

Code NG6221 Name CILL CHRIOSD Grid Ref NG 612205  
 Date 20.06.89 Surveyors S.B./C.N./K.S. Estate DAFS  
 Area 18.0 ha Altitude 30 m Catchment 719 ha Geology LI  
 Water Colour CLLESS Clarity CLEAR Boat used  Secchi disk depth CLEAR TO BOTTOM ~ 4M  
 Loch type 3? Edge type(s) 943, 992, 583  
 Status SSS1 Access 1 Road/houses Present (underline)  
 Land Use % Open Water 3 Semi-natural 94 Forestry 3 Agriculture ---  
Sea distance 2.6 km

Substrate types (underline main type tick others present)

<input checked="" type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Sand (0.1 - 4mm diam.)
<input checked="" type="checkbox"/> Boulders (>30 cm max diam.)	<input checked="" type="checkbox"/> Silt (< 0.1mm diam.)
<input checked="" type="checkbox"/> Stones (5-30cm diam.)	<input checked="" type="checkbox"/> Organic mud
<input checked="" type="checkbox"/> Gravel (4-50mm diam.)	Peat
	<input checked="" type="checkbox"/> Artificial embankment (Road)

Uses and Damage

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

Fauna	Mammals	Reptiles	Dragonflies	Fish
Birds		Amphibians	and other	
Common sandpiper		Toad	Invertebrates	
Mallard + 8 juvs			Ishura elegans	
Common gull + 1 juv.			Sympetrum nigricans	
Laughing				

manmade for salmon fishing Turn of century C1900

Species diversity ..... Detailed water analysis  (3) .....  
 Edge: ..... 21 .....  
 Open Water ..... 22 .....  
 Total ..... 43 .....  
 Conductivity ..... 200 .....  
 pH ..... 7.26 .....

Rare Species

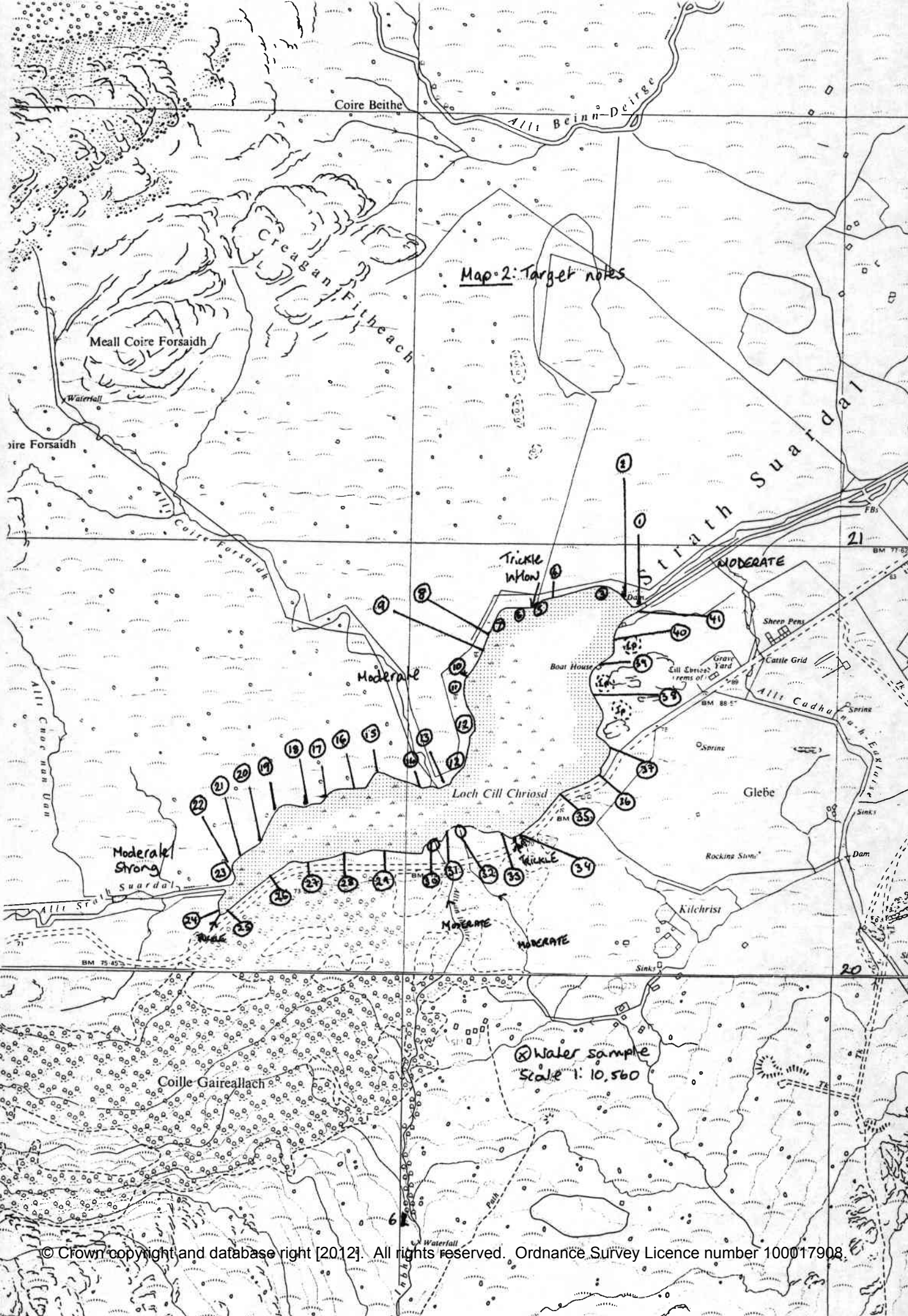
<u>National</u>	<u>Rare in River Purification Board</u>	<u>Other</u>
3 Pc1 Sub Ese	2 plu	

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Map 2: Target notes

⊗ Water sample  
Scale 1: 10,560

**TARGET NOTES. L. CILL CHRISD. NG612205. 6221**

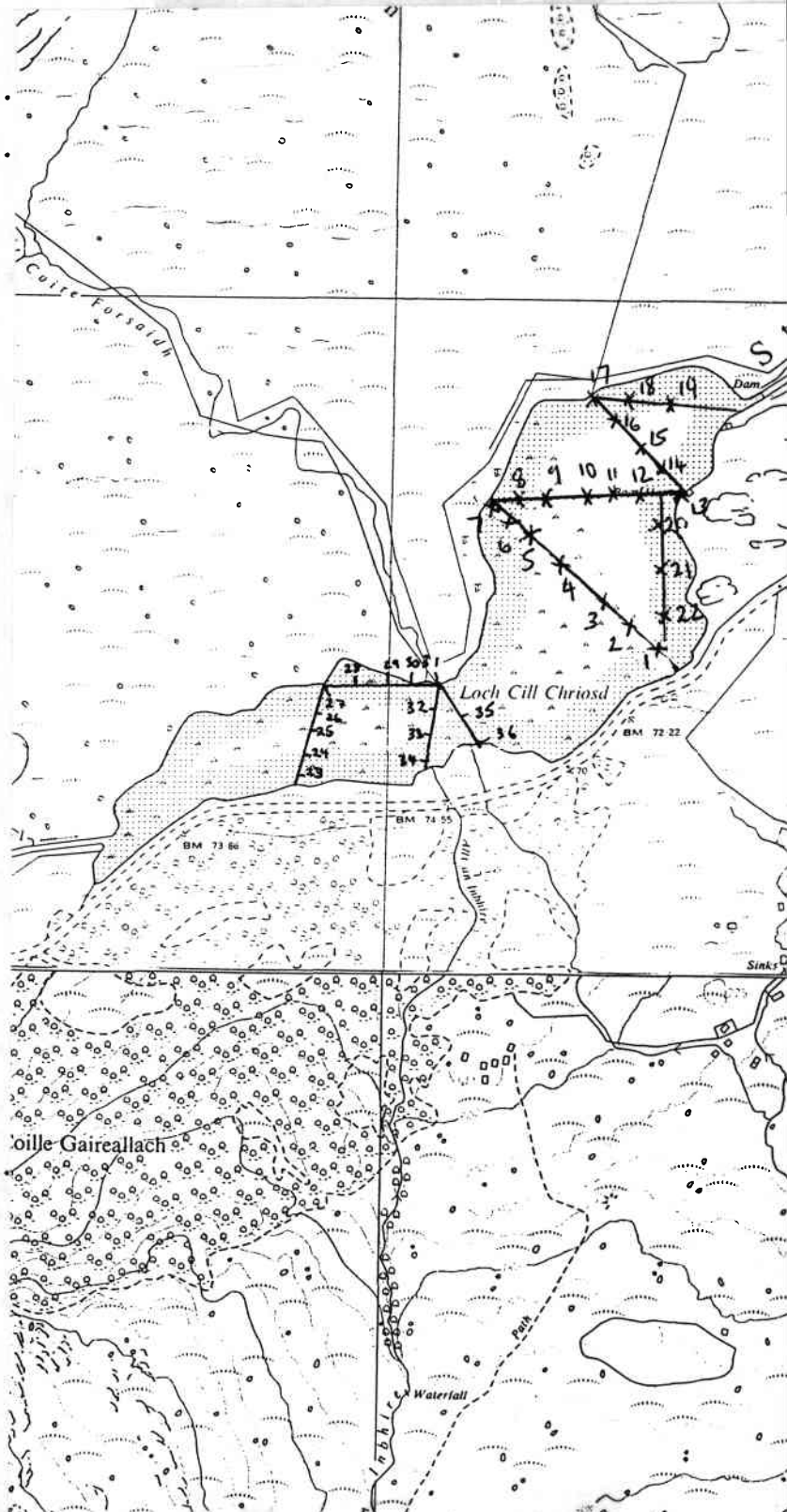
1. Outflow bay. Loch has been dammed to raise water level by approximately 0.5m.  
  
Species present: Bar, (LF), Cxro, Mal. Some Nostock algal balls. Cxro + Bar occur at waters edge with Cxp + Cxd further back grading into grassland and Calluna moor.
2. Sl, Bar, Lit, Cap, Ja, Eqf, Pn. Some Lob, Jb occur in more open water.  
  
Water level down to expose  $\frac{1}{2}$  10m of shore with Lit, Eqf + 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. Sl, Phr.
9. Bar, Lob, Sl, 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 Sl grading into Phr in deeper water.  
On shore: Elp, Sl, Cxro, (Mal), Lit, Cap, Rfl, Cxd, Cha, Ja.
14. Plu, Spa, with Sl/Pn, Phr beyond.  
Close to shore, Mal, Rfl, Elp, Cap, Cxd, Lit, Jb, Bar, Cha.
15. Sl LD with Pn LA/LD.  
Lit D, Mal, Rfl, Ja, Cha, Jb, Bar, Elm.
16. Wave washed. Sl 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.

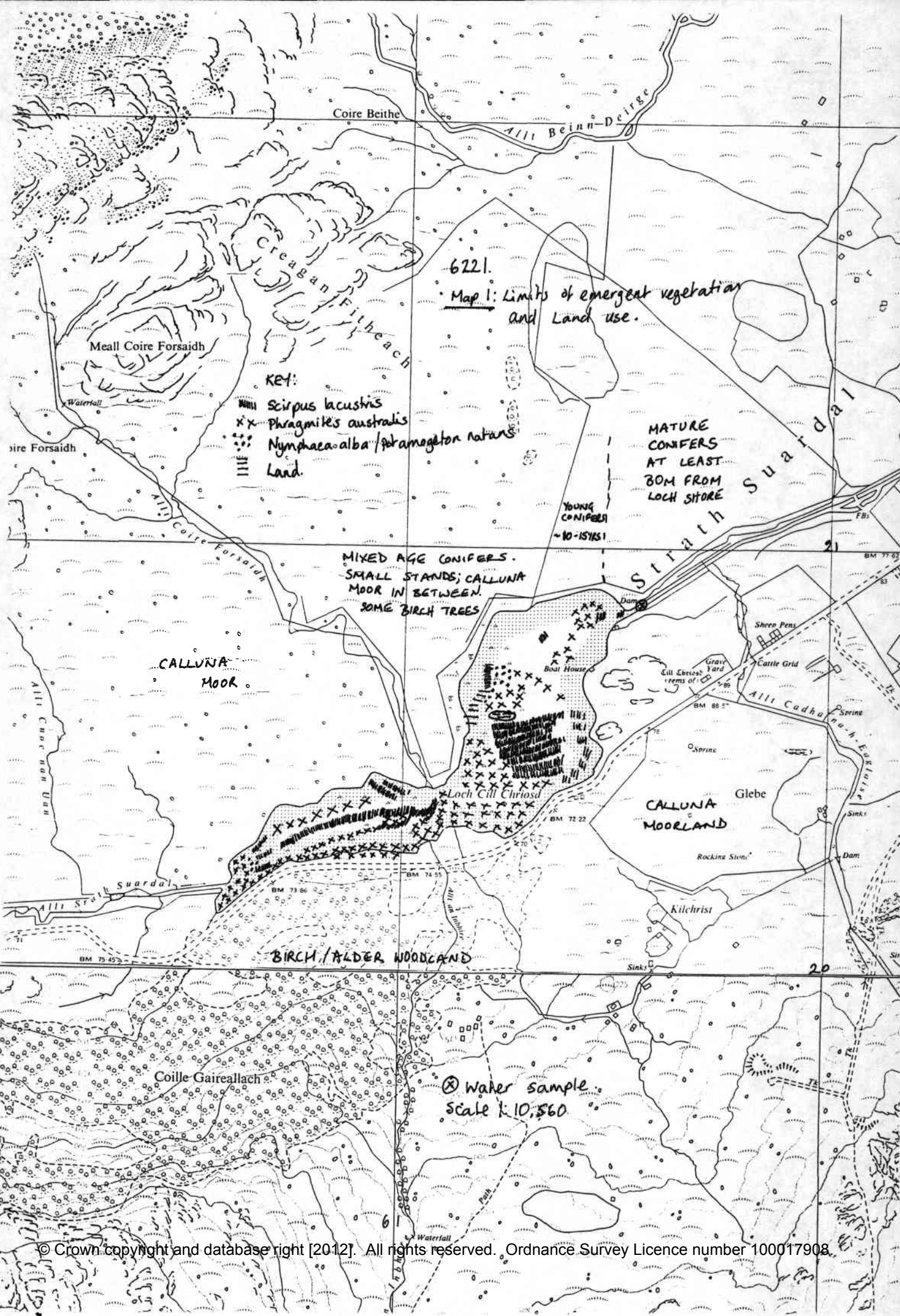
Map 3.

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. Pxn, 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.





Coire Beithe

Allt Beinn-Deirge

Meall Coire Forsaidh

KEY:

- ||||| Scirpus lacustris
- xx Phragmites australis
- Nymphaea alba / Paranajas
- ||||| Land

6221.

Map 1: Limits of emergent vegetation and Land use.

MATURE CONIFERS AT LEAST 30M FROM LOCH SHORE

YOUNG CONIFERS ~10-15YRS

MIXED AGE CONIFERS. SMALL STANDS; CALLUNA MOOR IN BETWEEN. SOME BIRCH TREES

CALLUNA MOOR

Loch Cill Chriosd

CALLUNA MOORLAND

BIRCH/ALDER WOODLAND

⊗ Water sample Scale 1:10,560

Coille Gaireallach

WATER CHEMISTRY

SKYE AND LOCHALSH - 1989

Loch Name Glen Chriosd..... Grid Reference NG612205..... Code NG6221

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 <sub>3</sub> )	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 <sub>4</sub> + 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 <sub>2</sub> )	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<sup>-1</sup>