

1988 DEESIDE LOCH SURVEY

13

2183

2811

Loch name Lochnagar Estate ... Balmoral No No 28/03
 Grid reference NO. 253.860 Date surveyed ... 16th September
 Loch size .. 10.0 ha. Altitude 758 m Surveyor's name ... CE + CH
 Catchment size ... 136.0 ha. Boat used Secchi disk depth
 Water colour .. colourless Water clarity ... clear
 Loch type 3 Edge type(s) ... None
 Catchment Geology Granite

Substrate types (underline main type tick others present)

- 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	AREA AFFECTED	DAMAGE
Water abstraction
Sewage inflow
Agricultural pollution
Edge trampling
Adjacent forestry
Fishing (Edge/boat)
Shooting (Cartridges)
Others

Fauna Mammals Reptiles Dragonflies Fish
Birds Amphibians and other Invertebrates

Species diversity Conductivity: ... 19.1 umhos Detailed water analysis
 Edge: 0 pH : ... 5.48 (Date if different from above)
 Open Water .. 2 ..

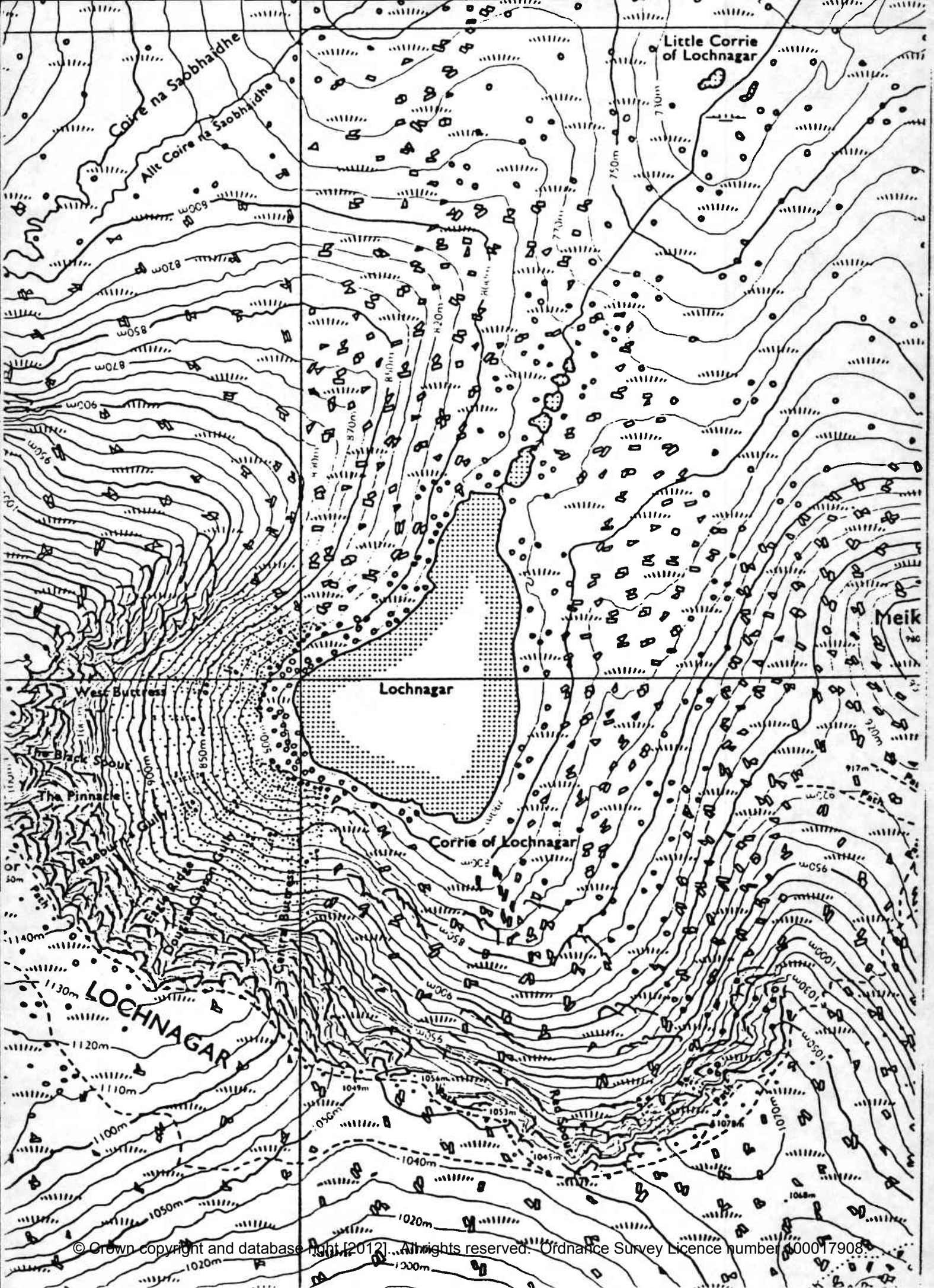
Site name Lachnagar Cr No. 258860 No. 28/03

SUBMERGED AND FLOATING SPECIES

Map code	DAFOR	Map code	DAFOR
Api	.....	Ags	.....
Apium inundatum*	Pper	Cap	.....
Callitriche hamulata	Ppra	Cxa	.....
Callitriche hermaphroditica**	Ppol	Cxl	.....
Callitriche platycarpa	Ppu	Cxli	.....
Callitriche stagnalis	Ra	Cxn	.....
Hippuris vulgaris	Rcr	Cxro	.....
Hydrocotyle vulgaris	SI	Cxv	.....
Isoetes lacustris	LA	Eip	.....
Isoetes setacea**	Spa	Era	.....
Juncus bulbosus var. fluitans	Sub	Glf	.....
Juncus bulbosus var. fluitans	Uti	Hip	.....
Lemna minor (* in NW)	Ue	Hyd	.....
Littorella uniflora	Uva	Ip	.....
Myriophyllum alterniflorum	Une	Ja	.....
Myriophyllum spicatum	Zan	Jb	.....
Nymphaea alba	Cha	Je	.....
Nuphar pumila	Nit	Lit	.....
Pilularia globulifera**	Fon	Lyc	.....
Polygonum amphibium	Lob	Lyp	.....
Potamogeton alpinus	.....	Ma	.....
Potamogeton bertholdii	.....	Mt	.....
Potamogeton crispus*	.....	Mg	.....
Potamogeton filiformis**	.....	Mon	.....
Potamogeton friesii**	.....	Myl	.....
Potamogeton gramineus	.....	Msc	.....
Potamogeton natans	.....	Nas	.....
Potamogeton X nitens	.....	Pa	.....
Potamogeton obtusifolius	.....	
Potamogeton pectinatus	.....	

EMERGENT AND EDGE SPECIES:

Map code	DAFOR	Map code	DAFOR
Agrostis stolonifera	Pha	.....
Caltha palustris	Pan	.....
Carex aquatilis**	Pop	.....
Carex lasiocarpa	Rfl	.....
Carex limosa	Ris	.....
Carex nigra	Sl	.....
Carex rostrata	Sper	.....
Carex vesicaria	Spec	.....
Eleocharis palustris	Vb	.....
Eriophorum angustifolium	Vaa	.....
Glyceria fluitans	Vs	.....
Hippuris vulgaris	Ef	.....
Hydrocotyle vulgaris	Ep	.....
Iris pseudacorus		
Juncus articulatus		
Juncus bulbosus		
Juncus effusus		
Littorella uniflora		
Lycopodiella inundata**		
Lythrum portula		
Mentha aquatica		
Menyanthes trifoliata		
Mimulus guttatus		
Montia fontana		
Myosotis laxa/caespitosa		
Myosotis scorpioides		
Nasturtium officinale		
Phalaris arundinacea		



Species records

Dwarf Cornel

Genista anglica

Gnaphalium supinum

Saxifraga stellata

J.bulbosus var fluitans LF?

Isoetes lacustris LA

Species around Loch Edge

Vaccinium myrtillus LD

v.vitis idaeus

v.uliginosum

Rubus chamaemorus

Saxifraga stellaris R.

Lycopodium alpinus

Alchemilla alpina

Mountain azalea

Chamaepericlymenum suecicum

On mountain tops, Juncus trifidus

WATER CHEMISTRY

DEESIDE LOCHS

1988

TOTAL DEESIDE
SAMPLE OF 10 LOCHS

	Loch .. LOCHNAGAR.....	Sample	Sample
	GR ... NO... 253860...	mean	range
Potassium K mg/l	..... 0.25.....	0.57	0.05 - 1.30
Calcium Ca mg/l	..... 0.43.....	4.1	0.27 - 11.00
Magnesium Mg mg/l	..... 0.36.....	1.50	0.18 - 3.60
Aluminium Al mg/l	..... 0.047.....	0.029	<0.010 - 0.059
Chlorine Cl mg/l	..... 1.8.....	9.3	1.5 - 24.0
Silica Si mg/l	..... 1.20.....	2.36	0.12 - 5.70
Phosphorus P mg/l	..... <0.005.....	0.018	<0.005 - 0.051
Phosphate PO ₄ mg/l	..... <0.005.....	<0.005	<0.005 - 0.008
Nitrate NO ₃ mg/l	..... 0.150.....	0.207	0.021 - 0.880
Ammonium NH ₄ mg/l	..... <0.10.....	<0.11	<0.10 - 0.18
Alkalinity Ca CO ₃ mg/l	..... 1.00.....	8.95	0.60 - 22.00