cxro, Lit, Rfl. Platanthera chlorantha.
6. Elp, Lit + Ja on edge, no plants in water.
7. Phr, Lit, Rfl, Ja, Mal, Elp, (Lob).
8. S1, Phr.
9. Bar, Lob, S1, Pn, Phr, Na, Rfl, Elp.
10. Na/Pn near shore. Phr, Bar, Lit, Lob, Jb. Ese, Cha, Sub.
11. Area of willow carr/swamp. At waters edge; Na, Cxl, Elp, Cxro, Phr, Jb. Phr dominant. Other species present; Rfl, Cxp, Bar, Sa, Cxn, Mt. Pedicularis palustris, Cx curta, Uti type + Jb (terrestrial). Sphagnum, Po:p, Cxe, Bar, Filipendula ulmaria, Eqf, Cardamine pratense, Galium sp, Cap, Ppol, Spa, Je, Epilobium palustre.
12. Phr, Rfl, Ppol, Jb, Uti type, Cxn, Pop, Je (Mt), Cxro, (Era) (Eqf)
13. Phr, Era, Jb, Ja, Cxn, Cxro (Eqf)
By moderate inflow open water with S1 grading into Phr in deeper water.
On shore: Elp, S1, Cxro, (Mal), Lit, Cap, Rfl, Cxd, Cha, Ja.
14. Plu, Spa, with S1/Pn, Phr beyond.
Close to shore, Mal, Rfl, Elp, Cap, Cxd, Lit, Jb, Bar, Cha.
15. S1 LD with Pn LA/LD.
Lit D, Mal, Rfl, Ja, Cha, Jb, Bar, Elm.
16. Wave washed. S1 offshore. Bar, Ja, Rfl, Mal, Elp at edge.
17. Lit, Mal, Elp.

18. Lit, Mal, Elp, Sl, Ja, Rfl.
19. Less vegetation. Phr offshore (Ja, Rfl, Lit).
20. Lit, Elp, Sl.
21. Phr Little Sl at edge.
Na amongst Phr with Pot coloratus. Utv, Lit on shore. Cxro and Cxl.
22. High up on shore Cxro/Cxl, Era, Mt, Cxd, (Phr), Jb (terrestrial), Uti type, Cxp. Spem occurs by inflow.
Phr, Cxro, Jb, Pot, Cap, Angelica.
23. Flush with Pcol.
24. Cxro, Cxn, Mt, Phr, Rfl, Era, Jb.
25. Phr, Lit, Ppol, Jb, Cxro, Cxn, Ja, Bar, Tp.
26. Mal, Bar, Lit, Elp, Ja, Eqp.
27. Elp, Ja, Bar, Cxro, Phr, Ppol, Eqp, Cxe, Era, Pn, Na.
28. Phr, Cxe, Cxn, Na, Era, Bar, Cardamine pratensis.
29. Cxro, Era, Pn, Phr.
30. STREAM MOUTH: Eqf, Cxro, Mt, Pn, Phr, Spmi, Jb, Ja, Cxe, Elm, Era.
31. Cxro, Phr, Jb, Mt, Cxn, Ja, Bar, Era.
32. STREAM MOUTH: Eqf, Cxro, Mt, Pn, Phr, Spmi, Jb, Cxe, Ja, Elm, Era.
33. Cxe, Cxn, Rfl, Cxli, Cxro, Ja, Mt, Cap, Era, Phr.
34. Cap, Cxn, Phr, Elp, C. pratensis, Cxro.
35. Sl, Pn, Phr, Rfl, Elp.
36. Lit, Sl, Ja, Cap, Rfl, Elp.
37. Ip, Cap, Rfl, Lit, Cxd, Fon.
38. Lit, Rfl, Fon, Cap.
39. Mal, Lob.
40. Je.
41. Mal, Sl, Pn, Jb Ja. Cxn.

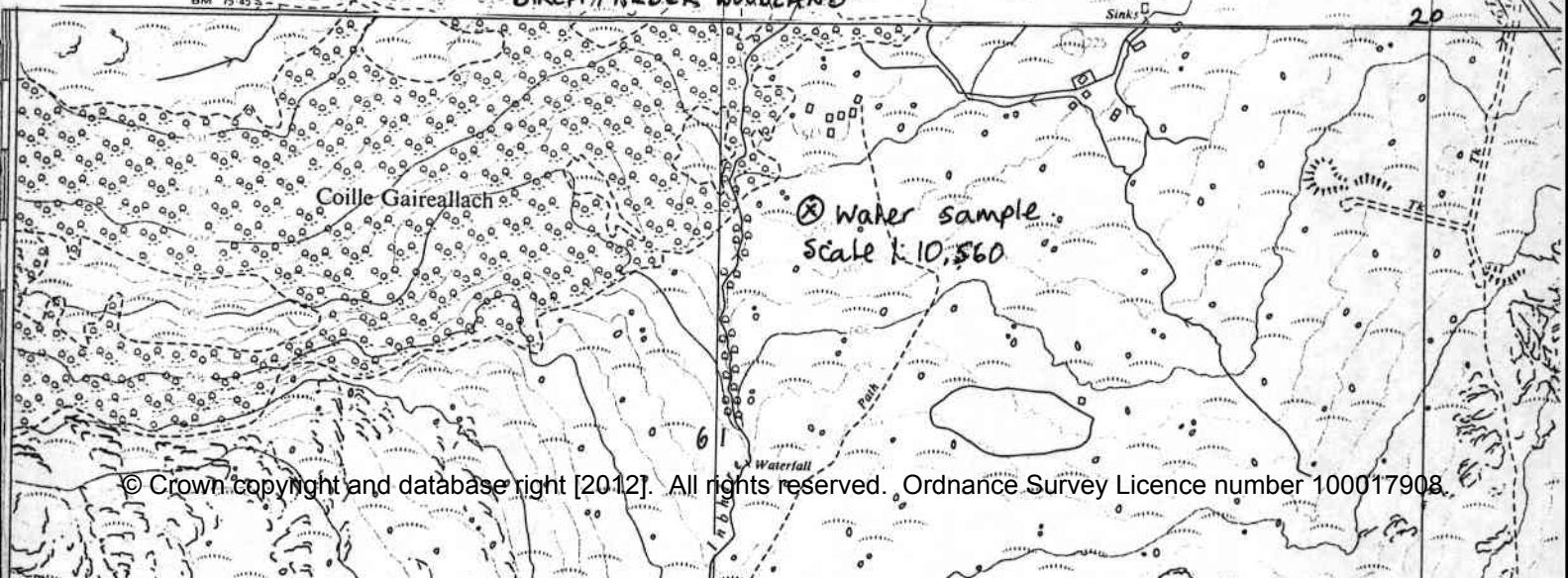
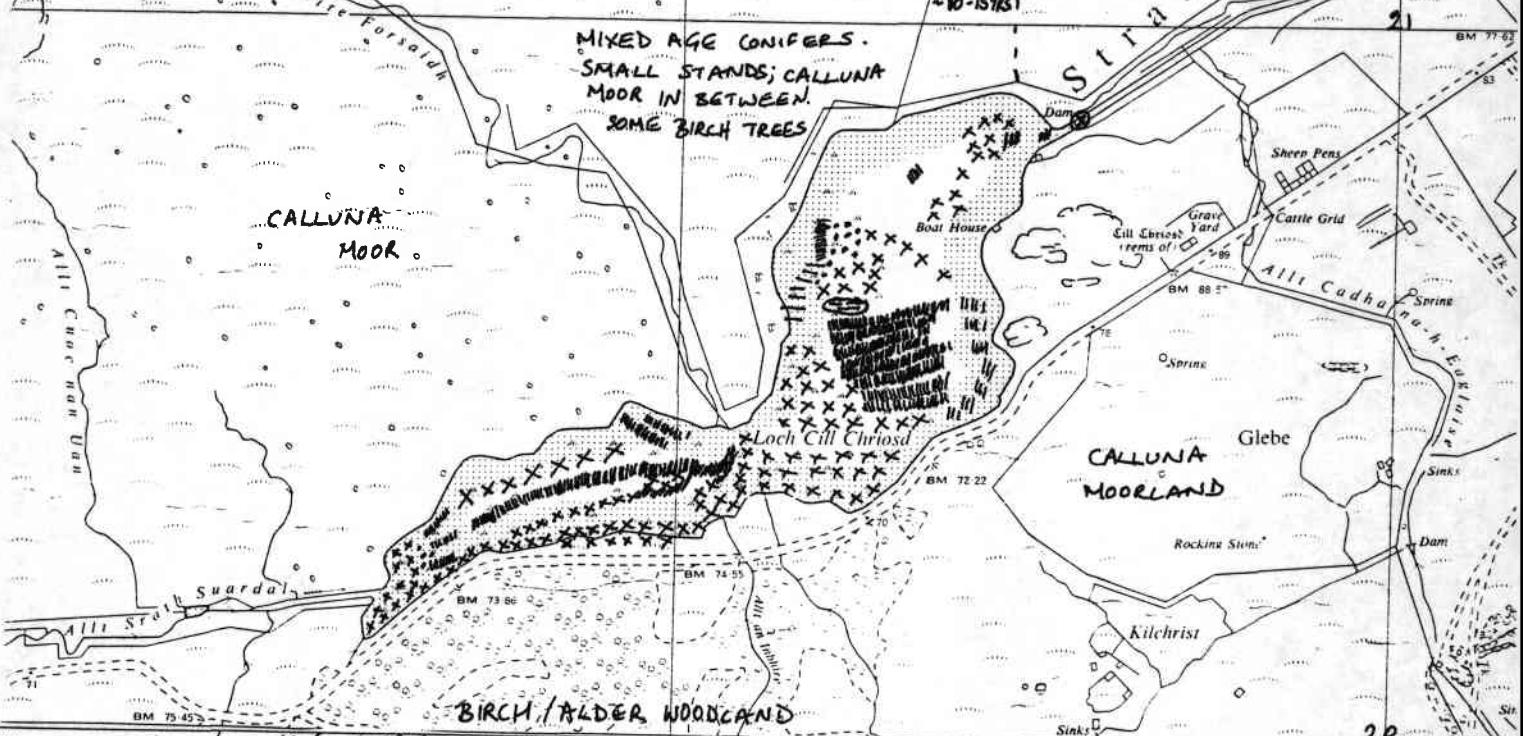
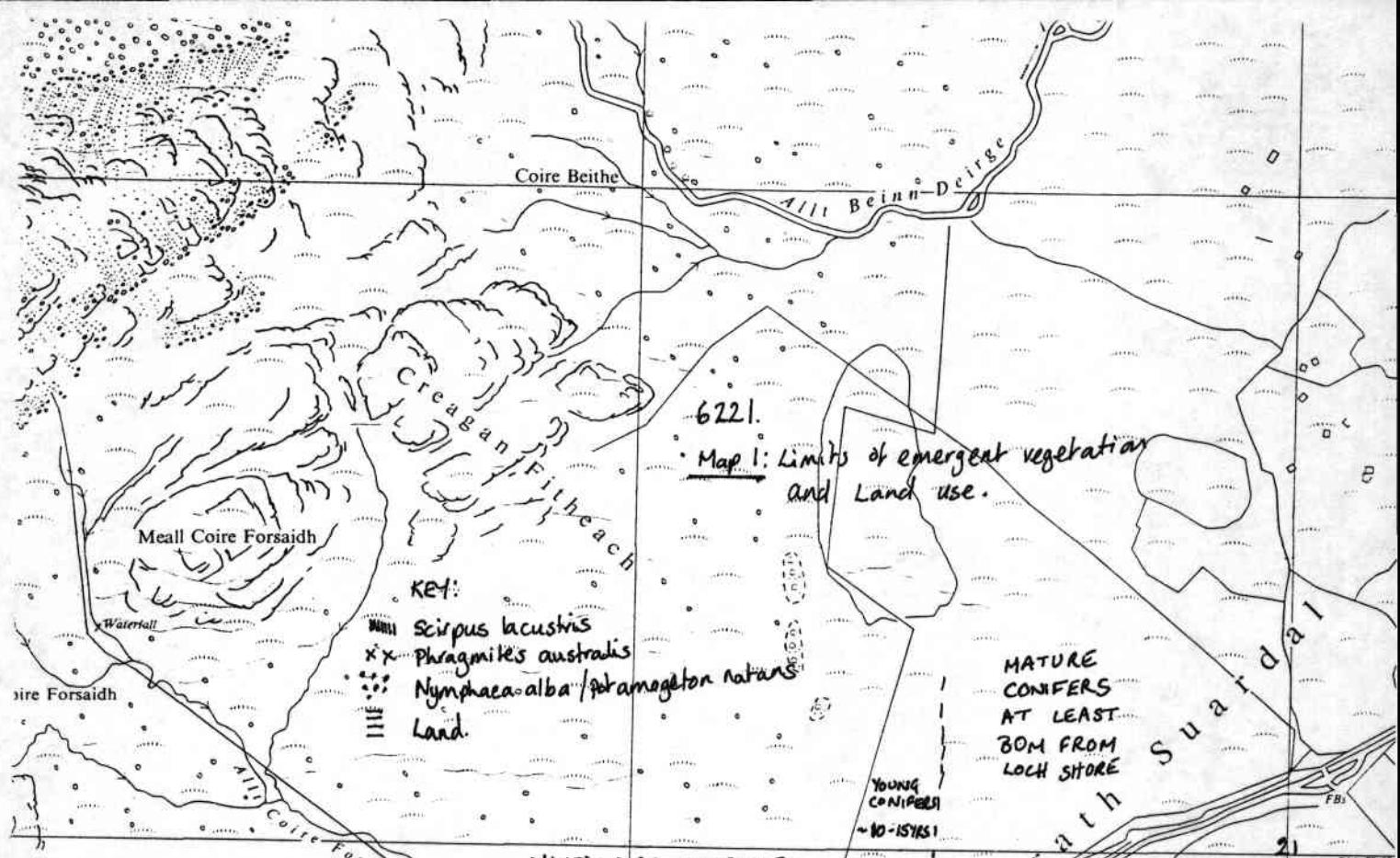
BOAT TRANSECTS. L. CILL CHRIOSD. NG612205. 6221.

Map 3.

1. Fon, Plu, Sl, Spmi.
2. Jb, Pn, Plu, Sl (Fon).
3. Jb, Pn, Na, Sl, Plu, (Fon).
4. Jb, Sl, Pn, Plu, Fon, Spmi.
5. Pn, Sl, Plu.
6. Jb, Fon, Phr, (Plu), (Pn).
7. Jb, Fon, Phr, Spmi, (Plu).
8. Phr, Spmi, Cha, (Plu).
9. Cha, Phr, Plu, Pn, Spmi.
10. Jb, (Cha), (Plu).
11. Fon, Sl, Jb, Pn, Plu.
12. Plu, Fon, Cha, Jb, Pn.
13. Cha, Lit, Pxz, Mal.
14. Lit.
15. Lit, (Lob), Cha, Pxz, Fon.
16. Cha, Fon, Jb.
17. Cha.
18. Cha, Pgr, Sl, Nit.
19. Ut, Cha, Pxz.
20. Plu, Cha, Ut, Fon.
21. Plu, Cha, Fon, Pn, Sl.
22. Pxz, Cha, Fon, Pn, Sl, Plu.
23. Cha, Sl, Phr.
24. Cha, Pn, Fon, Eqf, Sl.
25. Uts, Fon, Cha.
26. Pn, Uts.
27. Uts, Pn, Sl.



28. Pn, Sl, Plu, Uts.
29. Pn, Sl, Plu, Uts.
30. Pn, Sl.
31. Pn, Sl.
32. Pn, Plu, Sl.
33. Na, Phr, Sl, Pn, Plu.
34. Uts, Plu.
35. Na, Phr, Pn, Plu, Jb, Uts.
36. Eqf, Na, Sl.



WATER CHEMISTRY

SKYE AND LOCHALSH - 1989

Loch Name CILL CHRIOSD Grid Reference NG 612205 Code NG 6221

Determinant	Loch Sample	Total Sample (n) mean	Total Sample (n) Standard deviation	Total Sample (n) Range
Ammonia Nitrogen (as N)	ND	0.053	0.058	ND*-0.312
Nitrate (as N)	0.004	0.039	0.065	ND*-0.233
Total Alkalinity (as CaCO ₃)	58.80	11.40	14.34	ND*-58.80
Chloride (as Cl)	26.0	19.6	11.8	5.0-57.0
Ortho Phosphate (as P)	ND	0.0004	0.0001	ND*-0.0050
Total Phosphorus (PO ₄ + P)	0.004	0.004	0.004	ND*-0.024
Aluminium (as Al)	ND	0.022	0.023	ND*-0.086
Calcium (as Ca)	21.33	3.59	3.18	0.42-21.33
Magnesium (as Mg)	5.01	1.70	1.30	0.02-5.98
Potassium (as K)	0.49	0.39	0.27	0.09-1.20
Silicate (as SiO ₂)	0.238	1.473	1.975	0.055-11.477

For all determinants n = 56 except Magnesium n = 50.

ND* - Not Detectable (taken to be zero in calculating total sample means)

Results in mg l⁻¹