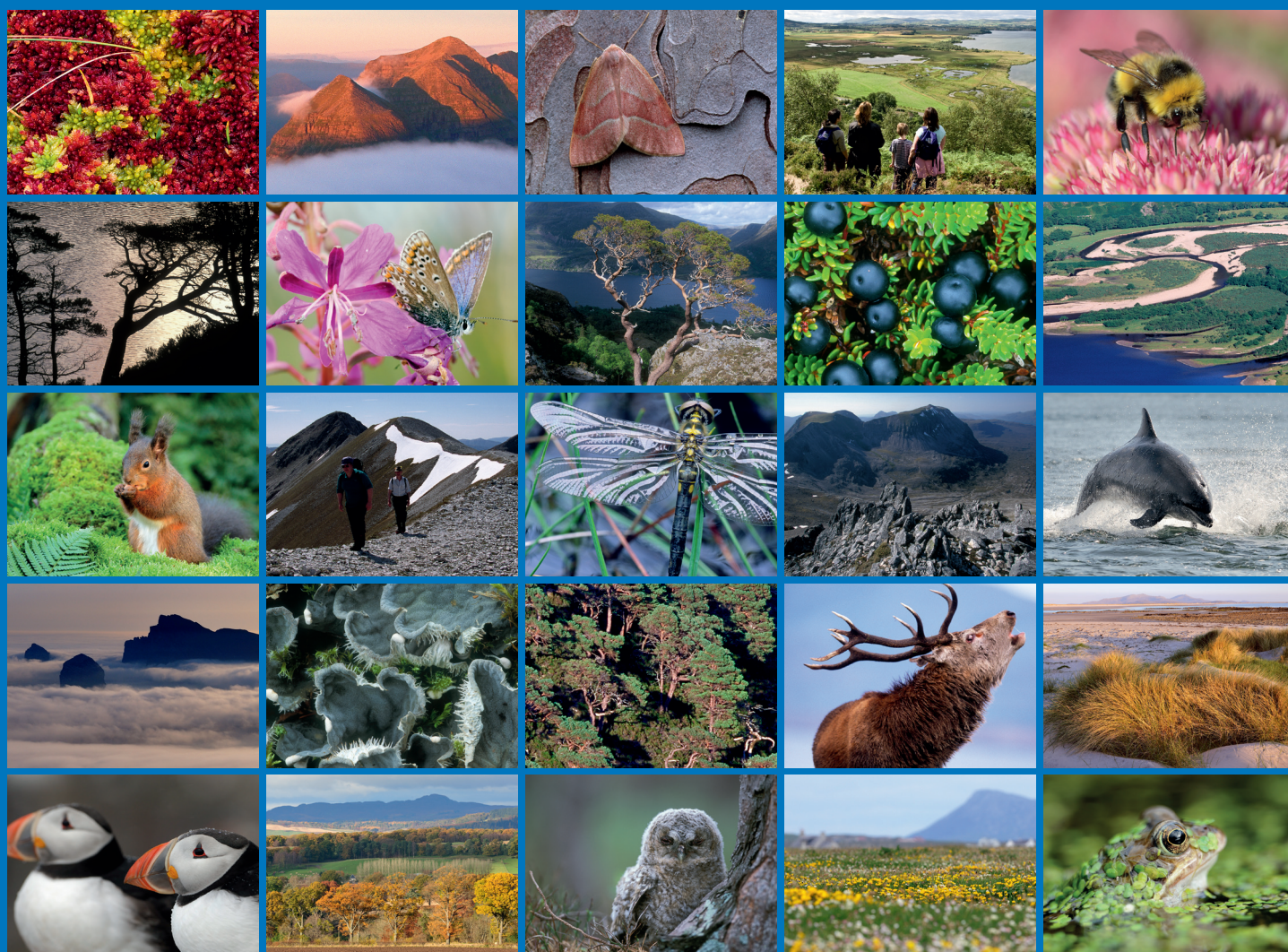


Site Condition Monitoring of beetle assemblage features at eight designated sites in Scotland





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RESEARCH REPORT

Research Report No. 1116

Site Condition Monitoring of beetle assemblage features at eight designated sites in Scotland

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SCM Reports

This report was commissioned by SNH as part of the Site Condition Monitoring (SCM) programme to assess the condition of special features (habitats, species populations or earth science interests) on protected areas in Scotland (Sites of Special Scientific Interest, Special Areas of Conservation, Special Protection Areas and Ramsar). Site Condition Monitoring is SNH's rolling programme to monitor the condition of special features on protected areas, their management and wider environmental factors which contribute to their condition.

The views expressed in the report are those of the contractor concerned and have been used by SNH staff to inform the condition assessment for the individual special features. Where the report recommends a particular condition for an individual feature, this is taken into account in the assessment process, but may not be the final condition assessment of the feature. Wider factors, which would not necessarily be known to the contractor at the time of the monitoring, are taken into consideration by SNH staff in making final condition assessments.



RESEARCH REPORT

Summary

Site Condition Monitoring of beetle assemblage features at eight designated sites in Scotland

Research Report No. 1116

Project No: 113952

Contractor: Caledonian Conservation Ltd

Year of publication: 2020

Keywords

SCM; beetle assemblage; Coleoptera; aquatic; freshwater invertebrates; lochs; bogs; *Hydroporus*

Background

This contract was set out to carry out site condition monitoring (SCM) of beetle assemblages during 2015 at eight Sites of Special Scientific Interest (SSSIs) in Scotland: Blind Moss, Carrick Ponds, Dunhog Moss, Lindean Reservoir, Lurgie Loch, Mount Bog, Perchhall Loch and Rinns of Islay. The outputs comprise data sets, reports for each site, and recommendations for future management of these features.

Main findings

We found the target notified features at Lurgie Loch and Perchhall Loch, and a subset of species at Blind Moss, Dunhog Moss, Lindean Reservoir, Mount Bog and Rinns of Islay. We did not find the notified features at Carrick Ponds, although this was the most speciose SSSI surveyed in 2015. Especially relevant discoveries were the Nationally Scarce *Acilius canaliculatus* at Carrick Ponds, the Red Data Book *Hydroporus glabriusculus* at Dunhog Moss and Lindean Reservoir (both sites with historic records for the species) and the Nationally Scarce *Helophorus strigifrons* at Lurgie Loch.

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1. INTRODUCTION

This report describes the site condition monitoring (SCM) undertaken in 2015 for aquatic beetle assemblages at eight Sites of Special Scientific Interest (SSSIs): Blind Moss, Carrick Ponds, Dunhog Moss, Lindean Reservoir, Lurgie Loch, Mount Bog, Perchhall Loch and Rinns of Islay. The features surveyed were specified by SNH. Figure 1.1 shows the locations of the sites assessed.

Survey and identification work was completed by Garth Foster. Names of the species mentioned in the text followed Foster & Friday (2011) and Foster *et al.* (2014).



Figure 1.1. Geographic locations of Sites of Special Scientific Interest assessed.

Table 1.1 defines the rarity designations used in describing the conservation status of species recorded. The rarity designations do not indicate the reason for the inclusion of any given species as an invertebrate feature – they are included here for context only.

Table 1.1. Invertebrate conservation status/rarity designations

Abbreviation	Designation	Definition
Annex II	Annex II	Species listed under Annex II of the Council Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora, more commonly referred to as the EC Habitats Directive.
Schedule 5	Schedule 5	Species listed under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended).
SBL	Scottish Biodiversity List	Included on the Scottish Biodiversity List. This list defines species and habitats which require special consideration under the Biodiversity Duty placed on public bodies by the Nature Conservation (Scotland) Act 2004 and Wildlife and Natural Environment (Scotland) Act 2011.
RDB1	Red Data Book 1	Endangered: Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating. Included are taxa which are known from a single location or only one 10 km square, taxa which occur in habitats known to be especially vulnerable, and taxa which have shown a continuous decline over the last 20 years and now exist in five or fewer 10 km squares (Shirt, 1987; Bratton, 1991).
RDB2	Red Data Book 2	Vulnerable: Taxa believed likely to move into the Endangered (RDB1) category in the near future. This includes taxa of which most or all populations are declining as a result of over-exploitation, extensive destruction of habitat or other environmental factors; taxa with populations that have been seriously depleted and whose ultimate security is not yet assured; and taxa with populations that may still be abundant but are under threat from serious adverse factors throughout their range (Shirt, 1987; Bratton, 1991).
RDB3	Red Data Book 3	Rare: Taxa with small populations that are not at present Endangered (RDB1) or Vulnerable (RDB2), but are at risk. In the UK this is considered to be species which exist in 15 or fewer 10 km squares (Shirt, 1987; Bratton, 1991).
RDBK	Red Data Book K	Insufficiently Known: Taxa suspected to fall within categories RDB1, RDB2 or RDB3 but which are data deficient and so cannot be assigned to other Red Data Book categories with confidence (Shirt, 1987; Bratton, 1991).
NS	Nationally Scarce	Recorded in 16-100 10 km squares since January 1 1980. Nationally scarce replaces the Nationally Notable A (Na) (recorded in 16-30 10 km squares since 1 January 1980) and Nationally Notable B (Nb) (recorded in 31-100 10 km squares since 1 January 1980) designations.

All photos are provided in the Annex 1. Full details of records for each site are provided in Annex 2.

2. METHODS

2.1 Desk study

We searched the aquatic Coleoptera Recording Scheme for Britain and Ireland for historic records for each site. This database holds nearly half a million records, of which only about 284,000 are available on NBN, and includes the details of the last three SCM surveys for all SSSIs assessed in this report.

2.2 Aquatic Coleoptera

We selected sampling points to represent the range of habitats available. At each point we worked an area of 2 m² with a D-framed net, mesh size 1 mm, then sorted the netted debris in the field. We identified and counted the majority of beetles in the field and returned them to the water. Specimens unidentifiable in the field were kept for confirmation and as vouchers. Each site was worked until no more species could be found (“inventory samples”). Inevitably there were exceptions based on the nature and condition of the habitat, for example the need to extract in the laboratory the samples collected in the winter at Lurgie Loch. Voucher material was either preserved in methylated spirits or card-mounted.

3. SITE REPORTS

3.1 Blind Moss

3.1.1 Site description

This is a permanent basin fen on an upland plateau covering an area of 7.3 ha. The vegetation is dominated by sedges and mosses. There is open water at the east end, although much less in extent than as indicated on the Ordnance Survey map (Figure 3.1). This is probably because the site is in transition, with the centre partly raised and covered with ombrotrophic bog and in which there are some small (approximately 1 m across) mossy pools. The edge has a few ‘well-eyes’ releasing spring water which, along with runnels through the site to the west, result in a great diversity in water chemistry and vegetation. This site is also designated for its basin fen habitat.

3.1.2 Summary of known Coleoptera interests

The citation numbers 30 species of aquatic beetles for the site, although the true number is 50, as confirmed during the 2010 SCM. These include *Hydroporus elongatulus*, *H. longicornis*, and *H. morio*, as indicated on the citation.

Hydroporus elongatulus RDB3 SBL

H. elongatulus is found in shallow waters around the edges of Scottish lochs. Specimens are mostly found in temporary areas of stagnant, base-rich fen. *H. elongatulus* has been recorded in several southern Scottish vice-counties and also Norfolk and Suffolk.

Hydroporus longicornis

H. longicornis is associated with slow-flowing seepages amongst dense mossy vegetation, primarily on a peat substrate and base-poor water. In the north of England and Scotland, this species is found in open habitats, whereas in the south of its range it can be found in shady situations. *H. longicornis* has never been found in modified habitats, therefore it can be considered an indicator of habitat condition.

Hydroporus morio

This species is typically found in shallow acid pools with matted dead grasses and *Sphagnum* at the edges of larger pools. *H. morio* has been recorded on all Scottish mountain systems, although it can be found at lower levels in the Flow Country.

3.1.3 Methods

We took eight inventory samples on 11 August 2015. These included the inflows and associated marsh, a well-eye, the loch edge, and mossy pools in the central raised area (Table 3.1). Sample locations shown in Figure 3.1.

Table 3.1. Sample locations and descriptions in Blind Moss SSSI on 11 August 2015

Sample number	Grid reference	Site description
1	NT45791850	Inflow on peaty gravel
2	NT45781847	Hard-bottomed marsh
3	NT45781844	Inflow into marsh
4	NT45801851	Pool in mossy swamp
5	NT45811851	Pool in mossy swamp
6	NT45931853	Well-eye
7	NT46061853	Open water, remains of loch
8	NT45921848	Pool in raised central area

3.1.4 Results

We found 31 wetland beetle species. These included the target species *H. elongatulus* (RDB3, SBL) and *H. longicornis*, which were found in different mossy pools.

Another interesting beetle found was *Chaetarthria seminulum* sens. str. (NS), the scarcer of the two taxa when *C. simillima* was recognised as a separate species. This hydrophilid beetle is widespread, found amongst moss in rafts of vegetation usually with a more exposed mineral substrata.

Gyrinus substriatus, *Hydroporus planus*, *Ilybius ater*, *Rhantus exsoletus*, *Microcara testacea*, *Plateumaris sericea*, *Hydrobius fuscipes* sens. str. and *H. subrotundus* (the last two recently split from *Hydrobius fuscipes* sens. lat.) were other additions to the inventory.

3.1.5 Site condition evaluation

The site continues to offer a range of freshwater habitats that support an assemblage of aquatic Coleoptera, in particular the mossy pools such as in Sample 5 (Photo 3.1), and other habitats such as inflowing water (Photo 3.2), marshy ground, well-eyes (Photo 3.3) and the remains of a loch (Photo 3.4). The site is considered to be in excellent condition, with more species present than specified in the citation and with two key species continuing to be recorded. The missing species, *H. morio*, has not been seen since 1976, and, as a boreo-alpine species sensitive to climate change, has disappeared from much of the south of its range in Scotland. As such, *H. morio* may no longer be present at the site.

3.1.6 Site management recommendations

A site map should be prepared, identifying at the very least the current extent of open water and the raised central area. This will make it easier to decide the rate at which the site is changing.

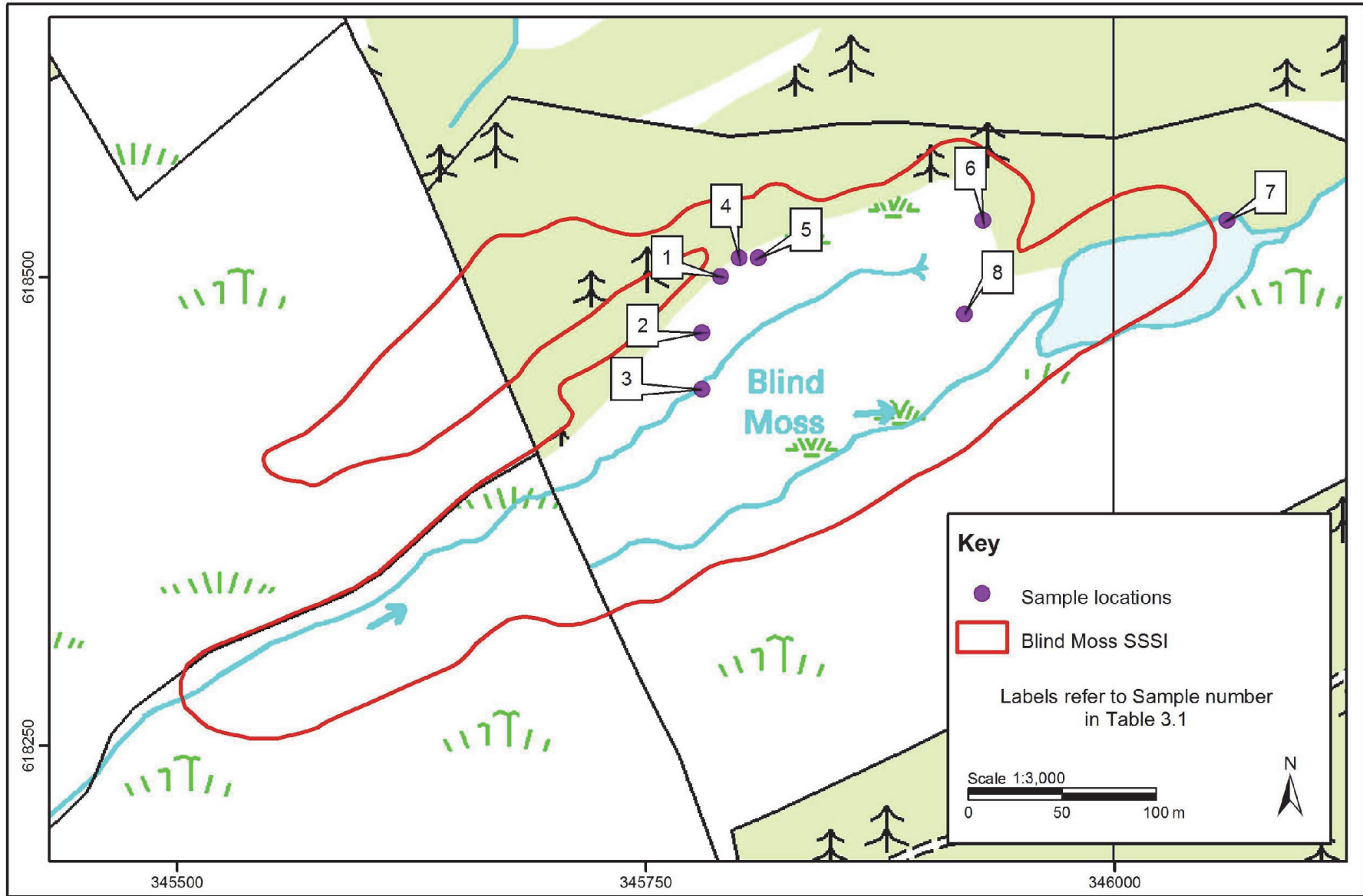


Figure 3.1. Sample locations at Blind Moss SSSI

3.2 Carrick Ponds

3.2.1 Site description

This site lies within semi-improved grassland and comprises a series of pools and mires within a 45-ha area on the Solway Coast. The aquatic systems are diverse, including open water with pH ranging from 5.2 to 9.5. Despite being on the coast, the site has no brackish water. Blunt-leaved pondweed (*Potamogeton obtusifolius*) and alternate water-milfoil (*Myriophyllum alterniflorum*) are present as well as stands of other sedges, rushes and cotton grasses. This site is also notified for its basin fen.

3.2.2 Summary of known Coleoptera interests

The citation notes that this site has been rated as the fifth most important in south Scotland for water beetles, with 81 species. Nevertheless, only two species were named on the citation, *Donacia obscura* and *Helophorus strigifrons*. The site also supports many species on the northern edge of their distribution, including *Rhantus grapii*, which is new for Scotland (Foster, 2014).

Donacia obscura NS SBL

D. obscura is a reed beetle found in boggy situations on vegetation dominated by sedges and club-rushes in close proximity to acidic water bodies. This species has a northern and western distribution in the UK.

Helophorus strigifrons NS

This helophorid beetle is predatory as a larva but herbivorous as an adult, feeding on decaying vegetable matter. *H. strigifrons* is associated with rush and sedge litter in temporary marshes.

3.2.3 Methods

We took 10 inventory samples from eight water bodies in July and August 2015. Sample locations are described in Table 3.2 and shown in Figure 3.2.

Table 3.2. Sample locations and descriptions in Carrick Ponds SSSI

Pool number	Grid reference	Date	Site description
3	NX58255065	9 July	Overgrown pond
2	NX58145059	9 July	Fen edge in large pond
4	NX58295085	9 July	Shaded fluctuating pond
6	NX58435049	15 July	Schwingmoor
5	NX58385058	15 July	Schwingmoor surrounded by mud
7	NX58145039	15 July	North end of large Schwingmoor
7	NX58055032	15 July	South end with <i>Sphagnum</i> bog
10	NX57825011	15 July	Schwingmoor with <i>Schoenus nigricans</i> fen
8	NX58045023	15 July	Shallow pond
2	NX58145059	29 August	Fen edge in large pond
3	NX58255064	29 August	Overgrown pond

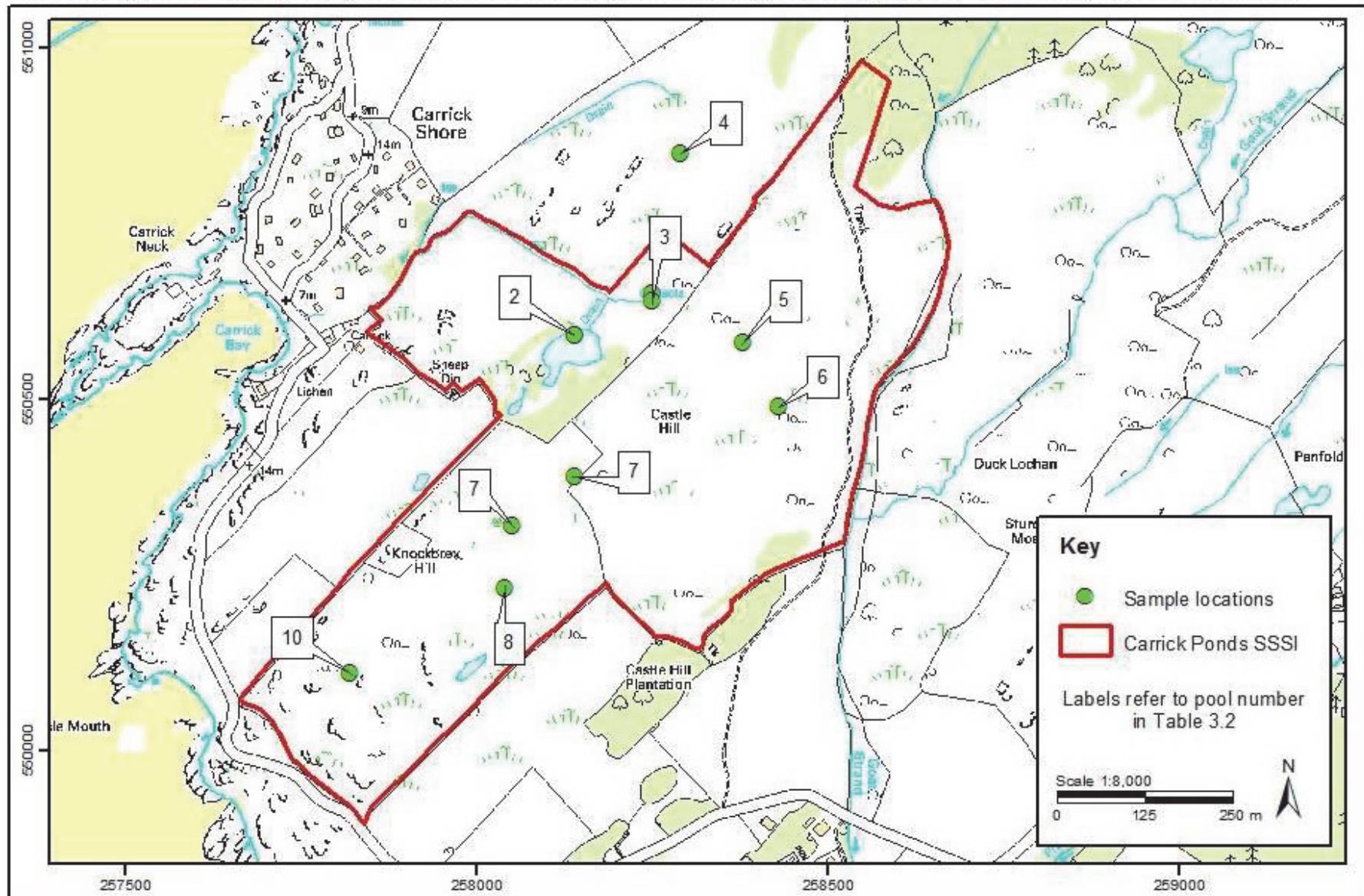


Figure 3.2. Sample locations at Carrick Ponds SSSI

3.2.4 Results

We found 56 species of water beetle, so now 95 species are known from the SSSI. *Donacia obscura* and *Helophorus strigifrons* were not recorded and have not been found since the 1980s, but several scarce species such as *Acilius canaliculatus*, *Enochrus ochropterus* and *Graptodytes granularis* were encountered.

Acilius canaliculatus is a dytiscid beetle known from peat cuttings in shallow, well-vegetated pools. This species is most frequent in the Scottish Borders but is known from the Black Isle and the Kent and Sussex Levels.

The site continues to support species on their extreme northern distribution in Europe, e.g., *Rhantus grapii*, *Liopterus haemorrhoidalis*, *Enochrus testaceus*, *Cymbiodyta marginellus* and *Scirtes hemisphaericus*.

3.2.5 Site condition evaluation

The site continues to offer a wide range of freshwater habitats that support many aquatic Coleoptera, in particular transition mire pools such as pool 6 (Photo 3.5) and pool 7 (Photo 3.6), and developing vegetation rafts in pool 4 (Photo 3.7) and pool 5 (Photo 3.8). Open water habitats are best developed in the large pool 2 (Photo 3.9) and under shade in pool 4 (Photo 3.7). Pool 2 now has an almost continuous cover of vegetation dominated by bogbean (*Menyanthes trifoliata*) following the reduction in cattle numbers. The small pool 8 (Photo 3.10) is important as the most acid (pH 5.2) of the system, with an abundance of *Liopterus haemorrhoidalis*. Pool 10 (Photo 3.11) is particularly special, with black bog rush (*Schoenus nigricans*) dominating in a shallow fen fed from well-eyes, the only area supporting *Graptodytes granularis*.

SCM of this site yielded 36 species in 2005 and 53 species in 2010. With 56 species recorded in 2015, there is no doubt that the site continues to be in excellent condition.

3.2.6 Site management recommendations

The habitat management of grassland is excellent and clearly benefits the diversity of aquatic Coleoptera. The inclusion of Syllodioch pond (NX587528) within the SSSI would extend the coverage of open water and fen habitats, therefore increasing the habitat and species diversity of the site, as well as protecting a more sustainable system.

3.3 Dunhog Moss

3.3.1 Site description

The site comprises an elongated basin mire of approximately 3.2 ha in an exposed upland area (Photo 3.12). The vegetation is dominated by tussock-forming sedges with fen carr developing in the centre (Photo 3.13). The site is fed by groundwater that pours mainly from well-eyes (Photo 3.14). This site is also designated for its basin fen habitat.

3.3.2 Summary of known Coleoptera interests

This is one of the few sites in the Scottish Borders to have a high diversity of water beetle species; the citation claims over 30 species, including *Hydroporus glabriusculus* and *Laccornis oblongus*.

Hydroporus glabriusculus RDB2 SBL

This diving beetle is restricted to undisturbed bog and fen systems, particularly where the surface is broken up into small pools of quaking bogs. Bilton (1992) emphasised the importance of mossy pools for *H. glabriusculus* breeding. This species has a limited distribution, largely southern Scotland (Borders) and the 'pingo fens' of Norfolk.

Laccornis oblongus

This species is frequent in the mosses of the Scottish Borders, but has been recorded as far north as Insh Marshes and west as Dumfries and Galloway. It is confined to old fen systems and usually found in very small bodies of water.

3.3.3 Methods

We took 13 inventory samples in June and October 2015. Sample locations are described in Table 3.3 and shown in Figure 3.3.

Table 3.3. Sample locations and descriptions in Dunhog Moss SSSI

Sample number	Grid reference	Date	Site description
1	NT47222466	8 June	Outflow sump
2	NT47242465	8 June	Swamp pool
3	NT47262463	8 June	Isolated pool under willow
4	NT47252463	8 June	Swamp with tussocks
5	NT47272462	8 June	Edge of well-eye
6	NT47332462	8 June	Puddles in deer track
7	NT47242464	22 October	Shaded edge to flooded area
8	NT47222463	22 October	Mossy edge to flooded area
9	NT47242463	22 October	Pool with tussocks
10	NT47252462	22 October	Mossy edge to flooded area
11	NT47272462	22 October	Very shallowly flooded moss
12	NT47272462	22 October	Edge of well-eye
13	NT47302462	22 October	Flooded moss below tussocks

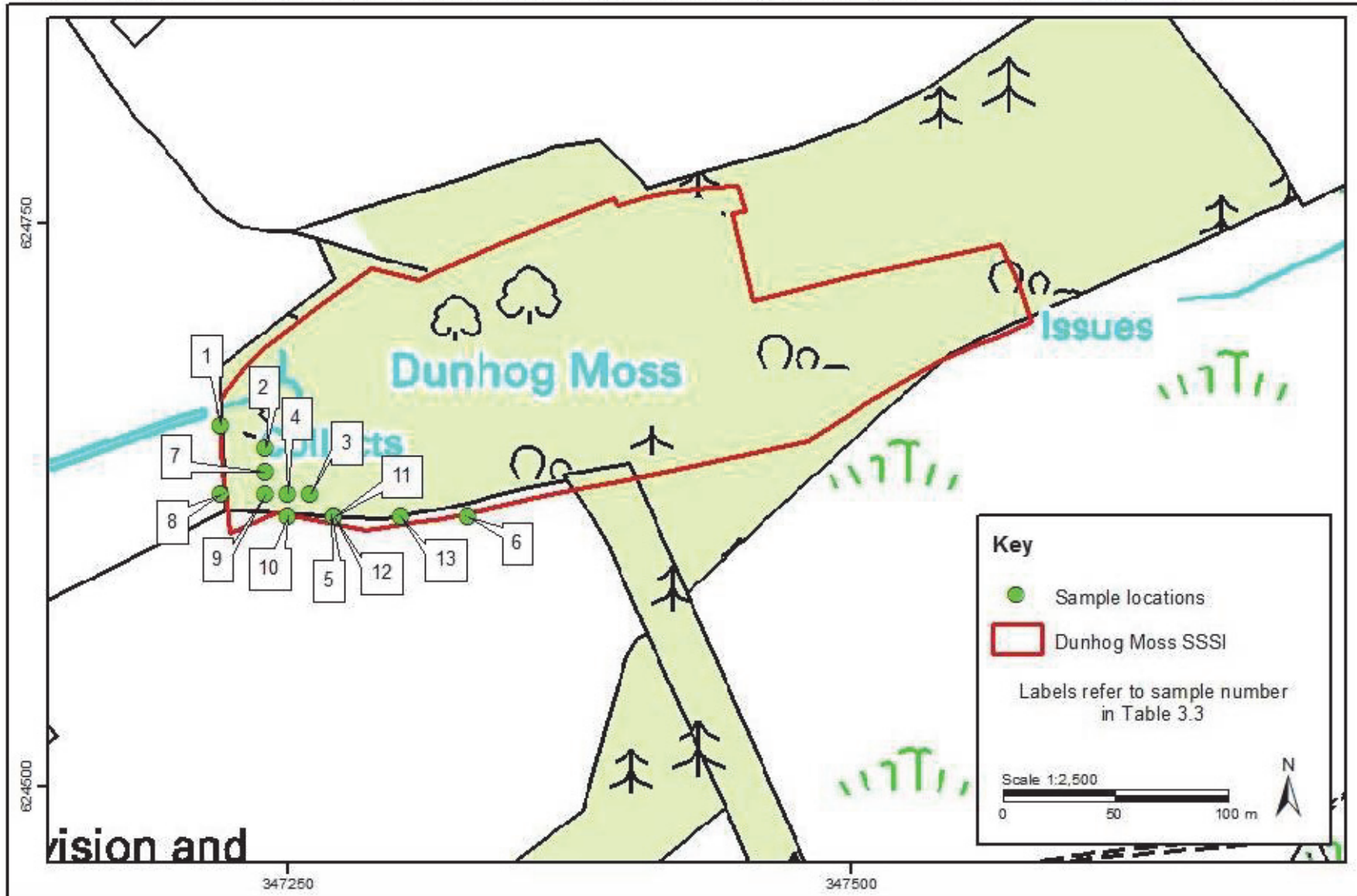


Figure 3.3. Sample locations at Dunhog Moss SSSI

3.3.4 Results

We recorded 35 species, including *H. glabriusculus* and three species new to the site. However, *L. oblongus* was not found. The two species specified in the citation were not found in June, when there was almost no flooded moss. The mossy pools, once considered typical of the site, could not be found. *Enochrus ochropterus* was the only species found in June and considered to typify mesotrophic mossy fen. There was more flooded moss in October, mainly around the edge of the site, but there were still no discrete moss-filled pools. Ten species of *Hydroporus* were found then, including one specimen of *H. glabriusculus* (RDB2).

3.3.5 Site condition evaluation

Fifty-six species are known from the site. Site Condition Monitoring yielded 20 species in 2002 and 34 species in 2010. With 35 species recorded in 2015, there should be no doubt that the site continues to be in excellent condition. However, the lack of *H. glabriusculus* habitat is a cause for concern.

3.3.6 Site management recommendations

The extensive water-logging and general lack of moss may be due to high water level from the sluice (Photo 3.15). This may prevent the formation of the small mossy pools important to *H. glabriusculus*. The inundation of the whole site also allows predators, such as Gammaridae amphipods, to invade the area, and could also prevent successful breeding by some beetle species. A slight reduction in sluice height should be trialled as a way of encouraging the development of discrete moss-lined pools. Removal of one plank from the sluice should reduce the water level by no more than 1.3 cm in the area occupied by *H. glabriusculus*, and could help restore habitat. This recommendation is made to improve habitat conditions solely for *H. glabriusculus* and other aquatic invertebrates that occupy similar habitats. If moss fails to develop, this may indicate that there has been a change in groundwater quality.

3.4 Lindean Reservoir

3.4.1 Site description

The base-rich loch, for which the site is also designated, occupies the site of a former fen of approximately 13 ha. Its water is unusually alkaline for the Scottish Borders, with rich marginal fen flora. The loch community includes stoneworts associated with the alkaline conditions and the Nationally Scarce pondweed *Potamogeton friesii*.

3.4.2 Summary of known Coleoptera interests

The water beetle fauna is diverse, with more than 50 species in the citation. Some of the species are associated with the reservoir infrastructure, the edge of the dam and an associated sump. *Hydroporus glabriusculus*, *Laccornis oblongus* (both described in Dunhog Moss) and *Hydrochus brevis* are specifically mentioned. These species are particularly associated with the neighbouring Whitlaw Mosses SSSI.

Hydrochus brevis SBL

Hydrochus brevis is found in the south of Scotland, Berwickshire, and south Dumfries and Galloway. It can be found in mesotrophic and acid fens, and its distribution throughout the UK is closely related to historic fenland.

3.4.3 Methods

We took 10 inventory samples on 8 June 2015. A wide range of habitats were sampled, mainly the fen developed in the eastern part near the dam (Photo 3.16), the side drain (Photo 3.17), and the south side (Photo 3.18). Open water habitats sampled included an area on the northern edge where the bank was undercut (Photo 3.19) and where a thin fen had developed (Photo 3.20). However, the most important habitat was a mossy fen developed in an offcut on the south side of the loch (Sample 5, Photo 3.21). Sample locations are described in Table 3.4 and shown in Figure 3.4.

Table 3.4. Sample locations and descriptions in Lindean Reservoir SSSI on 8 June 2015

Sample number	Grid reference	Site description
1	NT50572925	Fen by dam
2	NT50562923	Fen in side drain
3	NT50552923	Fen in reservoir edge
4	NT50582922	Sump by inspection hole
5	NT50542921	Fen cut off from main reservoir
6	NT50532922	Fen in reservoir edge
7	NT50542928	Undercut bank with open water
8	NT50442931	Weed-choked inlet
9	NT50242926	Edge of reservoir with thin vegetation
10	NT50242925	Open water over stoneworts and shore weed (<i>Littorella</i>)

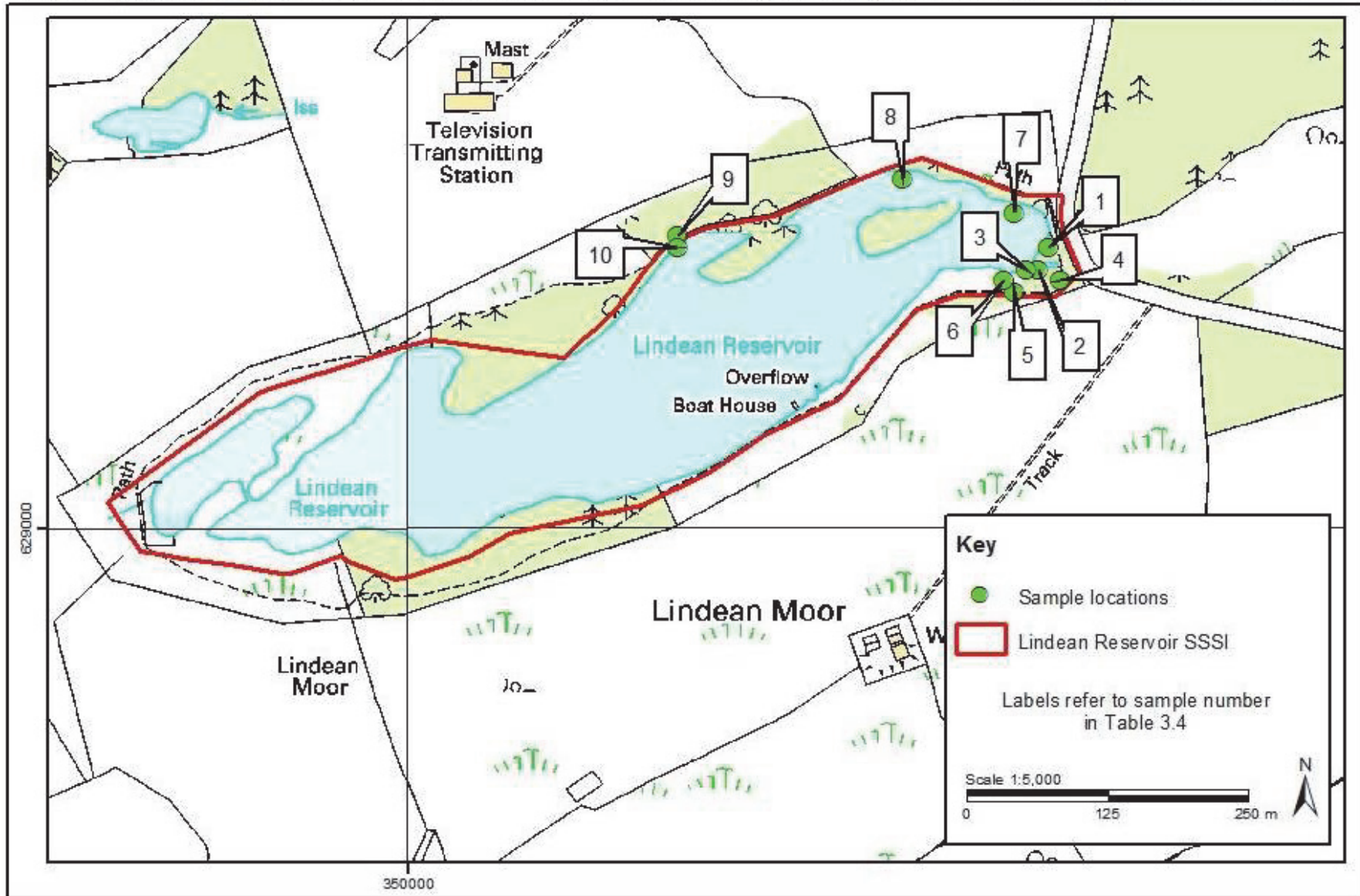


Figure 3.4. Sample locations at Lindean Reservoir SSSI

3.4.4 Results

We recorded 43 species of water beetle, including the Red Data Book species *H. glabriusculus* and five of the nine species of *Haliphus* known from the site, which are typical of base-rich water with stoneworts. *L. oblongus* and *H. brevis* were not found. The most important find was a colony of *H. glabriusculus* in a section of the loch (Sample 5, Photo 3.21). There were some newly recorded leaf beetles and weevils, reflecting the rich vegetation.

3.4.5 Site condition evaluation

Fifty-six species of aquatic beetle are known from the site, including three species newly recorded in 2015. Site Condition Monitoring yielded 37 species in 2002 and 45 species in 2010/11. With 43 species recorded in 2015, the site continues to be in excellent condition. Before being found during our surveys, *H. glabriusculus* was last recorded in 1980.

3.4.6 Site management recommendations

The smaller isolated pockets of water around the loch-edge provide excellent microhabitats for aquatic Coleoptera, and their value as a species-diverse water body should not be understated. Appropriate conservation of these microhabitats is essential to maintaining the favourable condition of the SSSI.

3.5 Lurgie Loch

3.5.1 Site description

The site, of approximately 12 ha, is notified for its basin fen, which is based on peatland formed in a hollow underlain by base-rich rock; an unusual occurrence in the Scottish Borders. The vegetation has affinities to continental and eastern English wetlands. Rare plant species include slender sedge (*Carex lasiocarpa*), bladder sedge (*Carex vesicaria*) and bog pondweed (*Potamogeton polygonifolius*).

3.5.2 Summary of known Coleoptera interests

The notification is based on the exceptional water beetle assemblage. The beetles *Agabus uliginosus* and *Ilybius chalconatus* are named in the citation.

Agabus uliginosus SBL

Agabus uliginosus is largely found in temporary still waters on low ground, and occasionally on tidal marshes and fen habitats. The larvae are not able to swim to the surface, therefore this species is restricted to shallow waters.

Ilybius chalconatus

This diving beetle has an easterly distribution in the UK, from East Sutherland to the Scottish Borders. *I. chalconatus* is associated with temporary pools, primarily wooded in southern Britain but more exposed elsewhere.

3.5.3 Methods

We took four inventory samples on 12 August 2015, mainly in the decoy pond on the edge of the SSSI and in the associated drain. The rest of the site was too dry during this visit. The site was still dry on 21 October, so sampling was repeated as in August. On 6 December the whole site was deeply flooded. We collected the debris from three pond-netting samples for sorting in the laboratory (Samples 8-10) and carried limited searching in the field (Samples 11 and 12). Sample locations are described in Table 3.5 and shown in Figure 3.5.

Table 3.5. Sample locations and descriptions in Lurgie Loch SSSI

Sample number	Grid reference	Date	Site description
1	NT67983963	12 August	Decoy pond
2	NT67963961	12 August	Decoy pond
3	NT67983963	12 August	Decoy pond
4	NT67953961	12 August	Partly shaded ditch
5	NT67983965	21 October	Shaded ditch
6	NT67983963	21 October	Decoy pond
7	NT67963960	21 October	Decoy pond
8	NT67843967	6 December	Flooded area in carr (mainly willows)
9	NT67833964	6 December	Flooded area in carr (mainly birch)
10	NT68033974	6 December	Pools amongst tussocks in open area
11	NT678396	6 December	Flooded area in carr
12	NT680397	6 December	Stream edge

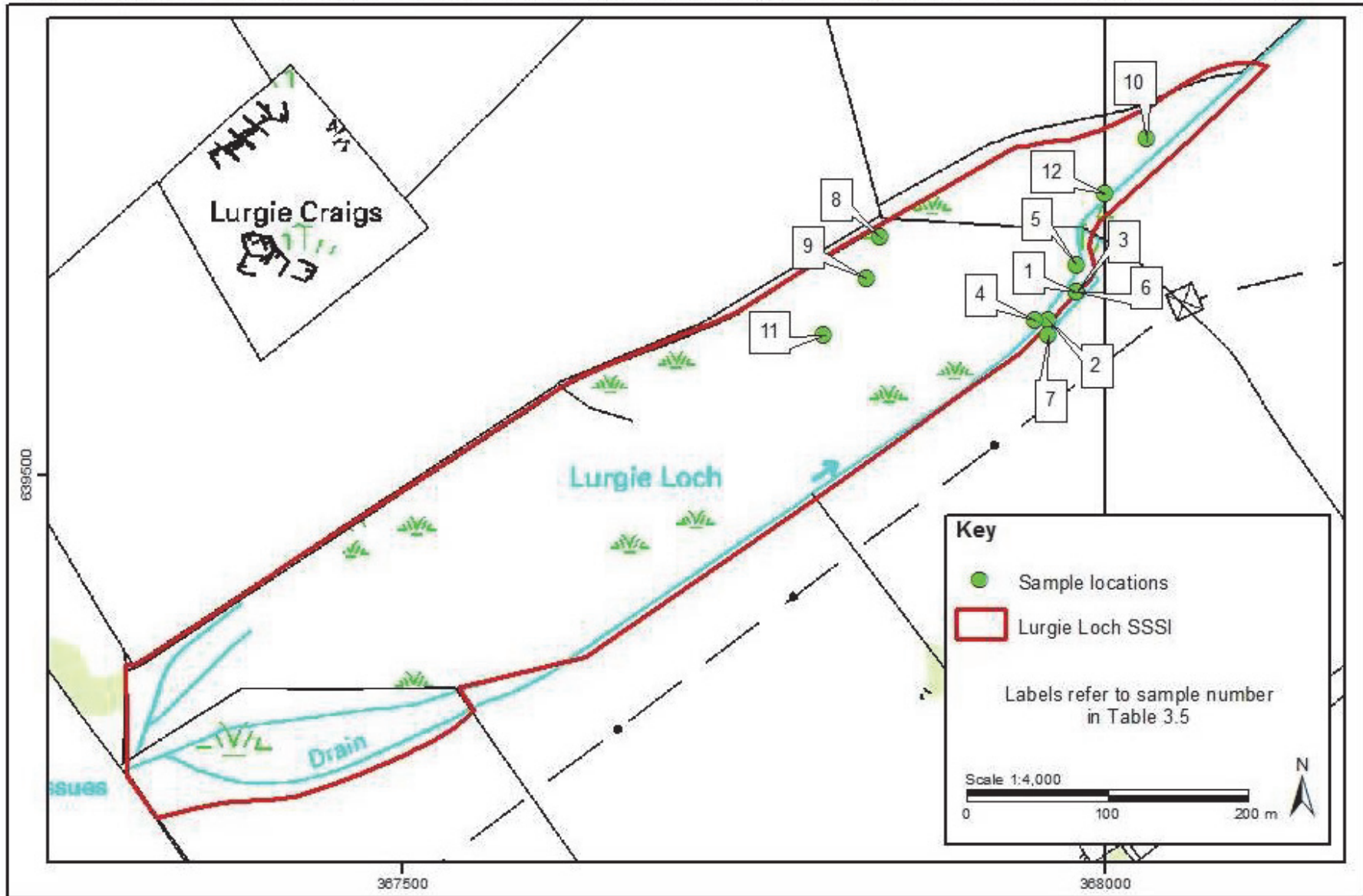


Figure 3.5. Sample locations at Lurgie Loch SSSI

3.5.4 Results

We found 37 species of water beetle, including the two target species, and 10 species not previously recorded from the site, three of which are new for Berwickshire.

The most important find was a single *A. uliginosus* in Sample 9 (Photo 3.22) in December. *I. chalconatus* was found in the weed-choked drainage ditch (Sample 4, Photo 3.23). *Helophorus strigifrons* (NS) was found in the flooded carr (Sample 8, Photo 3.24). Two great diving beetles, *Dytiscus marginalis* and *D. semisulcatus*, and two reed beetles, *Donacia simplex* and *D. vulgaris*, are new for the site and were found in the decoy pond (Photo 3.25) The watercress-feeding weevil *Poophagus sisymbrii* was found at Sample 5. This appears to be new for south-east Scotland.

3.5.5 Site condition evaluation

Sixty-nine aquatic beetle species are now known from the site. Site condition monitoring yielded 31 species in 2002 and 2010. With 37 species recorded in 2015, including the two species mentioned in the citation, plus the Nationally Scarce *H. strigifrons*, the site continues to be in excellent condition. The decoy pond appears to make a significant contribution to the area without adversely affecting the species of the fen carr.

3.5.6 Site management recommendations

The key species can withstand a period of drying out and indeed may need it as a way of reducing competition and predation. However, it seems unlikely that many wetland species will survive if the main site is dry through the whole summer and autumn. Blockage of the main drain to flood the fen and clearance of some of the fen carr in the eastern half of the SSSI would be desirable, as would some shallow pool creation. It is noteworthy that much of the land draining into the fen from the south-west has been turned over to production of Norway spruce (*Picea abies*) for Christmas trees, and this should greatly reduce siltation and fertiliser run-off.

3.6 Mount Bog

3.6.1 Site description

This is a large valley fen, approximately 12 ha, located 6.5 km north-east of Biggar. It is probably predominantly spring fed, with vegetation dominated by sedge swamp communities that includes rare species such as greater tussock-sedge (*Carex paniculata*). There are several freshwater microhabitats on site, including slow-flowing ditches and deep pools.

3.6.2 Summary of known Coleoptera interests

The citation notes 38 species recorded up to 2010. *Laccornis oblongus* (described in Dunhog Moss) and *Hydroporus elongatulus* (described in Blind Moss) are specifically mentioned.

3.6.3 Methods

We took seven inventory samples on 7 June 2015. Sample locations are described in Table 3.6 and shown in Figure 3.6.

Table 3.6. Sample locations and descriptions in Mount Bog SSSI on 7 June 2015

Sample number	Grid reference	Site description
1	NT10284190	Shallow open pool
2	NT10274185	Swamp in ditch
3	NT10284184	Deep pool
4	NT10254181	Shallow mossy pool
5	NT10244180	Deep pool
6	NT10254175	Shallow grassy pool in raised bog
7	NT10174162	Deep hole in swamp

3.6.4 Results

We recorded 35 species, including the target species *H. elongatulus*, found in Samples 2 and 3 (Photo 3.26), and *H. longicornis*, found in Sample 7 (Photo 3.27). *Laccornis oblongus* was not found. The Nationally Scarce *Helophorus strigifrons*, an addition to the list, was found in Sample 4 (Photo 3.28).

3.6.5 Site condition evaluation

Sixty-two species of water beetle are known from Mount Bog. Site condition monitoring detected 27 species in 2002, 33 in 2010 and 31 in 2015. *Laccornis oblongus* was last found in July 2010, but this species is often elusive. The site is considered to be in excellent condition.

3.6.6 Site management recommendations

A detailed vegetation community map should help to assess the rate of expansion of the central raised bog.

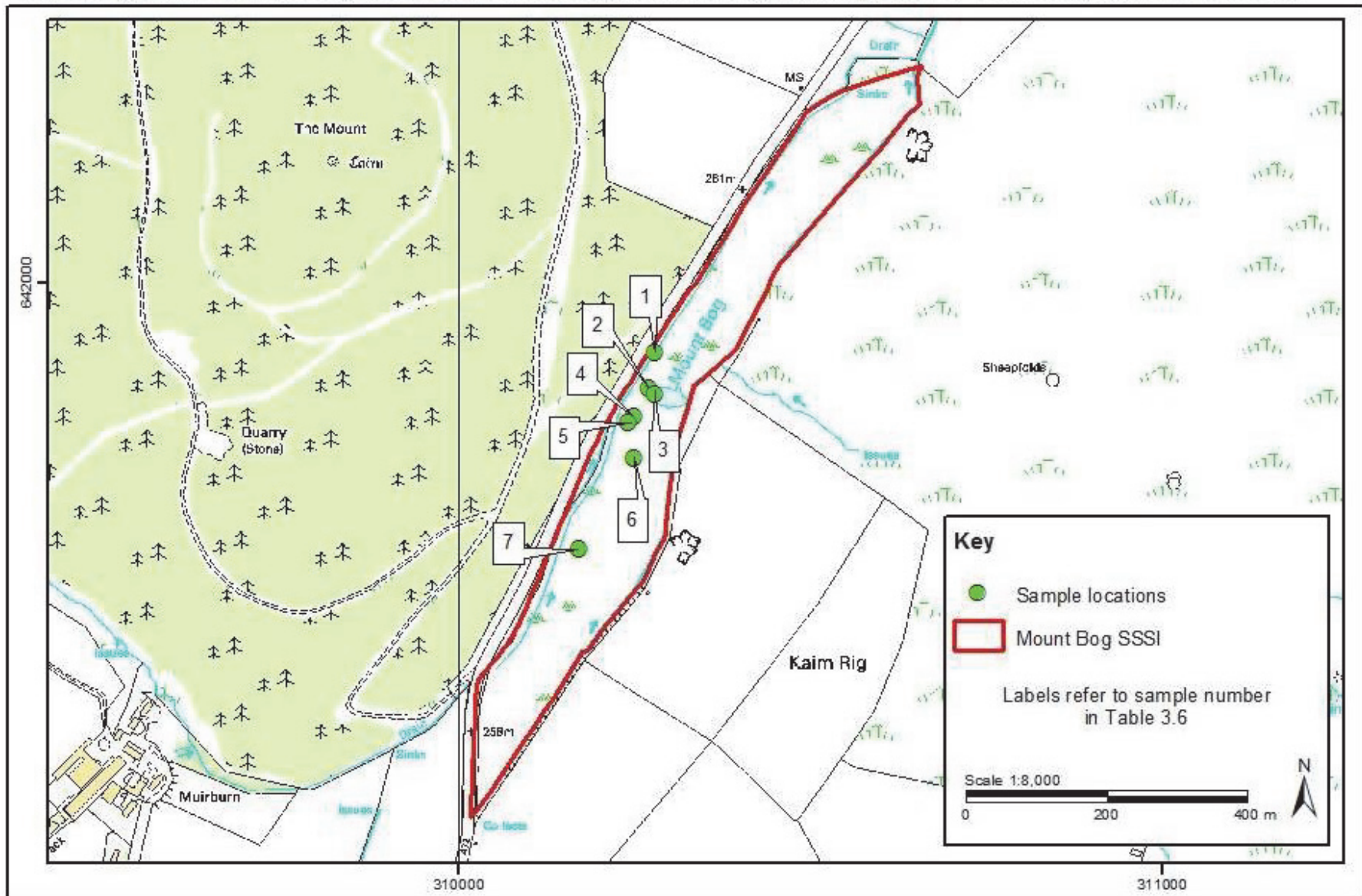


Figure 3.6. Sample locations at Mount Bog SSSI

3.7 Perchhall Loch

3.7.1 Site description

This is a large basin fen (for which the site is notified) of about 10 ha, approximately 6.5 km north-west of Lockerbie. It shows stages of succession from a small amount of open water, through reed-fen and floating raft, to vegetation dominated by *Sphagnum* leading into wet woodland. The floating raft is dominated by bottle sedge (*Carex rostrata*), marsh cinquefoil (*Potentilla palustris*) and water horsetail (*Equisetum fluviatile*). There are two Nationally Scarce plant species in these floating communities; cowbane (*Cicuta virosa*) and lesser tussock-sedge (*Carex diandra*). There are also two large redbuds of *Phragmites australis*, and alder and birch-carr woodland.

3.7.2 Summary of known Coleoptera interests

The citation states that the site is noted for a rich water beetle fauna. *Hydroporus elongatulus* (described in Blind Moss) is mentioned, “along with seven other nationally notable water beetle species”. Nine species had a threat status when the statement was written, but three of these have since been downgraded to Least Concern (Foster, 2010).

3.7.3 Methods

We took seven inventory samples on 31 May 2015. Habitats included shaded pools (Sample 1, Photo 3.29), a tree hole (Sample 2, Photo 3.30), a reed fen (Sample 5, Photo 3.31) and a ditch overgrown with sedges (Sample 6, Photo 3.32). Sample locations are described in Table 3.7 and shown in Figure 3.7.

Table 3.7. Sample locations and descriptions in Perchhall Loch SSSI on 31 May 2015

Sample number	Grid reference	Site description
1	NY11148765	Shaded pool
2	NY11138769	Tree hole
3	NY11058770	Shaded ditch
4	NY11058772	Shaded pool
5	NY11068782	Edge of reed fen
6	NY11008785	Overgrown ditch
7	NY10988787	Shallow exposed swamp

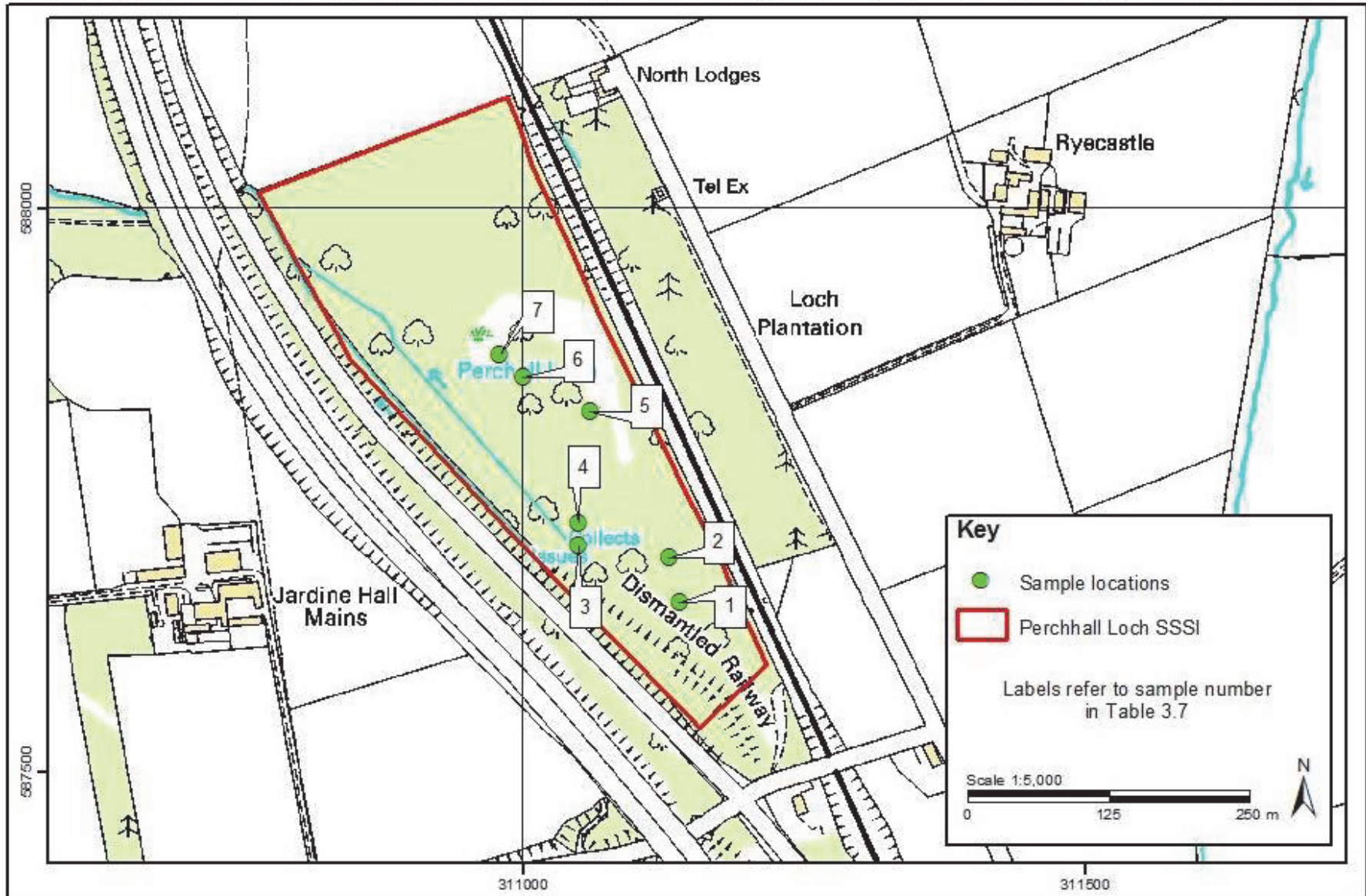


Figure 3.7. Sample locations at Perchhall Loch SSSI

3.7.4 Results

We collected 33 species, including the target species *H. elongatulus*, found at Samples 1, 3, 4, 6 and 7 (Photo 3.29), and *H. longicornis*, found at Sample 3.

Chaetarthria simillima (NS) was found in Samples 6 and 7: this was probably the species originally recorded from 1981 to 1990 as *C. seminulum*, which is now recognised to be a complex of species (Vorst & Cuppen, 2003).

Contacyphon pubescens (NS, SBL), found in Samples 1, 5 and 6, was an addition to the site list. This is a marsh beetle, with terrestrial adults found in damp areas near the aquatic larval habitat.

3.7.5 Site condition evaluation

Sixty-two species of water beetle are known from Perchhall Loch. Site Condition Monitoring found 20 species in 2002, 32 in 2010 and 33 in 2015. *H. elongatulus* was found throughout the site, which is considered to be in excellent condition.

3.7.6 Site management recommendations

A detailed vegetation map would be a useful guide for future surveys. The hydrology of the site is not understood, such as its dependence on groundwater, and further study would be valuable for helping site management. The extent to which materials from the storage yard on the south side encroach on the SSSI should be kept under review.

3.8 Rinns of Islay

3.8.1 Site description

The Rinns of Islay SSSI covers a large part (approximately 8,785 ha) of the western peninsula of Islay. There are several features of geological interest including rock groups not easily related to other groups in Scotland. There is also an excellent range of coastal habitats including a beach-dune-machair assemblage. The Rinns of Islay SSSI contains a nationally important area of blanket bog. Many areas of the bog are still active, helped by high rainfall and low rate of evapo-transpiration. In addition, these bogs provide internationally important roosting habitat for wintering Greenland white-fronted geese (*Anser albifrons flavirostris*). The coastal habitats and the oceanic scrub woodland comprising eared willow (*Salix aurita*) are nationally important. Rinns of Islay is notified for its breeding bird assemblage, with 94 species recorded between 1999 and 2003. Internationally important populations of chough (*Pyrhacorax pyrrhacorax*), corncrake (*Crex crex*), hen harrier (*Circus cyaneus*), Greenland white-fronted goose, whooper swan (*Cygnus cygnus*) and Greenland barnacle goose (*Branta leucopsis*) are associated with the SSSI.

3.8.2 Summary of known Coleoptera interests

The citation mentions 37 beetle species, including *Macroplea appendiculata* and *Gyrinus distinctus*. It also states that Loch Còrr is particularly important for aquatic Coleoptera.

Macroplea appendiculata RDB3 SBL

This is a rare leaf beetle found on several plant species, especially alternate water-milfoil and fennel pondweed (*Potamogeton pectinatus*). The larva feed on underwater roots and the adults feed on leaves, although they rarely emerge from the water. *M. appendiculata* can be found in lakes, drains, rivers and canals. This species has been found at only one site since it was last recorded at Loch Còrr.

Gyrinus distinctus NS SBL

This species was once thought to be restricted to thin vegetation in wind-exposed lochs from districts in the west of Scotland (Islay, Argyll, and Kirkcudbrightshire) but has recently been found on larger water bodies such as quarry ponds and canals. *G. distinctus* is often caught before being seen due to the fact that it hides in marginal emergent vegetation.

3.8.3 Methods

Survey was concentrated on the circuit involving Loch Còrr, allowing a comparison with previous SCM results. We took 19 inventory samples on 6 July 2015. Habitats included seepage (Sample 3, Photo 3.33), open loch shore (Sample 5, Photo 3.34), wind-eroded edge with water-lilies (*Nymphaea alba*) (Sample 10, Photo 3.35), and *Sphagnum* bog (Sample 12, Photo 3.36). Sample locations are described in Table 3.8 and shown in Figure 3.8.

Table 3.8. Sample locations and descriptions in the Rinns of Islay SSSI on 6 July 2015

Sample number	Grid reference	Site description
1	NR23426998	Seepage on peat
2	NR23296995	Stream with sand and gravel
3	NR23106992	Seepage on peat
4	NR22886979	Loch inflow
5	NR22856980	Loch margin with sand and gravel
6	NR22606969	Loch inlet with gravel
7	NR22406969	Deep loch edge with water lilies
8	NR22336967	Loch edge with bogbean raft
9	NR22276965	Loch edge with water lilies
10	NR22296963	Loch edge with water lilies
11	NR22296961	Vegetated loch edge
12	NR22256950	Isolated patch of <i>Sphagnum</i> bog
13	NR22326941	Shallow water with tussocks
14	NR22456941	Vegetated loch edge
15	NR22516942	Rocky loch edge
16	NR22776942	Thin fen in loch edge over gravel
17	NR22786943	Cut off section of loch with spike-rush
18	NR22866971	Open water with scattered milfoil
19	NR22946986	Peaty marsh

3.8.4 Results

We recorded 120 individuals of 27 species, including the target species *G. distinctus*. *M. appendiculata* was not found. *G. distinctus* was only present in the loch edge where the bank is eroded and partly undercut and overhung with heather and bog myrtle, and with water lilies in the open water (Photo 3.35). Whirligig beetles were frequent around the loch edge, particularly the hairy whirligig *Orectochilus villosus*. Milfoils, one of the food plants of *M. appendiculata*, were investigated without result at Sample 18. *Hydroporus longicornis*, an excellent indicator of undisturbed sites, was found in seepage at Samples 1 and 3.

3.8.5 Site condition evaluation

Fifty-one species are known from Loch Còrr, with site condition monitoring yielding 27 species in 2003, 26 in 2010, and 27 in 2015. The retention of *G. distinctus* and the species diversity are enough to justify considering this site to be in good condition.

3.8.6 Site management recommendations

No recommendations for site management are needed.

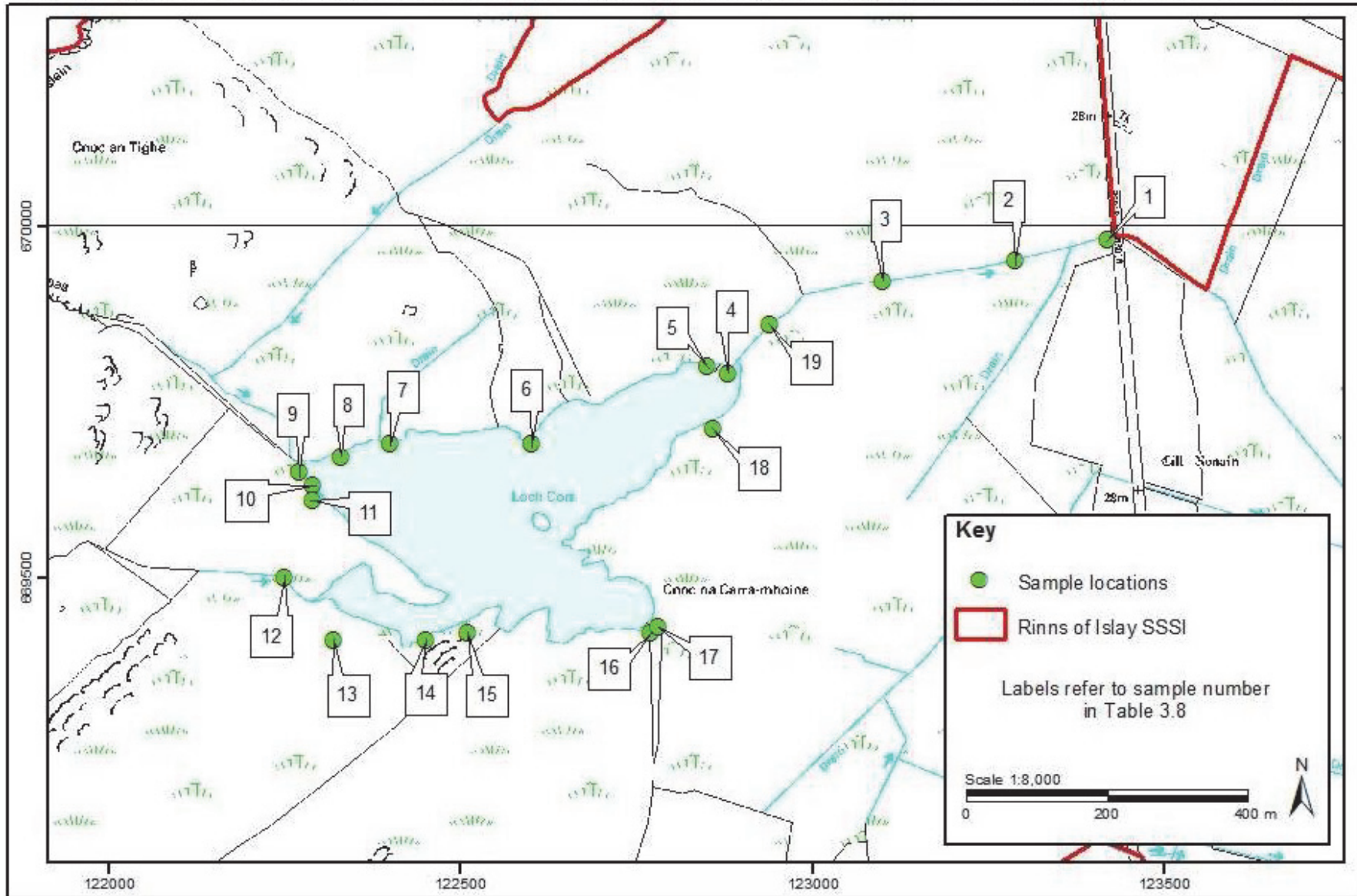


Figure 3.8. Sample locations at Rinn of Islay SSSI

4. REFERENCES

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ANNEX 1: PHOTOGRAPHS



Photo 3.1. An example of the mossy pools in Blind Moss SSSI (NT45811851 facing south-east). Photo: Garth Foster.



Photo 3.2. The area of inflows on Blind Moss SSSI (NT45791850 facing north-west). Photo: Garth Foster.



Photo 3.3. A well-eye at Blind Moss SSSI (NT45931853 facing south-east). Photo: Garth Foster.



Photo 3.4. The open water area in Blind Moss SSSI (NT46061853 facing south-east). Photo: Garth Foster.



Photo 3.5. Pool 6 transition mire in Carrick Ponds SSSI (NX58435049 facing south-west). Photo: Garth Foster.



Photo 3.6. Pool 7 transition mire (south end) in Carrick Ponds SSSI (NX58055032 facing west). Photo: Garth Foster.



Photo 3.7. Pool 4 vegetation rafts and shady open water in Carrick Ponds SSSI (NX58295085 facing south-west). Photo: Garth Foster.



Photo 3.8. Pool 5 vegetation rafts in Carrick Ponds SSSI (NX58385058 facing south-west). Photo: Garth Foster.



Photo 3.9. Pool 2 open water and bogbean cover in Carrick Ponds SSSI (NX58145059 facing south-west). Photo: Garth Foster.



Photo 3.10. Pool 8 acid pool in Carrick Ponds SSSI (NX58045023 facing north). Photo: Garth Foster.



Photo 3.11. Pool 10 black bog rush in Carrick Ponds SSSI (NX57825011 facing south-west). Photo: Garth Foster.



Photo 3.12. Exposed upland habitat of Dunhog Moss SSSI (NT472246 facing north-east). Photo: Garth Foster.



Photo 3.13. Example of willow carr and tussock sedges on Dunhog Moss SSSI (NT47222463 facing west). Photo: Garth Foster.



Photo 3.14. A well-eye in Dunhog Moss SSSI (NT47272462 facing north). Photo: Garth Foster.



Photo 3.15. Water extraction at the outflow to Dunhog Moss SSSI (NT47222466 facing south-west). Photo: Garth Foster.



Photo 3.16. Fen developed beside the dam in Lindean Reservoir SSSI (NT50572925 facing north-east). Photo: Garth Foster.



Photo 3.17. Fen developed in the side drain of the Lindean Reservoir SSSI (NT50562923 facing north-east). Photo: Garth Foster.



Photo 3.18. Fen in south side of Lindean Reservoir SSSI (NT50552923 facing north-west). Photo: Garth Foster.



Photo 3.19. Open water on north side with an undercut bank at Lindean Reservoir SSSI (NT50542928 facing south-west). Photo: Garth Foster.



Photo 3.20. Thin fen on north side of Lindean Reservoir SSSI (NT50242926 facing south). Photo: Garth Foster.



*Photo 3.21. Mossy swamp developed in cut off branch of Lindean Reservoir where *Hydroporus glabriusculus* was found (NT50542921 facing north-west). Photo: Garth Foster.*



Photo 3.22. Sample 9 carr in Lurgie Loch SSSI where *Agabus uliginosus* was found (NT67833964 facing south). Photo: Garth Foster.



Photo 3.23. Weed-choked ditch in Lurgie Loch SSSI where *Ilybius chalconatus* was recorded (NT67953961 facing south-west). Photo: Garth Foster.



*Photo 3.24. Flooded carr in Lurgie Loch SSSI where *Helophorus strigifrons* was found (NT67843967 facing south). Photo: Garth Foster.*



Photo 3.25. Decoy pond beside Lurgie Loch SSSI. This part of the site had recently been trimmed to clear the sighting for the butts (NT67983963 facing south-west). Photo: Garth Foster.



Photo 3.26. The location of Sample 3 within the Mount Bog SSSI (NT10284184 facing south-east). Photo: Garth Foster.



Photo 3.27. The location of Sample 7 within the Mount Bog SSSI (NT10174162 facing south). Photo: Garth Foster.



Photo 3.28. The location of Sample 4 within the Mount Bog SSSI (NT10254181 facing north-west). Photo: Garth Foster.



Photo 3.29. The shaded pools of Sample 1 in Perchhall Moss SSSI (NY11148765 facing south-west). Photo: Garth Foster.



Photo 3.30. A pool formed by a fallen tree at Sample 2 in Perchhall Moss SSSI (NY11138769 facing south-west). Photo: Garth Foster.



Photo 3.31. The reed fen at Sample 5 in Perchhall Moss SSSI (NY11068782 facing north-east). Photo: Garth Foster.



Photo 3.32. A sedge-filled, natural ditch at Sample 6 in Perchhall Moss SSSI (NY11008785 facing south-west). Photo: Garth Foster.



Photo 3.33. The seepage beside the outflow of Loch Còrr (Sample 3) in the Rinns of Islay SSSI (NR23106992 facing north-east). Photo: Garth Foster.



Photo 3.34. The exposed shore of Loch Còrr (Sample 5) in the Rinns of Islay SSSI (NR22856980 facing south-east). Photo: Garth Foster.



Photo 3.35. The deep edge of Loch Còrr (Sample 10) in the Rinns of Islay SSSI (NR22296963 facing north-east). Photo: Garth Foster.



Photo 3.36. Sphagnum bog on the edge of Loch Còrr (Sample 12) in the Rinns of Islay SSSI (NR22256950 facing north-west). Photo: Garth Foster.

ANNEX 2: SITE SPECIES LISTS

The following tables provide full lists of species recorded during 2015 site condition monitoring surveys.

The conservation status is abbreviated as detailed in Table 1.3.

Table A1.1. Blind Moss SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Plateumaris sericea</i>	NT45931853	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dryopidae	<i>Dryops luridus</i>	NT46061853	3	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT45801851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT45811851	5	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT45921848	11	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT45781847	5	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus congener</i>	NT45801851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus paludosus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus sturmii</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NT45811851	1	11/08/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NT45921848	1	11/08/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT45781847	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT45811851	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus longicornis</i>	NT45801851	7	11/08/2015	Near Threatened	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT45781847	4	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus obscurus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT46061853	7	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT45781847	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT45781847	4	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT45931853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Rhantus exsoletus</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NT45781844	4	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NT45801851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT45921848	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NT45801851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Limnebius truncatellus</i>	NT45791850	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT45791850	3	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT45801851	6	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT45811851	10	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT45921848	7	11/08/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT45801851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT45921848	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria seminulum s.s.</i>	NT45801851	6	11/08/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT45801851	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes s.s.</i>	NT45781847	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT46061853	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT45781847	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT46061853	2	11/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Microcara testacea</i>	NT45811851	1	11/08/2015		Pond netting	Garth Foster	Garth Foster

Table A1.2. Carrick Ponds SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NX58385058		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon cochleariae</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dryopidae	<i>Dryops luridus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dryopidae	<i>Dryops luridus</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dryopidae	<i>Dryops luridus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Acilius canaliculatus</i>	NX58255064		29/08/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NX58055032		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus guttatus</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus nebulosus</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus paludosus</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus paludosus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NX58255065	1	09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Colymbetes fuscus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Colymbetes fuscus</i>	NX58295085	3	09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Colymbetes fuscus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NX58145039	1	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus semisulcatus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus semisulcatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Graptodytes granularis</i>	NX57825011	Abundant	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus nigrita</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NX58045023	Common	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tessellatus</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NX58055032		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NX58055032		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hygrotus inaequalis</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NX58255065	Common	09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NX58255064	1	29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Liopterus haemorrhoidalis</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Liopterus haemorrhoidalis</i>	NX58045023	Common	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Rhantus exsoletus</i>	NX58145059	1	29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Rhantus exsoletus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus marinus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus lineatocollis</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NX58295085		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus minutus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58255065	2	09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58055032		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cymbiodyta marginellus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cymbiodyta marginellus</i>	NX58045023	1	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58055032		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NX58385058		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus testaceus</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus testaceus</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus testaceus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus testaceus</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes</i> s. s.	NX58045023		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes</i> s.s.	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NX58255065	1	09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NX57825011		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NX58385058	Common	15/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NX58435049		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Noteridae	<i>Noterus clavicornis</i>	NX58145059		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Noteridae	<i>Noterus clavicornis</i>	NX58255065		09/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Noteridae	<i>Noterus clavicornis</i>	NX58145059		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Noteridae	<i>Noterus clavicornis</i>	NX58255064		29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon hilaris</i>	NX58145039	1♀	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon pubescens</i>	NX58055032	1♀	15/07/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon pubescens</i>	NX58145059	3	29/08/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NX58435049	1♀	15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Scirtes hemisphaericus</i>	NX58145039		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Scirtes hemisphaericus</i>	NX58385058		15/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Scirtes hemisphaericus</i>	NX58145059	1	29/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Scirtes hemisphaericus</i>	NX58255065	Abundant	09/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Scirtidae	<i>Scirtes hemisphaericus</i>	NX58435049	Abundant	15/07/2015		Pond netting	Garth Foster	Garth Foster

Table A1.3. Dunhog Moss SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Altica palustris</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella nymphaeae</i>	NT47262463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon cochleariae</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Prasocuris phellandrii</i>	NT47242465	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Prasocuris phellandrii</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Prasocuris phellandrii</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT47332462	12	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT47272462	6	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT47302462	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT47242464	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus nebulosus</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NT47272462	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus semisulcatus</i>	NT47252462	1 II larva	22/10/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT47242465	5	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT47262463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT47252462	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT47272462	7	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT47242464	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT47272462	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT47252462	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus glabriusculus</i>	NT47272462	1 ♂	22/10/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NT47272462	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NT47252462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NT47302462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus nigrita</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT47222463	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT47242463	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT47242464	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT47252462	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47242465	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47262463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47332462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47242464	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47272462	7	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT47252462	5	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT47242465	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT47262463	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT47242464	2	22/10/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT47252462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT47272462	3	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Oreodytes sanmarkii</i>	NS23881051	Common	10/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NT47222466	Common	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT47252462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus obscurus</i>	NT47332462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena nigrita</i>	NS23881051	1	10/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Limnebius truncatellus</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT47332462	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NS23881051		10/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT47252462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT47302462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT47332462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT47252462	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT47272462	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cercyon impressus</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT47252463	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT47262463	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT47252463	2	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT47262463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT47302462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NT47242465	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT47272462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47242465	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47252463	9	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47262463	7	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47332462	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47222463	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47252462	5	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT47272462	1	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon padi</i>	NT47252463	1	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Scirtidae	<i>Contacyphon padi</i>	NT47242464	2	22/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NT47242465	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NT47252463	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NT47242464	1♂	22/10/2015		Pond netting	Garth Foster	Garth Foster

Table A1.4. Lindean Reservoir SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Altica palustris</i>	NT50442931	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella cf lineola</i>	NT50542928	1♀	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella nymphaeae</i>	NT50542921	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella nymphaeae</i>	NT50542928	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella tenella</i>	NT50542928	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Plateumaris discolor</i>	NT50552923	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Plateumaris discolor</i>	NT50562923	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Prasocuris phellandrii</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Coccinellidae	<i>Coccidula rufa</i>	NT50242926	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Curculionidae	<i>Leiosoma deflexum</i>	NT50552923	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Curculionidae	<i>Leiosoma deflexum</i>	NT50562923	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Curculionidae	<i>Rhinoncus perpendicularis</i>	NT50242926	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT50542921	4	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NT50542921	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus semisulcatus</i>	NT50562923	1 larva	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT50532922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT50542921	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT50582922	4	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT50562923	4	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus glabriusculus</i>	NT50542921	5	08/06/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT50542921	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT50532922	6	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT50542921	1	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT50442931	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT50542921	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT50582922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT50532922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50242926	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50442931	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50532922	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50542921	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50562923	4	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50572925	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Nebrioporus elegans</i>	NT50242925	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Nebrioporus elegans</i>	NT50542928	2	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NT50542928	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus confinis</i>	NT50242925	10	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50242925	11	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50242926	25	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50532922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50542928	5	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50552923	22	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus flavicollis</i>	NT50572925	7	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50242925	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50242926	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50442931	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50542928	6	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50552923	4	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50562923	6	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus fulvus</i>	NT50572925	3	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus lineolatus</i>	NT50242925	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus lineolatus</i>	NT50242926	5	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus lineolatus</i>	NT50542928	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT50562923	4	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT50552923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT50572925	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena riparia</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Limnebius truncatellus</i>	NT50442931	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Limnebius truncatellus</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT50532922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT50552923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT50562923	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT50572925	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT50582922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT50552923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT50562923	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria seminulum</i> s.s.	NT50442931	2	08/06/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria seminulum</i> s.s.	NT50552923	2	08/06/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria seminulum</i> s.s.	NT50562923	2	08/06/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT50532922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT50552923	5	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NT50562923	5	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50242926	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50442931	6	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50532922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50542928	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50552923	25	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NT50562923	6	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NT50552923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus ochropterus</i>	NT50562923	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT50582922	2	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT50442931	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT50582922	1	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Noteridae	<i>Noterus clavicornis</i>	NT50562923	20	08/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NT50442931	2	08/06/2015		Pond netting	Garth Foster	Garth Foster

Table A1.5. Lurgie Loch SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Donacia simplex</i>	NT67983963	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Donacia vulgaris</i>	NT67983963	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NT67983963	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NT67983965	2	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NT67833964	2	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NT67953961	3	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Curculionidae	<i>Poophagus sisymbrii</i>	NT67983965	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67963960	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67983963	11	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67983965	4	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67953961	26	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67963961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67983963	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT67833964	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus nebulosus</i>	NT67983963	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus paludosus</i>	NT67953961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus sturmii</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus uliginosus</i>	NT67833964	1	06/12/2015	Near Threatened	Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NT67983965	3	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Colymbetes fuscus</i>	NT67983963	2	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NT67983963	1 larva	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus semisulcatus</i>	NT67983963	2	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT67963960	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT67983965	1	21/10/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NT67953961	3	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i>	NT67983965	2♂♂	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius castaneus</i>	NT67843967	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> matt form	NT67953961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT67983965	2	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT67953961	5	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NT67843967	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NT67953961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NT67963961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NT67983963	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NT67983963	3	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT67983963	2	21/10/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT67953961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT67963961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT67983963	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius chalconatus</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NT67983963	4	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT67963961	2	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT67983963	3	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT67983963	6	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Haliplidae	<i>Haliplus ruficollis</i>	NT67963960	2	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NT67963961	3	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NT67963960	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT67953961	Common	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT67963961	8	12/08/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT67963960	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT67983965	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT678396	1	06/12/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT67843967	3	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus obscurus</i>	NT67833964	2	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus obscurus</i>	NT678396	5	06/12/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus obscurus</i>	NT67843967	2	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus obscurus</i>	NT68033974	110	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus strigifrons</i>	NT67843967	2	06/12/2015	Nationally Scarce	Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena riparia</i>	NT678396	1	06/12/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena riparia</i>	NT680397	2	06/12/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT67953961	3	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT68033974	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT680397	1	06/12/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT67963960	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cercyon impressus</i>	NT67843967	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cercyon impressus</i>	NT67213936	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Cercyon lateralis</i>	NT67833964	1	06/12/2015		Pond netting and litter sampling	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes s.s.</i>	NT67983965	6	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes s.s.</i>	NT67963961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NT67983965	1	21/10/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Megasternum concinnum s.s.</i>	NT678396	1	06/12/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Megasternum concinnum</i> s.s.	NT67953961	1	12/08/2015		Pond netting	Garth Foster	Garth Foster

Table A1.6. Mount Bog SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Byrrhidae	<i>Cytilus sericeus</i>	NT10254175	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Galerucella nymphaeae</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT10174162	5	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT10244180	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT10254175	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT10254181	11	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT10254175	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus congener</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus sturmii</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus sturmii</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NT10254181	1	07/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NT10244180	1 larva	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT10174162	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT10254181	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT10274185	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NT10284184	7	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NT10274185	7	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT10244180	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT10254175	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NT10174162	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NT10254175	8	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NT10254181	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NT10284190	4	07/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus longicornis</i>	NT10174162	1	07/06/2015	Near Threatened	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT10174162	7	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT10244180	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT10254181	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT10274185	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NT10284190	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NT10284190	8	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus planus</i>	NT10244180	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT10244180	3	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT10254181	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT10274185	6	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NT10284184	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NT10254175	6	07/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT10244180	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT10254181	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT10274185	4	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NT10284190	4	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NT10284184	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Rhantus exsoletus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT10174162	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT10274185	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NT10284190	5	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus strigifrons</i>	NT10254181	1	07/06/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena britteni</i>	NT10174162	2	07/06/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydraenidae	<i>Hydraena britteni</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Limnebius truncatellus</i>	NT10284190	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT10254175	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT10284184	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT10174162	1	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT10254181	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NT10274185	2	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes s .s</i>	NT10254181	16	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius fuscipes s .s</i>	NT10284184	5	07/06/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NT10284190	1	07/06/2015		Pond netting	Garth Foster	Garth Foster

Table A1.7. Perchhall Loch SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Altica lythri</i>	NY10988787	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NY11138769	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Phaedon armoraciae</i>	NY11148765	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Plateumaris discolor</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Chrysomelidae	<i>Plateumaris discolor</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Curculionidae	<i>Limnobaris dolorosa</i>	NY11058770	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NY11058770	8	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NY11058772	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NY11068782	4	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus affinis</i>	NY11138769	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NY11058770	4	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NY11058772	1	31/05/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NY11138769	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NY11148765	8	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NY10988787	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus unguicularis</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus angustatus</i>	NY11068782	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NY11008785	4	31/05/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NY11058770	5	31/05/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NY11058772	5	31/05/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NY11148765	1	31/05/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus elongatulus</i>	NY10988787	1	31/05/2015	Vulnerable	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus erythrocephalus</i>	NY11058770	4	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NY11058770	12	31/05/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NY11058772	6	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NY11068782	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NY11058772	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus incognitus</i>	NY11148765	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus longicornis</i>	NY11058770	1	31/05/2015	Near Threatened	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus memnonius</i> shining form	NY11058772	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus palustris</i>	NY11148765	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus striola</i>	NY11058770	7	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NY11058772	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NY11068782	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NY11058770	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NY11058772	6	31/05/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NY11068782	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus umbrosus</i>	NY11138769	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius ater</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NY11138769	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius guttiger</i>	NY11148765	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NY11068782	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus grandis</i>	NY11148765	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena riparia</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydraenidae	<i>Hydraena riparia</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NY11008785	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NY11068782	4	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NY11138769	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY10988787	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY11008785	6	31/05/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY11058770	13	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY11068782	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY11138769	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena lutescens</i>	NY11148765	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria simillima</i>	NY10988787	1	31/05/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Chaetarthria simillima</i>	NY11008785	3	31/05/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NY11058772	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NY11068782	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NY11138769	3	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Hydrobius subrotundus</i>	NY11148765	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NY10988787	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Laccobius bipunctatus</i>	NY11138769	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon coarctatus</i>	NY11058770	1	31/05/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Scirtidae	<i>Contacyphon padi</i>	NY11008785	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon padi</i>	NY11138769	1	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon pubescens</i>	NY11008785	1	31/05/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon pubescens</i>	NY11068782	1	31/05/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon pubescens</i>	NY11148765	1	31/05/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NY11058770	9	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NY11138769	2	31/05/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon variabilis</i>	NY11148765	1	31/05/2015		Pond netting	Garth Foster	Garth Foster

Table A1.8. Rinns of Islay SSSI species records

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Chrysomelidae	<i>Plateumaris discolor</i>	NR22256950	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dryopidae	<i>Dryops luridus</i>	NR22886979	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR22946986	7	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR22296961	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR22456941	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR22776942	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR22786943	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus bipustulatus</i>	NR23426998	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Agabus sturmii</i>	NR22296961	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Dytiscus marginalis</i>	NR22296961	1 larva	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NR22256950	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus gyllenhalii</i>	NR22946986	3	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus longicornis</i>	NR23106992	1	06/07/2015	Near Threatened	Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Dytiscidae	<i>Hydroporus longicornis</i>	NR23426998	1	06/07/2015	Near Threatened	Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus nigrita</i>	NR23106992	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus nigrita</i>	NR23426998	4	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus obscurus</i>	NR22946986	6	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus obscurus</i>	NR22326941	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus obscurus</i>	NR22336967	4	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus obscurus</i>	NR22786943	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NR22336967	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NR22786943	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus pubescens</i>	NR22886979	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Hydroporus tristis</i>	NR22256950	5	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Ilybius fuliginosus</i>	NR22886979	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Dytiscidae	<i>Nebrioporus elegans</i>	NR22866971	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Elmidae	<i>Oulimnius tuberculatus</i>	NR22856980	1	06/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Gyrinidae	<i>Gyrinus caspius</i>	NR22406969	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus caspius</i>	NR22296963	5	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus caspius</i>	NR22456941	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus caspius</i>	NR22776942	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus distinctus</i>	NR22296963	3	06/07/2015	Nationally Scarce	Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Gyrinus substriatus</i>	NR22776942	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Orectochilus villosus</i>	NR22296963	3	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Orectochilus villosus</i>	NR22456941	5	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Orectochilus villosus</i>	NR22516942	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Orectochilus villosus</i>	NR22606969	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Gyrinidae	<i>Orectochilus villosus</i>	NR22886979	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus aequalis</i>	NR22256950	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NR22456941	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NR22786943	1	06/07/2015		Pond netting	Garth Foster	Garth Foster

Group	Family	Species	Grid reference	Number	Date	Conservation Status	Sampling Method	Recorder	Determiner
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NR22856980	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus brevipalpis</i>	NR23426998	5	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NR22256950	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NR23106992	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Helophoridae	<i>Helophorus flavipes</i>	NR23426998	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NR22946986	6	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Anacaena globulus</i>	NR23106992	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Coelostoma orbiculare</i>	NR22276965	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NR22276965	8	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NR22296961	1	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus coarctatus</i>	NR22336967	3	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Hydrophilidae	<i>Enochrus fuscipennis</i>	NR22326941	2	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon hilaris</i>	NR22296963	7	06/07/2015		Pond netting	Garth Foster	Garth Foster
Coleoptera	Scirtidae	<i>Contacyphon padi</i>	NR23296995	1	06/07/2015		Pond netting	Garth Foster	Garth Foster

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