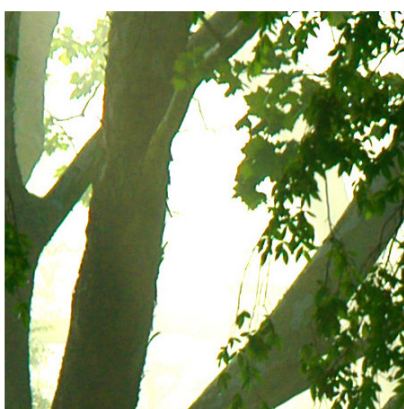


Survey and Mapping of Habitats in Mid Clare

Survey Findings Report

December 2010



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1 EXECUTIVE SUMMARY

Clare County Council in association with the Heritage Council, Clare Biodiversity and Clare Heritage Forum commissioned RPS to survey and map habitats within a designated study area of approximately 76.12km² in Mid Clare. The study excluded lands designated for nature conservation.

County Clare is rich in its diversity of wildlife and habitats; however little is known about the habitats outside these lands designated for nature conservation. The main aim of the survey in Mid Clare is to provide an inventory and classification of the habitats present within the study area and to identify areas of biodiversity importance.

Through this process, we hope to create a more consistent sense of the value and importance of local sites of ecological value, by securing a broader awareness and support for their protection.

Information on the habitats found, was gathered through field by field surveys and interpretation of aerial photography. The habitat boundaries were mapped and classified in accordance with the national habitats classification produced by the Heritage Council, A Guide to Habitats in Ireland (Fossitt, 2000).

The field study was conducted between the months of June, July and August 2010. All information gleaned from the field studies was then digitised and stored in a Geographical Information System (GIS), which provides a statistical and visual representation of the habitat information.

There are 117 habitat types classified in Ireland (Fossitt, 2000), 89 of these habitat types are terrestrial and 28 of these are marine habitats. Of the 89 terrestrial habitat types, 49 different types of habitats occur within the study area, 8 are classified as under cultivated and built land. The remaining 41 habitats are described in detail in this report.

The habitats found within the study area are evaluated based on their naturalness, value and vulnerability. Habitats that are considered good examples of Annex I priority habitats are considered to be of international or national importance. Semi-natural habitats with high biodiversity in a local context and that are vulnerable, are considered to be of High Ecological value in a local context. Habitats that are considered semi-natural habitat or locally important

for wildlife are considered to be of Moderate Ecological value in a local context, and robust habitats that have been highly modified are considered to be of Low Ecological value in a local context.

Good examples of habitats that are considered to be of International, National, High and Moderate ecological value are target noted. These target notes provide detailed information on the habitat including, Survey details, Grid Coordinate, Townland Name, Area in Hectares, Ecological Value, Habitat Code and Habitat Description. The target note also provides a habitat map of the site indicating the extent of the area and a photographic record.

The habitat inventory and supporting biodiversity evaluation of the lands in Mid Clare has important implications for spatial planning in the area. This information also establishes a forum for education and further research into the biodiversity value of the study area.

2 INTRODUCTION

2.1 BACKGROUND

In June 2010, Clare County Council commissioned the survey and mapping of habitats within a designated study area of approximately 76.12km² in Mid Clare (refer to **Figure 1.1**). This project is to fulfil the actions for habitat mapping under the County Clare Heritage Plan.

The main aim of the survey was to provide an inventory of the habitats present within the study area between Feakle in the North West to Tulla in the South West and to Scarrif in the east (see **Figure 2.1**). The detailed mapping and inventory of the habitats, landscape features and ecological features within the study area will form the basis for a review of the variety and extent of habitats present, the identification of areas of high ecological and biodiversity value and important links between these areas. Recommendations will be made for best practice in relation to the conservation, protection and enhancement of areas of natural heritage and biodiversity importance.

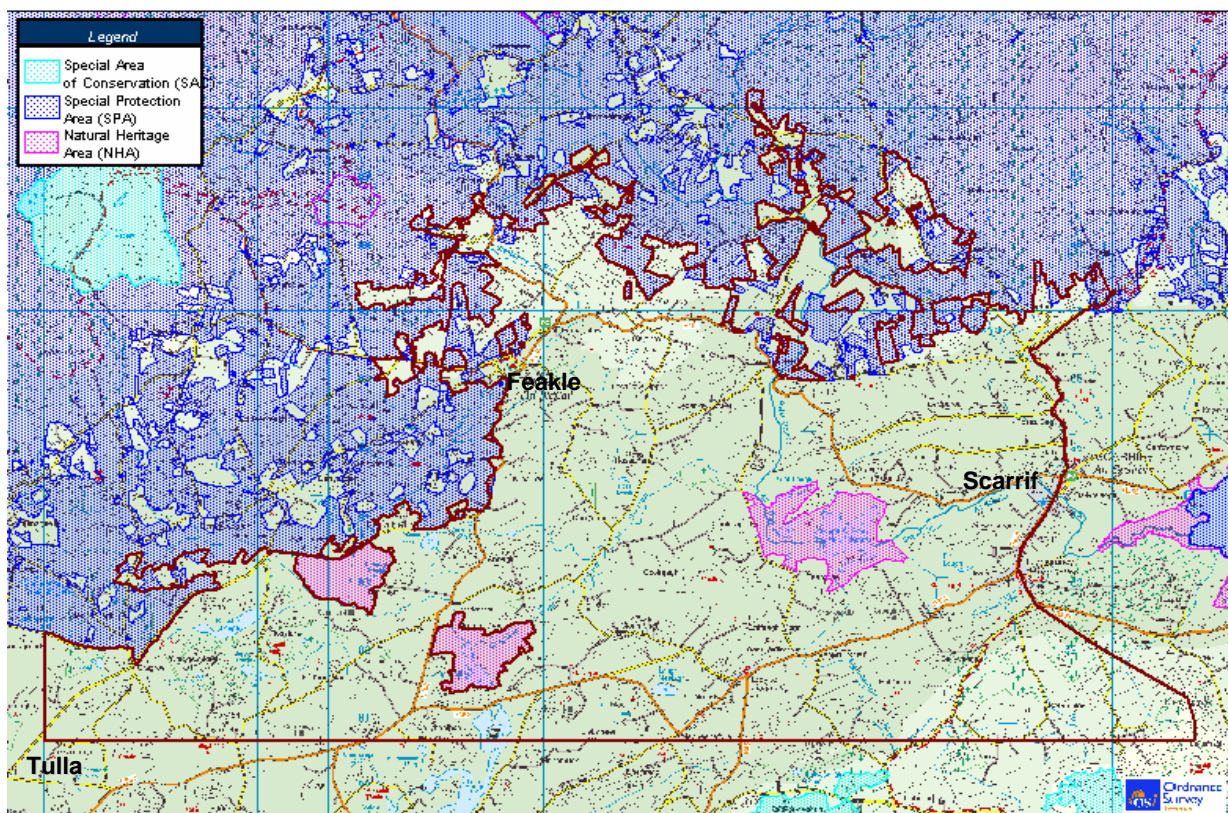


Figure 2.1: Study Area

The purpose of these surveys is to establish the following:

- To provide baseline data on the status of habitats of biodiversity value in Mid Clare,
- To continue development of the methodology and make recommendations for future refinements for use of the methodology in Clare,
- To raise awareness of the importance of biodiversity and habitats among landowners and residents in those areas surveyed,
- To inform future conservation policies in relation to habitats in County Clare,
- To utilise the data gathered on landscape features of ecological value in order to engage local communities in strengthening an eco-network at county level, and
- To utilise the data gathered on landscape features to inform the inclusion and mapping of ecological networks in upcoming Local Area Plans, aid Policy Decisions and the review of the County Development Plan.

2.2 BACKGROUND OF THE PROJECT TEAM

The Project Team represents a combination of expertise, experience and resources providing a range of professional services that are directly relevant to the described tasks.

Ecological assessment requires a high level of skill and practical ability. Ecologists and environmental staff in RPS Galway are supported further by ecological staff distributed between offices in Ireland and the United Kingdom. RPS staff are drawn from scientists and conservation practitioners with broad ecological experience that includes, site survey and evaluation, phase I habitat survey; botanical survey; bird survey; terrestrial mammal, bat and invertebrate surveys.

The field surveys were carried out by RPS ecologists. Paula Kearney was the project manager and is a Senior Project Ecologist within the environmental section of RPS Consulting Engineers in Galway. Paula has ten years of professional ecological and environmental experience. Richard Mundy, who is also a Senior Project Ecologist with RPS in Cork, assisted with training and advice in relation to the project. Paula assisted in the field surveys along with Jean Hamilton, Jennifer Fisher, John Curtin and Shane O'Neill. Jean joined RPS in 2006. Since then she has developed her skills in field survey techniques and methodology, and in ecological impact assessment. Jennifer Fisher, John Curtin and Shane O'Neill are independent botanists working on behalf of RPS. They all have extensive experience in terrestrial ecology and botany.

Dr. Ruth Staunton is a geologist with over nine years experience and has worked with RPS for over two years. She provided an interpretation of soil, geology and hydrogeology of the study area, using published information available from the GSI.

2.3 SCOPE

The scope of the project as per the brief provided by Clare County Council is as follows;

- 1) to map and provide supplementary information relating to all habitats within the survey area, to level III of the Fossit (2000) classification system,
- 2) to survey, map and provide supplementary information relating to all habitats listed on Annex I of the European Habitats Directive that occur within the survey area,
- 3) to survey, map and provide supplementary information relating to sites of local biodiversity value, flooding potential, ecological corridors and buffer zones within the survey area, and
- 4) provide an interpretation layer for non-specialists e.g. planners and non-expert users, to indicate habitats and areas of particular ecological value, sensitivity and potential wildlife corridors.

2.4 METHODOLOGY

The habitats within the study area were assessed by means of a desk study of literature pertinent to the area and surrounding area and field surveys. In addition all spatial data was digitised onto a Geographical Information System (GIS) MapInfo Professional version 8.5.

2.4.1 DESKTOP STUDY

The desktop study involved a comprehensive review of the existing information. The principal sources of information referred to during the desktop review are outlined below.

- Clare County Development Plan 2005-2011,
- South Clare Economic Corridor Local Area Development Plan (2003),
- Landscape Character Assessment in Ireland. The Heritage Council (2006),
- National and Local, Heritage and Biodiversity Plans,
- A review of the National Parks and Wildlife Service database for conservation sites,

- A review of any existing published and unpublished information from the National Parks and Wildlife Service, the Clare County Council and the Heritage Council, and
- Habitat/Land Use Maps available such as CORINE data.

Reference will be made to the methodologies and experience gained from the:

- Best Practice Guidance for Habitat Survey and Mapping (Prepublication Version Heritage Council, 2010),
- *A Guide to Habitats in Ireland.* Fossitt, J.A 2000. The Heritage Council, Co. Kilkenny.
- Hedgerow Survey Handbook,
- Local Biodiversity Action Plan, and
- Habitat Action Plans.

2.4.2 GIS, MAPPING & RECORDING

All available digital mapping and aerial photography was divided up into 3km² tiles for ease of processing and field work.

The aerial photography was carefully examined to interpret the type of habitats present within the study area. Using this method some habitats and their spatial extent can be easily identified such as field boundaries, areas of plantation forestry and agricultural grassland. Other habitats are however more difficult to identify such as types of woodland, peatland and swamp. All habitats are classified to Level III of the Fossitt Classification. This classification system is explained in **Section 2.4.4**.

All spatial data was digitised onto a GIS system (MapInfo Professional version 8.5). The advantages of digital mapping are many and include:

- GIS provides a much more effective and efficient means of storing and accessing mapped data,
- Improved data manipulation capabilities,
- Habitat areas can be calculated with much greater accuracy,
- Precise locations of features of interest can be mapped more accurately using GPS (Geographical Positioning System) data, and
- Alterations to site boundaries / habitat areas can be made much more easily.

2.4.3 FIELD ACCESS

Prior to the commencement of field surveys local representatives of the Irish Farmers' Association (IFA) were contacted by telephone. A number of actions resulted from these conversations, including advertising the commencement of the survey on local radio and in parish newsletters. Surveyors had information leaflets to issue to farmers during the site survey.

Where possible, prior to entering land, the landowners were located and asked for permission. Not all fields were entered if a habitat could be assessed from the road such as Improved Agricultural Grassland GA1. Overall, landowners encountered for the duration of the project were cooperative and enthusiastic to impart local knowledge on wildlife, land use and farming practices in the area.

2.4.4 FIELD SURVEY

The field survey was based on a combination of field survey and interpretation of aerial photographs, with the use of supporting information, where available.

A habitat is an area in which a specific plant or animal naturally lives, grows and reproduces; an area that provides a plant or animal with adequate food, water, shelter and living space. Through the mapping of habitats, information can be gathered about the plants and animals, which are associated with an area.

Habitats can vary in naturalness, depending on the extent to which they have been modified by development. Throughout Ireland, there is probably no habitat that can be considered completely natural and therefore an assessment is made related to degrees of naturalness.

Habitats can be in terrestrial, freshwater or marine environments, or a combination of these. Many techniques and methodologies have been developed to map habitats and classify habitats around the world; however the Heritage Council has produced a methodology and classification system specific to habitats found in Ireland. These include the following:

- Fossitt, J. (2000) *A Guide to Habitats in Ireland*. The Heritage Council, Kilkenny, and
- The Heritage Council (2002) *Draft Habitat Survey Guidelines: A standard methodology for habitat survey and mapping in Ireland*. The Heritage Council, Kilkenny.

The habitats on site were classified in accordance with the Fossitt Classification system. The classification is a standard scheme for identifying, describing and classifying wildlife habitats in Ireland. The classification is hierarchical and operates at three levels, outlining the correlation between its habitat categories and the phytosociological units (plant communities) of botanical classifications. The scheme identifies 11 broad habitat groups at level 1, 30 habitat subgroups at level 2, and 117 separate habitats at level 3. The codes assigned at each level reflect the names of habitat groups or subgroups. Correspondence with habitats listed in Annex I of the Habitats Directive (92/43/EEC) is also described.

The surveys were conducted during the months of July, August and September. The survey was prolonged due to adverse weather conditions in August which impeded progress.

2.4.5 MAP PRODUCTION

All habitats were mapped individually on MapInfo so that the exact location and true extent of the habitats will be available to Clare County Council and to aid future research.

Photographs were taken for each habitat types and accompany the habitat descriptions on the digital version of the accompanying Habitat Map. A number of photos are also included in **Section 4.2** which provides a description for each habitat type.

All maps and scientific data sets are collated, logged and referenced in a database that will be easy to manage and use as a tool for further research or applications by the Council.

3 STUDY AREA CONTEXT

3.1 STUDY AREA

The study area is located in Mid Clare, covering approximately 76.12km² of lands between Feakle in the North West to Tulla in the South West and to Scarriff in the east (see **Figure 1.1**). The study comprised the survey and mapping of habitats within this designated study area.

The main aim of the survey was to provide an inventory of the habitats present within the study area, excluding the sites already designated for nature conservation. The following section describes the existing environmental conditions within the study area, describing elements such as geology, soils, ecology and land use.

3.2 LANDFORM AND GEOLOGY

3.2.1 Landform

The land within the study site is generally low-lying with higher elevations at the foothills of the Slieve Aughty Mountains in the north of the study area. The minimum and maximum elevations reached within the site are 30m OD and 210m OD respectively. Poorly drained bog and wet marshland areas, or glacially formed depressions occur within the study site. The higher ground generally comprises well drained, gently undulating pastureland, with occurrences of uneven, hummocky till ridges. These ridges are either formed of limestone epikarst or are glacial features such as drumlins (small elongated hills, typically 500-800m long, 200-300m wide and 20-35m high). Figure 3.1 illustrates the setting of the study area within the landform of County Clare.

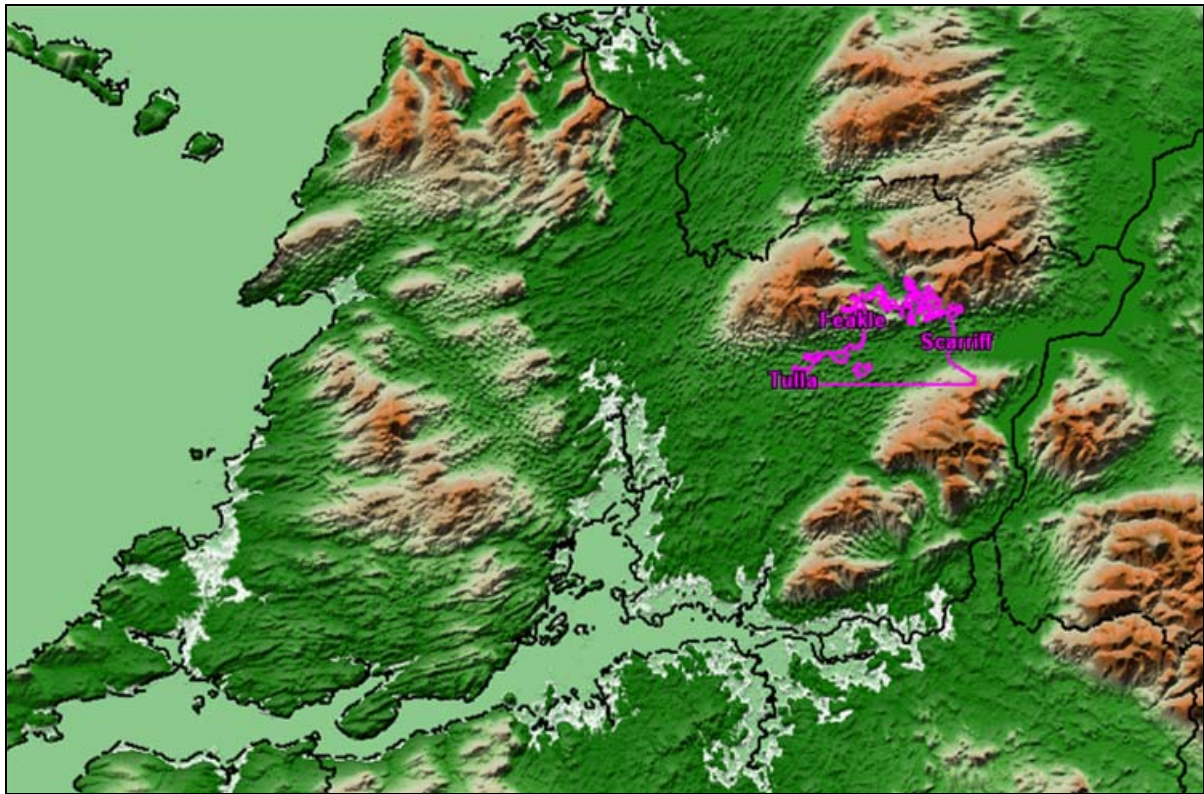


Figure 3.1: Landform of County Clare. The pink line delineates the Study Area.

3.2.2 Geology, Soils and Subsoils

The geology and soils of Mid Clare are the predominant factors influencing the habitats which it supports. The underlying geology generates a variety of soil-forming parent materials, which are an important element in governing the distribution of vegetation.

A general representation of the solid geology for the study area is presented in **Figure 3.2** and was constructed from available GSI (1:100,000) Bedrock Geology maps and reports. The two dominant rock types of the region are Lower Carboniferous Limestone, which underlies most of the southern half of the study area, and Silurian Quartzite, which covers the northern section at the foothills of the Slieve Aughties. Belts of Lower Avonian Shales and Sandstones run in a northeast-southwest direction across the middle and lower sections of the study area, and there is a section of Old Red Sandstone in the southeastern corner. A belt of Ordovician bedrock runs in to the western section of the site, around the Feakle area.

The Lower Carboniferous Limestone bedrock which underlies the southern section of the study site is known as the Ballysteen Formation, described as fossiliferous dark-grey muddy limestone. The Silurian Quartzite rock type in the northern section is known as the Kilanena Formation, which is composed of greywacke, siltstone and shale.

Based on information gleaned from the Teagasc Subsoils and Soils map, the study area is predominantly underlain by Lower Palaeozoic Sandstone and Shale Till (TLPSSs), Till Derived from Devonian Sandstones and Shales (TDSs) and organic peat derived from areas of cutover bog.

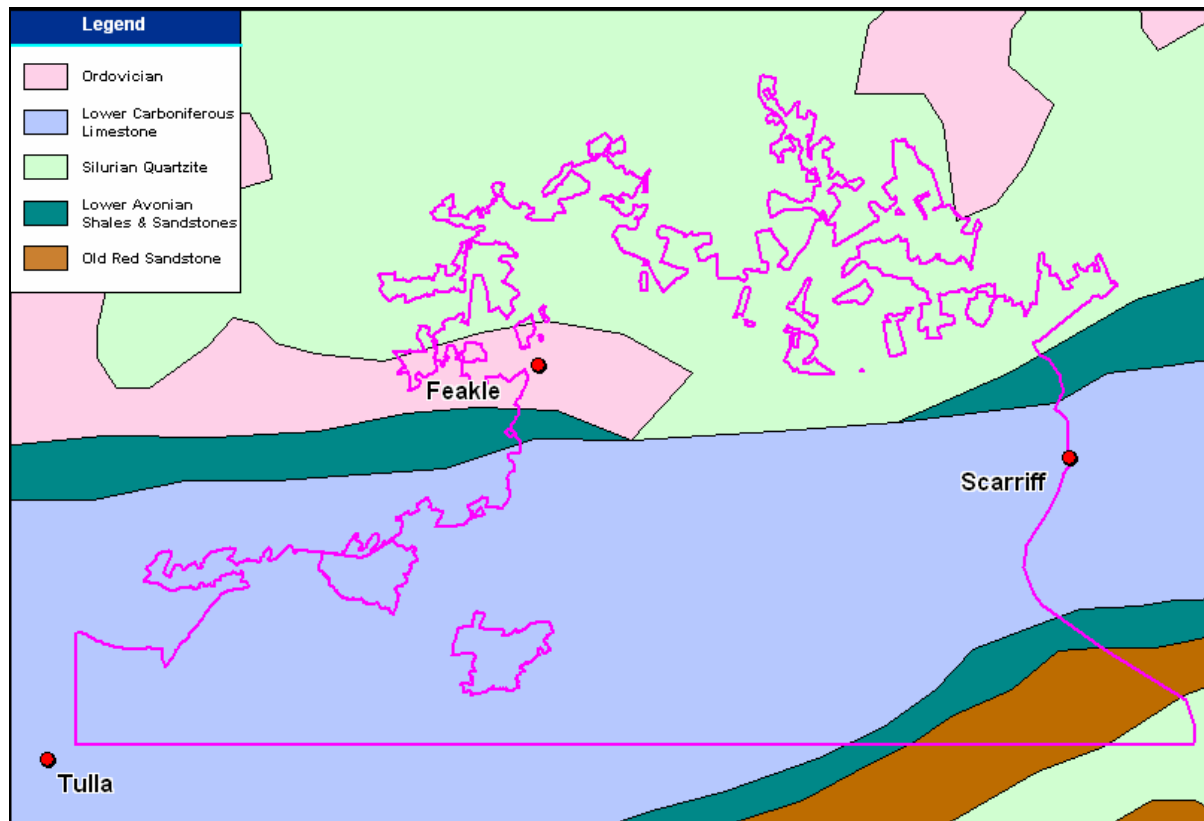


Figure 3.2: Geology of Study Area. The pink line delineates the Study Area

The Silurian Quartzite bedrock in the northern section of the study area has produced a well drained sandstone and shale which is highly productive for agriculture, and as a result Improved Agricultural Grassland (GA1) is the dominant habitat in this area.

Soils are generally quite shallow in the very northern section of the study area, at the foothills of the Slieve Aughties, producing generally acidic conditions, and the habitats which occur here include Acid Grassland (GS3) and Scrub (WS1).

Much of the central section, which is underlain by Lower Carboniferous Limestone, was once covered in peat bog. This has been cut away over time and improved for agriculture, however a peaty subsoil has persisted. This subsoil type is poorly drained, and as a result the main habitat types in this section are Wet Grassland (GS4) and Marsh (GM1). There are also large areas of Conifer Plantation (WD4) in this section. A large section of Cutover Bog (PB4) is present in this area, as well as some small pockets of intact Raised Bog (PB1) and

limited areas of associated peatland habitats such as Bog Woodland (WN7) and Poor Fen and Flush (PF2).

The shales and till subsoils of the southern area are, like the northern section, quite well drained and are extensively used for pasture and so the dominant habitat here is again Improved Agricultural Grassland (GA1).

3.2.3 Geological Heritage

It has been recognised nationally that sites of geological interest are not comprehensively addressed by existing nature conservation designations. Consequently, the Department of the Environment Heritage and Local Government (DoEHLG) and the Geological Survey of Ireland (GSI) are currently compiling a list of sites of national geological and geomorphological interest that will be proposed as Geological Natural Heritage Areas (NHA's). This forms part of The Irish Geological Heritage (IGH) programme.

The GSI has indicated that there are two Designated Areas of Geological Heritage within and in the vicinity of the study site as follows:

- The Tomeen Cave System is located in the townlands of Milltown and Kiltanon (Site Code IGH1-57). The Tomeens is an excellent example of a shallow developed river cave with unroofed, partially roofed and fully roofed sections, the unroofed sections resulting from roof collapse. It has a number of stream oxbows and dry oxbows. The process is still in progress, and will ultimately result in a stream canyon.
- Maghera TV road quarry, located in the townlands of Feakle and Maghera (Site Code IGH4-46) comprises Olivine-pyroxene tuffs that are exposed in a small quarry along a private road. They are within the Caradoc rocks of the Caher Hill Formation which include a suite of volcanic rocks such as spilite, pyroxene-olivine basalt, basic tuffs and volcanic breccias, amygdaloidal trachytes, graptolitic black shales and cherts.

The IGH sites found within or adjacent to the study area boundary are provided in **Table 3.1**.

Table 3.1: Geological Heritage Sites in Mid Clare

Site No.	Site Name	NHA	Townland(s)/ district	Grid Ref.	Principal characteristics - Summary description
IGH15	Ballyhickey [Pb, Ag, calcite]	-		R 425 765	Water filled open pit, and not much dump material. Originally was used for walling stone. This site has no commercial potential.
IGH8	Tomeens	-	Milltown, Kiltanon	R 467 813	Waulsortian limestone mudmound with contact with Ballysteen Limestone Formation
IGH1-57	Tomeens	NHA	Milltown, Kiltanon	R 47 82	The Tomeens is an excellent example of a shallow developed river cave with unroofed, partially roofed and fully roofed sections, the unroofed sections resulting from roof collapse. It has a number of stream oxbows and dry oxbows. The process is still in progress, and will ultimately result in a stream canyon. It is within the massive Waulsortian Limestone Formation.
IGH8	Turrett Hill	NHA	Deerpark South, Cullaun	R 472 738	Tulla volcanics and only Brigantian exposed in the south of Clare
IGH4-46	Maghera TV road quarry	NHA	Feakle, Maghera, off private road to TV mast	R 520 901	Olivine-pyroxene tuffs are exposed in a small quarry along a private road. They are within the Caradoc rocks of the Caher Hill Formation which include a suite of volcanic rocks such as spilite, pyroxene-olivine basalt, basic tuffs and volcanic breccias, amygdaloidal trachytes, graptolitic black shales and cherts.
IGH8	Ballycroum Hill	-	Ballycroum Td., Feakle	R 541 886	An excellent unconformity with flat lying conglomerate beds overlying truncated ends of nearly vertical Sliurian slates.
IGH10	Caher Hill	-	Caher	R 5475 9065	Caher Hill is the type locality for the Caher Hill Formation. Yellow, cream and pink-coloured amygdaloidal trachytes occur here. The yellow trachytes host enclaves up to 10cm in diameter of basic composition. The pink trachytes contain abundant orthoclase phenocrysts. The trachytes overlie a succession of black shales and cherts, basic lapilli tuffs and a sequence of basic tuffs, lavas and breccias. These rocks provide a record of sedimentation and volcanic eruptions within the contracting Iapetus Ocean. Graptolites found within the black shales have yielded a late Ordovician, Caradoc age for the rocks. The Caher Hill Formation is also exposed south and west of Lough Graney and near Lough Ea. Spillitic lavas occur at the latter locality.
IGH4-3	Ballymalone Quarry	-		R 648 813	The Ordovician rocks of the Ballymalone Formation have been dated by graptolite fossils to be of Caradoc age. The site provides the only representative section of these rocks in the northeastern part of the Slieve Bernagh inlier, and complements the Ballyvorgal South site. The fossils were collected from the streambed, adjacent to the quarry (Rickards and Archer 1969), in difficult collecting circumstances so the availability of fresh, good exposures in the quarry offers great potential for more detailed research on the graptolite fauna.

3.3 LAND USE

The well-drained shales and till subsoils which cover most of the study area are ideal for agriculture, and much of the area is used for pasture. The central section of peaty subsoils provides a variety of land uses including peat extraction, forestry, pasture and silage. The villages and towns including Feakle, Scarriff and Tuamgraney support residential and commercial business.

Peat extraction is a prominent activity within the Raised Bog at Coolreagh in the central region of the study area.

There are also a number of local amenities within the study area which can be enjoyed by tourists and residents of the towns include the following: Game and coarse fishing, Horse riding, and Walking. A large golf course (approximately 62ha) has been built to the south east of the bog in Coolreagh. The “The East Clare Way”, which is a regional walking route, weaves through the edge of the study area. This walk is important from a tourism perspective.

3.4 ECOLOGICAL IMPORTANCE

County Clare has a rich and varied landscape and supports a diversity of wildlife and habitats that are both rare in Ireland and Europe. Areas that represent good examples of nationally and internationally important habitats are designated for nature conservation.

Sites of high conservation importance occur within and adjacent to the study area. These sites have been designated as they support a diversity of species that are protected on a National and International scale. The study excludes sites designated for nature conservation; however a review of these sites provides a valuable insight into the landscape and its capability to support such biodiversity.

A number of sites are currently designated for nature conservation under both European and National legislation. These designated sites include; Natural Heritage Areas (NHA), Special Areas of Conservation (SAC) and Special Protection Areas (SPA). Details of applicable legislation are provided in **Table 3.3** and details of designated sites are detailed in **Table 3.3**, and illustrated in **Figure 3.3**.

Table 3.2: National and European Legislation for Nature Conservation

Legislation		Explanatory Note
EU Legislation	Habitats Directive 92/43/EU (transposed into Irish Law under the European Communities (Natural Habitats) Regulations 1997 SI/97/094 as amended)	This legislation is structured around the 'Natura 2000' network of protected sites and a strict system of species protection. Ireland has a legal obligation to protect the habitats and species which are listed in the Annexes to the legislation, as Special Areas of Conservation (SACs). The main objective of the Directive is to maintain or restore natural habitats, and species of plants and animals, which are of conservation importance as defined in the Directives, at a favourable conservation status. Ireland supports 60 Annex I habitats that require special conservation measures and, of these, 16 are priority types that are considered to be in danger of disappearance (see Table 4.2).
	Birds Directive 79/409/EE	This Directive identifies 194 species and sub-species of birds afforded protection. Annex 1 lists the bird species for which conservation requires the designation of Special Protection Areas (SPAs); this also applies to important concentrations of migratory birds. SPAs also form part of the Natura 2000 network of sites.
NATIONAL LEGISLATION	Wildlife (as amended) Act 1976	This legislation aims to protect sites of scientific interest because of their habitats, plants and animals, or landforms and geological or geomorphological features from damaging developments and / or land uses. At a national level it provides a mechanism through which statutory protection is afforded as Natural Heritage Areas (NHAs). It also strengthens the protective status of SACs and SPAs by ensuring that protection will in all cases apply from the time of notification of proposed SAC and SPA sites. The Act further encompasses the statutory protection for important geological and geomorphological sites, including fossil sites by designation as NHAs.
	The Flora (Protection) Order 1999	This order sets out a list of plant species which are protected by Section 21 of the Wildlife Act, 1976 (as amended). If a plant species appears in this list it is illegal to cut, uproot or damage the listed species in any way, or to offer them for sale. This prohibition extends to the taking or sale of seed. It is also illegal to alter damage or interfere in any way with their habitats. This protection applies wherever the plants are found and is not confined to designated sites.

Table 3.3: Brief Description of Designated Sites Located within or Adjacent to the Study Area

	Brief Description
SPA 004168	Slieve Aughty Mountains is a very large site that extends southwards from just south of Lough Rea, County Galway to Scariff in County Clare. The peaks are not notably high or indeed pronounced; the site rises to a maximum of 378 m near Cappaghbaun Mountain. This site includes many small- and medium-sized lakes, notably Lough Graney and Lough Atorick; several important rivers rise in the site, including the Owendalulleagh and Graney. Lough Derg occurs immediately to the south-east. The Slieve Aughty hills are predominantly comprised of Old Red Sandstone, but outliers of Lower Palaeozoic rocks provide occasional outcrops capping the hills. The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for Hen Harrier and Merlin. The main threat to the long-term survival of Hen Harriers within the site is further afforestation, which would reduce and fragment the area of foraging

	Brief Description
	habitat, resulting in possible reductions in breeding density and productivity. The Slieve Aughty Mountains have a number of large wind farm developments but it is not yet known if these have any adverse impacts on the Hen Harriers. Overall, the site provides excellent nesting and foraging habitat for breeding Hen Harrier and is one of the top two sites in the country for the species.
NHA 000993	Ayle Lower Bog , located north east of Tulla, is a small area of intact raised bog which is bordered by a large area of cut-away to the north. The bog has been subject to burning in recent years, but is showing signs of regeneration. Heather (<i>Calluna vulgaris</i>) is dominant throughout much of the site. The central dome of the bog holds deep spongy Sphagnum lawns with such species as <i>Sphagnum magellanicum</i> and <i>S. imbricatum</i> growing in hummocks. Old hummocks of <i>Leucobryum glaucum</i> occur occasionally. The western section and the margins of the bog are much drier and are generally dominated by Deer-grass (<i>Trichophorum cespitosum</i>) and Carnation Sedge (<i>Carex panicea</i>), with little <i>Sphagnum</i> and widespread patches of bare peat. Stands of Birch (<i>Betula</i> spp.) and Willows (<i>Salix</i> spp.) occur on the northern boundary of the site. Though the bog has been damaged by peat cutting and burning, it retains a reasonably intact central dome and is considered to be of at least local scientific importance.
NHA 001020	Loughanilloon Bog , located approximately 7km north-east of Tulla, comprises a small raised bog and an adjacent small lake. The bog is quite dried out and is devoid of standing water. A deep drain is present along the southern margin. The bog has been subject to burning in recent years and is grazed by cattle during the summer. The River Graney flows along its north-west border and by the cut-away areas along the south-west, south-east and western borders. The dominant species throughout much of the site are Ling (<i>Calluna vulgaris</i>), Deergrass (<i>Trichophorum cespitosum</i>) and Hare's-tail Cottongrass (<i>Eriophorum vaginatum</i>). There are occasional hummocks of bog mosses (<i>Sphagnum papillosum</i> , <i>S. magellanicum</i> and <i>S. capillifolium</i>) but generally higher plants have taken over from mosses. The ground is generally dry and firm and there are patches of bare peat, though Sphagnum is regenerating well locally. The cut-away areas at the margins of the bog are colonised by Willows (<i>Salix</i> spp.), Birch (<i>Betula</i> spp.) and Gorse (<i>Ulex europaeus</i>). Wetland vegetation surrounds the lake, with Rushes (<i>Juncus</i> spp.), Sedges (<i>Carex</i> spp.) and Reeds (<i>Phragmites australis</i>) widespread. Wet grassland vegetation also occurs. Fields to the north of the lake which are liable to flooding provide habitat for Whooper Swans, Lapwing, Curlew, Snipe and other waterfowl. Badger, Fox, Pine Marten and Otter are also known to occur within the site. The ecological interest of this site lies in the diversity of habitat types from open water to marsh and raised bog.
pNHA 001019	Lough O'Grady pNHA comprises two lakes – Lough O'Grady, a medium sized lake situated approximately 3km south-west of Scarriff, and Keel Lough, a small lake north-west of O' Grady. The River Graney flows in to Lough O'Grady at the west end, while the Scarriff River flows out at the eastern side. The fringing vegetation is sparse but diverse. Wet woodland, composed mainly of Willow (<i>Salix</i> spp.) and Birch (<i>Betula</i> spp.) occurs at the western end of the site. A variety of wet grassland and freshwater marsh occurs around the lake. The lake is an important site for wildfowl, with regionally significant populations of Teal, Mallard, Wigeon and Lapwing. Greenland White-fronted Geese visit the site regularly and use Island O' Grady, near the southern shore of the lake, as a roost. The main ecological interest of this site is in regard to wildfowl, especially due to the presence of Greenland White-fronted Geese. There is also a good diversity of habitats present, ranging from open water to marsh/wet grassland and scrub and wet woodland. The site is relatively undamaged.

	Brief Description
NHA 002442	<p>Maghera Mountain Bogs, lying approximately 16km south of Gort, consists of three upland blanket bogs bounded by either conifer plantation or enclosed agricultural land with rushy pasture. Altitude ranges between 200m and 360m. The bedrock underlying the site is Old Red Sandstone. The site supports a wide variety of habitats including upland blanket bog, flush, heath and scrub. Blanket bog vegetation is dominated by Common Cottongrass (<i>Eriophorum vaginatum</i>), Deergrass (<i>Trichophorum cespitosum</i>) and Ling Heather (<i>Calluna vulgaris</i>) on deep peat, with occasional tussocks of Purple Moor-grass (<i>Molinia caerulea</i>). There are abundant hummocks of the moss <i>Racomitrium lanuginosum</i>, growing with the lichen <i>Cladonia portentosa</i>, Tormentil (<i>Potentilla erecta</i>), Ling Heather, Heath Milkwort (<i>Polygala serpyllifolia</i>) and Hare's-tail Cottongrass (<i>Eriophorum vaginatum</i>). Other hummocks, dominated by <i>Racomitrium lanuginosum</i> and the Bog Moss <i>Sphagnum capillifolium</i>, are common. Some areas are deep and quaking. Three Red Data book species, Irish Hare, Otter and Red Grouse, have been recorded on the site. This site is of major ecological significance due to the presence of a variety of habitats, in particular upland blanket bog, a globally scarce resource.</p>
SAC/pNHA 1912	<p>Glendree Bog is located in the Slieve Aughty mountain range, approximately 13km west-north-west of Scarriff. The site comprises upland blanket bog with a series of small valleys and plateaux, rimmed with sandstone outcrops. Lough Ea is situated on its eastern boundary. The blanket bog vegetation is dominated by Purple Moor-grass (<i>Molinia caerulea</i>), with frequent Common Cottongrass (<i>Eriophorum angustifolium</i>), Deergrass (<i>Trichophorum cespitosum</i>), Tormentil (<i>Potentilla erecta</i>), Carnation Sedge (<i>Carex panicea</i>) and bog mosses (<i>Sphagnum capillifolium</i>, <i>S. papillosum</i> and <i>S. subnitens</i>). In the low-lying areas adjacent to Lough Nacally more flushed, species-rich areas occur. These support Black Bog-rush (<i>Schoenus nigricans</i>), Common Reed (<i>Phragmites australis</i>), Sharp-flowered Rush (<i>Juncus acutiflorus</i>) and sedges. Three oligotrophic lakes occur on the site, with such characteristic species as Water Lobelia (<i>Lobelia dortmanna</i>), Shoreweed (<i>Littorella uniflora</i>) and the regionally rare Quillwort (<i>Isoetes lacustris</i>). The site's fauna is typical of peatland, with Snipe, Red Grouse, Irish Hare Common Lizard and Common Frog present. Small numbers of Greenland White-fronted Geese use the site for roosting. According to the National Parks and Wildlife Conservation Plan for the site for 2005-2010, a Hen Harrier (<i>Circus cyaneus</i>) was recorded over the site in 2000. They have been recorded as breeding in the nearby Maghera Mountains in the past and a survey in 2000 revealed these mountains to be a possible, though unconfirmed breeding site (Oliver 2000). They use the general area as part of their feeding range. The main threat to the site is peat-cutting, significant areas have been subject to turbary cutting. Glendree contains a wide variety of habitats and is very species-rich. It is of major ecological importance due to the scarcity of blanket bog and because of the presence of the regionally rare species, Quillwort.</p>

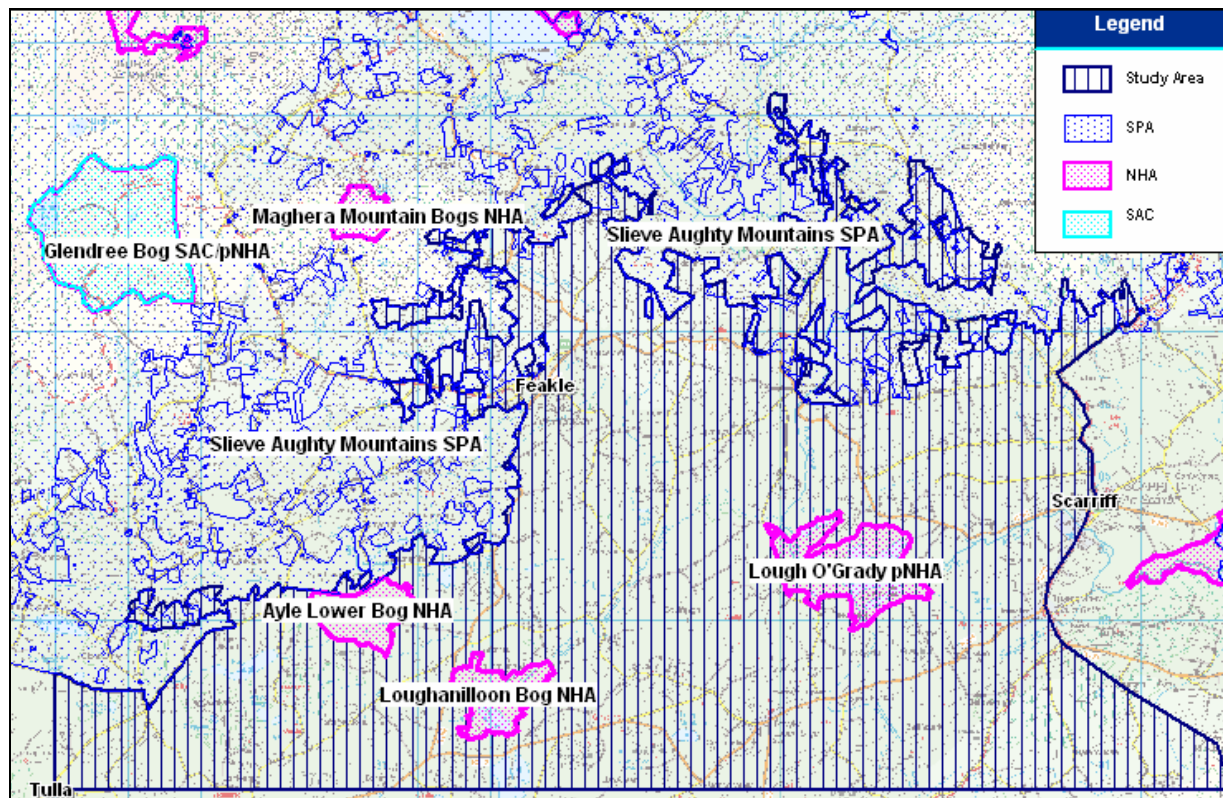


Figure 3.3 Designated Sites within and adjacent to the Study Area.

3.4.1 RARE AND PROTECTED SPECIES WITHIN THE STUDY AREA

The NPWS Rare and Protected Species database was consulted for records on species of conservation importance in the area. This database has records for animals and plants of conservation importance in individual 10 x 10 km squares. The study area falls within 4 10 x 10 km squares – R58, R59, R68 and R69. The Rare and protected species recorded within these squares are shown in **Table 3.4**.

Table 3.4: NPWS Rare and Protected Species Records

Common Name	Scientific Name	Grid Square(s)
Whiskered Bat	<i>Myotis mystacinus</i>	R58
Irish Stoat	<i>Mustela erminea subsp. hibernica</i>	R68
Small Wood-Reed	<i>Calamagrostis epigejos</i>	R69
Cladonia ciliata var. tenuis	<i>Cladonia ciliata var. tenuis</i>	R58
Cladonia portentosa	<i>Cladonia portentosa</i>	R58
Badger	<i>Meles meles</i>	R58, R59, R68, R69
Fallow Deer	<i>Dama dama</i>	R58, R59, R68, R69
Irish Hare	<i>Lepus timidus subsp. hibernicus</i>	R59, R68, R69
Otter	<i>Lutra lutra</i>	R58, R68, R69
Pine Marten	<i>Martes martes</i>	R58, R68, R69
Common Frog	<i>Rana temporaria</i>	R59, R69

4 HABITATS

4.1 HABITAT EVALUATION

The ecological interest of a site is assessed based on whether it is of *international, national, regional or local importance* as this has a direct bearing on its magnitude and significance. All impacts related to species or habitats protected by statute or Biodiversity Action Plans, priority species or habitats that are considered at national level. Seasonal factors that affect distribution patterns and habitats of species were taken into account when conducting the surveys and the potential of the site to support certain populations.

Consideration was given to the guidelines produced by the National Road Authority 'Guidelines for Assessment of Ecological Impacts of National Road Schemes, NRA Revision 1, 2006'. **Table 4.1** provides a suggested ranking based on the Site Evaluation Scheme as detailed in the NRA Guidelines. The wording in the table has been adjusted slightly and references to fisheries waters have been removed for the purposes of this report.

Table 4.1: Ecological Site Evaluation Scheme



Ratings for Ecological Sites	
A	<p>International Importance:</p> <ul style="list-style-type: none"> - 'European Site' including Special Area of Conservation (SAC), Site of Community Importance (SCI), Special Protection Area (SPA) or proposed Special Area of Conservation. - Proposed Special Protection Area (pSPA). - Site that fulfills the criteria for designation as a 'European Site' (see Annex III of the Habitats Directive, as amended). - Features essential to maintaining the coherence of the Natura 2000 Network. - Site containing 'best examples' of the habitat types listed in Annex I of the Habitats Directive. - Resident or regularly occurring populations (assessed to be important at the national level) of the following: <ul style="list-style-type: none"> o Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive; and/or o Species of animal and plants listed in Annex II and/or IV of the Habitats Directive. - Ramsar Site (Convention on Wetlands of International Importance Especially Waterfowl Habitat 1971). - World Heritage Site (Convention for the Protection of World Cultural & Natural Heritage, 1972). - Biosphere Reserve (UNESCO Man & The Biosphere Programme). - Site hosting significant species populations under the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals, 1979). - Site hosting significant populations under the Berne Convention (Convention on the Conservation of European Wildlife and Natural Habitats, 1979). - Biogenetic Reserve under the Council of Europe. - European Diploma Site under the Council of Europe. - Salmonid water designated pursuant to the European Communities (Quality of Salmonid Waters) Regulations, 1988, (S.I. No. 293 of 1988).

Ratings for Ecological Sites	
B	<p>National Importance:</p> <ul style="list-style-type: none"> - Site designated or proposed as a Natural Heritage Area (NHA). - Statutory Nature Reserve. - Refuge for Fauna and Flora protected under the Wildlife Acts. - National Park. - Undesignated site fulfilling the criteria for designation as a Natural Heritage Area (NHA); Statutory Nature Reserve; Refuge for Fauna and Flora protected under the Wildlife Act; and/or a National Park. - Resident or regularly occurring populations (assessed to be important at the national level) of - the following: <ul style="list-style-type: none"> o Species protected under the Wildlife Acts; and/or o Species listed on the relevant Red Data list. - Site containing 'viable areas' of the habitat types listed in Annex I of the Habitats Directive.
C	<p>County Importance:</p> <ul style="list-style-type: none"> - Area of Special Amenity. - Area subject to a Tree Preservation Order. - Area of High Amenity, or equivalent, designated under the County Development Plan. - Resident or regularly occurring populations (assessed to be important at the County level) of the following: <ul style="list-style-type: none"> o Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive; o Species of animal and plants listed in Annex II and/or IV of the Habitats Directive; o Species protected under the Wildlife Acts; and/or o Species listed on the relevant Red Data list. - Site containing area or areas of the habitat types listed in Annex I of the Habitats Directive that do not fulfil the criteria for valuation as of International or National importance. - County important populations of species, or viable areas of semi-natural habitats or natural heritage features identified in the National or Local BAP, if this has been prepared. - Sites containing semi-natural habitat types with high biodiversity in a county context and a high degree of naturalness, or populations of species that are uncommon within the county. - Sites containing habitats and species that are rare or are undergoing a decline in quality or extent at a national level.
D	<p>Local Importance (higher value):</p> <ul style="list-style-type: none"> - Locally important populations of priority species or habitats or natural heritage features identified in the Local BAP, if this has been prepared; - Resident or regularly occurring populations (assessed to be important at the Local level) of the following: <ul style="list-style-type: none"> o Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive; o Species of animal and plants listed in Annex II and/or IV of the Habitats Directive; o Species protected under the Wildlife Acts; and/or o Species listed on the relevant Red Data list. - Sites containing semi-natural habitat types with high biodiversity in a local context and a high degree of naturalness, or populations of species that are uncommon in the locality; - Sites or features containing common or lower value habitats, including naturalised species that are nevertheless essential in maintaining links and ecological corridors between features of higher ecological value.

Ratings for Ecological Sites	
E	Local Importance (lower value): <ul style="list-style-type: none">- Sites containing small areas of semi-natural habitat that are of some local importance for wildlife;- Sites or features containing non-native species that are of some importance in maintaining habitat links.

The habitats recorded within the study area, percentage cover and overall ranking in accordance with the guidelines in **Table 4.1** are detailed in **Table 4.2**.

Table 4.2: Conservation Value of Habitats Recorded Within the Study Area

Habitat Group	Habitat Sub-Group	Habitat	Links to Annex I Habitats	Townland	% Cover	Ranking
F Freshwater	FL Lakes and Ponds	FL2 Acid oligotrophic lakes	Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea (3130)	Lough O'Grady, Keel Lough.	0.76	B – High International/National
		FL3 Limestone Marl Lakes	Limestone & Marl Lakes corresponds to the annexed habitat, 'hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp. (3140)'.	Rosslara Lough, Maryfort Lough and Castle Lough.	0.28	B – High International/National
		FL4 Mesotrophic lakes	Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea (3130)	Craggaunkeel Lough, Lough Bridget, Lough Meelagh, Dromore Lough.	0.36	C- High
	FW Watercourses	FW1 Eroding/upland rivers	Watercourses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation (3260)	Throughout the study area.	 7.2 	C- High
		FW2 Depositing/lowland rivers	**Rivers with muddy banks with Chenopodium rubri p.p. and Bidenton p.p. vegetation (3270)	Throughout the study area.		C- High
		FW4 Drainage ditches				D- Moderate
	FS Swamps	FS1 Reed and large sedge swamps		Occurs in drains, rivers and fringing lakes throughout study site	0.12	C- High

Habitat Group	Habitat Sub-Group	Habitat	Links to Annex I Habitats	Townland	% Cover	Ranking
G Grassland & Marsh	GA Improved grassland	GA1 Improved agricultural grassland		Occurs throughout the study area	62.61	E-Low
		GA2 Amenity grassland		Throughout the study site. Largest area comprises a golf course in the townland of Coolreagh Beg	1.47	E-Low
	GS Semi-natural grassland	GS1 Dry calcareous and neutral grassland	<p>**Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometea) (important orchid sites) (6210)</p> <p>**Juniperus communis formations on heaths or calcareous grasslands (5130)</p> <p>**Calaminarian grasslands of the Violetalia calaminariae (6130)</p>	Occurs throughout Study Site, particularly in the south west and north.	2.49	C - High
		GS2 Dry meadows and grassy verges	Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis) (6510)	Scattered throughout the study area, particularly in the north western section in the townlands of Feakle and Lecarrow Lower.	0.75	C - High
		GS3 Dry-humid acid grassland	*Species-rich Nardus grasslands on siliceous substrates in mountain areas (and submountain areas in continental Europe) (6230)	Clashmore, Lecarrow Lower, Core.	0.22	C - High
		GS4 Wet grassland	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) (6410)	Found throughout the study area	14.28	D/C- Moderate to High

Habitat Group	Habitat Sub-Group	Habitat	Links to Annex I Habitats	Townland	% Cover	Ranking
	GM Freshwater marsh	GM1 Marsh	**Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels (6430)	Scattered throughout the study area	0.54	D/C- Moderate to High
H Heath & Dense Bracken	HH Heath	HH3 Wet heath	Northern Atlantic wet heaths with <i>Erica tetralix</i> (4010)	Feakle, Kilbarron, Rossanure	0.33	C- High
	HD Dense bracken	HD1 Dense bracken		Small patches scattered throughout the study area.	0.09	E - Low
P Peatlands	PB Bogs	PB1 Raised bogs	*Active raised bogs (7110)	Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch.	0.47	A/B- International/National
		PB4 Cutover bog	Depressions on peat substrates of the <i>Rhynchosporion</i> (7150)	Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch, Rosslara, Cloondorney, Drummaghmartin, Lecarrow North, Callahy.	2.5	C- High
	PF Fens and Flushes	PF1 Rich Fen and Flush	Alkaline fens (7230) and *Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> (7210)	Drumminnanav, Callahy	0.01	A/B- International/National
		PF3 Transition Mire and Quaking Bog	Transition mires and quaking bogs (7140)	Kilbarron	0.00	A/B- International/National
W Woodland and scrub	WN Semi-natural woodland	WN1 Oak-birch-holly woodland	Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles (91A0)	Found mainly in the north-east of the study area; in the townlands of Coolreagh Beg and Fossa More.	0.23	C- High

Habitat Group	Habitat Sub-Group	Habitat	Links to Annex I Habitats	Townland	% Cover	Ranking
		WN2 Oak-ash-hazel woodland		Throughout west and south west of study site, in the townlands of Rossanure, Coolreagh, Boherurd and Craggaunkeel	0.98	C- High
		WN4 Wet pedunculate oak ash woodland		Gortaderry, Ross	0.02	
		WN6 Wet willow alder ash woodland		In the middle and south-western section of the study area, in the townlands of Feakle, Rossanure, Core, Coolreagh Beg, Core and Lecarrow North	0.25	
		WN7 Bog woodland	*Bog woodland (91D0)	Coolreagh Beg, Fossa More, Core, Rossanure, Clonmoher, Annaghneal, Craggaunkeel, Lecarrow North	0.70	C- High
	WD Highly modified/non-Native Woodland	WD1 (Mixed) broadleaved woodland		Found throughout the study area.	0.74	D- Moderate
		WD2 Mixed broadleaved/conifer woodland		Throughout study site. The largest area occurs in the south east, in Ballincurrian townland.	1.01	E/D- Low to Moderate
		WD3 (Mixed) Conifer plantation		Ayle Lower, Lecarrow North, Craggaunkeel, Rosslara, Cloondorney, Drummaghmartin, Coolready.	1.36	E/D- Low to Moderate
		WD4 Conifer plantation		Large area in the south eastern corner, in the	4.42	E-Low

Habitat Group	Habitat Sub-Group	Habitat	Links to Annex I Habitats	Townland	% Cover	Ranking
				townlands of Ballymalone and Ballyvannan, and scattered throughout the study area.		
		WD5 Scattered trees and parkland		Maryfort (Lismeehan)	0.22	D- Moderate
	WS Scrub/transitional woodland	WS1 Scrub	**Juniperus communis formations on heaths or calcareous grasslands (5130)	Throughout study site.	1.44	D- Moderate
		WS2 Immature woodland		Lecarrow Lower, Feakle, Dromore, Lecarrow North, Lisbarreen, Ballincurrag, Ballymalone.	0.89	E/D- Low to Moderate
	WL Linear woodland/scrub	WL1 Hedgerows		Throughout study area.		D- Moderate
		WL2 Treelines		Throughout study area.		D/C- Moderate to High
E Exposed rock and disturbed ground	ER Exposed rock	ER2 Exposed calcareous rock	**Calcareous rocky slopes with chasmophytic vegetation (8210) & *limestone pavements (8240)	One very small patch in the townland of Annagh	0.00	B- High International/National
	ED Disturbed Ground	ED2 Spoil and bare ground		Rossanure, Feakle, Coolready.	0.06	E-Low
		ED3 Recolonising bare ground		Poulagower, Ballynahinch, Knockagower.	0.07	E/D-Low to Moderate
B Cultivated and built land	BC Cultivated land	BC2 Horticultural land		Ballyvannan	0.01	E/D-Low to Moderate
		BC3 Tilled Land		Lecarrow Lower	0.01	
	BL Built Land	BL3 Buildings & Artificial Surfaces		Found throughout the study area		E-Low

* Annex I Habitats also listed as Priority Habitats under the EU Habitats Directive (Directive 92/43/EEC, amended by Directive 97/62/EC). Priority Habitats are habitats at risk from disappearance.

** Annex Habitats not found within study area

4.2 HABITATS RECORDED WITHIN STUDY AREA

The following section comprises summary descriptions and assessments of the principal habitats of found within the study area. Habitats of high conservation and biodiversity interest are complemented by species lists and target notes which are contained in Appendix A.

- **Acid Oligotrophic Lakes FL2**

Acid Oligotrophic Lakes FL2 are mainly confined to the mid-east of the Study Area, with one isolated example in area of Cutover Bog in the townland of Rosslara in the south west of the Study Area. They range in size from 0.03ha to 45.9ha.

Lough O'Grady, located 3km south west of Scarriff, is classified as an Acid Oligotrophic Lake and is a proposed Natural Heritage Area. The River Graney flows in to Lough O'Grady at the west end, while the Scarriff River flows out at the eastern side. The fringing vegetation is sparse but diverse. Wet woodland, composed mainly of Willow (*Salix* spp.) and Birch (*Betula* spp.) occurs at the western end of the site. A variety of wet grassland and freshwater marsh occurs around the lake. There is a good diversity of plants, with sedges (*Carex* spp.) and rushes (*Juncus effusus*) dominant in places, along with such species as Meadowsweet (*Filipendula ulmaria*), Cuckoo plant (*Cardamine pratensis*), and Devil's Bit Scabious (*Succisa pratensis*). The drier areas of grass are less species rich and are dominated by grasses and rushes. Island O'Grady near the southern shore is mainly improved pasture and is well grazed.

The lake is an important site for wildfowl, with regionally significant populations of Teal, Mallard, Wigeon and Lapwing. Greenland White-fronted Geese visit the site regularly and use Island O' Grady, near the southern shore of the lake, as a roost.

On the day of the site visit, Zebra Mussels (*Dreissena polymorpha*) were found in the lake. Lough O Grady is connected to Lough Derg by the Scariff River which may be acting as a corridor for the mussels. This poses a threat to the ecology of Lough O'Grady, as the Zebra Mussel is an invasive species that can have devastating effects on the ecology of water bodies.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	Acid oligotrophic lakes correspond to two annexed habitats, 'oligotrophic waters containing very few minerals of sandy plains (<i>Littorelletalia uniflorae</i>) (3110)' and 'oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the <i>Isoëto-Nanojuncetea</i> (3130)'.	Lough O'Grady, Keel Lough.



Image 4.1: Zebra Mussels on the shore of Lough O'Grady

• Limestone Marl Lakes FL3

A cluster of this lake type occurs in the south east section of the study area, with underlying bedrock of Lower Carboniferous Limestone. Limestone Marl Lakes FL3 are categorised by the white clay precipitate of calcium carbonate that can be seen on the lake shore and floor, which is called Marl. This Marl is formed by Stoneworts (*Chara* spp.) which can form dense carpets in unpolluted waters. Various-leaved Pondweed (*Potamogeton gramineus*) is also characteristic. Rich Fen and Flush PF1 habitat can be found in the margins.

Rosslara Lough which is located 4.5km north east of Tulla is classified as a Limestone Marl Lake FL3. The lake has an extensive area of fringing Reed and Large Sedge Swamp FS1, and Wet Willow Alder Ash Woodland WN6. The reed beds are dominated by Common Reed (*Phragmites australis*) and Common Club-rush (*Schoenoplectus lacustris*). This is a valuable habitat for wildlife and its ecological value is further enhanced by the extensive areas of woodland to the south of the lake. The lake is of a high amenity and scenic value and is used by anglers.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	Limestone & Marl Lakes corresponds to the annexed habitat, 'hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp. (3140)'.	Rosslara Lough, Maryfort Lough and Castle Lough.



Image 4.2: Rosslara Lough

- **Mesotrophic Lakes FL4**

Lakes of this type are scattered throughout the southern section of the Study Area. Craggaunkeel Lough is a small Mesotrophic Lake located approximately 3.5km north east of Tulla. Floating vegetation on the lake included Water Lilies (*Nuphar* spp.) and Pondweeds (*Potamogeton* sp.). Fringing vegetation is lush, comprising a mosaic of Reed and Large Sedge Swamp FS1 and Rich Fen and Flush PF1 with such species as Great Fen Sedge (*Cladium mariscus*), Reedmace (*Typha latifolia*), Common Club-rush (*Schoenoplectus lacustris*), Reed Canary-Grass (*Phalaris arundinacea*), Yellow Iris (*Iris Pseudacorus*) and horsetails (*Equisetum* spp.). Beyond the wetland habitats the lake is entirely surrounded by Broadleaf Woodland WD1, Conifer Plantation WD4 and Scrub WS1.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	Mesotrophic Lakes do not correspond to Annex I Habitats under the EU Habitats Directive.	Craggaunkeel Lough, Lough Bridget, Lough Meelagh, Dromore Lough.



Image 4.3: Fringing habitats at Craggaunkeel Lough, a Mesotrophic Lake

- **Eroding Upland Rivers FW1**

A number of eroding upland rivers drain the eastern region of the study site. These rivers and streams are tributaries of the River Graney and the Scarriff River and include the Cloghaun River, Anamullaghaun River, Ayle River and Owenwillin River.

Eroding upland rivers and streams have relatively fast, turbulent flow with little or no deposition of fine sediment and the beds of the rivers are characterised by exposed bedrock and loose cobbles. Due to the rapid movement of water and unstable eroding channels, which are key features of such rivers, little vegetation is present. However, some aquatic mosses and liverworts were noted. The main channels have a range of features such as riffles, pools and runs, which are characteristic of eroding / upland rivers.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	Eroding and upland rivers do not correspond to any Annex I or Priority Habitats under the EU Habitats Directive.	Cloghaun River, Anamullaghaun River, Ayle River and Owenwillin River

• Depositing Lowland Rivers FW2

The River Graney and the Scarriff River are the two largest Rivers that drain the study area. The River Graney drains into Lough O'Grady and emerges as the Scarriff River, which flows into Lough Derg. The riparian vegetation on the banks of these rivers varies considerably throughout the study area, varying between peatlands, wetland habitats to improved grassland and woodland. These rivers are fringed by emergent vegetation which generally corresponds to Reed and Large Sedge Swamp FS1, Tall Herb Swamp FS2 and Marsh GM1, with species such as Bulrush (*Typha latifolia*), Common Club Rush (*Schoenoplectus lacustris*), Common Reed (*Phragmites australis*) and Fools Watercress (*Apium nodiflorum*).

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	Depositing Lowland Rivers FW2 does not correspond to any Annex I or Priority Habitats	River Graney and the Scarriff River

• Drainage Ditches FW4

Drainage ditches occur throughout the study site. The drains flow into larger tributaries of the larger rivers within the study area. The water in drains is slow-moving and stagnant in places. Fools Watercress (*Apium nodiflorum*) and Common duckweed (*Lemna minor*) are frequent species in this habitat with Water Mint (*Mentha aquatica*) occurring in the verges. Tall emergent vegetation is evident in drains throughout the study area. This vegetation corresponds with Reed and Large sedge swamp (FS1), and occurs in the deep drains.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	Drains are important for invertebrate diversity, and also Common Frog (<i>Rana temporaria</i>) and Smooth Newts (<i>Triturus vulgaris</i>). Drains flow into designated watercourses and are therefore considered sensitive.	Occur throughout study site.



Image 4.4: Recently-dug drain in very peaty soil.

- **Reed and Large Sedge Swamps FS1**

Areas of Reed and large Sedge Swamps occupy drains and the margins of Depositing Lowland Rivers FW2 and lakes throughout the study area. This habitat often forms intimate mosaics with Tall Herb Swamps FS2, Marsh GM1 and Wet Grassland GS4 and were therefore often too small to map. Common Reed (*Phragmites australis*), Great Fen-sedge (*Cladium mariscus*) and Common Club-rush (*Schoenoplectus lacustris*) are the dominant species, with commonly occurring species such as Common Reedmace (*Typha latifolia*), Water Mint (*Mentha aquatica*), Purple Loosestrife (*Lythrum salicaria*) and Water Plantain (*Alisma plantago-aquatica*).

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	Reed and Large Sedge Swamps FS1 habitat does not correspond to EU Annex I habitats.	Occurs in drains, rivers and fringing lakes throughout study site



Image 4.5: Reed and Large Sedge Swamp FS1

- **Improved Agricultural Grassland GA1**

Improved agricultural Grassland GA1 occurs throughout the site, especially on the free-draining lands underlain by shales and till in the northern and southern sections. This habitat type comprises primarily a grassy sward of typical agricultural grassland cultivars, typically a Perennial Rye-grass (*Lolium perenne*) and White Clover (*Trifolium repens*) mix. Cock's-foot

(*Dactylis glomerata*), Fescues (*Festuca* spp.), Yorkshire Fog (*Holcus lanatus*) and Meadow species (*Poa* spp.) also occurring, particularly in the field margins.

Herb species such as Ribwort Plantain (*Plantago lanceolata*) and Daisy (*Bellis perennis*) occur abundantly. Depending on management practices species such as Thistles (*Cirsium* sp.), Dandelion (*Taraxacum* sp.), Creeping Cinquefoil (*Potentilla reptans*), Silverweed (*Potentilla anserina*), Chickweed (*Cerastium glomeratum*), Common Mouse-ear (*Cerastium fontanum*) and Common Nettle (*Urtica dioica*), can be common. The margins and field boundaries of Improved Agricultural Grassland GA1 provide some ecological value. Uncultivated vegetation occurs along hedgerows, stonewalls and fences, which can support a diversity of grassland species and the tall sward provides food, shelter and commuting routes for small animals and insects.

Ecological Interest	Links to Annex I Habitats	Locations within Study Site
Low ecological importance in a local context.	This habitat type does not correspond to EU Annex I Habitats	Throughout Study Site



Image 4.6: Improved Agricultural Grassland which has just been cut for hay/silage.

- **Amenity Grassland (improved) GA2**

The amenity grassland occurs in gardens, parks, golf courses and football pitches, and comprises a short sward which is maintained through regular mowing. The species composition includes; ryegrass species (*Lolium* spp.), bents (*Agrostis* spp) and fescues (*Festuca* spp.). Daisy (*Bellis perennis*) and Buttercup also occur. This habitat type is found

throughout the study area, the largest example of its kind occurs in Coolreagh Beg – a golf course.

Ecological Interest	Links to Annex I Habitats	Locations within Study Site
Low ecological importance in a local context.	This habitat type does not correspond to EU Annex I Habitats	Throughout the study site. Largest area comprises a golf course in the townland of Coolreagh Beg

• **Dry Calcareous and Neutral Grassland GS1**

Dry Calcareous and Neutral Grassland GS1 occurs throughout the study site, on free draining base rich soils in areas of low intensity agriculture. The habitats of this type tended towards the neutral – none of the habitats recorded contained indicators of calcareous grassland such as Carline Thistle (*Carlina vulgaris*) and Field Scabious (*Knautia arvensis*).

This grassland classification can be very species diverse containing grass species such as bents (*Agrostis* spp.), meadow-grasses (*Poa* spp.), Meadow Foxtail (*Alopecurus pratensis*), Timothy (*Phleum pratense*), fescues (*Festuca* spp.), Sweet Vernal-grass (*Anthoxanthum odoratum*), Crested Dog's-tail (*Cynosurus cristatus*), Cock's-foot (*Dactylis glomerata*) and Yorkshire-fog (*Holcus lanatus*) occur. Common broadleaved herbs include clovers (*Trifolium* spp.), Yarrow (*Achillea millefolium*), Common Knapweed (*Centaurea nigra*), Selfheal (*Prunella vulgaris*), Bird's-foot Trefoil (*Lotus corniculatus*).

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a National/*International context.	*Calcareous grasslands with either high numbers or diversity of orchids correspond to the priority habitat, 'semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometea</i>) (*important orchid sites) (6210)'. This habitat type was not found within the study area, however.	Occurs throughout Study Site, particularly in the south west and north.



Image 4.7: Close up of Dry Calcareous/Neutral Grassland with abundant Bird's-foot Trefoil (*Lotus corniculatus*) and Eyebrights (*Euphrasia* spp.)

- **Dry Meadows and Grassy Verges GS2**

Few agricultural fields are now managed as traditional hay meadow and this habitat is largely confined to field and road margins. As these grasslands are rarely fertilised, a good diversity of grassland species persists. Species include; False Oat-grass (*Arrhenatherum elatius*), Cock's Foot (*Dactylus glomerata*), Meadow Foxtail (*Alopecurus pratensis*) and Yorkshire Fog (*Holcus lanatus*). There is also a good diversity of herbaceous species, including Spear Thistle (*Cirsium vulgare*), Cowslip (*Primula veris*), Ragwort (*Senecio jacobaea*), Meadowsweet (*Filipendula ulmaria*), Red and White Clover (*Trifolium pratense* and *T. repens*), Willowherb (*Epilobium* sp.) and Selfheal (*Prunella vulgaris*). Also present are species such as Meadow Vetchling (*Lathyrus pratensis*) which climb the stems of other plants. Lesser Trefoil (*Trifolium dubium*), Daisy and Shepherd's Purse (*Capsella bursa-pastoris*) can occur in the disturbed areas. This habitat type is declining in the Irish landscape due to changes in farming practises. As these grasslands are not fertilised or intensively grazed, these grasslands are species diverse and provide good habitat for many species of invertebrates.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a in a National/*International context.	This grassland habitat may correspond to the annexed habitat, 'Lowland hay meadows (<i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i>)'. No examples of this habitat type were found within the Study Area however.	Scattered throughout the study area, particularly in the north western section in the townlands of Feakle and Lecarrow Lower.



Image 4.8: Dry Meadow habitat

- Dry-Humid Acid Grassland GS3**

This habitat type has very limited distribution within the study area, confined to a few small fields in a hilly area in the northern section of the site, and some patches around the edges of Cutover Bog. It exhibits a good species diversity of vascular plants, herbs and mosses. Species include Purple moor grass (*Molinia caerulea*), Mat Grass (*Nardus stricta*), Bent grass (*Agrostis spp*), Wavy Hair Grass (*Deschampsia flexuosa*), Fescue Grasses (*Festuca spp.*), Tormentil (*Potentilla erecta*), Self Heal (*Prunella vulgaris*), Sheep's Sorrel (*Rumex acetosella*) and Devil's-bit Scabious (*Succisa pratensis*). Hard Fern (*Blechnum spicant*) and Bracken (*Pteridium aquilinum*) and mosses such as, *Brachythecium rutabulum*, *Pleurozium schreberi* and *Polytrichum commune* also occur.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	EU Habitats Directive Annex I Habitat: Dry-humid Acid Grassland includes the priority habitat 'species-rich <i>Nardus</i> grasslands on siliceous substrates in mountain areas (6320)'. This habitat type does not occur within the study area.	Clashmore, Lecarrow Lower, Core.

- **Wet Grassland GS4**

This habitat occurs throughout the site where drainage is impeded. On acidic soils this habitat is characterised by rushes (*Juncus articulatus/acutiflorus/effuses/inflexus*), sedges (*Carex spp*), Purple Moor-grass (*Molinia caerulea*), Tormentil (*Potentilla erecta*), Devil's-bit scabious (*Succisa pratensis*), Bog Asphodel (*Narthecium ossifragum*) and Heath Milkwort (*Polygala serpyllifolia*). Bog mosses (*Sphagnum spp.*) can often be found in the damp hollows throughout. This habitat often forms mosaics with Wet Heath HH3 and Cutover Bog PB4. Wet Grassland often grades in to Marsh and forms mosaics with it in places.

Small areas of *Molinia* dominated Wet Grassland GS4 also occur throughout the site, particularly in the grasslands bordering peatlands in the middle section of the Study Area. These *Molinia* rich grasslands correspond to EU Habitats Directive Annex I Habitat, '*Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)' (6410).

The species diversity of this grassland type varies considerably throughout the study area and is largely determined by management practices. Species rich and diverse examples of Wet Grassland GS4 are target noted.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate to *High ecological importance in a local context.	Few Wet Grassland GS4 habitats within the study site correspond to the EU Habitats Directive Annex I Habitat: ' <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>)' (6410). Devil's-bit Scabious, which is the food plant of the Marsh Fritillary, prevails in a number of sites. Wet grasslands are susceptible to agricultural management practices; therefore species rich examples are under constant threat. Although this habitat type is widespread, it is considered to be of moderate ecological value.	Throughout study site.



Image 4.9: Molinia-dominated Wet Grassland located on the southern banks of the Cloghaun River

- **Marsh GM1**

Marsh GM1 habitats are common throughout the study area, occurring predominantly in the margins of rivers in association with other habitats such as Reed and Large Sedge Swamps, Tall Herb Swamps FS2, and wet hollows in Wet Grassland GS4 habitats. Marsh GM1 habitat comprises a diversity of species similar to Wet Grassland GS4; however there is a predominance of herbs including Ragged Robin (*Lynchnis flos-cuculi*) and Marsh Woundwort (*Stachys palustris*), with horsetails (*Equisetum* spp), Yellow Iris (*Iris pseudacorus*), and Reedmace (*Typha latifolia*) occurring.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	Marsh may sometimes contain pockets of the Annex I habitat, 'hydrophilous tall herb fringe communities of plains and of the montane to alpine levels (6430)'. No examples of this particular habitat were found during the survey however.	Throughout Study Area



Image 4.10: Ragged Robin (*Lychnis flos-cuculi*), a typical Marsh species

- **Wet Heath HH3**

Small areas of this habitat type occur in the north-eastern section of the Study Area. It is a common habitat in Cutover Bogs (PB4), but also occurs on shallow peat, generally under 0.5 metres in depth.

The wet heath species include Ling Heather (*Calluna vulgaris*) and Crossed-leaved Heath (*Erica tetralix*), Bilberry (*Vaccinium myrtillus*), Purple Moor-grass (*Molinia caerulea*), Common Rush (*Juncus effusus*), Heath Rush (*Juncus squarrosus*), Heath Milkwort (*Polygala serpyllifolia*), Devil's bit Scabious (*Succisa pratensis*) and Cotton grass (*Eriophorum vaginatum*). Mosses such as *Rhytidiadelphus loreus*, *Hylocomium splendens* and *Polytrichum commune* are common, with *Sphagnum* species and Star Sedge (*Carex echinata*) occurring in the flushed areas. This vegetation type occurs throughout the site and is considered to be of high conservation value

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context in an International context.	Wet heath corresponds to the Annex 1 habitat 'northern Atlantic wet heaths with <i>Erica tetralix</i> (4010)'.	Feakle, Kilbarron, Rossanure



Image 4.11: Wet Heath habitat on Cutover Bog in the townland of Lecarrow North

- **Dense Bracken HD1**

Small areas of Dense Bracken HD1 occur in a variety of habitats within the study area, such as in the areas of scrub and woodland. This habitat also occurs in the upland grasslands in areas of low intensity grazing.

Ecological Interest	Links to Annex I Habitats	Locations
Low ecological importance in a local context.	This habitat does not correspond to EU Habitats Directive Annex 1 Habitats. This vegetation type can be invasive and is considered to be of low conservation value.	Small areas throughout study area



Image 4.12: Dense Bracken on an area of Cutover Bog

- **Raised Bogs PB1**

Uncut raised bogs are a rarity in Ireland and those found within the study area are no exception. Raised bogs are found mostly in the midlands of Ireland; however they also occur in a limited number of areas in County Clare. They form in lowland areas in river valleys, hollows and lake basins. Their domed shape gives rise to the name 'raised bog' and can be as deep as 13m.

Within the study area, there were formerly significant areas of Raised Bog (PB1) in the Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch. The dome shape can still be seen at some of these sites, however, the tall peat banks and ramparts show evidence of a long history of peat extraction, and so only small pockets can be classified as intact Raised Bog. The areas of Cutover Bog (PB4), are often colonised by Wet Heath (HH3) vegetation, or if it has been significantly drained and reclaimed, Dry Humid Acid Grassland (GS3) can establish. Some of the bogs have been planted with conifers and or Bog Woodland (WN7) has established on the dryer edges.

The typical floral assemblage of Raised Bog includes; Deergrass (*Trichophorum caespitosum*), Common Cottongrass (*Eriophorum angustifolium*), Bog Rosemary

(*Andromeda polifolia*), Bog Asphodel (*Narthecium ossifragum*), White Beak Sedge (*Rhynospora alba*), Purple Moor-grass (*Molinia caerulea*) and Sundew (*Drosera rotundifolia*) with Sedge (*Carex spp.*) and Rush species (*Juncus spp.*). Ling Heather (*Calluna vulgaris*), Cross-leaved Heath (*Erica tetralix*) and occasional dwarf shrubs also occur such as Bilberry (*Vaccinium myrtillus*) and Bog Myrtle (*Myrica gale*). Wetter areas and pools containing large patches of Sphagnum are interspersed across the bog with Reindeer Mosses (*Cladonia spp.*) on the drier hummocks.

In Raised Bogs (PB1), the annexed habitat, 'depressions on peat substrates of the Rhynchosporion (7150)' can occur in the cutover areas.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	Raised bogs correspond to the priority habitat, '*active raised bogs (7110)' if they are still capable of peat formation, or if peat formation has temporarily ceased. 'Degraded raised bogs still capable of natural regeneration (7120)' are also listed as an annexed habitat. These are damaged bogs where it is judged that the peat forming capability can be restored within 30 years. The annexed habitat, 'depressions on peat substrates of the Rhynchosporion (7150)' occurs in pockets as a sub-habitat of raised bog.	Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch.



Image 4.13: Coolreagh Bog: Intact Raised Bog in the background with bare peat banks showing extent of cutting.



Image 4.14: Close-up of Intact Raised Bog vegetation at Coolreagh with *Sphagnum* spp, *Drosera rotundifolia*, *Erica tetralix* and *Calluna vulgaris*

• Cutover Bog PB4

Turf banks occur throughout the Raised Bog PB1 areas within the study site. These ramparts are relics of a long history of peat extraction in the area. Bare banks are still evident where turbary harvesting of peat is ongoing. The areas of modified Raised Bog PB1, that have been cut have re-vegetated with varying assemblages of species, depending on hydrology, depth of peat remaining, nature of the peat and underlying substratum. The peat banks as a result of natural succession have been colonised with heath vegetation. However, the wetter hollows are usually dominated by Deer Grass (*Trichophorum cespitosum*), Bog Cotton Grasses (*Eriophorum angustifolium*) and Bog Asphodel (*Narthecium ossifragum*). The *Sphagnum* species occur throughout.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	EU Habitats Directive Annex 1 Species: The annexed habitat 'depressions on peat substrates of the <i>Rhynchosporion</i> (7150)' can occur in pockets on cutover bog. This annexed habitat occurs in wet depression in the areas of cut Raised Bog.	Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch, Rosslara, Cloondorney, Drummaghmartin, Lecarrow North, Callahy.



Image 4.15: Cutover Bog in Coolreagh

- **Rich Fen and Flush PF1**

Fens develop from damp or water logged hollows in the landscape and small areas can be found throughout the study area. They are generally associated with lake edges, flood plains and river valleys. Fens often form mosaics with a variety of woodland, wetland and open water habitats.

A large, diverse Rich Fen and Flush PF1 with good connectivity with surrounding wet habitats can be found in the Townland of Kilbarron (see Target Note 4154-c TN7). Adjacent to the western edge of the site is an area that has recently been converted to forestry. To the north, land has been improved. Threats to the site include; nutrient enrichment due to close proximity of forestry and improved farm land. Drainage is also a risk, with lands to the south being well drained at present. These lands, although containing a high proportion of rushes, have a low species diversity in comparison to nearby sites. An area to the east of the fen contains floristically diverse wet grasslands and transition mire (See Target Note 4154-c TN3, TN5, TN6 and TN8). The fen habitat supports species such as Bogbean (*Menyanthes trifoliata*), Purple Moor-grass (*Molinia caerulea*), Grass-of-Parnassus (*Parnassia palustris*), Common Cottongrass (*Eriophorum angustifolium*), Velvet Bent (*Agrostis canina*), Yorkshire-fog (*Holcus lanatus*), Marsh Pennywort (*Hydrocotyle vulgaris*), Water Mint (*Mentha aquatica*), Common Butterwort (*Pinguicula vulgaris*) and Devil's-bit scabious (*Succisa pratensis*).

Another good example of this habitat type is found in Callahy (see Target Note 4213-b_TN2). With frequent Great Fen Sedge (*Cladium mariscus*), this habitat corresponds to the Annex I Priority habitat ‘*Calcareous fens with *Cladium mariscus* and species of the Caricion davallianae (7210)’.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	The annexed habitats ‘Alkaline Fens (7230)’ and ‘*Calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae (7210)’.	Kilbarron, Callahy.



Image 4.16: Extensive Species Rich Fen and Flush PF1

- **Transition Mire and Quaking Bog PF3**

Transition Mire and Quaking Bog are very wet peat-forming systems and are characterised by having features which are transitional between poor and rich fens. This habitat was found in only one location in the study area – in the townland of Kilbarron. This area is wetter than most raised bogs in the area and does not display the typical dome shape that is characteristic. It does however contain many typical raised bog species; Round-leaved Sundew (*Drosera rotundifolia*), White Beak-sedge (*Rhynchospora alba*) and Bog asphodel (*Narthecium ossifragum*), alongside more fen affiliated species such as Marsh Cinquefoil (*Potentilla palustris*).

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in an International context.	Transition Mire and Quaking Bog PF3 corresponds to the Annex I habitat ‘transition mires and quaking bogs (7140)’.	Kilbarron

• Oak-Birch-Holly Woodland WN1

This habitat type is very limited in the study area, but several examples were found in the vicinity of Lough O'Grady. This type of woodland occurs on acid or base-poor soils that may be either dry or humid, but not waterlogged. Stands are usually dominated by Sessile Oak (*Quercus petraea*) or mixed stands of Sessile and Pedunculate Oak (*Q. petraea* and *Q. robur*) or their hybrids. Downy Birch (*Betula pubescens*) can be the dominant tree in some situations, as is the case with the examples found in the study area. Other common trees are Holly (*Ilex aquifolium*) and Rowan (*Sorbus aucuparia*).

The woodlands of this type found within the study area were quite humid and had a rich field layer with many wetland species. Species recorded were Hard Fern (*Blechnum spicant*), Bracken (*Pteridium aquilinum*), Meadowsweet (*Filipendula ulmaria*), Remote Sedge (*Carex remota*), Common Dog-violet (*Viola riviniana*), Herb Robert (*Geranium robertianum*) and Germander Speedwell (*Veronica chamaedris*).

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however the habitat is considered to be of moderate to high conservation value in a local context as semi-natural woodlands are a rarity in the landscape.	Found mainly in the north-east of the study area; in the townlands of Coolreagh Beg and Fossa More.



Image 4.17: Birch-dominated Woodland in the townland of Coolreagh

- **Oak-Ash-Hazel Woodland WN2**

This habitat type occurs on base-rich or calcareous soils that are generally dry or well drained. It is widespread on limestone substrate in the west and south-west of the study area. This type of woodland occurs on soils that are well drained and comprises Oak (*Quercus robur*), Ash (*Fraxinus excelsior*), and Hazel (*Corylus avellana*), with Holly (*Ilex aquilinum*) occurring intermittently. The ground flora comprises Ivy (*Hedera helix*), Lords and Ladies (*Arum maculatum*), grasses and ferns.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however the habitat is considered to be of moderate to high conservation value in a local context as semi-natural woodlands are a rarity in the landscape.	Throughout west and south west of study site, in the townlands of Rossanure, Coolreagh, Boherurd and Craggaunkeel

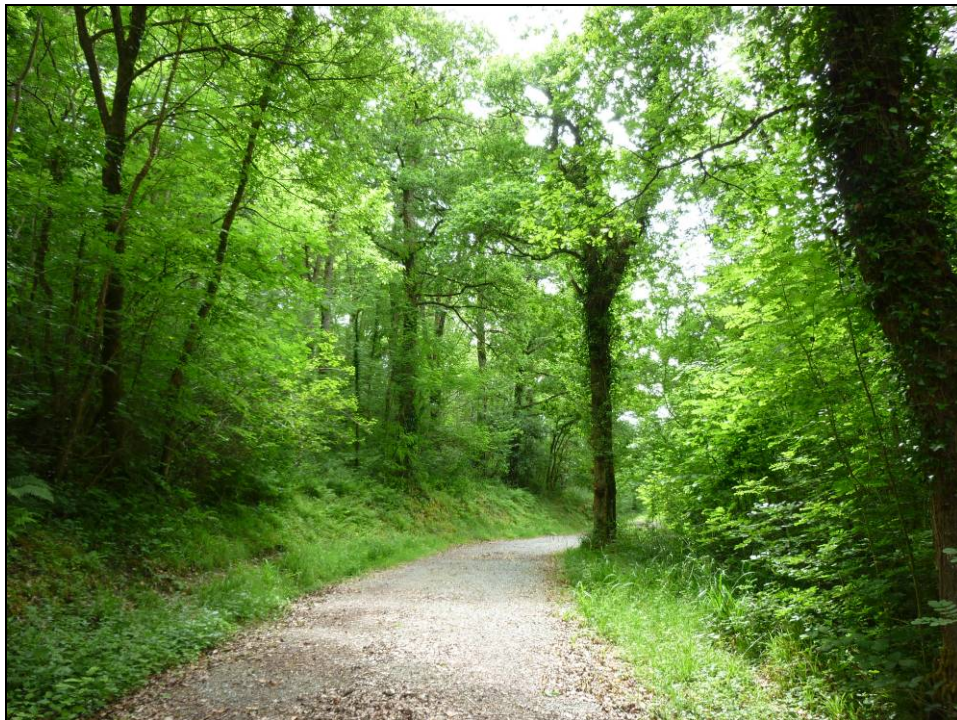


Image 4.18: Road through Oak-Ash-Hazel Woodland in the townland of Craggaunkeel

- **Wet Willow-Alder-Ash Woodland WN6**

This classification includes woodlands of permanently waterlogged sites that are dominated by willows (*Salix* spp.), Alder (*Alnus glutinosa*) or Ash (*Fraxinus excelsior*). The field layer generally comprises; Creeping Bent (*Agrostis stolonifera*), Meadowsweet (*Filipendula ulmaria*) and Purple-loosestrife (*Lythrum salicaria*) and Skullcap (*Scutellaria galericulata*).

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however the habitat is limited within the study area and is therefore considered to be of high conservation value in a local context.	In the middle and south-western section of the study area, in the townlands of Feakle, Rossanure, Core, Coolreagh Beg, Core and Lecarrow North



Image 4.19: Wet Willow Alder Ash Woodland with abundant mosses and ferns in the townland of Rossanure



Image 4.20: Spotted-Orchid (*Dactylorhiza* sp.) growing in Wet Willow Alder Ash Woodland in Rossanure

• **Bog Woodland WN7**

This woodland occurs on areas of Cutover Bog (PB4) in the middle and south western sections of the study site. Bog woodland typically occurs on peat bogs of significant depth, where the upper layers are well drained. The dominant tree species is Downy Birch (*Betula pubescens*), with occasional Silver Birch (*Betula pendula*), Scots Pine (*Pinus sylvestris*) and willow (*Salix* spp.). Royal Fern (*Osmunda regalis*), Ivy (*Hedera helix*), Ling Heather (*Calluna vulgaris*), Bilberry (*Vaccinium myrtillus*), Bog Myrtle (*Myrica gale*), cross-leaved heath (*Erica tetralix*) and bog rosemary (*Andromeda polifolia*) occur in the under-storey. Sedges, rushes and bracken also occur.

Ecological Interest	Links to Annex I Habitats	Locations
High ecological importance in a National/International context.	This habitat corresponds to the Annex I habitat 'Bog Woodland (91DO)', this classification refers to woodland of intact raised bog. The woodland occurs on the fringes of cutover raised bog and is considered to be of moderate to high conservation value in a local context.	Coolreagh Beg, Fossa More, Core, Rossanure, Clonmoher, Annaghneal, Craggaunkeel, Lecarrow North



Image 4.21: Bog Woodland WN7 beginning to form on an area of Cutover Bog in the townland of Coolreagh Beg. Conifer Plantation in background.

- **(Mixed) Broadleaved Woodland WD1**

This woodland type occurs throughout the study area. This classification is the most common broadleaved woodland found within the study area. The woodlands range in species diversity including; Oak (*Quercus* spp), Beech (*Fagus sylvatica*), Sycamore (*Acer pseudoplatanus*), Ash (*Fraxinus excelsior*), Horsechestnut (*Aesculus hippocastanum*) and the occasional Sitka Spruce (*Picea sitchensis*), and Pine species (*Pinus* spp). The scrub layer and ground flora varies dramatically between the sites, depending on species mix of trees, drainage and management practices.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats and is quite common throughout the study area. However, compartments of deciduous woodland can be valuable to wildlife, providing refuge and foraging for a variety of animals. It is therefore considered to be of moderate conservation value in a local context.	Throughout Study Site



Image 4.22: Mixed broadleaved woodland

- **Mixed Broadleaved/Conifer Woodland WD2**

This habitat comprises mixed stands of broadleaved trees and conifer trees. The largest example of this woodland type can be found in the south-eastern corner of the study area, in the townland of Ballincurrin.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats, but does however offer some refuge to wildlife.	Throughout study site, especially in the south east, in Ballincurrin townland.

- **(Mixed) Conifer plantation WD3**

Small compartments of this habitat type occur throughout the study area. Most have been planted for commercial plantation forestry.

Ecological Interest	Links to Annex I Habitats	Locations
Low to moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats.	Ayle Lower, Lecarrow North, Craggaunkeel, Rosslara, Cloondoorne, Drummaghmartin, Coolready.

- **Conifer Plantation WD4**

There is an extensive area of commercial forestry in the south-eastern corner of the study area, in the townlands of Ballyvannan and Ballymalone. Another large section has been planted on Cutover Bog in the townland of Core. Other small pockets are scattered

throughout the study area. The plantations are harvested for commercial forestry. The closed canopies of these woodlands deprive the ground layers of light and are therefore a diverse woodland flora is absent. Deciduous trees are often planted on the edge of conifer plantations to increase species diversity. In some cases, habitats of conservation value such as Wet Heath have been planted with conifers.

Ecological Interest	Links to Annex I Habitats	Locations
Low to moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats.	Large area in the south eastern corner and scattered throughout the study area.



Image 4.23: Wet Heath habitat which has been planted with conifers, Ayle Lower

- **Scattered Trees and Parkland WD5**

One area of Scattered trees and parkland habitat occurs in the very south of the study area, in the townland of Maryfort (Lismeehan). Large mature native and non-native trees are a prominent feature in the landscape. Horse chestnut, Beech and Oak are a regular feature. They occur in improved agricultural grasslands and semi improved pastures. These large mature trees can provide refuge for a number of bird species, including Long-eared Owl (*Asio otus*), and a variety of insects.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however some exquisite examples of mature trees have persisted in these landholdings.	Maryfort (Lismeehan)

- **Scrub WS1**

Scrub vegetation occurs on thin soils where agriculture has been abandoned and scrub has encroached. To be considered scrub, the habitat must comprise 50% of shrubs, low trees and /or brambles with a canopy height of less than 5m. Species such as Hazel (*Corylus avellana*), Gorse (*Ulex europea*) are a common component, with Bramble (*Rubus fruticosus* agg.), Hawthorn (*Crataegus monogyna*), Blackthorn (*Prunus spinosa*) and Guelder Rose (*Viburnum opulus*) are common.

Areas of scrub occur throughout the study area. Most Scrub in the study area is dominated by Gorse, Blackthorn, Hawthorn and Bramble, but there are some areas in the south-east with shallow, base-rich soils and these are dominated by Hazel (*Corylus avellana*).

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however it can be important for wildlife, particularly insects and birds.	Throughout study site.



Image 4.24: Area of Hazel Scrub (WS1) in the townland of Fontane More.

- **Immature Woodland WS2**

Plots of immature woodland occur scattered throughout the study site. The plantations are principally on marginal agricultural land such as Wet grassland GS4 and Cutover Bog PB4, and the ground flora reflects these habitats. Immature Woodlands WS2 are a favoured foraging habitat for Hen Harrier.

Ecological Interest	Links to Annex I Habitats	Locations
Low to moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats, however it can be important for wildlife, particularly insects and birds.	Lecarrow Lower, Feakle, Dromore, Lecarrow North, Lisbarreen, Ballincurrag, Ballymalone.

- **Hedgerows WL1**

Hedgerows occur throughout the study area. They are often found in association with stone walls and earth banks. These linear features are prominent throughout the study site. Good examples of well-managed and diverse examples were recorded, with the greatest species diversity occurring in the hedgerows bordering roads. These species included native and ornamental/non-native species; native species included Honeysuckle (*Lonicera periclymenum*), Hawthorn (*Crataegus monogyna*), Blackthorn (*Prunus spinosa*), Gorse (*Ulex europaeus*), Holly (*Ilex aquifolium*), Elder (*Sambucus nigra*) and Willow (*Salix* spp). Taller mature trees were also recorded within the hedgerows, such as Ash (*Fraxinus excelsior*), Oak (*Quercus* spp.), Sycamore (*Acer pseudoplatanus*) and Scots Pine (*Pinus sylvestris*) but to be considered hedgerows these must not dominate the feature. Non-native species recorded include Fuchsia (*Fuchsia magellanica*) and Snowberry (*Symphoricarpos rivularis*), both of which can be very invasive species. The ground flora of hedgerows within the study area was equally diverse supporting a variety of species corresponding to Dry Meadows and Grassy Verges Habitat GS2.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats.	Throughout study site



Image 4.25: Hedgerows criss-crossing landscape throughout study area

- **Tree-lines WL2**

Exceptional examples of mature tree-lines can be found enclosing farmlands, particularly in the south and east of the study site. Mature Oak (*Quercus* spp) is a prominent feature with Scots Pine (*Pinus sylvestris*), Ash (*Fraxinus excelsior*), Beech (*Fagus sylvatica*) and Sycamore (*Acer pseudoplatanus*), Horsechestnut (*Aesculus hippocastanum*) and Poplars (*Populus* Spp.) occur occasionally. Hedgerows dominated by Leyland Cypress (*Cupressocyparis leylandii*) and Laurel (*Prunus laurocerasus*), were also recorded, usually bordering houses. A good diversity of herbaceous species was found in the understorey, including Herb Robert (*Geranium robertianum*), Creeping Buttercup (*Ranunculus repens*), Bramble (*Rubus fruticosus*), Couch Grass (*Elytrigia repens*), Ivy (*Hedera helix*), Willowherb (*Epilobium* spp.), Broad-leaved Dock (*Rumex obtusifolius*) and Cleavers (*Galium aparine*). The ground beneath the herbaceous layer has a dense covering of moss. Invasive exotic species were also recorded such as Japanese Knotweed (*Fallopia japonica*) Japanese knotweed is one of the most invasive species in Europe.

Ecological Interest	Links to Annex I Habitats	Locations
Moderate ecological importance in a local context.	This habitat does not correspond to Annex I habitats.	Throughout study site



Image 4.26: Tree-lined hedgerow in Rossanure

4.3 SIGNIFICANCE OF HABITATS

Over the centuries this landscape within the study area has been heavily influenced by anthropogenic activities such as reclamation of wetlands for agriculture, peat harvesting, plantation forestry, quarrying of sands and gravels, and residential and industrial development. As a result, Improved Agricultural Grassland GA1 now provides the overall character of the surrounding landscape; comprising the majority of the total area surveyed, with some semi-natural habitats persisting in the less intensively managed areas. The middle section of the site provides the greatest diversity of peatland habitats; although this has been subject to extensive turbary peat cutting. This central section also has the highest concentration of Wet Grassland and Marsh. Large areas of plantation forestry occur in south eastern and south western sections.

Freshwater resources, including rivers, lakes and associated wetland habitats are under increasing pressure from pollution and reclamation. Reed and Large Sedge Swamps FS1 can be found in drains and the margins of Depositing/Lowland Rivers FW2 throughout the study area. Reed and Large Sedge Swamps FS1 is found throughout and forms an intimate mosaic with a number of habitats in this area including Wet Grassland GS4, Marsh GM1, Tall Herb Swamps FS2 and Riparian Woodland WN5. Fen habitats are limited within the study area. Poor Fen and Flush PF2 habitat occurs in small pockets in some peatland areas. Other lakes and ponds within the study area are under threat from pollution, eutrophication and water abstraction.

Peatlands that are still capable of peat formation are listed as a priority habitat in Annex I of the EU Habitats Directive and therefore extremely valuable for nature conservation. The Raised Bog PB1 formations add to the biodiversity of the study area as a whole. These areas have been extensively cut over the last centuries, however peat harvesting has largely ceased at these sites. In the depressions of the cutover bog, the annexed habitat, 'depressions on peat substrates of the Rhynchosporion (7150)' has occurred as a sub-habitat of Raised Bog PB1. This area is extensive and worthy of protection either nationally or locally.

Semi-natural woods have originated mainly through natural regeneration. These may be broadleaved, or mixed in composition, and are composed predominantly of native species. They tend to have a more 'natural' appearance than plantations, with greater variation in tree age and greater structural diversity. The ecological value of semi-natural woodland, in terms

of the diversity of plant communities and species present, is often closely related to woodland age and origin.

The character and ecology of rural and urban landscapes, and opportunities for recreation, are greatly influenced by woodland. Semi-natural woodland is an especially important habitat for native plants and animals. It enhances the biodiversity of farmland, and creates an attractive image for tourism. Good plantation design is vital to watercourse management; to protect against heavy run-off, acidification and erosion, and to maintain the quality of the habitat for fish and other freshwater life.

4.4 SITES OF LOCAL BIODIVERSITY VALUE, ECOLOGICAL CORRIDORS AND BUFFER ZONES

The survey identified areas of biodiversity importance on a local and national level. Some examples of priority habitat protected under the EU Habitats Directive were also identified. Stakeholders including the NPWS and County Council have an obligation under the Habitats Directive to protect, maintain or restore natural habitats, which are of conservation importance as defined in the Directive, at a favourable conservation status.

Many habitats of conservation concern particularly designated sites are linked to the surrounding landscape by natural and manmade features, such as water courses (rivers, streams, canals and drainage ditches), hedgerows, treelines, roads and railways. Therefore, areas of conservation concern must not be considered in isolation, their linkages and buffer zones must also be protected to ensure the continued migration of species and genetic diversity throughout the study area.

Prescribing buffer zone widths to designated sites, areas of conservation concern or ecological corridors is dependant on a number of variables and often a 'one size fits all' approach is not always applicable. The need for maintaining a buffer zone adjacent to conservation sites is well documented; the width, however, is contested.

When prescribing buffer zones the following should be considered;

- Conservation value of feature to be protected;
- Intensity of adjacent land use;
- Tolerance of species and habitat to disturbance,

- Buffer characteristics (e.g. slope, soil type);
- Specific buffer functions,
- Proximity to existing development and lands zoned for development, and
- Area that could be practicable and appropriate from the point of management of the buffer zone.

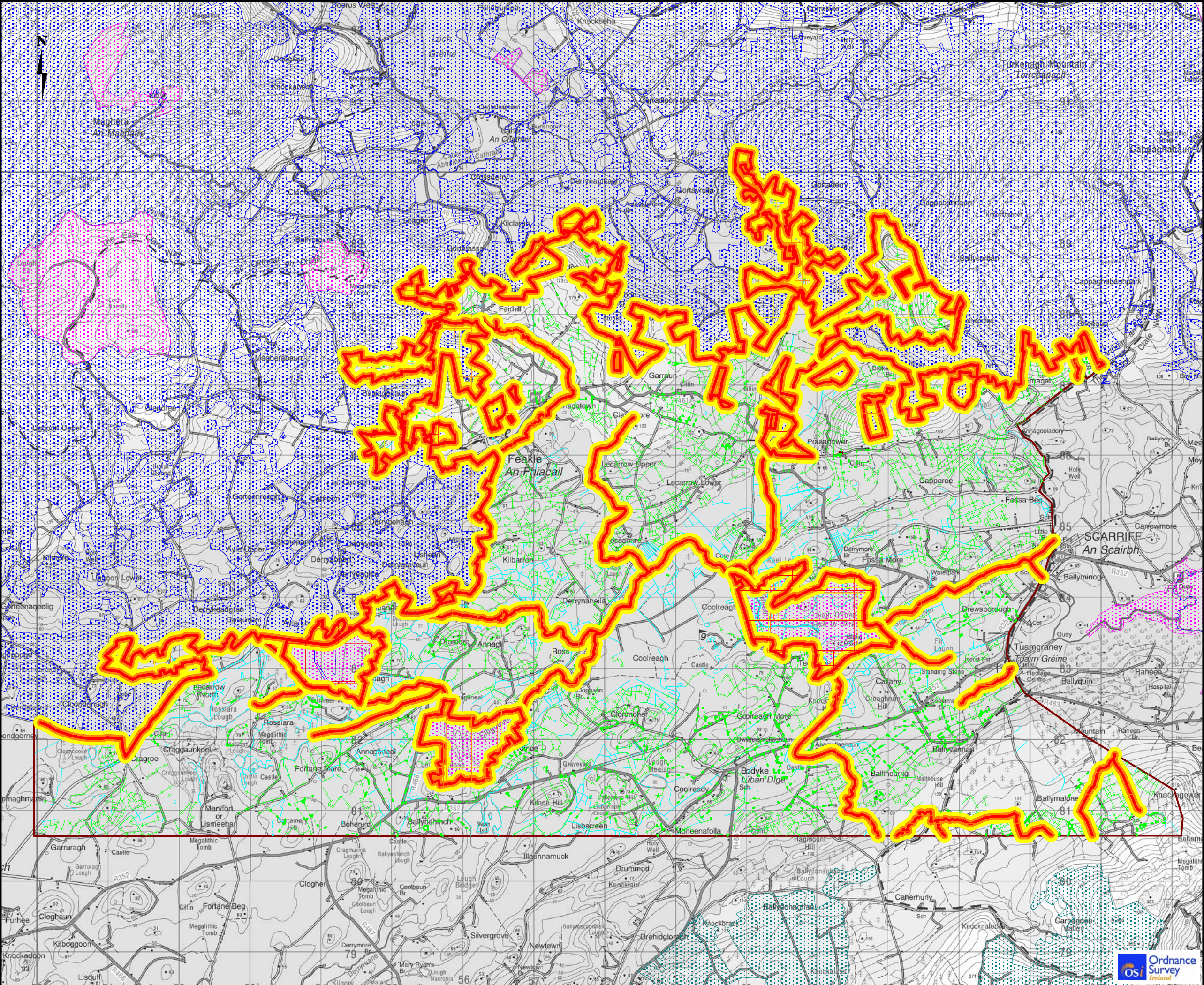
For example, buffer zones have been recommended for Riparian Zone Management in Forestry and are detailed in guidance from the Department of Agriculture Food and the Forest Service. The purpose of these buffer zones is to protect watercourses from forestry activities. Details of recommended buffer zones are provided in **Table 4.1** below.

Table 4.3: Buffer Zone widths for Riparian Zone Management in Forestry

Geology –soils – terrain – slope - run off		
Average slope leading to aquatic zone	Zone width on each side of the aquatic zone	Zone width on each side of highly erodable soils
Moderate slope 0-1 in 7	10m	15m
Steep 1 in 7 – 1 in 3	15m	20m
Very steep 1 in 3 or >	20m	25m

(Source: http://www.westernrbd.ie/PDF/Riparian/RiparianZone_Workshop_Pat_OCallaghan.pdf)

There are no prescribed buffer zones for ecological corridors and designated sites, therefore for illustrative purposes buffer zones of 20m, 50m and 100m have been place around key ecological corridors and designated sites. Drains and hedgerows also provide valuable corridors; these features are illustrated but are not buffered. The buffer zones are illustrated in **Figure 4.1**.



Legend

- Site Boundary
- 20m Buffer Zone
- 50m Buffer Zone
- 100m Buffer Zone
- Treelines WL2
- Hedgerows WL1
- Watercourses
- NHA
- SAC
- SPA

Client

Project

Survey and Mapping of Habitats in Mid Clare

Title

Ecological Corridors & Buffer Zones

Figure 4.1

RPS

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Issue Details

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Date: 03/10/2010	Rev. D01

Notes

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4.4.1 SITES OF LOCAL BIODIVERSITY INTEREST

4.4.1.1 Internationally/Nationally Important Ecological Sites – Highly Sensitive Habitats

These habitats have been chosen due to their links to Annex I habitats as listed in the Habitats Directive. These habitats are considered highly sensitive. Locations of these habitats within the study area are given, along with Target Notes numbers for the best examples of these habitat types.

Freshwater Habitats

- FL2 Acid oligotrophic lakes correspond to two annexed habitats, ‘oligotrophic waters containing very few minerals of sandy plains (*Littorelletalia uniflorae*) (3110)’ and ‘oligotrophic to mesotrophic standing waters with vegetation of the *Littorelletea uniflorae* and/or of the *Isoëto-Nanojuncetea* (3130)’. Lough O’Grady and Keel Lough are good examples of this habitat type (see Target Note **4213-a_TN1**).

Grassland Habitats

- Wet Grassland GS4, linked to the Annex I habitat *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*) (6410). Wet Grassland is abundant throughout the study area, but habitat corresponding to the annexed habitat was found at only one site: in the townland of Coolreagh (see Target Note **4212-b_TN6**)

Heath and Dense Bracken Habitats

- Wet Heath HH3 corresponds to the annexed habitat, ‘northern Atlantic wet heaths with *Erica tetralix* (4010)’. Found in the townlands of Feakle, Kilbarron, Rossanure. A good example of this habitat type is described in Target Note **4154-c_TN2**.

Peatland Habitats

- Raised Bog PB1 also priority habitat under Habitats Directive listed as ‘Active Raised Bogs (Code 7110)’.
- PB4 Cutover Bog linked to the annexed habitat, ‘depressions on peat substrates of the *Rhynchosporion* (7150)’. Found in the townlands of Coolreagh, Coolreagh Beg, Derrynaheila, Ballynahinch, Rosslara, Cloondorney, Drummaghmartin, Lecarrow

North, Callahy (see Target Notes **4212-b_TN3**, **4154-d_TN5**, **4213-b_TN1**, **4213-b_TN2**)

- PF1 Rich Fen and Flush linked to ‘alkaline fens (7230)’ and ‘*calcareous fens with *Cladium mariscus* and species of the *Caricion davallianae* (7210)’. The latter is a priority habitat that describes stands of species-rich alkaline fen vegetation in which Great Fen-sedge (*Cladium mariscus*) is dominant. Found in the townlands of Kilbarron and Callahy– see Target Notes **4154-c TN7** and **4213-b_TN2**.
- PF3 Transition Mire and Quaking Bog. Corresponds to the annexed habitat, ‘transition mires and quaking bogs (7140)’. Found in the townland of Kilbarron (see Target Note **4154-c_TN5**).

Woodland Habitats

- WN1 Oak-birch-holly woodland is linked to the Annex I habitat Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles (91A0)’. It is found mainly in the north-east of the study area; in the townlands of Coolreagh Beg and Fossa More – see Target Notes **4154-d_TN6**.
- WN7 Bog Woodland also priority habitat under Habitats Directive listed as Bog Woodland (Code 91d0). This habitat type is found in small pockets at the edges of peatland areas in the townlands of Coolreagh Beg, Fossa More, Core, Rossanure, Clonmoher, Annaghneal, Craggaunkeel and Lecarrow North.

The areas listed above are of particular interest on an International and National level. These habitats are listed under Annex I of the EU Habitats Directive and a number of them are also Priority Habitats. These sites are rich in biodiversity and support a number of Annex II species. The Peatlands and Woodlands provide refuge and habitat for numerous animal and invertebrate species, including, Badger, Fox, Pine Martin, Smooth Newt, Common Frog, various species of bird including Barn Owl, Sparrow Hawk, Kestrel, Meadow Pipit, Sky Lark, and a variety of beetle, dragon fly and damselfly species.

4.4.1.2 Habitats of High Ecological Value in a Local Context – Very Sensitive Habitats

These habitats are considered to be of High Ecological Importance in a Local Level as they contain semi-natural habitat types with high biodiversity in a local context. They also form valuable linkages and function as part of the designated sites, which are found within and border the study area.

Freshwater Habitats

- Limestone Marl Lakes FL3. Good examples found in Rosslara Lough, Maryfort Lough and Castle Lough.
- Mesotrophic Lakes FL4. Good examples are Craggaunkeel Lough, Lough Bridget, Lough Meelagh, Dromore Lough.
- Eroding Upland Rivers FW1. Found throughout the study area.
- Depositing/Lowland Rivers FW2. Found throughout the study area.
- Reed and Tall Sedge Swamps FS1. Occurs in drains, rivers and fringing lakes throughout study area.

Grassland & Marsh Habitats

- Wet Grassland GS4. When Wet Grassland does not correspond to the Annex I habitat *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinia caerulea*) (6410), but is still quite species-rich, it is considered to be of high ecological importance on a local scale. This habitat type was found scattered throughout the study area. Good examples of species-diverse Wet Grasslands are described in **4212-b_TN7**, **4155-a_TN3**, and **4154-a_TN1**.
- Marsh GM1. This habitat type was scattered throughout the study area. Good examples of this habitat type are described in **4155-b_TN2** and **4210-d_TN1** and **4212-a_TN1**.

Peatland Habitats

- Cutover Bog PB4 which does not correspond to the annexed habitat, 'depressions on peat substrates of the *Rhynchosporion* (7150)', This habitat type was found in numerous locations throughout the study area, including Coolreagh, Coolreagh Beg, Derrynaheila, Callahy and Ballynahinch (see Target Notes **4212-b_TN2**, **4212-b_TN4**, **4213-b_TN2**).

Woodlands

- Oak-Ash-Hazel woodland WN2. Found throughout the west and south west of the study site, in the townlands of Rossanure, Coolreagh, Annagh/Drumminnanav (**4212-a_TN3**), Boherurd (see Target Note **4211c_TN3**) and Craggaunkeel.
- Wet Pedunculate Oak-Ash Woodland WN4 (very small pockets found in Gortaderry and Ross).

- Wet Willow-Alder-Ash Woodland WN6 (In the middle and south-western section of the study area, in the townlands of Feakle, Rossanure (see Target Note **4154-d_TN2**), Core, Coolreagh Beg, Core and Lecarrow North).

4.4.1.3 Habitats of Moderate Ecological Value in a Local Context – Moderately Sensitive Habitats

Sites containing some semi-natural habitat or locally important for wildlife;

Freshwater Habitats

- Drainage Ditches FW4. These are found scattered throughout the study area.

Grassland & Marsh Habitats

- Dry Calcareous and Neutral Grassland GS1. This habitat occurs throughout Study Site, particularly in the south west and north. Good, species-diverse examples of this habitat type are described in Target Notes **4155-a_TN4**, **4155-a_TN5** and **4212-a_TN8**
- Dry Meadows and Grassy Verges GS2. Good examples were found in Annagooladory and Fossa Beg (see target notes **4155-b_TN1** and **4156-c_TN2**, respectively).
- Dry-humid Acid Grassland GS3. Found in small pockets within the study area, most notably in the townland of Clashmore, Lecarrow Lower, Core, Sheeaun, Aughrim/Tobernagat (see Target Notes **4097-c_TN2**, **4155b_TN7**).

Woodlands and Scrub

- (Mixed) Broadleaved Woodland WD1. This habitat type is found throughout the study area.
- Mixed Broadleaved/Conifer Woodland WD2 This woodland type is also found throughout the study site. The largest area occurs in the south east, in Ballincurrig townland.
- Scrub WS1. This habitat type is found throughout the study area.
- Immature Woodland WS2. Found in the townlands of Lecarrow Lower, Feakle, Dromore, Lecarrow North, Lisbarreen, Ballincurrig and Ballymalone.
- Hedgerows WL1 (criss-cross the entire study area).
- Treelines WL2 (scattered throughout the study area).

Exposed Rock and Disturbed Ground

- ER2 Exposed Calcareous Rock (one very small patch in the townland of Annagh)

4.4.1.4 Habitats of Low Ecological value in a Local Context – Robust Habitats**Freshwater Habitats**

- Other Artificial Lakes and Ponds FL8. Several small ponds were found throughout the study area. A good example is described in Target Note **4095-d_TN1**.

Grassland & Marsh Habitats

- Improved Agricultural Grassland GA1 (the predominant habitat in the study area).
- Amenity Grassland GA2 (found throughout the study area, mainly in gardens and parklands).

Heath and Dense Bracken Habitats

- Dense Bracken HD1. This habitat was recorded in small patches throughout the study area, mainly in areas of drained and/or cutover bog.

Woodlands

- (Mixed) Conifer plantation WD3. Found in the townlands of Ayle Lower, Lecarrow North, Craggaunkeel, Rosslara, Cloondorne, Drummaghmartin, Coolready.
- Conifer Plantation WD4. Large area in the south eastern corner, in the townlands of Ballymalone and Ballyvannan, and scattered throughout the study area.
- Scattered Trees and Parkland WD5. A good example of this habitat type was found in the townland of Maryfort (Lismeehan).

Exposed rock and disturbed ground

- Spoil and Bare Ground ED2. Found in Rossanure, Feakle, Coolready.
- Recolonising Bare Ground ED3. Found in Poulagower, Ballynahinch, Knockagower.

Cultivated and built land

- Horticultural Land BC2. Found in the townland of Ballyvannan.
- Tilled Land BC3. Found in the townland of Lecarrow Lower.
- Buildings & Artificial Surfaces BL3. Found throughout the study area.

The locations of all of the habitats can be found in **Table 4.2** and in the supporting Habitat Map. Examples of these habitats are provided in the Target Notes in **Appendix A**.

4.5 AREAS LIABLE TO FLOOD

As part of the project brief, there is a requirement to outline and compare existing habitats with areas marked as “liable to flood” in the 6 inch Ordnance Survey maps. The current OPW flood maps for the area (www.floodmaps.ie) were also consulted for where recorded flood events correspond to the “liable to flood” identified on the 6 inch maps. The locations of all of the flood events within and adjacent to the study area are shown in **Habitat Map** attached and **Figure 4.1** below.

Each area is identified and discussed below in relation to flooding potential and existing habitats. The areas identified as “liable to flood” in the 6 inch maps are delineated by a black line.

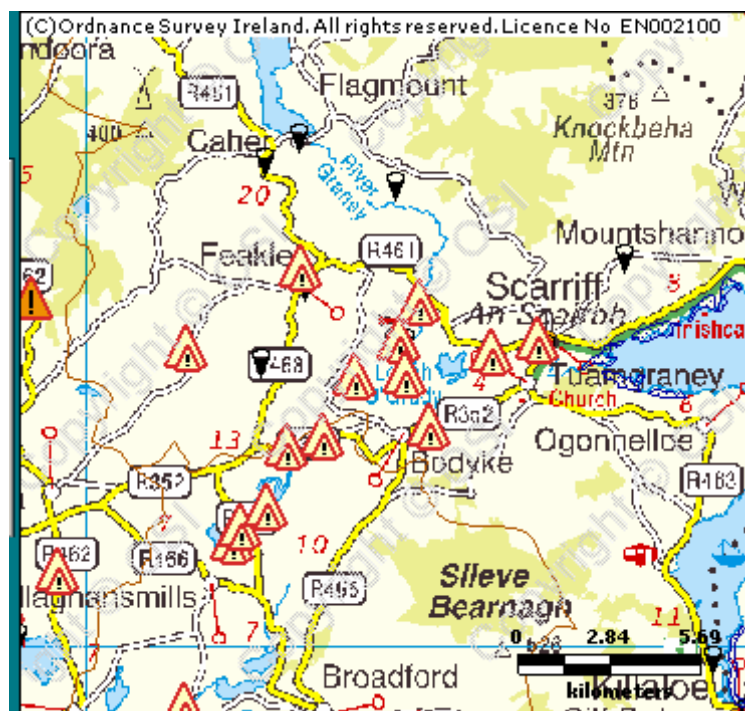


Figure 4.1: OPW National Flood Mapping Flood events within the Study Area

- **AREA 1: GLENBONNIV RIVER AT FEAKLE (IGR: 157379, 187349)**



Habitat Map



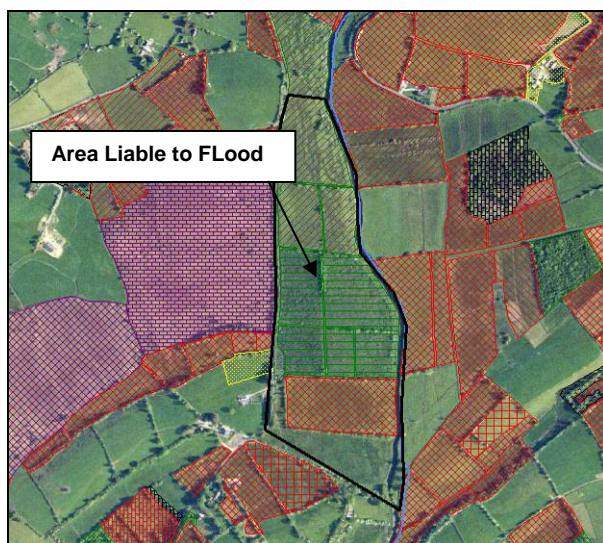
Extent of Flooding (OPW Flood Map)

Habitats: The area comprises Improved Agricultural Grassland with abundant rushes. Species diversity was not high enough to justify a Wet Grassland (GS4) classification.

Watercourses nearby: The Glenbonniv River bisects the area liable to flood.

OPW Flood maps website: There are no records for this flooding event on the OPW website. There is a record for a flood event approximately 700m to the south west of the site.

- **AREA 2: RIVER GRANEY AT LECARROW LOWER (IGR: 160225, 185362)**



Habitat Map



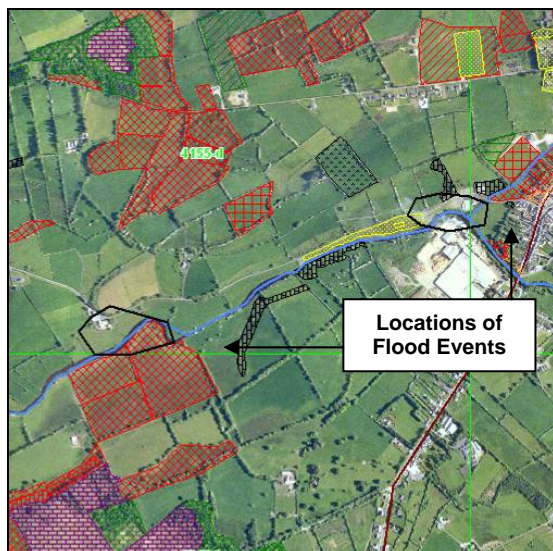
Extent of Flooding (OPW Flood Map)

Habitats: Most of the area marked as 'Liable to Flood' on the 6" Historic Maps has been planted with trees – an area of Conifer Plantation (WD4) was recorded in the northern section with an area of Mixed Broadleaved Woodland (WD1) immediately to the south. South again of this wooded area is a section of Wet Grassland (GS4).

Watercourses nearby: The River Graney is directly adjacent to the flooding area on the eastern side.

OPW Flood maps website: This site is recorded as a recurring flood event in the OPW Flood Maps.

- **AREA 3: SCARRIFF RIVER (IGR: 162830, 184080)**



Habitat Map

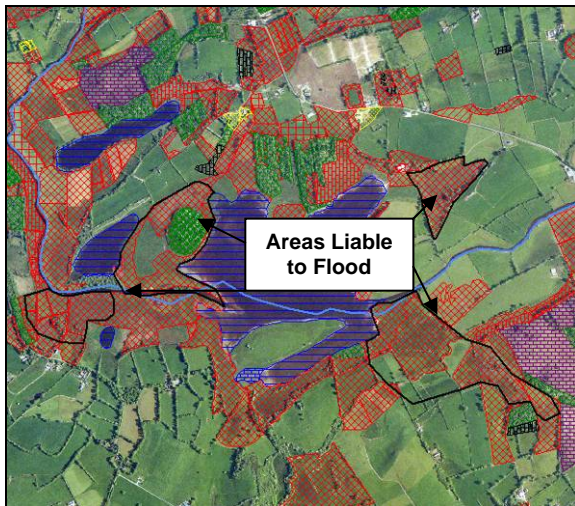


Extent of Flooding (OPW Flood Map)

Habitats: These areas are not marked as Liable to Floods on the 6" Historical Maps but are recorded as recurring flood events on the OPW website. The lands at Scarriff River Waterpark comprise Wet Grassland (GS4) and Improved Agricultural Grassland GA1. To the north east in Scarriff town the lands comprise Buildings and Artificial Surfaces (BL3) and Improved Agricultural Grassland (GA1).

Watercourses nearby: The Scarriff River.

OPW Flood maps website: Both of these sites are recorded as recurring flood events on the OPW website.

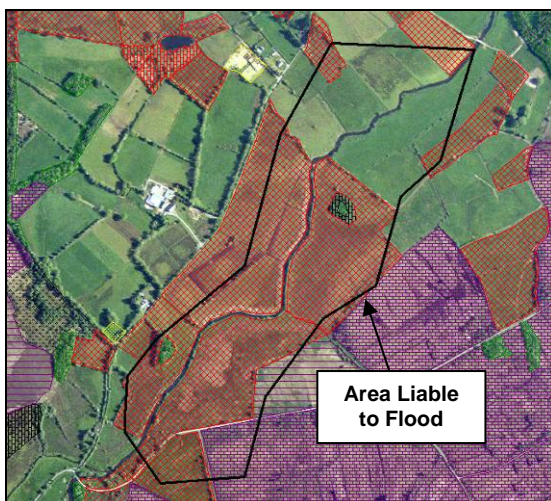
AREA 4: LOUGH O'GRADY (IGR: 161296, 183700)**Habitat Map****Extent of Flooding (OPW Flood Map)**

Habitats: The lands surrounding Lough O'Grady comprise mainly Wet Grassland (GS4). There are some small patches of Reed and Large Sedge Swamp (FS1), and a small area of Oak Birch Holly Woodland (WN1) occurs on the north western side of the lake.

Watercourses nearby: The River Graney flows into the lake at the west end, while the River Scarriff flows out at the eastern side.

OPW Flood maps website: There are no OPW records for recent flooding events at this location.

- AREA 5: DERRYHEILA/COOLREAGH**

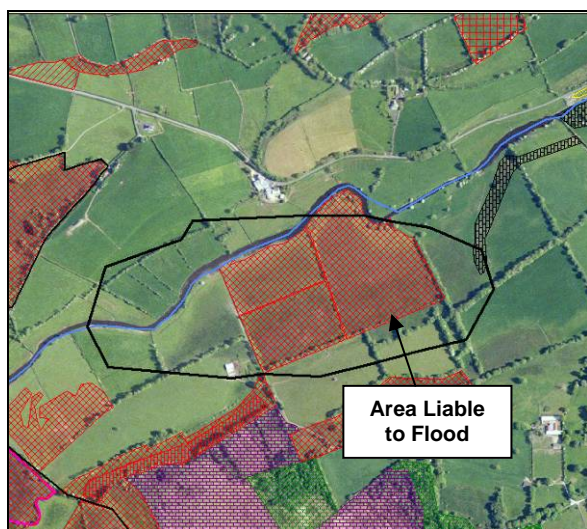
**Habitat Map****Extent of Flooding (OPW Flood Map)**

Habitats: The habitats in the area marked Liable to Flood on the 6" Historical Maps comprise mainly Wet Grassland (GS4). The site also extends in to an area of Raised/Cutover Bog in the south east.

Watercourses nearby: The Cloghaun River flows through the area liable to flood.

OPW Flood maps website: There is an OPW records for a recurring flooding event just south east of the area marked liable to flood, to which it may correspond.

- **AREA 6: SCARRIFF RIVER AT DREWSBOROUGH (IGR: 162697, 183879)**



Habitat Map



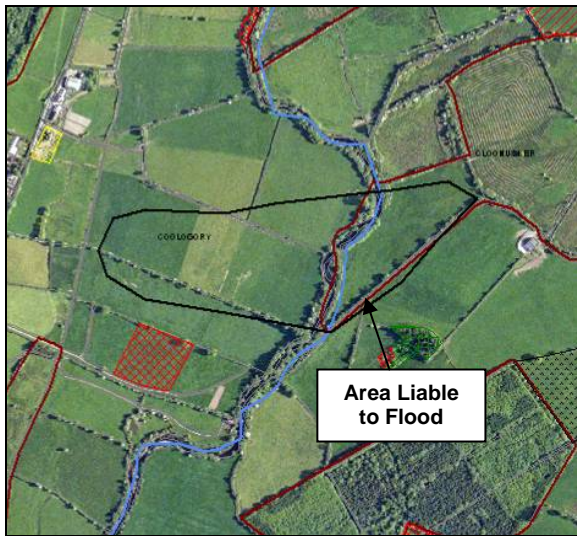
Extent of Flooding (OPW Flood Map)

Habitats: The habitats in the area marked Liable to Flood on the 6" Historical Maps comprise mainly Wet Grassland (GS4). The surrounding lands are classified as Improved Agricultural Grassland (GA1).

Watercourses nearby: Lough O' Grady lies approximately 1km west of the area liable to flood. The Scariff River flows in a north-easterly direction from Lough O'Grady through the area liable to flood.

OPW Flood maps website: There are no OPW records for recent flooding events at this location, indicating that the drainage has been altered at the site.

- **AREA 7: RIVER GRANNEY AT COOLOGORY (IGR: 161015, 187503)**



Habitat Map



Extent of Flooding (OPW Flood Map)

Habitats: The habitats in the area liable to flood are classified as Improved Agricultural Grassland (GA1), indicating that drainage has been improved at the site.

Watercourses nearby: The River Graney flows through the area liable to flood.

OPW Flood maps website: There are no OPW records for recent flooding events at this location, indicating that the drainage has been altered at the site.

- **AREA 8: RIVER GRANNEY AT POULAGOWER**



Habitat Map



Extent of Flooding (OPW Flood Map)

Habitats: The western half of the area liable to flood is comprised of Improved Agricultural Grassland (GA1). The eastern half of the area appears to be wetter, comprising Wet Grassland (GS4).

Watercourses nearby: The River Grainey runs through the area in a north-south orientation.

OPW Flood maps website: There are no OPW records for recent flooding events at this location, indicating that the drainage has been altered at the site.

- **AREA 9: CLONMOHER (IGR 158126, 181788)**



Habitat Map



Extent of Flooding (OPW Flood Map)

Habitats: The eastern half of the area liable to flood is comprised of Improved Agricultural Grassland (GA1). The western half of the area appears to be wetter, with two sections of Wet Grassland (GS4) and a small patch of Reed and Large Sedge Swamp (FS1). Drainage Ditches (FW4) criss-cross the site.

Watercourses nearby: Lough Meelagh is situated approximately 400m to the south east of the area liable to flood. The Cloghaun River is 900m to the north-west.

OPW Flood maps website: There is a record for a recurring flood event in the area but it is mapped a few hundred metres west of the area marked as 'Liable to Flood'.

- **AREA 10: LISBAREEN (IGR: 157578, 180773)**



Habitat Map



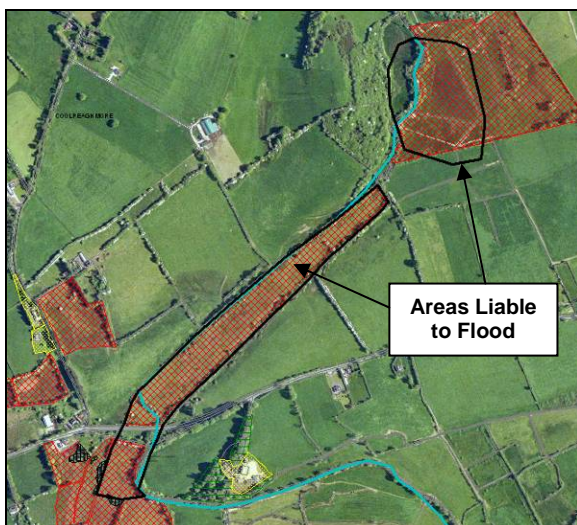
Extent of Flooding (OPW Flood Map)

Habitats: The areas marked as Liable to Flood on the 6" Historical Maps comprise mainly Wet Grassland (GS4), with some Immature Woodland (WS2).

Watercourses nearby: Lough Meelagh is situated approximately 1km to the north-east of the area liable to flood

OPW Flood maps website: Two flooding events area recorded in the vicinity of the area marked as liable to flood, but it is unlikely that either of these correspond to the site, as they are both over 700m away.

- **AREA 11: COOLREAGH MORE/BODYKE**



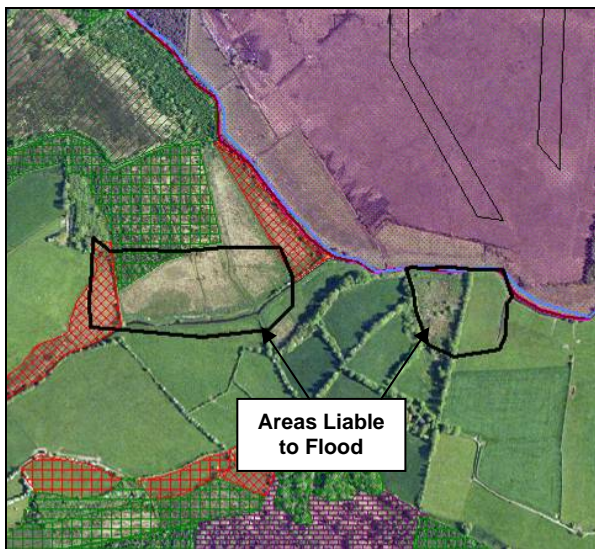
Habitat Map

Habitats: The areas marked as Liable to Flood on the 6" Historical Maps comprise Wet Grassland (GS4).

Watercourses nearby: The Annahmullahaun River flows along the western edge of the areas liable to flood.

OPW Flood maps website: This site is recorded as a recurring flood event on the OPW website.

- **AREA 12: SUMMER HILL (IGR: 153853, 182685)**



Habitat Map



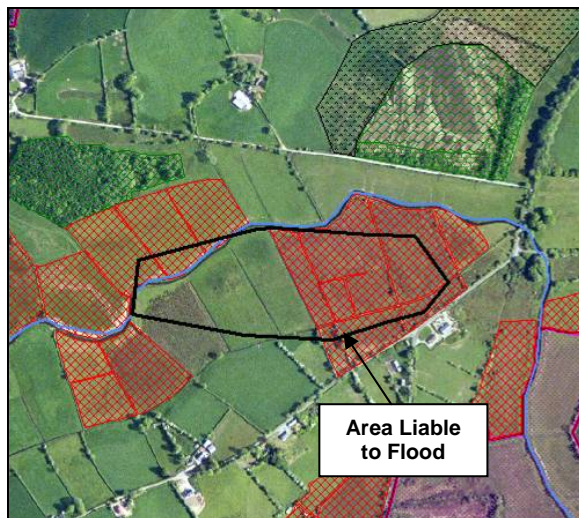
Extent of Flooding (OPW Flood Map)

Habitats: The areas marked as Liable to Flood on the 6" Historical Maps comprise mainly Improved Agricultural Grassland (GA1). There is a small area of Wet Grassland (GS4) on the western side. Ayle Lower Bog NHA lies just to the north.

Watercourses nearby: The Cloghaun River flows along the northern side of the areas liable to flood.

OPW Flood maps website: There are no OPW records for recent flooding events at this location.

- **AREA 13: ERRINAGH/DRUMMINANAV**



Habitat Map



Extent of Flooding (OPW Flood Map)

Habitats: The areas marked as Liable to Flood on the 6" Historical Maps comprise mainly Wet Grassland (GS4), with some Improved Agricultural Grassland.

Watercourses nearby: The Cloghaun River flows along the northern side of the areas liable to flood.

OPW Flood maps website: There are no OPW records for recent flooding events at this location.

4.5.1 Conclusions on Areas Liable to Flood

A total of thirteen areas were identified from the 6 inch Ordnance Survey maps as "liable to flood". Many areas are still represented by wetland habitats which reflect high water tables or seasonal inundation with flood waters. Some areas are however Improved Agricultural Grasslands which have been subject to changes in the historical drainage patterns. These changes may have been implemented by the landowners or the OPW as part of maintenance works on the arterial drainage network or flood alleviation programmes.

In relation to the potential development of these lands careful consideration must be given to wetland habitats and their associated hydrology, whether they are supported by surface or groundwater fluctuations. Further investigation is required at these locations to identify potential pollution pathways and appropriate measures to be put in place to protect wetland habitats and their associated waterbodies.

5 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Information from this survey is principally of value in revealing the nature of the biodiversity interest within the Study Area. The results can be used to compare the status of biodiversity with other areas where such surveys have taken place, provide a baseline to inform discussion and policy-making on biodiversity and/or inform future research on other aspects of biodiversity.

There are 117 habitat types classified in Ireland (Fossitt, 2000), 89 of these habitat types are terrestrial and 28 of these are marine habitat. Of the 89 terrestrial habitat types, 49 different types of habitats occur within the study area. Of the 50 different habitat types, 8 are classified under cultivated and built land and the remaining 41 habitats are described in detail throughout the report.

Within these habitats, the study revealed 13 habitat types are considered rare, not only in Clare, but also in Ireland and the rest of Europe.

The habitats found within the study area are evaluated based on their naturalness, value and vulnerability. Habitats that are assessed to be good examples of Annex I priority habitats are considered to be of International or National importance. Semi-natural habitats with high biodiversity in a local context and that are vulnerable, are considered to be of High Ecological value in a local context. Habitats that are considered semi-natural habitat or locally important for wildlife are considered to be of Moderate Ecological value in a local context, and robust habitats that have been highly modified are considered to be of Low Ecological value in a local context.

The habitat inventory and supporting biodiversity evaluation of the lands in Mid Clare has important implications for spatial planning in the area. This information also establishes a forum for education and further research into the biodiversity value of study area.

5.1 HABITAT MANAGEMENT

Some of the sites found within the study area which are of high conservation value are under threat from invasive species. These sites are in need of management measures in order to restore them to a favourable conservation status. Sites in need of management practices are described below.

5.1.1 Lough O' Grady

Lough O'Grady contains a population Zebra Mussel (*Dreissena polymorpha*), an invasive species which has recently entered the lake. Lough O Grady is connected to Lough Derg by the Scariff River which may be a corridor for the mussels. Other freshwater mussels were found in the lake which the Zebra mussels are using as anchor. Broken freshwater mussel shells are strewn all over the shore line. This and the abundance of spraints would indicate Otters have a good foothold in this habitat.

Due to the invasive nature of Zebra Mussels some control of this speceis is required to maintain the conservation status of the Lake. Many different strategies for control of Zebra Mussels exist, but these strategies can be divided into two main categories, chemical and non-chemical. Chemical methods include the use of ozone, chlorine, potassium permanganate, bromine, molluscicides, oxygen deprivation, flocculation processes, salinity and antifouling coatings. Chemical methods are the most widely used for control of the Zebra Mussel. These methods are **not** recommended, however, as they would result in pollution of the lake and are highly likely to impact upon other aquatic life.

Non-chemical methods include proactive techniques to prevent infestation such as application of UV light, filtration, acoustic energy, the use of electric and magnetic fields, and increasing water velocity. Reactive techniques to treat infestations include freezing, desiccation, thermal shock treatments, mechanical cleaning and biological control.

A full assessment must be carried out to determine which of these methods is most suitable for control of the Zebra Mussel infestation in Lough O'Grady. Advice should be sought from the NPWS, prior to the commencement of management measures at the site.

5.1.2 Raised Bog in Ballynahinch Townland

An area of Raised Bog (PB1) was found in the townland of Ballynahinch (see Target Note **4211-d_TN1**). This bog is mostly intact but has been cutover around the edges. The peat depth in the intact area is approximately 2 metres, as seen from peat banks. The intact area has been subject to extensive drainage works, with Drainage Ditches (FW4) criss-crossing the site.

The vegetation is typical of this habitat type, dominated by Ling (*Calluna vulgaris*) and Purple Moor-grass (*Molinia caerulea*). Patches of Bog Woodland (WN7) and Dense Bracken (HD1) occur on the northern, eastern and southern sides.

It was noted on the day of the field visit to this site that Rhododendron (*Rhododendron ponticum*) is starting to spread in to the bog on all sides, especially on the eastern side. This poses a threat to the diversity of the site, as Rhododendron is an invasive species which grows thickly and casts a heavy shade, suppressing the growth of other plants beneath it.

It is recommended that the Rhododendron be cleared at this site, in order to preserve to integrity of the bog habitat. There are several publications available on control of Rhododendron, such as Best Practice Management Guidelines Rhododendron *Rhododendron ponticum* and Cherry Laurel *Prunus laurocerasus*, Maguire, C.M., Kelly, J. and Cosgrove, P.J. (2008). Methods for control of Rhododendron described in this publication include cutting and removal of the plant, and treatment of stumps

5.2 RECOMMENDATIONS FOR SPATIAL PLANNING

The information in the survey provides an evaluation of the status of biodiversity in the surveyed area. The findings are the following;

- 1) There is a relatively good cover of semi-natural habitats in the wider countryside
- 2) Linear features such as hedgerows and drainage ditches are important habitats and linking features should be communicated to the public, landowners and policy makers.
- 3) Priority research given into land abandonment and its impacts on peatlands, wetlands, species rich grassland etc. and should be carried out, and to initiate action projects to appropriately manage surviving good quality examples of these rare types of habitats.

These issues should be communicated to the general public and to stakeholders (Teagasc, IFA, landowners and planners) who are making decisions on land use. The secondary priority is to continue to gather such information on other parts of the county, particularly areas under pressure from development.

Strategic planning should recognise the sensitivity of the certain habitats to development, in particular water dependant habitats, where disruptions in the hydrological regime of an area can have significant impacts on these sensitive habitats. Projects such as quarrying, road building and large industrial and residential developments can cause irreversible consequences to these habitats.

Linkages and buffer zones should be maintained and incorporated into Development Plans. The removal of these linkages leads to habitat fragmentation and isolation. These corridors ensure the continued vitality of designated sites and protected habitats.

Specific policies should be developed to take into consideration habitats categorised in **Section 4.4** Sites of Local Biodiversity Interest. Development should be avoided in habitats classified as Highly Sensitive and Very Sensitive and minimised in habitats classified as Moderately Sensitive. The majority of the study area is covered by habitats categorised as Robust and development should be considered in these areas.

Where development is considered in habitats listed categorised as Highly Sensitive and Very Sensitive, policies may contain requirements for developers to evaluate and assess the impacts of the proposals on sensitive habitats. Under the Environmental Liability Regulations (SI 547, 2008), it is also important to note that protected species and natural habitats fall under the remit of this legislation wherever they occur in Ireland, for example in sites that do not meet the criteria for designation as a SAC. Designated site boundaries do not as a result present any limits on their protection. Damage to protected species and natural habitats can take place where such species and habitats occur, including migratory species.

Therefore, impacts to Annexed habitats and species may require screening and Appropriate Assessment under the Habitats Directive 92/43/EEC, Article 6(3) and (4), Assessment of Plans and projects Significantly Affecting Natura 2000 Sites.

Where developments are required for the socio-economic improvement of an area, these developments should be evaluated against the wider area at a strategic level. The assessment must include the direct, indirect and cumulative impacts of such developments, and the evaluation of any possible environmental impacts to specific sensitive habitats against the impact of the habitat coverage within the locality and area as a whole. Where such developments require it, this information should be assessed through a Strategic Environmental Assessment (SEA) Process.

5.3 LOCAL AREA PLANS

The information contained in this report may be used in conjunction with the South Clare Local Area Plan 2009. All information pertaining to this study is provided digitally in a GIS system and is access is available to all planners in Clare County Council and to the general public. This information is provided to facilitate a sustainable approach to planning and to identify opportunities to incorporate and manage sensitive habitats in local and regional scale.

5.4 STAKEHOLDER ENGAGEMENT

The positive engagement and co-operation of land owners and their representative bodies such as Teagasc, IFA etc., can contribute significantly to the success of the protection of local sites of ecological value. The management of these sites should also reflect the broad interests of landowners on to and identify mechanisms which will allow effective input.

The availability of digital information at County Council Offices, Teagasc, IFA and civic centres will assist in the dissemination of information to landowners, developers and agencies that advice on landuse and development.

Hardcopies of the Habitat Map and report will also be made available at these centres.

5.5 OPPORTUNITIES FOR FURTHER RESEARCH

Further studies should be conducted at sites identified as Internationally, Nationally Important Ecological Sites and also sites identified as being of High Ecological Value in a Local Context as per Table 4.1 Section 4.1. Some of these sites may meet the criteria for designation under European or Irish legislation. Other sites that do not meet the criteria for legal designation but contain habitats of conservation value may be designated as Sites of Local Nature Conservation Interest (SLNCI) and a strategic context for the designation of these sites may be incorporated into Local Area Plans.

This approach to the designation of local sites has been adopted in the UK and Northern Ireland, and Guidance for the Identification and Selection of Local Sites has been developed by the Department for the Environment Food and Rural Affairs (DEFRA). The evaluation and selection

criterion for the local conservation sites is based on the 'Ratcliffe Criterion' as set out in the Nature Conservation Review 1977. A synopsis of the Ratcliffe criterion is provided in **Table 6.1**.

Table 5.1 Ratcliffe Criterion

Criteria	Description
Size	A habitat's importance for nature conservation generally increases with its size.
Diversity	Variety is better than uniformity, species or habitat richness is generally better than a poor species or habitat complement.
Naturalness	Sites, which have remained relatively unaltered by man, tend to be the most valuable. Furthermore, sites which are considered most natural are generally those which are hardest to recreate.
Fragility	A habitat that is fragile is one that is sensitive to changing influences. Habitats, which are liable to such influences, are likely to be of higher value than those which are not.
Typicalness	Those habitats which are representative or typical of good examples of their type are considered of higher value than those which are not.
Rarity	A site where rare or protected species or habitats exist is considered of higher value.
Position in an ecological or geographical unit	Sites, and their associated habitats, which are contiguous with other similar sites tend to be more valuable than those sites, which are situated in isolation.
Potential Value	Habitats, which, through an adjustment of current influences, have the potential to be, of a higher nature conservation value than they are currently, have additional value
Intrinsic Value	This criterion is based upon the value humans' place on a feature of ecology as opposed to its actual nature conservation value.

APPENDIX A

TARGET NOTES

TARGET NOTES – ID No. 1

Survey Title: Mid Clare Habitat Mapping		Survey date: 06/07/10																																				
Surveyor: John Curtin		County name: Clare																																				
1:2,500 Sheet no: 4036-d	Townland: Gortavulla/Gortaderry	Grid Ref: 159961, 190228																																				
Target note no.: TN1		Area: 2.5ha																																				
Ecological Interest: High Ecological interest in an international context. This habitat type is linked with the Annex I Priority* Habitat, 'Blanket Bog (*if active) (7150)'.																																						
Habitat code PB2	<p>Active Upland Blanket Bog PB2 at the edge of a large Conifer Plantation WD4 in good condition. However the habitat is under threat from Scrub WS1 encroachment.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Calluna vulgaris</i></td><td>Ling Heather</td><td>Abundant</td></tr> <tr> <td><i>Cladonia</i> spp.</td><td>Bearded Lichen</td><td>Occasional</td></tr> <tr> <td><i>Erica tetralix</i></td><td>Cross-leaved Heath</td><td>Abundant</td></tr> <tr> <td><i>Eriophorum</i> spp.</td><td>Cottongrasses</td><td>Occasional</td></tr> <tr> <td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Occasional</td></tr> <tr> <td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Abundant</td></tr> <tr> <td><i>Narthecium ossifragum</i></td><td>Bog Aphodel</td><td>Frequent</td></tr> <tr> <td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr> <td><i>Salix</i> spp.</td><td>Willows</td><td>Occasional</td></tr> <tr> <td><i>Sphagnum</i> spp.</td><td>Bog Mosses</td><td>Frequent</td></tr> <tr> <td><i>Trichophorum cespitosum</i></td><td>Deergrass</td><td>Frequent</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Calluna vulgaris</i>	Ling Heather	Abundant	<i>Cladonia</i> spp.	Bearded Lichen	Occasional	<i>Erica tetralix</i>	Cross-leaved Heath	Abundant	<i>Eriophorum</i> spp.	Cottongrasses	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Narthecium ossifragum</i>	Bog Aphodel	Frequent	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Salix</i> spp.	Willows	Occasional	<i>Sphagnum</i> spp.	Bog Mosses	Frequent	<i>Trichophorum cespitosum</i>	Deergrass	Frequent
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Habitat Map**Legend**



Image 1: Close up of Blanket Bog vegetation, *Calluna vulgaris*, Cross-leaved Heath and *Eriophorum* spp

TARGET NOTES – ID No. 2

Survey Title: Mid Clare Habitat Mapping		Survey date: 22.06.10																											
Surveyor: Jean Hamilton		County name: Clare																											
1:2,500 Sheet no: 4094-d	Townland: Glenbonniv	Grid Ref: 155773, 187366																											
Target note no.: TN1		Area: 1.2ha																											
Ecological Value: High Ecological interest in a local context. Linked to Annex I Habitats, European Dry Heaths (4030) and Northern Atlantic wet heaths with <i>Erica tetralix</i> (4010)																													
Habitat code HH1/HH3	<p>Patch of Wet/Dry siliceous Heath HH1/HH3 on a hill beside a conifer plantation. Potentially good Hen Harrier habitat; according to the landowner this area was formerly in the Slieve Aughties SPA but has since been removed from the designation.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal</td><td>Frequent</td></tr> <tr> <td><i>Calluna vulgaris</i></td><td>Ling</td><td>Frequent</td></tr> <tr> <td><i>Carex echinata</i></td><td>Star Sedge</td><td>Frequent</td></tr> <tr> <td><i>Dactylorhiza maculata</i></td><td>Heath Spotted-Orchid</td><td>Abundant</td></tr> <tr> <td><i>Erica tetralix</i></td><td>Cross-leaved Heath</td><td>Occasional</td></tr> <tr> <td><i>Juncus</i> spp.</td><td>Rushes</td><td>Abundant</td></tr> <tr> <td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Abundant</td></tr> <tr> <td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal	Frequent	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Dactylorhiza maculata</i>	Heath Spotted-Orchid	Abundant	<i>Erica tetralix</i>	Cross-leaved Heath	Occasional	<i>Juncus</i> spp.	Rushes	Abundant	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Potentilla erecta</i>	Tormentil	Frequent
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Habitat Map




Legend


TARGET NOTES – ID No. 3																																																								
Survey Title: Mid Clare Habitat Mapping		Survey date: 22.06.10																																																						
Surveyor: Jean Hamilton		County name: Clare																																																						
1:2,500 Sheet no: 4095-c	Townland: Corracloon Beg	Grid Ref: 156988, 187631																																																						
Target note no.: TN1		Area: 0.34ha																																																						
Ecological Value: Moderate Ecological interest in a local context. This habitat does not correspond to any Annex I habitats.																																																								
Habitat code GS4/GM1	<p>Wet Grassland/Marsh mosaic. Much of the area is dominated by sedges and grasses and so is classified as Wet Grassland (GS4), but this habitat grades in to Marsh (GM1) in patches with rushes, sedges, Meadowsweet and Horsetails dominant. This habitat occurs in a depression in the landscape and so drainage is obviously impeded here. It is quite species-rich.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal</td> <td>Dominant</td> </tr> <tr> <td><i>Ajuga reptans</i></td> <td>Bugle</td> <td>Occasional</td> </tr> <tr> <td><i>Angelica sylvestris</i></td> <td>Wild Angelica</td> <td>Occasional</td> </tr> <tr> <td><i>Carex</i> spp.</td> <td>Sedges</td> <td>Abundant</td> </tr> <tr> <td><i>Cirsium palustre</i></td> <td>Marsh Thistle</td> <td>Occasional</td> </tr> <tr> <td><i>Cynosurus cristatus</i></td> <td>Crested Dog's-tail</td> <td>Frequent</td> </tr> <tr> <td><i>Dactylorhiza fuchsii</i></td> <td>Common Spotted-Orchid</td> <td>Occasional</td> </tr> <tr> <td><i>Equisetum</i> spp.</td> <td>Horsetails</td> <td>Abundant</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Abundant</td> </tr> <tr> <td><i>Juncus</i> spp.</td> <td>Rushes</td> <td>Abundant – Dominant</td> </tr> <tr> <td><i>Iris pseudacorus</i></td> <td>Yellow Iris</td> <td>Occasional</td> </tr> <tr> <td><i>Lotus pedunculatus</i></td> <td>Greater Birds-foot Trefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Luzula</i> spp.</td> <td>Woodrushes</td> <td>Occasional</td> </tr> <tr> <td><i>Menyanthes trifoliata</i></td> <td>Bogbean</td> <td>Occasional</td> </tr> <tr> <td><i>Poa</i> spp.</td> <td>Meadowsweet</td> <td>Abundant</td> </tr> <tr> <td><i>Potentilla palustris</i></td> <td>Marsh Cinquefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Valeriana officinalis</i></td> <td>Common Valerian</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal	Dominant	<i>Ajuga reptans</i>	Bugle	Occasional	<i>Angelica sylvestris</i>	Wild Angelica	Occasional	<i>Carex</i> spp.	Sedges	Abundant	<i>Cirsium palustre</i>	Marsh Thistle	Occasional	<i>Cynosurus cristatus</i>	Crested Dog's-tail	Frequent	<i>Dactylorhiza fuchsii</i>	Common Spotted-Orchid	Occasional	<i>Equisetum</i> spp.	Horsetails	Abundant	<i>Holcus lanatus</i>	Yorkshire Fog	Abundant	<i>Juncus</i> spp.	Rushes	Abundant – Dominant	<i>Iris pseudacorus</i>	Yellow Iris	Occasional	<i>Lotus pedunculatus</i>	Greater Birds-foot Trefoil	Frequent	<i>Luzula</i> spp.	Woodrushes	Occasional	<i>Menyanthes trifoliata</i>	Bogbean	Occasional	<i>Poa</i> spp.	Meadowsweet	Abundant	<i>Potentilla palustris</i>	Marsh Cinquefoil	Frequent	<i>Valeriana officinalis</i>	Common Valerian	Occasional
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<i>Poa</i> spp.	Meadowsweet	Abundant																																																						
<i>Potentilla palustris</i>	Marsh Cinquefoil	Frequent																																																						
<i>Valeriana officinalis</i>	Common Valerian	Occasional																																																						

Habitat Map



Legend

TARGET NOTES – ID No. 4		
Survey Title: Mid Clare Habitat Mapping		Survey date: 21.06.10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4095-d	Townland: Kildavin	Grid Ref: 158851, 187768
Target note no.: TN1		Area: 0.24ha
Ecological Value: Moderate Ecological interest in a local context		
Habitat code FL8	Pond in the middle of an Improved Agricultural Grassland field. Used for watering cattle. Some Water Plantain occurs on the edges of the pond. Fringe vegetation of rushes (<i>Juncus</i> spp.), Watercress (<i>Rorippa nastutium-aquatica</i>), Water Forget-me-not, Marsh Foxtail (<i>Alopecurus geniculatus</i>), Creeping Buttercup (<i>Ranunculus repens</i>). Good habitat for wildfowl.	
Habitat Map		
		
Legend		

TARGET NOTES – ID No. 5		
Survey Title: Mid Clare Habitat Mapping		Survey date: 21.06.10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4095-d	Townland: Kildavin	Grid Ref: 158758, 187401
Target note no.: TN2		Area: 0.1ha
Ecological Value: High Ecological interest in a local context. This habitat does not correspond to any annexed habitats but is considered to be of high ecological interest in a local context as broadleaved woodland is generally scarce in the landscape.		
Habitat code WN6	Small clump of Willow trees (<i>Salix</i> spp.) with occasional Ash (<i>Fraxinus excelsior</i>). There is a grassy ground layer with Bugle (<i>Ajuga reptans</i>), Watercress (<i>Rorippa nasturtium-aquaticum</i> agg.), Creeping Buttercup (<i>Ranunculus repens</i>) and Herb Robert (<i>Geranium robertianum</i>).	
Habitat Map 		
Legend		

TARGET NOTES – ID No. 6

Survey Title: East Clare Habitat Mapping		Survey date: 28/06/10
Surveyor: John Curtin		County name: Clare
1:2,500 Sheet no: 4096-a	Townland: Gortaderry	Grid Ref: 160535, 189205
Target note no.: TN1		Area: 0.4ha

Moderate ecological interest in a local context**Habitat code**

GS4/WS1

Inclined bank on side of field. Orchids (*Dactylorhiza* spp.) are present alongside occasional cross-leaved heath (*Erica tetralix*). Grades into Gorse (*Ulex*) scrub (WS1).

Species List

Species (Latin name)	Species (common name)	DAFOR Scale
<i>Anagallis tenella</i>	Bog Pimpernel	Frequent
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional
<i>Dactylorhiza</i> sp.	Orchid	Frequent
<i>Erica tetralix</i>	Heath, cross-leaved	Occasional
<i>Holcus lanatus</i>	Yorkshire Fog	Occasional
<i>Juncus articulatus</i>	Jointed Rush	Abundant
<i>Potentilla erecta</i>	Tormentil	Occasional
<i>Ranunculus repens</i>	Creeping buttercup	Occasional
<i>Rubus fruticosus</i>	Bramble	Occasional
<i>Scorpidium scorpioides</i>	Scorpidium moss	Frequent
<i>Sphagnum</i> sp	Peat moss	Frequent
<i>Taraxacum</i> sp	Dandelion sp	Frequent
<i>Trifolium repens</i>	White clover	Occasional
<i>Ulex</i> sp	Gorse	Frequent
<i>Vicia</i> sp	Vetch	Occasional

Habitat Map**Legend**

TARGET NOTES – ID No. 7																																																																									
Survey Title: Mid Clare Habitat Mapping		Survey date: 28/06/10																																																																							
Surveyor: John Curtin		County name: Clare																																																																							
1:2,500 Sheet no: 4096-a	Townland: Cappacannaun	Grid Ref: 161841, 189183																																																																							
Target note no.: TN2		Area: 1.8ha																																																																							
Ecological Interest: Moderate ecological interest in a local context. The habitat is not linked to Annex I habitats.																																																																									
Habitat code	Species-rich Wet grassland GS4.																																																																								
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Habitat Map



Legend

TARGET NOTES – ID No. 8																																																											
Survey Title: Mid Clare Habitat Mapping		Survey date: 25/06/10																																																									
Surveyor: John Curtin		County name: Clare																																																									
1:2,500 Sheet no: 4096-c	Townland: Cloonusker	Grid Ref: 161743, 187977																																																									
Target note no.: TN1		Area: 1.7ha																																																									
Moderate ecological interest in a local context																																																											
Habitat code GS4	Diverse wet grassland with orchids present. Some succession occurring with Bramble (<i>Rubus fruticosus</i>) and Willows (<i>Salix</i> spp.). Species present in the sward include Bitter-vetch (<i>Lathyrus linifolius</i>) and Spotted-Orchids. A large portion of the field has been cut.																																																										
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Habitat Map



Legend

TARGET NOTES – ID No. 9																																																							
Survey Title: Mid Clare Habitat Mapping		Survey date: 25/06/10																																																					
Surveyor: John Curtin		County name: Clare																																																					
1:2,500 Sheet no: 4096-c	Townland: Cloonusker	Grid Ref: 161498, 187949																																																					
Target note no.: TN2		Area: 1.1ha																																																					
Moderate ecological interest in a local context																																																							
Habitat code GS2	Meadow. No fence around gate so not used by animals. Sward height between one and three feet.																																																						
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<i>Vicia cracca</i>	Tufted Vetch	Occasional																																																					

Habitat Map



Legend

TARGET NOTES – ID No. 10			
Survey Title: Mid Clare Habitat Mapping			Survey date: 29/06/10
Surveyor: John Curtin			County name: Clare
1:2,500 Sheet no: 4097-c	Townland: Sheeaun		Grid Ref: 164454, 187525
Target note no.: TN1		Area: 0.5ha	
Moderate ecological interest in a local context			
Habitat code GS4	Sloped wet grassland. Grazed by horses.		
	Species List		
	Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale
	<i>Achillea millefolium</i>	Yarrow	Occasional
	<i>Agrostis stolonifera</i>	Creeping bent	Occasional
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent
	<i>Cardamine pratensis</i>	Lady's Smock	Occasional
	<i>Cirsium palustre</i>	Marsh-thistle	Occasional
	<i>Festuca sp</i>	Fescue sp	Occasional
	<i>Galium verum</i>	Lady's Bedstraw	Occasional
	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional
	<i>Hyacinthoides hispanicus</i>	Spanish Bluebell	Rare
	<i>Juncus articulatus</i>	Jointed Rush	Abundant
	<i>Lolium perenne</i>	Rye-grass, perennial	Frequent
	<i>Potentilla erecta</i>	Tormentil	Frequent
	<i>Pteridium aquilinum</i>	Bracken	Occasional
	<i>Rumex sp</i>	Sorrel sp	Frequent
	<i>Stellaria media</i>	Common Chickweed	Occasional
<i>Taraxacum sp</i>	Dandelion sp	Occasional	
<i>Trifolium repens</i>	White Clover	Frequent	

Habitat Map



Legend

TARGET NOTES – ID No. 11																																																		
Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																																																
Surveyor: John Curtin		County name: Clare																																																
1:2,500 Sheet no: 4097-c	Townland: Sheeaun	Grid Ref: 164679, 187427																																																
Target note no.: TN2		Area: 1.3ha																																																
<p>High ecological interest in a local context. This habitat type is linked to the Annex I habitat, '*species-rich <i>Nardus</i> grasslands on siliceous substrates in mountain areas (6230)', but the species diversity is not high enough in this area to correspond to this habitat.</p>																																																		
Habitat code GS3	<p>Small section of acid grassland on hillside.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Species (<i>Latin</i> name)</th> <th style="text-align: left;">Species (common name)</th> <th style="text-align: left;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Achillea millefolium</i></td><td>Yarrow</td><td>Frequent</td></tr> <tr><td><i>Agrostis</i> sp</td><td>Bent grass</td><td>Frequent</td></tr> <tr><td><i>Bryophyte</i></td><td>Moss spp</td><td>Abundant</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Occasional</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dogs-tail</td><td>Frequent</td></tr> <tr><td><i>Festuca</i> sp</td><td>Fescue sp</td><td>Frequent</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Nardus stricta</i></td><td>Mat-grass</td><td>Frequent</td></tr> <tr><td><i>Plantago lanceolata</i></td><td>Ribwort Plantain</td><td>Frequent</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping buttercup</td><td>Occasional</td></tr> <tr><td><i>Trifolium repens</i></td><td>White clover</td><td>Frequent</td></tr> <tr><td><i>Ulex</i> sp</td><td>Gorse</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin</i> name)	Species (common name)	DAFOR Scale	<i>Achillea millefolium</i>	Yarrow	Frequent	<i>Agrostis</i> sp	Bent grass	Frequent	<i>Bryophyte</i>	Moss spp	Abundant	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Occasional	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Frequent	<i>Festuca</i> sp	Fescue sp	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Nardus stricta</i>	Mat-grass	Frequent	<i>Plantago lanceolata</i>	Ribwort Plantain	Frequent	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Trifolium repens</i>	White clover	Frequent	<i>Ulex</i> sp	Gorse	Occasional
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Habitat Map



Legend

TARGET NOTES – ID No. 12																																																																				
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Surveyor: John Curtin		County name: Clare																																																																		
1:2,500 Sheet no: 4097-c	Townland: Sheeaun	Grid Ref: 164856, 187389																																																																		
Target note no.: TN3		Area: 5.8ha																																																																		
High ecological interest in a national context due to the presence of the scarce Blue-eyed Grass. This habitat is not linked to any Annex I habitats.																																																																				
Habitat code GS4	<p>Large, diverse wet grassland which slopes downhill to the south. Occasionally grazed. Contains Spotted-Orchids (<i>Dactylorhiza spp.</i>) and Blue-eyed Grass (<i>Sisyrinchium bermudiana</i>), a species which is protected in Northern Ireland.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Achillea millefolium</i></td><td>Yarrow</td><td>Occasional</td></tr> <tr><td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Frequent</td></tr> <tr><td><i>Bryophyte</i></td><td>Moss spp</td><td>Abundant</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Abundant</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Frequent</td></tr> <tr><td><i>Euphrasia arctica</i></td><td>Eyebright</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Dominant</td></tr> <tr><td><i>Lotus pendunculatus</i></td><td>Greater Birds-foot-trefoil</td><td>Frequent</td></tr> <tr><td><i>Luzula sylvatica</i></td><td>Great Woodrush</td><td>Occasional</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Occasional</td></tr> <tr><td><i>Pedicularis sylvatica</i></td><td>Lousewort</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Rhinanthus minor</i></td><td>Yellow-rattle</td><td>Occasional</td></tr> <tr><td><i>Sisyrinchium bermudiana</i></td><td>Blue-eyed grass</td><td>Occasional</td></tr> <tr><td><i>Taraxacum sp</i></td><td>Dandelion sp</td><td>Abundant</td></tr> <tr><td><i>Trifolium repens</i></td><td>White clover</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Achillea millefolium</i>	Yarrow	Occasional	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Bryophyte</i>	Moss spp	Abundant	<i>Carex echinata</i>	Star Sedge	Abundant	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Frequent	<i>Euphrasia arctica</i>	Eyebright	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Dominant	<i>Lotus pendunculatus</i>	Greater Birds-foot-trefoil	Frequent	<i>Luzula sylvatica</i>	Great Woodrush	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Rhinanthus minor</i>	Yellow-rattle	Occasional	<i>Sisyrinchium bermudiana</i>	Blue-eyed grass	Occasional	<i>Taraxacum sp</i>	Dandelion sp	Abundant	<i>Trifolium repens</i>	White clover	Occasional
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Habitat Map**Legend**


TARGET NOTES – ID No. 13

Survey Title: Mid Clare Habitat Mapping		Survey date: 22.06.10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4153-b	Townland: Baurroe	Grid Ref: 155999, 186155
Target note no.: TN1		Area: 1ha
Ecological Value: Moderate Ecological interest in a local context		
Habitat code GS1	Dry neutral grassland with a good diversity of species. Looks like it has not been recently improved.	
	Species List	
	Species (<i>Latin name</i>)	Species (common name)
	<i>Anthoxanthum odoratum</i>	Sweet Vernal
	<i>Cynosurus cristatus</i>	Crested Dog's-tail
	<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid
	<i>Euphrasia nemorosa</i>	Eyebright
	<i>Festuca</i> spp.	Fescues
	<i>Holcus lanatus</i>	Yorkshire Fog
	<i>Lotus corniculatus</i>	Bird's-foot Trefoil
	<i>Plantago lanceolata</i>	Ribwort Plantain
	<i>Prunella vulgaris</i>	Selfheal
	<i>Ranunculus</i> spp.	Buttercups
<i>Rhinanthus minor</i>	Yellow-rattle	
<i>Trifolium</i> spp.	Clovers	

Habitat Map**Legend**

TARGET NOTES – ID No. 14																																																														
Survey Title: Mid Clare Habitat Mapping		Survey date: 17/06/06																																																												
Surveyor: JF/JH/SON/JC		County name: Clare																																																												
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 156750, 185897																																																												
Target note no.: TN1		Area: 2ha																																																												
Ecological Value: Moderate Ecological interest in a local context.																																																														
Habitat code GS4	Species-rich Wet Grassland on slightly sloped ground. Evidence of grazing; quite poached.																																																													
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Habitat Map**Legend**

TARGET NOTES - ID No. 15																																					
Survey Title: Mid Clare Habitat Mapping		Survey date: 17/06/10																																			
Surveyor: JF/JH/SON/JC		County name: Clare																																			
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 156972, 185894																																			
Target note no.: TN2		Area: 2.7ha																																			
Ecological Value: Moderate Ecological interest in a local context																																					
Habitat code GS2	Dry meadow which is cut annually for hay. Species List <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;">Species (<i>Latin name</i>)</th> <th style="padding: 5px;">Species (common name)</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Alopecurus pratensis</i></td><td style="padding: 5px;">Meadow Foxtail</td></tr> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal Grass</td></tr> <tr><td style="padding: 5px;"><i>Arrhenatherum elatius</i></td><td style="padding: 5px;">False Oat-grass</td></tr> <tr><td style="padding: 5px;"><i>Bromus hordeaceus</i></td><td style="padding: 5px;">Soft Brome</td></tr> <tr><td style="padding: 5px;"><i>Cynosurus cristatus</i></td><td style="padding: 5px;">Crested Dog's-tail</td></tr> <tr><td style="padding: 5px;"><i>Cerastium glomeratum</i></td><td style="padding: 5px;">Sticky Mouse-ear</td></tr> <tr><td style="padding: 5px;"><i>Dactylis glomerata</i></td><td style="padding: 5px;">Cock's-foot</td></tr> <tr><td style="padding: 5px;"><i>Euphrasia nemorosa</i></td><td style="padding: 5px;">Eyebright</td></tr> <tr><td style="padding: 5px;"><i>Heracleum sphondylium</i></td><td style="padding: 5px;">Hogweed</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td></tr> <tr><td style="padding: 5px;"><i>Lathyrus pratensis</i></td><td style="padding: 5px;">Meadow Vetchling</td></tr> <tr><td style="padding: 5px;"><i>Lolium perenne</i></td><td style="padding: 5px;">Perennial Rye-grass</td></tr> <tr><td style="padding: 5px;"><i>Plantago lanceolata</i></td><td style="padding: 5px;">Ribwort Plantain</td></tr> <tr><td style="padding: 5px;"><i>Poa pratensis</i></td><td style="padding: 5px;">Smooth Meadow-grass</td></tr> <tr><td style="padding: 5px;"><i>Rhinanthus minor</i></td><td style="padding: 5px;">Yellow-rattle</td></tr> <tr><td style="padding: 5px;"><i>Stellaria</i> sp.</td><td style="padding: 5px;">Stitchwort</td></tr> </tbody> </table>			Species (<i>Latin name</i>)	Species (common name)	<i>Alopecurus pratensis</i>	Meadow Foxtail	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	<i>Arrhenatherum elatius</i>	False Oat-grass	<i>Bromus hordeaceus</i>	Soft Brome	<i>Cynosurus cristatus</i>	Crested Dog's-tail	<i>Cerastium glomeratum</i>	Sticky Mouse-ear	<i>Dactylis glomerata</i>	Cock's-foot	<i>Euphrasia nemorosa</i>	Eyebright	<i>Heracleum sphondylium</i>	Hogweed	<i>Holcus lanatus</i>	Yorkshire Fog	<i>Lathyrus pratensis</i>	Meadow Vetchling	<i>Lolium perenne</i>	Perennial Rye-grass	<i>Plantago lanceolata</i>	Ribwort Plantain	<i>Poa pratensis</i>	Smooth Meadow-grass	<i>Rhinanthus minor</i>	Yellow-rattle	<i>Stellaria</i> sp.	Stitchwort
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Legend																																					

TARGET NOTES - ID No. 16																																					
Survey Title: Mid Clare Habitat Mapping		Survey date: 17/06/10																																			
Surveyor: JH/JF/JC/SON		County name: Clare																																			
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 157374, 185767																																			
Target note no.: TN3		Area: 1.1ha																																			
Ecological Value: Moderate Ecological interest in a local context.																																					
Habitat code GS4	Small strip of species-diverse Wet Grassland, approximately 2m X 25m. This habitat type extends into an adjacent field which has been planted with broadleaf tree saplings. The entire area may have previously been this habitat type but has been agriculturally improved.																																				
	<p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> </tr> </thead> <tbody> <tr> <td><i>Blechnum spicant</i></td> <td>Hard Fern</td> </tr> <tr> <td><i>Calluna vulgaris</i></td> <td>Ling</td> </tr> <tr> <td><i>Carex echinata</i></td> <td>Star Sedge</td> </tr> <tr> <td><i>Carex panicea</i></td> <td>Carnation Sedge</td> </tr> <tr> <td><i>Carex viridula</i></td> <td>Yellow Sedge</td> </tr> <tr> <td><i>Cirsium</i> sp.</td> <td>Thistle</td> </tr> <tr> <td><i>Dactylorhiza</i> sp.</td> <td>Spotted Orchid</td> </tr> <tr> <td><i>Hypochaeris radicata</i></td> <td>Cat's-ear</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> </tr> <tr> <td><i>Lotus pedunculatus</i></td> <td>Large Bird's-foot Trefoil</td> </tr> <tr> <td><i>Luzula multiflora</i></td> <td>Heath Wood-rush</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor-grass</td> </tr> <tr> <td><i>Pedicularis sylvatica</i></td> <td>Lousewort</td> </tr> <tr> <td><i>Potentilla erecta</i></td> <td>Tormentil</td> </tr> <tr> <td><i>Ranunculus flammula</i></td> <td>Lesser Spearwort</td> </tr> <tr> <td><i>Sphagnum</i> spp.</td> <td>Bog Mosses</td> </tr> <tr> <td><i>Succisa pratensis</i></td> <td>Devil's-bit Scabious</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	<i>Blechnum spicant</i>	Hard Fern	<i>Calluna vulgaris</i>	Ling	<i>Carex echinata</i>	Star Sedge	<i>Carex panicea</i>	Carnation Sedge	<i>Carex viridula</i>	Yellow Sedge	<i>Cirsium</i> sp.	Thistle	<i>Dactylorhiza</i> sp.	Spotted Orchid	<i>Hypochaeris radicata</i>	Cat's-ear	<i>Juncus articulatus</i>	Jointed Rush	<i>Lotus pedunculatus</i>	Large Bird's-foot Trefoil	<i>Luzula multiflora</i>	Heath Wood-rush	<i>Molinia caerulea</i>	Purple Moor-grass	<i>Pedicularis sylvatica</i>	Lousewort	<i>Potentilla erecta</i>	Tormentil	<i>Ranunculus flammula</i>	Lesser Spearwort	<i>Sphagnum</i> spp.	Bog Mosses	<i>Succisa pratensis</i>
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<i>Succisa pratensis</i>	Devil's-bit Scabious																																				

Habitat Map




Legend

TARGET NOTES - ID No. 17																																																																									
Survey Title: Mid Clare Habitat Mapping		Survey date: 17/06/10																																																																							
Surveyor: Jean Hamilton		County name: Clare																																																																							
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 156691, 186800																																																																							
Target note no.: TN4		Area: 1.6ha																																																																							
Ecological Value: High Ecological interest in a local context.																																																																									
Habitat code GS4	Good example of species-rich Wet Grassland GS4. Vegetation looks young and fresh so appears to have been mown recently, probably annually for hay.																																																																								
	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin</i> name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Ajuga reptans</i></td><td>Bugle</td><td>Occasional</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal</td><td>Abundant</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Frequent</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Frequent</td></tr> <tr><td><i>Carex ovalis</i></td><td>Oval Sedge</td><td>Occasional</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dog's-tail</td><td>Frequent</td></tr> <tr><td><i>Dactylorhiza</i> spp.</td><td>Spotted-orchids</td><td>Occasional</td></tr> <tr><td><i>Euphrasia nemorosa</i></td><td>Eyebright</td><td>Frequent</td></tr> <tr><td><i>Galium</i> sp.</td><td>Bedstraw</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Frequent</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Dominant</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>Frequent</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Greater Birds-foot Trefoil</td><td>Abundant</td></tr> <tr><td><i>Luzula</i> sp.</td><td>Wood-rush</td><td>Occasional</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Frequent</td></tr> <tr><td><i>Myosotis scorpioides</i></td><td>Water Forget-me-not</td><td>Rare</td></tr> <tr><td><i>Pedicularis sylvatica</i></td><td>Lousewort</td><td>Occasional</td></tr> <tr><td><i>Plantago lanceolata</i></td><td>Ribwort Plantain</td><td>Occasional</td></tr> <tr><td><i>Poa</i> spp.</td><td>Meadowgrasses</td><td>Frequent</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Selfheal</td><td>Frequent</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td><td>Frequent</td></tr> <tr><td><i>Rhinanthus minor</i></td><td>Yellow-rattle</td><td>Frequent</td></tr> <tr><td><i>Trifolium</i> spp.</td><td>Clovers</td><td>Abundant</td></tr> </tbody> </table>		Species (<i>Latin</i> name)	Species (common name)	DAFOR Scale	<i>Ajuga reptans</i>	Bugle	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal	Abundant	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Carex nigra</i>	Common Sedge	Frequent	<i>Carex ovalis</i>	Oval Sedge	Occasional	<i>Cynosurus cristatus</i>	Crested Dog's-tail	Frequent	<i>Dactylorhiza</i> spp.	Spotted-orchids	Occasional	<i>Euphrasia nemorosa</i>	Eyebright	Frequent	<i>Galium</i> sp.	Bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Dominant	<i>Juncus conglomeratus</i>	Compact Rush	Frequent	<i>Lotus pedunculatus</i>	Greater Birds-foot Trefoil	Abundant	<i>Luzula</i> sp.	Wood-rush	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Frequent	<i>Myosotis scorpioides</i>	Water Forget-me-not	Rare	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Plantago lanceolata</i>	Ribwort Plantain	Occasional	<i>Poa</i> spp.	Meadowgrasses	Frequent	<i>Prunella vulgaris</i>	Selfheal	Frequent	<i>Ranunculus flammula</i>	Lesser Spearwort	Frequent	<i>Rhinanthus minor</i>	Yellow-rattle	Frequent	<i>Trifolium</i> spp.	Clovers
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<i>Trifolium</i> spp.	Clovers	Abundant																																																																							

Habitat Map



Legend


TARGET NOTES - ID No. 18		
Survey Title: Mid Clare Habitat Mapping		Survey date: 18/06/10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 157862, 185834
Target note no.: TN5		Area: 0.2ha
Ecological Value: Moderate Ecological interest in a local context		
Habitat code GS4	Patch of Wet Grassland in a small field surrounded by Improved Agricultural Grassland (GA1) fields. Typical GS4 habitat with Sweet Vernal and Meadowgrasses (<i>Poa</i> spp.) dominant, abundant rushes (<i>Juncus</i> spp.) and sedges (<i>Carex</i> spp.), but also with abundant Orchids (<i>Dactylorhiza</i> sp.).	
Habitat Map 		
Legend		

TARGET NOTES - ID No. 19																																						
Survey Title: Mid Clare Habitat Mapping		Survey date: 18/06/10																																				
Surveyor: Jean Hamilton		County name: Clare																																				
1:2,500 Sheet no: 4154-a	Townland: Feakle	Grid Ref: 157929, 186025																																				
Target note no.: TN6		Area: 1.4ha																																				
Ecological Value: High Ecological interest in a national context. Linked to Annexed Habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>) 6410																																						
Habitat code GS4/HH3	<p>Wet Grassland dominated by Purple Moor-grass (<i>Molinia caerulea</i>), with abundant Devil's-bit Scabious (<i>Succisa pratensis</i>) possible Marsh Fritillary habitat. Hasn't been improved recently.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 2px;">Species (common name)</th> <th style="text-align: left; padding: 2px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;"><i>Carex nigra</i></td><td style="padding: 2px;">Common sedge</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Dactylorhiza</i> sp.</td><td style="padding: 2px;">Spotted Orchid</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Filipendula ulmaria</i></td><td style="padding: 2px;">Meadowsweet</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Juncus</i> spp.</td><td style="padding: 2px;">Rushes</td><td style="padding: 2px;">Abundant</td></tr> <tr><td style="padding: 2px;"><i>Lotus corniculatus</i></td><td style="padding: 2px;">Bird's-foot Trefoil</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Lychnis flos-cuculi</i></td><td style="padding: 2px;">Ragged Robin</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Molinia caerulea</i></td><td style="padding: 2px;">Purple Moor-grass</td><td style="padding: 2px;">Dominant</td></tr> <tr><td style="padding: 2px;"><i>Pedicularis sylvatica</i></td><td style="padding: 2px;">Lousewort</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Poa</i> spp.</td><td style="padding: 2px;">Meadowgrasses</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Potentilla erecta</i></td><td style="padding: 2px;">Tormentil</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Succisa pratensis</i></td><td style="padding: 2px;">Devil's-bit Scabious</td><td style="padding: 2px;">Abundant</td></tr> </tbody> </table> <p>This habitat type continues to the adjacent field to the north east, where it grades in to Wet Heath-type habitat, with abundant Ling (<i>Calluna vulgaris</i>), Cross-leaved Heath (<i>Erica tetralix</i>), Hare's-tail Cottongrass (<i>Eriophorum vaginatum</i>) and Bog mosses (<i>Sphagnum</i> spp.). Also present here are Deergrass (<i>Trichophorum cespitosum</i>), woodrushes (<i>Luzula</i> spp.), rushes (<i>Juncus</i> spp.), sedges (<i>Carex</i> spp.) and Tormentil (<i>Potentilla erecta</i>).</p>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Carex nigra</i>	Common sedge	Frequent	<i>Dactylorhiza</i> sp.	Spotted Orchid	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Juncus</i> spp.	Rushes	Abundant	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Frequent	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Dominant	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Poa</i> spp.	Meadowgrasses	Frequent	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Succisa pratensis</i>	Devil's-bit Scabious	Abundant
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Habitat Map



Legend

TARGET NOTES - ID No. 20			
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06	
Surveyor: Jean Hamilton		County name: Clare	
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Upper		Grid Ref: 158093, 185773
Target note no.: TN1		Area: 0.32ha	
Ecological Value: Moderate Ecological interest in a local context.			
Habitat code WN2	Very limited patch of Ash woodland. Ash (<i>Fraxinus excelsior</i>) is dominant, with frequent Hawthorn (<i>Crataegus monogyna</i>) and Blackthorn (<i>Prunus spinosa</i>) in the understorey. Abundant nettles (<i>Urtica dioica</i>) and Bramble (<i>Rubus fruticosus</i>) occur in the ground layer, along with scattered Germander Speedwell (<i>Veronica chamaedrys</i>), Broad-leaved Willowherb (<i>Epilobium montanum</i>), Wood Aven (<i>Geum urbanum</i>) and ferns, including Lady Fern (<i>Athyrium filix-femina</i>) and Hart's-tongue Fern (<i>Phyllitis scolopendrium</i>)		
Habitat Map			
			
Legend			

TARGET NOTES - ID No. 21

Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-b	Townland: Clashmore	Grid Ref: 158336, 186327
Target note no.: TN2		Area: 4ha
Ecological Value: Moderate Ecological interest in a local context		

Habitat code GS3/WS1	Grassland which has not been intensively improved recently, and which contains a good diversity of grasses, sedges and herbs. The sward is short and there are many Acid Grassland indicators, and so this is given a GS3 classification. This habitat grades in to Gorse Scrub (WS1) to the north west.
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Species List

Species (<i>Latin name</i>)	Species (<i>common name</i>)
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass
<i>Bellis perennis</i>	Daisy
<i>Carex</i> spp.	Sedges
<i>Cynosurus cristatus</i>	Crested Dog's-tail
<i>Festuca</i> spp.	Fescues
<i>Lotus corniculatus</i>	Bird's-foot Trefoil
<i>Nardus stricta</i>	Mat-grass
<i>Pedicularis sylvatica</i>	Lousewort
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Potentilla erecta</i>	Tormentil
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Trifolium repens</i>	White Clover

Habitat Map



Legend

TARGET NOTES - ID No. 22		
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Lower	Grid Ref: 159430, 186599
Target note no.: TN3		Area: 0.08ha
Ecological Value: Moderate Ecological interest in a local context.		
Habitat code FL8	Small pond in an Improved Agricultural Grassland (GA1) field, surrounded by Rushes (<i>Juncus</i> spp.), Reeds (<i>Phragmites australis</i>) and other large grasses. Water Plantain (<i>Alisma plantago-aquatica</i>) floats on the surface of the water. Good habitat for wildfowl.	
Habitat Map 		
Legend		

TARGET NOTES - ID No. 23			
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06	
Surveyor: Jean Hamilton		County name: Clare	
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Upper	Grid Ref: 158465, 185727	
Target note no.: TN4		Area: 0.84ha	
Ecological Value: Moderate Ecological interest in a local context			
Habitat code GS4	Wet Grassland on gently sloping ground beside a conifer plantation. Contains frequent Heath Spotted-Orchids (<i>Dactylorhiza maculata</i>) Quite species-rich and has apparently not been improved in recent years.		
	Species List		
	Species (Latin name)	Species (common name)	DAFOR Scale
	<i>Anagallis tenella</i>	Bog Pimpernel	Occasional
	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Abundant
	<i>Carex echinata</i>	Star Sedge	Frequent
	<i>Cirsium palustre</i>	Marsh Thistle	Frequent
	<i>Dactylorhiza maculata</i>	Heath Spotted-orchid	Frequent
	<i>Galium palustre</i>	Common Marsh-Bedstraw	Frequent
	<i>Holcus lanatus</i>	Yorkshire Fog	Abundant
	<i>Juncus</i> spp.	Rushes	Dominant
	<i>Luzula multiflora</i> ssp <i>congesta</i>	Heath Woodrush	Frequent
	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional
	<i>Molinia caerulea</i>	Purple Moorgrass	Occasional
	<i>Myosotis scorpioides</i>	Water Forget-me-not	Occasional
<i>Pedicularis sylvatica</i>	Lousewort	Frequent	
<i>Potentilla erecta</i>	Tormentil	Occasional	
<i>Ranunculus flammula</i>	Lesser Spearwort	Frequent	

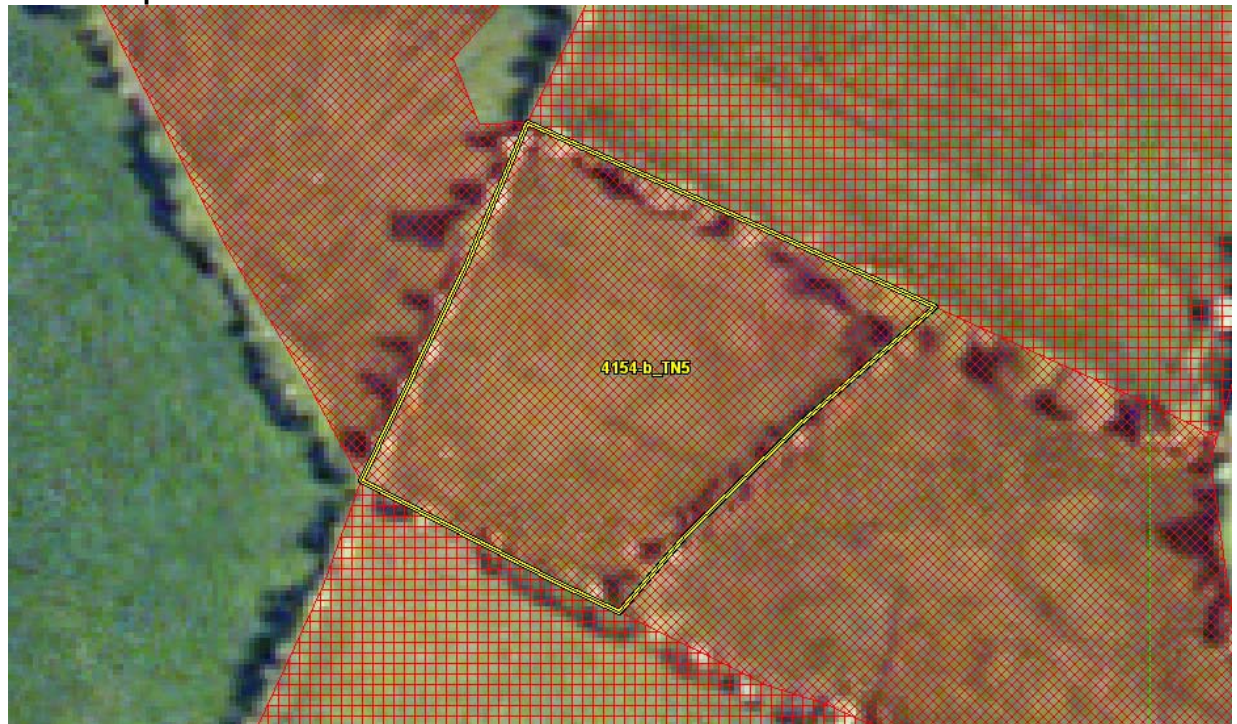
Habitat Map



Legend

TARGET NOTES - ID No. 24			
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06	
Surveyor: Jean Hamilton		County name: Clare	
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Lower	Grid Ref: 159895, 186534	
Target note no.: TN5		Area: 0.52ha	
Ecological Value: Moderate Ecological interest in a local context. This habitat does not correspond to any annexed habitats.			
Habitat code GS4	Species-rich Wet Grassland on gently sloping ground. Dominated by <i>Juncus</i> spp. but contains abundant Common Spotted-orchid (<i>Dactylorhiza fuchsii</i>) and occasional Lesser Butterfly Orchid (<i>Platanthera bifolia</i>).		
	Species List		
	Species (Latin name)	Species (common name)	DAFOR Scale
	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Abundant
	<i>Cynosurus cristatus</i>	Crested Dog's-tail	Abundant
	<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	Abundant
	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent
	<i>Galium palustre</i>	Common Marsh-Bedstraw	Occasional
	<i>Holcus lanatus</i>	Yorkshire Fog	Abundant
	<i>Juncus</i> spp.	Rushes	Dominant
	<i>Lathyrus pratensis</i>	Meadow Vetchling	Occasional
	<i>Lotus pendunculatus</i>	Greater Birds-foot-trefoil	Occasional
	<i>Luzula</i> spp.	Wood-rushes	Occasional
	<i>Lychnis flos-cuculi</i>	Ragged Robin	Frequent
	<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	Occasional
<i>Ranunculus flammula</i>	Lesser Spearwort	Frequent	
<i>Trifolium pratense</i>	Red Clover	Abundant	
<i>Trifolium repens</i>	White Clover	Abundant	

Habitat Map



Legend

TARGET NOTES - ID No. 25

Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06																																						
Surveyor: Jean Hamilton		County name: Clare																																						
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Lower	Grid Ref: 159666, 186459																																						
Target note no.: TN6		Area: 1.6ha																																						
Ecological Value: Moderate Ecological interest in a local context. This habitat type does not correspond to any Annex I habitats.																																								
Habitat code GS3/GS1	Grassland on flat ground with an interesting array of species. Sward height is varied but overall quite short, dominated by needle-leaved grasses such as Fescues (<i>Festuca</i> spp.) and Mat-grass (<i>Nardus stricta</i>). Quaking Grass (<i>Briza media</i>), an indicator of calcareous grassland, grows alongside Mat-grass and Tormentil (<i>Potentilla erecta</i>), which are both indicators of acid grassland. Overall, the area has the appearance of Acid Grassland (GS3) but with some calcareous elements.																																							
	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Agrostis</i> spp.</td><td>Bents</td><td>Abundant</td></tr> <tr> <td><i>Briza media</i></td><td>Mat-grass</td><td>Frequent</td></tr> <tr> <td><i>Carex</i> spp.</td><td>Sedges</td><td>Frequent</td></tr> <tr> <td><i>Dactylorhiza maculata</i></td><td>Heath Spotted-orchid</td><td>Occasional</td></tr> <tr> <td><i>Festuca</i> spp.</td><td>Fescues</td><td>Abundant</td></tr> <tr> <td><i>Lotus corniculatus</i></td><td>Birds-foot Trefoil</td><td>Occasional</td></tr> <tr> <td><i>Luzula</i> spp.</td><td>Wood-rushes</td><td>Occasional</td></tr> <tr> <td><i>Nardus stricta</i></td><td>Mat-grass</td><td>Abundant</td></tr> <tr> <td><i>Pedicularis sylvatica</i></td><td>Lousewort</td><td>Frequent</td></tr> <tr> <td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr> <td><i>Prunella vulgaris</i></td><td>Selfheal</td><td>Occasional</td></tr> <tr> <td><i>Trifolium repens</i></td><td>White Clover</td><td>Frequent</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis</i> spp.	Bents	Abundant	<i>Briza media</i>	Mat-grass	Frequent	<i>Carex</i> spp.	Sedges	Frequent	<i>Dactylorhiza maculata</i>	Heath Spotted-orchid	Occasional	<i>Festuca</i> spp.	Fescues	Abundant	<i>Lotus corniculatus</i>	Birds-foot Trefoil	Occasional	<i>Luzula</i> spp.	Wood-rushes	Occasional	<i>Nardus stricta</i>	Mat-grass	Abundant	<i>Pedicularis sylvatica</i>	Lousewort	Frequent	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Prunella vulgaris</i>	Selfheal	Occasional	<i>Trifolium repens</i>	White Clover
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<i>Trifolium repens</i>	White Clover	Frequent																																						

Habitat Map




Legend

TARGET NOTES – ID No. 26			
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06	
Surveyor: Jean Hamilton		County name: Clare	
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Lower	Grid Ref: 159209, 186158	
Target note no.: TN7		Area: 1.7ha	
Ecological Value: High Ecological interest in a local context. This habitat does not correspond to any Annex I habitats.			
Habitat code GS3/HH1	Acid Grassland / Heath on flat area. Vegetation is dominated by sedges. Heath rush (<i>Juncus squarrosus</i>) is abundant, and there is extensive moss cover, including some bog mosses (<i>Sphagnum</i> spp.). Dwarf Ling (<i>Calluna vulgaris</i>) is widespread, but does not exceed 25% cover. This habitat may be categorized as Acid Grassland GS3, but is veering towards Dry Siliceous Heath HH1.		
	Species List		
	Species (Latin name)	Species (common name)	DAFOR Scale
	<i>Agrostis</i> spp.	Bents	Frequent
	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Abundant
	<i>Calluna vulgaris</i>	Ling	Frequent
	<i>Carex panicea</i>	Carnation Sedge	Abundant
	<i>Carex echinata</i>	Star Sedge	Abundant
	<i>Dactylorhiza maculata</i>	Heath spotted-orchid	Occasional
	<i>Eriophorum angustifolium</i>	Common Cottongrass	Frequent
	<i>Festuca</i> spp.	Fescues	Abundant
	<i>Galium saxatile</i>	Heath Bedstraw	Occasional
	<i>Juncus effusus</i>	Soft Rush	Frequent
	<i>Juncus squarrosus</i>	Heath Rush	Abundant
	<i>Luzula multiflora</i>	Heath Wood-rush	Frequent
<i>Pedicularis sylvatica</i>	Lousewort		
<i>Polygala serpyllifolia</i>	Heath Milkwort	Occasional	

Habitat Map



Legend

TARGET NOTES – ID No. 27																																		
Survey Title: Mid Clare Habitat Mapping		Survey date: 24/06/06																																
Surveyor: Jean Hamilton		County name: Clare																																
1:2,500 Sheet no: 4154-b	Townland: Lecarrow Lower	Grid Ref: 158797, 185583																																
Target note no.: TN8		Area: 1.4ha																																
Ecological Value: Moderate Ecological interest in a local context																																		
Habitat code GS1	Species-rich neutral grassland on sloped ground. Species List <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal Grass</td></tr> <tr><td style="padding: 5px;"><i>Carex</i> spp.</td><td style="padding: 5px;">Sedges</td></tr> <tr><td style="padding: 5px;"><i>Cirsium palustre</i></td><td style="padding: 5px;">Marsh Thistle</td></tr> <tr><td style="padding: 5px;"><i>Cynosurus cristatus</i></td><td style="padding: 5px;">Crested Dogs-tail</td></tr> <tr><td style="padding: 5px;"><i>Dactylorhiza fuchsii</i></td><td style="padding: 5px;">Common Spotted-orchid</td></tr> <tr><td style="padding: 5px;"><i>Festuca</i> spp.</td><td style="padding: 5px;">Fescues</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td></tr> <tr><td style="padding: 5px;"><i>Leucanthemum vulgare</i></td><td style="padding: 5px;">Oxeye Daisy</td></tr> <tr><td style="padding: 5px;"><i>Lotus corniculatus</i></td><td style="padding: 5px;">Birds-foot Trefoil</td></tr> <tr><td style="padding: 5px;"><i>Poa</i> spp.</td><td style="padding: 5px;">Meadow grasses</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">T tormentil</td></tr> <tr><td style="padding: 5px;"><i>Prunella vulgaris</i></td><td style="padding: 5px;">Selfheal</td></tr> <tr><td style="padding: 5px;"><i>Sisyrinchium bermudiana</i></td><td style="padding: 5px;">Blue-eyed Grass</td></tr> <tr><td style="padding: 5px;"><i>Trifolium pratense</i></td><td style="padding: 5px;">Red Clover</td></tr> <tr><td style="padding: 5px;"><i>Vicia cracca</i></td><td style="padding: 5px;">Tufted Vetch</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	<i>Carex</i> spp.	Sedges	<i>Cirsium palustre</i>	Marsh Thistle	<i>Cynosurus cristatus</i>	Crested Dogs-tail	<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	<i>Festuca</i> spp.	Fescues	<i>Holcus lanatus</i>	Yorkshire Fog	<i>Leucanthemum vulgare</i>	Oxeye Daisy	<i>Lotus corniculatus</i>	Birds-foot Trefoil	<i>Poa</i> spp.	Meadow grasses	<i>Potentilla erecta</i>	T tormentil	<i>Prunella vulgaris</i>	Selfheal	<i>Sisyrinchium bermudiana</i>	Blue-eyed Grass	<i>Trifolium pratense</i>	Red Clover	<i>Vicia cracca</i>	Tufted Vetch
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Legend																																		

TARGET NOTES – ID No. 28																																																																										
Survey Title: Mid Clare Habitat Mapping		Survey date: 08/07/10																																																																								
Surveyor: John Curtin		County name: Clare																																																																								
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 157330, 184814																																																																								
Target note no.: TN1		Area: 1.1ha																																																																								
Ecological Interest: High ecological interest in a local context. Not linked to any Annex I habitats.																																																																										
Habitat code GS4	<p>Species-diverse wet grassland (GS4) with a peaty soil. <i>Sphagnum</i> is present in abundance. Scrub; mainly Gorse (<i>Ulex</i>) has recently been bulldozed from area of field to the east of site. The landowner is planning to improve site by rotivating and reseedling.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Anagallis tenella</i></td><td>Bog Pimpernel</td><td>Frequent</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Occasional</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Frequent</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Frequent</td></tr> <tr><td><i>Carex viridula</i></td><td>Yellow Sedge</td><td>Occasional</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Occasional</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cottongrass</td><td>Occasional</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Occasional</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Greater Birds-foot-trefoil</td><td>Occasional</td></tr> <tr><td><i>Luzula sylvatica</i></td><td>Great Wood-rush</td><td>Occasional</td></tr> <tr><td><i>Pedicularis sylvatica</i></td><td>Lousewort</td><td>Occasional</td></tr> <tr><td><i>Poa sp</i></td><td>Meadow-grass</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser spearwort</td><td>Occasional</td></tr> <tr><td><i>Salix sp</i></td><td>Willow</td><td>Occasional</td></tr> <tr><td><i>Sphagnum sp</i></td><td>Peat moss</td><td>Abundant</td></tr> <tr><td><i>Taraxacum sp</i></td><td>Dandelion sp</td><td>Occasional</td></tr> <tr><td><i>Ulex sp</i></td><td>Gorse</td><td>Occasional</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR Scale	<i>Anagallis tenella</i>	Bog Pimpernel	Frequent	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Carex nigra</i>	Common Sedge	Frequent	<i>Carex viridula</i>	Yellow Sedge	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Juncus effusus</i>	Soft Rush	Occasional	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Occasional	<i>Luzula sylvatica</i>	Great Wood-rush	Occasional	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Poa sp</i>	Meadow-grass	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus flammula</i>	Lesser spearwort	Occasional	<i>Salix sp</i>	Willow	Occasional	<i>Sphagnum sp</i>	Peat moss	Abundant	<i>Taraxacum sp</i>	Dandelion sp	Occasional	<i>Ulex sp</i>	Gorse	Occasional
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Habitat Map**Legend**

Image 1: Overview of Wet Grassland with Orchid spikes



Image 2: Close-up of Wet Grassland Area

TARGET NOTES – ID No. 29																																																																	
Survey Title: Mid Clare Habitat Mapping		Survey date: 08/07/10																																																															
Surveyor: John Curtin		County name: Clare																																																															
1:2,500 Sheet no: 4154-c	Townland: Feakle	Grid Ref: 157350, 185367																																																															
Target note no.: TN2		Area: 1.1ha																																																															
Ecological Interest: High ecological interest in an international context. Linked to Annex 1 habitat 'Northern Atlantic wet heaths with <i>Erica tetralix</i> (4010)'. Habitat code GS4/HH3																																																																	
<p>Mosaic habitat consisting of Wet grassland (GS4) and Wet heath (HH3). Heather species are present; Ling (<i>Calluna vulgaris</i>) and Cross-leaved Heath (<i>Erica tetralix</i>) along with typical bog species; Bog Asphodel (<i>Narthecium ossifragum</i>), and Bog-cotton (<i>Eriophorum angustifolium</i>).</p> <p>Wet grassland plants found on the site include; Lesser Spearwort (<i>Ranunculus flammula</i>), rushes (<i>Juncus effusus</i> and <i>Juncus articulatus</i>) and grasses (<i>Anthoxanthum odoratum</i> and <i>Holcus lanatus</i>).</p> <p>Some stone outcropping present suggesting if peat is present it is less than 50cm thus excluding a bog classification.</p> <p>Species List</p> <table> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Frequent</td></tr> <tr><td><i>Calluna vulgaris</i></td><td>Ling</td><td>Frequent</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Frequent</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Occasional</td></tr> <tr><td><i>Erica tetralix</i></td><td>Heath, cross-leaved</td><td>Frequent</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cottongrass</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Greater Birds-foot-trefoil</td><td>Occasional</td></tr> <tr><td><i>Luzula sylvatica</i></td><td>Great Wood-rush</td><td>Occasional</td></tr> <tr><td><i>Myrica gale</i></td><td>Bog Myrtle</td><td>Occasional</td></tr> <tr><td><i>Narthecium ossifragum</i></td><td>Bog asphodel</td><td>Frequent</td></tr> <tr><td><i>Poa sp</i></td><td>Meadow-grass</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser spearwort</td><td>Occasional</td></tr> <tr><td><i>Rumex sp</i></td><td>Sorrel</td><td>Occasional</td></tr> <tr><td><i>Salix repens</i></td><td>Creeping Willow</td><td>Occasional</td></tr> <tr><td><i>Sphagnum sp</i></td><td>Peat moss</td><td>Abundant</td></tr> <tr><td><i>Ulex sp</i></td><td>Gorse</td><td>Occasional</td></tr> </table>			Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Carex nigra</i>	Common Sedge	Frequent	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Erica tetralix</i>	Heath, cross-leaved	Frequent	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Occasional	<i>Luzula sylvatica</i>	Great Wood-rush	Occasional	<i>Myrica gale</i>	Bog Myrtle	Occasional	<i>Narthecium ossifragum</i>	Bog asphodel	Frequent	<i>Poa sp</i>	Meadow-grass	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus flammula</i>	Lesser spearwort	Occasional	<i>Rumex sp</i>	Sorrel	Occasional	<i>Salix repens</i>	Creeping Willow	Occasional	<i>Sphagnum sp</i>	Peat moss	Abundant	<i>Ulex sp</i>	Gorse	Occasional
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<i>Holcus lanatus</i>	Yorkshire Fog	Occasional																																																															
<i>Juncus articulatus</i>	Jointed Rush	Frequent																																																															
<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Occasional																																																															
<i>Luzula sylvatica</i>	Great Wood-rush	Occasional																																																															
<i>Myrica gale</i>	Bog Myrtle	Occasional																																																															
<i>Narthecium ossifragum</i>	Bog asphodel	Frequent																																																															
<i>Poa sp</i>	Meadow-grass	Occasional																																																															
<i>Potentilla erecta</i>	Tormentil	Frequent																																																															
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<i>Rumex sp</i>	Sorrel	Occasional																																																															
<i>Salix repens</i>	Creeping Willow	Occasional																																																															
<i>Sphagnum sp</i>	Peat moss	Abundant																																																															
<i>Ulex sp</i>	Gorse	Occasional																																																															

Habitat Map



Legend

TARGET NOTES – ID No. 30			
Survey Title: Mid Clare Habitat Mapping		Survey date: 08/07/10	
Surveyor: John Curtin		County name: Clare	
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 157080, 184499	
Target note no.: TN3		Area: 2ha	
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to an Annex I Habitats			
Habitat code	Large section of wet grassland or fen with good connectivity. Wet grasslands surround the site, with some fen habitat close by to the west.		
GS4	Species List		
	Species (Latin name)	Species (common name)	
	DAFOR Scale		
	<i>Agrostis sp</i>	Bent grass	Occasional
	<i>Angelica sylvestris</i>	Wild Angelica	Occasional
	<i>Briza media</i>	Quaking-grass	Occasional
	<i>Carex nigra</i>	Common Sedge	Occasional
	<i>Carex panicea</i>	Carnation sedge	Occasional
	<i>Carex viridula</i>	Yellow Sedge	Occasional
	<i>Cirsium dissectum</i>	Meadow Thistle	Occasional
	<i>Cirsium palustre</i>	Marsh-thistle	Occasional
	<i>Cirsium sp</i>	Thistle	Frequent
	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional
	<i>Dactylorhiza sp.</i>	Orchid	Occasional
	<i>Digitalis purpurea</i>	Foxglove	Rare
	<i>Epilobium sp</i>	Willowherb	Occasional
	<i>Equisetum sp</i>	Horsetail	Occasional
	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent
	<i>Galium palustre</i>	Marsh-bedstraw	Occasional
	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent
	<i>Juncus articulatus</i>	Jointed Rush	Abundant
	<i>Juncus effusus</i>	Soft Rush	Occasional
	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Frequent
	<i>Mentha aquatica</i>	Water Mint	Occasional
	<i>Mysotis sp</i>	Forget-me-not	Occasional
	<i>Narthecium ossifragum</i>	Bog asphodel	Occasional
	<i>Poa sp</i>	Meadow-grass	Occasional
	<i>Potentilla anserina</i>	Silverweed	Occasional
	<i>Potentilla erecta</i>	Tormentil	Occasional
	<i>Potentilla palustris</i>	Marsh Cinquefoil	Occasional
	<i>Prunella vulgaris</i>	Self-heal	Occasional
	<i>Ranunculus repens</i>	Creeping buttercup	Occasional
	<i>Rumex sp</i>	Sorrel sp	Occasional
<i>Stellaria media</i>	Common Chickweed	Occasional	
<i>Trifolium pratense</i>	Red Clover	Occasional	

Habitat Map**Legend****Image 1: Overview of Wet Grassland**

TARGET NOTES – ID No. 31																																																													
Survey Title: Mid Clare Habitat Mapping		Survey date: 08/07/10																																																											
Surveyor: John Curtin		County name: Clare																																																											
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 156324, 184383																																																											
Target note no.: TN4		Area: 3ha																																																											
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																													
Habitat code	Wet grassland/Marsh mosaic. Rushes (<i>Juncus articulatus</i> and <i>Juncus effusus</i>) dominate.																																																												
GS4/GM1	Species List																																																												
	<table border="1"> <thead> <tr> <th>Species (<i>Latin</i> name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Bryophyte</i></td> <td>Moss</td> <td>Abundant</td> </tr> <tr> <td><i>Carex nigra</i></td> <td>Common Sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Caltha palustris</i></td> <td>Marsh-marigold</td> <td>Occasional</td> </tr> <tr> <td><i>Cirsium palustre</i></td> <td>Marsh-thistle</td> <td>Occasional</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Orchid</td> <td>Rare</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Frequent</td> </tr> <tr> <td><i>Hydrocotyle vulgaris</i></td> <td>Marsh Pennywort</td> <td>Occasional</td> </tr> <tr> <td><i>Iris pseudacorus</i></td> <td>Iris</td> <td>Occasional</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> <td>Abundant</td> </tr> <tr> <td><i>Juncus effusus</i></td> <td>Soft Rush</td> <td>Abundant</td> </tr> <tr> <td><i>Lathyrus pratensis</i></td> <td>Meadow Vetchling</td> <td>Occasional</td> </tr> <tr> <td><i>Luzula sylvatica</i></td> <td>Great Wood-rush</td> <td>Occasional</td> </tr> <tr> <td><i>Lychnis flos-cuculi</i></td> <td>Ragged Robin</td> <td>Occasional</td> </tr> <tr> <td><i>Mentha aquatica</i></td> <td>Water Mint</td> <td>Frequent</td> </tr> <tr> <td><i>Pedicularis sylvatica</i></td> <td>Lousewort</td> <td>Occasional</td> </tr> <tr> <td><i>Prunella vulgaris</i></td> <td>Self-heal</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus flammula</i></td> <td>Lesser spearwort</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Occasional</td> </tr> </tbody> </table>	Species (<i>Latin</i> name)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Bryophyte</i>	Moss	Abundant	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Caltha palustris</i>	Marsh-marigold	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Rare	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	Occasional	<i>Iris pseudacorus</i>	Iris	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Abundant	<i>Juncus effusus</i>	Soft Rush	Abundant	<i>Lathyrus pratensis</i>	Meadow Vetchling	Occasional	<i>Luzula sylvatica</i>	Great Wood-rush	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Mentha aquatica</i>	Water Mint	Frequent	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus flammula</i>	Lesser spearwort	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional
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<i>Ranunculus repens</i>	Creeping buttercup	Occasional																																																											

Habitat Map**Legend****Image 1: Overview of Wet Grassland**

TARGET NOTES – ID No. 32																																																																	
Survey Title: Mid Clare Habitat Mapping		Survey date: 09/07/10																																																															
Surveyor: John Curtin		County name: Clare																																																															
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 157237, 184470																																																															
Target note no.: TN5		Area: 0.9ha																																																															
Ecological Interest: High Ecological Importance in an international context. This habitat corresponds to the Annex I habitat 'transition mires and quaking bogs (7140)'.																																																																	
Habitat code PF3	<p>This area may best be described under the heading 'Transition mire and Quaking bog'. It is wetter than most raised bogs in the area and does not display the typical dome shape that is characteristic.</p> <p>It does however contain many typical raised bog species; Round-leaved Sundew (<i>Drosera rotundifolia</i>), White Beak-sedge (<i>Rhynchospora alba</i>) and Bog asphodel (<i>Narthecium ossifragum</i>), alongside more fen affiliated species such as Marsh Cinquefoil (<i>Potentilla palustris</i>).</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Calluna vulgaris</i></td> <td>Ling</td> <td>Frequent</td> </tr> <tr> <td><i>Carex echinata</i></td> <td>Star Sedge</td> <td>Frequent</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Orchid</td> <td>Occasional</td> </tr> <tr> <td><i>Drosera rotundifolia</i></td> <td>Round-leaved Sundew</td> <td>Occasional</td> </tr> <tr> <td><i>Erica tetralix</i></td> <td>Heath, cross-leaved</td> <td>Frequent</td> </tr> <tr> <td><i>Eriophorum angustifolium</i></td> <td>Common Cottongrass</td> <td>Occasional</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> <td>Frequent</td> </tr> <tr> <td><i>Juncus effusus</i></td> <td>Soft Rush</td> <td>Rare</td> </tr> <tr> <td><i>Luzula sylvatica</i></td> <td>Great Wood-rush</td> <td>Occasional</td> </tr> <tr> <td><i>Lycopodium</i></td> <td>Clubmoss</td> <td>Occasional</td> </tr> <tr> <td><i>Menyanthes trifoliata</i></td> <td>Bogbean</td> <td>Occasional</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor-grass</td> <td>Abundant</td> </tr> <tr> <td><i>Myrica gale</i></td> <td>Bog Myrtle</td> <td>Frequent</td> </tr> <tr> <td><i>Narthecium ossifragum</i></td> <td>Bog asphodel</td> <td>Frequent</td> </tr> <tr> <td><i>Potentilla erecta</i></td> <td>Tormentil</td> <td>Occasional</td> </tr> <tr> <td><i>Potentilla palustris</i></td> <td>Marsh Cinquefoil</td> <td>Occasional</td> </tr> <tr> <td><i>Rhynchospora alba</i></td> <td>White Beak-sedge</td> <td>Frequent</td> </tr> <tr> <td><i>Salix sp</i></td> <td>Willow</td> <td>Occasional</td> </tr> <tr> <td><i>Sphagnum sp</i></td> <td>Peat moss</td> <td>Abundant</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Drosera rotundifolia</i>	Round-leaved Sundew	Occasional	<i>Erica tetralix</i>	Heath, cross-leaved	Frequent	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Juncus effusus</i>	Soft Rush	Rare	<i>Luzula sylvatica</i>	Great Wood-rush	Occasional	<i>Lycopodium</i>	Clubmoss	Occasional	<i>Menyanthes trifoliata</i>	Bogbean	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Myrica gale</i>	Bog Myrtle	Frequent	<i>Narthecium ossifragum</i>	Bog asphodel	Frequent	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Potentilla palustris</i>	Marsh Cinquefoil	Occasional	<i>Rhynchospora alba</i>	White Beak-sedge	Frequent	<i>Salix sp</i>	Willow	Occasional	<i>Sphagnum sp</i>	Peat moss	Abundant
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Habitat Map**Legend**

Image 1: View of site showing its relative elevation in comparison with background hill.



Image 1. View of site. Bog myrtle (*Myrica gale*) can be seen throughout.



Image 3: Typical flora occurring on site. Peat moss (*Sphagnum*) and Bogbean (*Menyanthes trifoliata*) present.

TARGET NOTES – ID No. 33																																																																								
Survey Title: Mid Clare Habitat Mapping			Survey date: 09/07/10																																																																					
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1:2,500 Sheet no: 4154-c	Townland: Kilbarron		Grid Ref: 157083, 184299																																																																					
Target note no.: TN6		Area: 0.4ha																																																																						
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to an Annex I Habitats																																																																								
Habitat code GS4	<p>Wet grassland with good connectivity to other diverse wet habitats to the east and west.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Angelica sylvestris</i></td><td style="padding: 5px;">Wild Angelica</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal-grass</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Cirsium palustre</i></td><td style="padding: 5px;">Marsh-thistle</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Dactylorhiza sp.</i></td><td style="padding: 5px;">Orchid</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Equisetum sp</i></td><td style="padding: 5px;">Horsetail</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Euphrasia arctica</i></td><td style="padding: 5px;">Eyebright</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Filipendula ulmaria</i></td><td style="padding: 5px;">Meadowsweet</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Juncus articulatus</i></td><td style="padding: 5px;">Jointed Rush</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Juncus effusus</i></td><td style="padding: 5px;">Soft Rush</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Lolium perenne</i></td><td style="padding: 5px;">Rye-grass, perennial</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Mentha aquatica</i></td><td style="padding: 5px;">Water Mint</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Plantago lanceolata</i></td><td style="padding: 5px;">Ribwort Plantain</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Prunella vulgaris</i></td><td style="padding: 5px;">Self-heal</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Ranunculus repens</i></td><td style="padding: 5px;">Creeping buttercup</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Rhinanthus minor</i></td><td style="padding: 5px;">Yellow-rattle</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Rumex sp</i></td><td style="padding: 5px;">Sorrel sp</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Salix sp</i></td><td style="padding: 5px;">Willow</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Schoenus nigricans</i></td><td style="padding: 5px;">Black Bog-rush</td><td style="padding: 5px;">Rare</td></tr> <tr><td style="padding: 5px;"><i>Stellaria media</i></td><td style="padding: 5px;">Common Chickweed</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Trifolium pratense</i></td><td style="padding: 5px;">Red Clover</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Vicia sp</i></td><td style="padding: 5px;">Vetch</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>			Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Angelica sylvestris</i>	Wild Angelica	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Equisetum sp</i>	Horsetail	Occasional	<i>Euphrasia arctica</i>	Eyebright	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Occasional	<i>Juncus effusus</i>	Soft Rush	Frequent	<i>Lolium perenne</i>	Rye-grass, perennial	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Plantago lanceolata</i>	Ribwort Plantain	Occasional	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Rhinanthus minor</i>	Yellow-rattle	Occasional	<i>Rumex sp</i>	Sorrel sp	Occasional	<i>Salix sp</i>	Willow	Occasional	<i>Schoenus nigricans</i>	Black Bog-rush	Rare	<i>Stellaria media</i>	Common Chickweed	Occasional	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Vicia sp</i>	Vetch	Occasional
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<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional																																																																						
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<i>Dactylorhiza sp.</i>	Orchid	Occasional																																																																						
<i>Equisetum sp</i>	Horsetail	Occasional																																																																						
<i>Euphrasia arctica</i>	Eyebright	Occasional																																																																						
<i>Filipendula ulmaria</i>	Meadowsweet	Frequent																																																																						
<i>Holcus lanatus</i>	Yorkshire Fog	Occasional																																																																						
<i>Juncus articulatus</i>	Jointed Rush	Occasional																																																																						
<i>Juncus effusus</i>	Soft Rush	Frequent																																																																						
<i>Lolium perenne</i>	Rye-grass, perennial	Occasional																																																																						
<i>Mentha aquatica</i>	Water Mint	Occasional																																																																						
<i>Plantago lanceolata</i>	Ribwort Plantain	Occasional																																																																						
<i>Prunella vulgaris</i>	Self-heal	Occasional																																																																						
<i>Ranunculus repens</i>	Creeping buttercup	Occasional																																																																						
<i>Rhinanthus minor</i>	Yellow-rattle	Occasional																																																																						
<i>Rumex sp</i>	Sorrel sp	Occasional																																																																						
<i>Salix sp</i>	Willow	Occasional																																																																						
<i>Schoenus nigricans</i>	Black Bog-rush	Rare																																																																						
<i>Stellaria media</i>	Common Chickweed	Occasional																																																																						
<i>Trifolium pratense</i>	Red Clover	Occasional																																																																						
<i>Vicia sp</i>	Vetch	Occasional																																																																						

Habitat Map



Legend

TARGET NOTES – ID No. 34																																																																																		
Survey Title: Mid Clare Habitat Mapping		Survey date: 09/07/10																																																																																
Surveyor: John Curtin		County name: Clare																																																																																
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 156571, 184501																																																																																
Target note no.: TN7		Area: 5.2ha																																																																																
Ecological Interest: High Ecological Importance in an international context. This habitat is linked to the Annex I habitat 'alkaline fens (7230)'																																																																																		
Habitat code PF1	<p>Large, diverse Fen with good connectivity, with wet habitats following an east - west orientation. The land rises somewhat to the north and the south.</p> <p>Adjacent to the western edge of the site is an area that has recently been converted to forestry. To the north, land has been improved.</p> <p>Threats to the site include; nutrient enrichment due to close proximity of forestry and improved farm land. Drainage is also a risk, with lands to the south being well drained at present. These lands, although containing a high proportion of rushes, have low species diversity in comparison to nearby sites.</p> <p>Area to the East contains floristically diverse wet grasslands and transition mire (See TN3, TN5, TN6 and TN8).</p>																																																																																	
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	<i>Carex nigra</i>	Common Sedge	Occasional
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional

Habitat Map



Legend



Image 1: Overview of habitat




Image 2: Shows lower elevation of site in comparison to background hill.


TARGET NOTES – ID No. 35																																																														
Survey Title: Mid Clare Habitat Mapping		Survey date: 17/07/10																																																												
Surveyor: John Curtin		County name: Clare																																																												
1:2,500 Sheet no: 4154-c	Townland: Kilbarron	Grid Ref: 157584, 184572																																																												
Target note no.: TN8		Area: 3.9ha																																																												
Ecological Interest: High ecological interest in an International context. This habitat type is limited in extent in Ireland and is linked to the Annex I habitat 'alkaline fens (7230).																																																														
Habitat code PF1/PF2	<p>Shallow boggy substrate alongside species composition suggests that this site is a Fen. It contains characteristic species of both rich; Marsh Pennywort (<i>Hydrocotyle vulgaris</i>), and poor; Cottongrass (<i>Eriophorum angustifolium</i>) Fen. Sedges (<i>Carex nigra</i>, <i>Carex panicea</i>, <i>Carex pendula</i> and <i>Carex viridula</i>), rush (<i>Juncus articulatus</i>) and moss (<i>Bryophyte</i>) co-dominate.</p> <p>Slight elevation in site as land slopes higher towards conifer plantation (WD4) to the South. Wet habitat continues westwards and across the road to the East.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Briza media</i></td> <td>Quaking-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Bryophyte</i></td> <td>Moss spp</td> <td>Abundant</td> </tr> <tr> <td><i>Carex nigra</i></td> <td>Common Sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Carex panicea</i></td> <td>Carnation sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Carex pendula</i></td> <td>Pendulous Sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Carex viridula</i></td> <td>Yellow Sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Orchid</td> <td>Occasional</td> </tr> <tr> <td><i>Equisetum sp</i></td> <td>Horsetail</td> <td>Frequent</td> </tr> <tr> <td><i>Eriophorum angustifolium</i></td> <td>Common Cottongrass</td> <td>Frequent</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Occasional</td> </tr> <tr> <td><i>Hydrocotyle vulgaris</i></td> <td>Marsh Pennywort</td> <td>Occasional</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> <td>Abundant</td> </tr> <tr> <td><i>Lotus pedunculatus</i></td> <td>Greater Birds-foot-trefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Lychnis flos-cuculi</i></td> <td>Ragged Robin</td> <td>Occasional</td> </tr> <tr> <td><i>Mentha aquatica</i></td> <td>Water Mint</td> <td>Frequent</td> </tr> <tr> <td><i>Pedicularis sp</i></td> <td>Lousewort</td> <td>Frequent</td> </tr> <tr> <td><i>Prunella vulgaris</i></td> <td>Self-heal</td> <td>Occasional</td> </tr> <tr> <td><i>Trifolium repens</i></td> <td>White clover</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Briza media</i>	Quaking-grass	Occasional	<i>Bryophyte</i>	Moss spp	Abundant	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Occasional	<i>Carex pendula</i>	Pendulous Sedge	Occasional	<i>Carex viridula</i>	Yellow Sedge	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Equisetum sp</i>	Horsetail	Frequent	<i>Eriophorum angustifolium</i>	Common Cottongrass	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Abundant	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Frequent	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Mentha aquatica</i>	Water Mint	Frequent	<i>Pedicularis sp</i>	Lousewort	Frequent	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Trifolium repens</i>	White clover	Occasional
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<i>Trifolium repens</i>	White clover	Occasional																																																												

Habitat Map



Legend

TARGET NOTES – ID No. 36		
Survey Title: Mid Clare Habitat Mapping		Survey date: 28/06/10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-d	Townland: Lecarrow Lower	Grid Ref: 159222, 185282
Target note no.: TN1		Area: 0.65ha
Ecological Value: Moderate Ecological interest in a local context		
Habitat code GS1	Several neutral grassland fields on gently sloping ground which is grazed by horses. Good species diversity, with abundant Eyebright (<i>Euphrasia nemorosa</i>) and Selfheal (<i>Prunella vulgaris</i>). Other species that feature strongly are Ribwort Plantain (<i>Plantago lanceolata</i>), Cocksfoot (<i>Dactylis glomerata</i>), Sweet Vernal (<i>Anthoxanthum odoratum</i>), Fescues (<i>Festuca</i> spp.) and Clovers (<i>Trifolium</i> spp.).	
Habitat Map 		
Legend		

TARGET NOTES – ID No. 37		
Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-d	Townland: Rossanure	Grid Ref: 158119, 185097
Target note no.: TN2		Area: 1ha (approx.)
Ecological Value: High Ecological interest in a local context. This habitat type is not linked to any annexed habitats but as natural woodland is very scarce in Ireland it is considered to be of high ecological significance.		
Habitat code WN6	Wet Willow-dominated woodland. Ground is very soft and marshy, with abundant Horsetails (<i>Equisetum</i> spp.). There is also an abundance of bryophytes, including Tree Moss (<i>Climacium dendroides</i>). Other species present in the field layer are Meadowsweet (<i>Filipendula ulmaria</i>), Water Forget-me-not (<i>Myosotis scorpioides</i>), Bugle (<i>Ajuga reptans</i>), Wild Angelica (<i>Angelica sylvestris</i>), Marsh Bedstraw (<i>Galium palustre</i>), Watermint (<i>Mentha aquatica</i>) and a species of Spotted Orchid (<i>Dactylorhiza</i> sp.).	
Habitat Map 		
Legend		


Photographic Record:



Image 1: Small stream flowing through woodland



Image 2: Field Layer with *Dactylorhiza* sp.

TARGET NOTES – ID No. 38																				
Survey Title: Mid Clare Habitat Mapping		Survey date: 29.06.10																		
Surveyor: Jean Hamilton		County name: Clare																		
1:2,500 Sheet no: 4154-d	Townland: Rossanure	Grid Ref: 158238, 185214																		
Target note no.: TN3		Area: 1ha																		
Ecological Value: High ecological interest in a local context																				
Habitat code WD1	<p>Wet woodland dominated by Downy Birch (<i>Betula pubescens</i>), with a few scattered willows (<i>Salix</i> spp.). Occurs in a flushed area. Looks natural – trees not in straight rows.</p> <p>Species List – field layer</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;">Species (<i>Latin name</i>)</th> <th style="padding: 5px;">Species (<i>common name</i>)</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Ajuga reptans</i></td><td style="padding: 5px;">Bugle</td></tr> <tr><td style="padding: 5px;"><i>Betula pubescens</i></td><td style="padding: 5px;">Downy Birch</td></tr> <tr><td style="padding: 5px;"><i>Climacium dendroides</i></td><td style="padding: 5px;">Tree Moss</td></tr> <tr><td style="padding: 5px;"><i>Filipendula ulmaria</i></td><td style="padding: 5px;">Meadowsweet</td></tr> <tr><td style="padding: 5px;"><i>Galium palustre</i></td><td style="padding: 5px;">Marsh Bedstraw</td></tr> <tr><td style="padding: 5px;"><i>Mentha aquatica</i></td><td style="padding: 5px;">Watermint</td></tr> <tr><td style="padding: 5px;"><i>Ranunculus repens</i></td><td style="padding: 5px;">Creeping Buttercup</td></tr> <tr><td style="padding: 5px;"><i>Rubus fruticosus</i></td><td style="padding: 5px;">Bramble</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (<i>common name</i>)	<i>Ajuga reptans</i>	Bugle	<i>Betula pubescens</i>	Downy Birch	<i>Climacium dendroides</i>	Tree Moss	<i>Filipendula ulmaria</i>	Meadowsweet	<i>Galium palustre</i>	Marsh Bedstraw	<i>Mentha aquatica</i>	Watermint	<i>Ranunculus repens</i>	Creeping Buttercup	<i>Rubus fruticosus</i>	Bramble
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<i>Rubus fruticosus</i>	Bramble																			
<p>Habitat Map</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>Legend</p>																				


Photographic Record:



Image 1: Birch Woodland



Image 2: Field Layer

TARGET NOTES – ID No. 39		
Survey Title: Mid Clare Habitat Mapping		Survey date: 29.06.10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-d	Townland: Coolreagh Beg	Grid Ref: 160006, 184165
Target note no.: TN4		Area: 1.8ha
Ecological Value: High Ecological interest in a local context. This habitat type does not correspond to any annexed habitats.		
Habitat code WN1	<p>Mature woodland dominated by Downy Birch (<i>Betula pubescens</i>) and Ash (<i>Fraxinus excelsior</i>) with frequent Rowan (<i>Sorbus aucuparia</i>) and occasional Hawthorn (<i>Crataegus monogyna</i>) and Willows (<i>Salix</i> spp.). The ground is quite trampled in places, probably from cattle being driven through the wood, but there is a rich ground layer with Meadowsweet (<i>Filipendula ulmaria</i>), Remote Sedge (<i>Carex remota</i>), Common Dog-violet (<i>Viola riviniana</i>), Herb Robert (<i>Geranium robertianum</i>) and ferns.</p> <p>There is some evidence that the woodland was once managed as Coppice, with many spindly branches coming from the bases of the tree trunks. This habitat is of high ecological value, as mature woodlands of any kind are scarce in the landscape.</p>	
Habitat Map		
		
Legend		


Photographic Record:



Image 1: Mature Birch Woodland



Image 2: Field Layer with Meadowsweet (*Filipendula ulmaria*), Enchanter's Nightshade (*Circaea lutetiana*) and Common Dog Violet (*Viola riviniana*).

TARGET NOTES – ID No. 40		
Survey Title: Mid Clare Habitat Mapping		Survey date: 29.06.10
Surveyor: Jean Hamilton		County name: Clare
1:2,500 Sheet no: 4154-d	Townland: Coolreagh Beg	Grid Ref: 159327, 184234
Target note no.: TN5		Area: 10ha
Ecological Value: High Ecological interest in an international context. This habitat type is linked with the annexed habitat, 'depressions on peat substrates of the <i>Rhynchosporion</i> (7150)'.		
Habitat code PB4	Extensive area of Cutover Bog (PB4). Quite wet in areas with plenty of Bog Mosses (<i>Sphagnum</i> spp.), while the intact bog adjacent to it is quite dry and has hardly any <i>Sphagnum</i> . It is evident that the drainage has been severely altered in the bog. In the Cutover area, Purple Moor-grass (<i>Molinia caerulea</i>) and Cross-leaved Heath (<i>Erica tetralix</i>) dominate, with abundant Cottongrasses (<i>Eriophorum</i> spp.) and frequent Ling (<i>Calluna vulgaris</i>) and Sundews (<i>Drosera</i> spp.). Some Birch (<i>Betula</i> spp.) saplings are scattered throughout the drier parts at the edge of the cutover area - beginnings of Bog Woodland (WN7).	
Habitat Map 		
Legend		

Photographic Record:



Image 1: Cutover Bog with Birch (*Betula*) saplings



Image 2: Close up of vegetation with Bog Moss (*Sphagnum* spp.), Cross-leaved Heath (*Erica tetralix*) and Downy Birch (*Betula pubescens*)



Image 3: Heath Spotted-Orchid (*Dactylorhiza maculata*) and Downy Birch (*Betula pubescens*).

TARGET NOTES – ID No. 41

Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																																							
Surveyor: John Curtin		County name: Clare																																							
1:2,500 Sheet no: 4155-a	Townland: Poulagower	Grid Ref: 160600, 185619																																							
Target note no.: TN1		Area: 2.5ha																																							
Ecological Interest: High Ecological Importance in a national context. This habitat type is linked to the Annex I Habitat 'northern Atlantic wet heaths with <i>Erica tetralix</i> '																																									
Habitat code	Mosaic area of Wet heath (HH3) and Scrub (WS1) surrounded by drain. Has not been cut for peat in recent history.																																								
HH3/ WS1	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Betula pubescens</i></td><td>Downy Birch</td><td>Frequent</td></tr> <tr> <td><i>Calluna vulgaris</i></td><td>Ling</td><td>Frequent</td></tr> <tr> <td><i>Equisetum</i></td><td>Horsetail</td><td>Occasional</td></tr> <tr> <td><i>Erica tetralix</i></td><td>Cross-leaved Heath</td><td>Rare</td></tr> <tr> <td><i>Eriophorum vaginatum</i></td><td>Hares-tail cottongrass</td><td>Occasional</td></tr> <tr> <td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Frequent</td></tr> <tr> <td><i>Osmunda regalis</i></td><td>Royal Fern</td><td>Occasional</td></tr> <tr> <td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr> <td><i>Rubus fruticosus</i></td><td>Bramble</td><td>Frequent</td></tr> <tr> <td><i>Salix cinerea</i> (shrub)</td><td>Grey Willow</td><td>Frequent</td></tr> <tr> <td><i>Salix cinerea</i> (tree)</td><td>Grey Willow</td><td>Frequent</td></tr> <tr> <td><i>Ulex</i> sp.</td><td>Gorse</td><td>Abundant</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Betula pubescens</i>	Downy Birch	Frequent	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Equisetum</i>	Horsetail	Occasional	<i>Erica tetralix</i>	Cross-leaved Heath	Rare	<i>Eriophorum vaginatum</i>	Hares-tail cottongrass	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Frequent	<i>Osmunda regalis</i>	Royal Fern	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Rubus fruticosus</i>	Bramble	Frequent	<i>Salix cinerea</i> (shrub)	Grey Willow	Frequent	<i>Salix cinerea</i> (tree)	Grey Willow	Frequent	<i>Ulex</i> sp.	Gorse	Abundant
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Habitat Map



Legend

TARGET NOTES – ID No. 42																																																																	
Survey Title: Mid Clare Habitat Mapping		Survey date: 21/06/10																																																															
Surveyor: John Curtin		County name: Clare																																																															
1:2,500 Sheet no: 4155-a	Townland: Poulagower	Grid Ref: 160372, 185664																																																															
Target note no.: TN2		Area: 2.6ha																																																															
High ecological interest in a local context. This habitat type does not correspond to any Annex I habitats.																																																																	
Habitat code	Wet grassland with orchids bordering the river Graney. Substrate is sand for approx 60 meters away from river.																																																																
GS4	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Frequent</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Orchid</td> <td>Rare</td> </tr> <tr> <td><i>Equisetum sp</i></td> <td>Horsetail</td> <td>Occasional</td> </tr> <tr> <td><i>Euphrasia arctica</i></td> <td>Eyebright</td> <td>Frequent</td> </tr> <tr> <td><i>Galium sp</i></td> <td>Bedstraw sp</td> <td>Occasional</td> </tr> <tr> <td><i>Glyceria fluitans</i></td> <td>Floating Sweet-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Frequent</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> <td>Dominant</td> </tr> <tr> <td><i>Lolium perenne</i></td> <td>Rye-grass, perennial</td> <td>Occasional</td> </tr> <tr> <td><i>Lotus corniculatus</i></td> <td>Birds-foot-trefoil</td> <td>Occasional</td> </tr> <tr> <td><i>Lotus pedunculatus</i></td> <td>Greater Birds-foot-trefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Pedicularis sylvatica</i></td> <td>Lousewort</td> <td>Occasional</td> </tr> <tr> <td><i>Plantago lanceolata</i></td> <td>Ribwort Plantain</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Frequent</td> </tr> <tr> <td><i>Rhinanthus minor</i></td> <td>Yellow-rattle</td> <td>Frequent</td> </tr> <tr> <td><i>Rumex sp</i></td> <td>Sorrel sp</td> <td>Occasional</td> </tr> <tr> <td><i>Taraxacum sp</i></td> <td>Dandelion sp</td> <td>Occasional</td> </tr> <tr> <td><i>Trifolium pratense</i></td> <td>Red Clover</td> <td>Occasional</td> </tr> <tr> <td><i>Trifolium repens</i></td> <td>White clover</td> <td>Occasional</td> </tr> <tr> <td><i>Vicia sp</i></td> <td>Vetch sp</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Dactylorhiza sp.</i>	Orchid	Rare	<i>Equisetum sp</i>	Horsetail	Occasional	<i>Euphrasia arctica</i>	Eyebright	Frequent	<i>Galium sp</i>	Bedstraw sp	Occasional	<i>Glyceria fluitans</i>	Floating Sweet-grass	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Dominant	<i>Lolium perenne</i>	Rye-grass, perennial	Occasional	<i>Lotus corniculatus</i>	Birds-foot-trefoil	Occasional	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Frequent	<i>Pedicularis sylvatica</i>	Lousewort	Occasional	<i>Plantago lanceolata</i>	Ribwort Plantain	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Frequent	<i>Rhinanthus minor</i>	Yellow-rattle	Frequent	<i>Rumex sp</i>	Sorrel sp	Occasional	<i>Taraxacum sp</i>	Dandelion sp	Occasional	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Trifolium repens</i>	White clover	Occasional	<i>Vicia sp</i>	Vetch sp	Occasional
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Habitat Map



Legend

TARGET NOTES – ID No. 43																																																																																																		
Survey Title: Mid Clare Habitat Mapping		Survey date: 22/06/10																																																																																																
Surveyor: John Curtin		County name: Clare																																																																																																
1:2,500 Sheet no: 4155-a	Townland: Poulagower	Grid Ref: 160062, 185671																																																																																																
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High ecological interest in a local context. This habitat type does not correspond to any Annex I habitats.																																																																																																		
Habitat code GS4	<p>Diverse wet grassland (GS4) with orchids on the edge of an area of Cutover Bog PB4. Some bog species are present, including occasional patches of Bog mosses (<i>Sphagnum</i> spp.).</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Occasional</td></tr> <tr><td><i>Briza media</i></td><td>Quaking-grass</td><td>Frequent</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Frequent</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Frequent</td></tr> <tr><td><i>Carex viridula</i></td><td>Yellow sedge</td><td>Occasional</td></tr> <tr><td><i>Cirsium dissectum</i></td><td>Meadow Thistle</td><td>Frequent</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Frequent</td></tr> <tr><td><i>Equisetum</i></td><td>Horsetail</td><td>Occasional</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cottongrass</td><td>Rare</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Frequent</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Galium verum</i></td><td>Lady's Bedstraw</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Abundant</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Rare</td></tr> <tr><td><i>Lathyrus pratensis</i></td><td>Meadow-vetchling</td><td>Occasional</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Occasional</td></tr> <tr><td><i>Mentha aquatica</i></td><td>Water Mint</td><td>Occasional</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr><td><i>Potentilla palustris</i></td><td>Marsh Cinquefoil</td><td>Rare</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser spearwort</td><td>Occasional</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping buttercup</td><td>Occasional</td></tr> <tr><td><i>Rhinanthus minor</i></td><td>Yellow-rattle</td><td>Rare</td></tr> <tr><td><i>Sphagnum sp</i></td><td>Bog Mosses</td><td>Occasional</td></tr> <tr><td><i>Taraxacum sp</i></td><td>Dandelion sp</td><td>Occasional</td></tr> <tr><td><i>Trifolium pratense</i></td><td>Red Clover</td><td>Occasional</td></tr> <tr><td><i>Vicia cracca</i></td><td>Tufted-vetch</td><td>Occasional</td></tr> <tr><td><i>Vicia sp</i></td><td>Vetch</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Briza media</i>	Quaking-grass	Frequent	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Frequent	<i>Carex viridula</i>	Yellow sedge	Occasional	<i>Cirsium dissectum</i>	Meadow Thistle	Frequent	<i>Dactylorhiza sp.</i>	Orchid	Frequent	<i>Equisetum</i>	Horsetail	Occasional	<i>Eriophorum angustifolium</i>	Common Cottongrass	Rare	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Galium verum</i>	Lady's Bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Abundant	<i>Juncus effusus</i>	Soft Rush	Rare	<i>Lathyrus pratensis</i>	Meadow-vetchling	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Potentilla palustris</i>	Marsh Cinquefoil	Rare	<i>Ranunculus flammula</i>	Lesser spearwort	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Rhinanthus minor</i>	Yellow-rattle	Rare	<i>Sphagnum sp</i>	Bog Mosses	Occasional	<i>Taraxacum sp</i>	Dandelion sp	Occasional	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Vicia cracca</i>	Tufted-vetch	Occasional	<i>Vicia sp</i>	Vetch	Occasional
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Habitat Map



Legend

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Surveyor: John Curtin		County name: Clare																																																						
1:2,500 Sheet no: 4155-a	Townland: Poulagower	Grid Ref: 160021, 186784																																																						
Target note no.: TN4		Area: 0.74ha																																																						
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Habitat Map



Legend

TARGET NOTES - ID No. 45																																																																													
Survey Title: Mid Clare Habitat Mapping			Survey date: 22/06/10																																																																										
Surveyor: John Curtin			County name: Clare																																																																										
1:2,500 Sheet no: 4155-a	Townland: Poulagower		Grid Ref: 160081, 186464																																																																										
Target note no.: TN5		Area: 0.5ha																																																																											
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Habitat Map



Legend

TARGET NOTES - ID No. 46																																																																	
Survey Title: Mid Clare Habitat Mapping		Survey date: 21/06/10																																																															
Surveyor: John Curtin		County name: Clare																																																															
1:2,500 Sheet no: 4155-b	Townland: Annagooladory	Grid Ref: 163581, 186262																																																															
Target note no.: TN1		Area: 1ha																																																															
High ecological significance in a local context. This habitat type is linked to the annexed habitat, 'lowland hay meadows (<i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i>)																																																																	
Habitat code	Species-rich meadow.																																																																
GS2	Species List																																																																
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Habitat Map



Legend

TARGET NOTES - ID No. 47

Survey Title: Mid Clare Habitat Mapping		Survey date: 23/06/10
Surveyor: John Curtin		County name: Clare
1:2,500 Sheet no: 4155-b	Townland: Capparoe	Grid Ref: 162098, 185810
Target note no.: TN2		Area: 0.1ha

Moderate ecological interest in a local context

Habitat code GM1	Small section of marsh surrounded by improved grasslands.	
	Species List	
	Species (<i>Latin name</i>)	Species (common name)
	DAFOR Scale	
	<i>Agrostis sp</i>	Bent grass
	<i>Cirsium palustre</i>	Marsh-thistle
	<i>Filipendula ulmaria</i>	Meadowsweet
	<i>Galium palustre</i>	Marsh-bedstraw
	<i>Geranium robertianum</i>	Herb-robert
	<i>Glyceria fluitans</i>	Floating Sweet-grass
	<i>Holcus lanatus</i>	Yorkshire Fog
	<i>Iris pseudacorus</i>	Yellow Iris
	<i>Juncus sp</i>	Rush
	<i>Mentha aquatica</i>	Water Mint
	<i>Menyanthes trifoliata</i>	Bog-bean
	<i>Molinia caerulea</i>	Purple Moor-grass
	<i>Ranunculus repens</i>	Creeping buttercup

Habitat Map**Legend**

TARGET NOTES - ID No. 48																																																																												
Survey Title: Mid Clare Habitat Mapping		Survey date: 23/06/10																																																																										
Surveyor: John Curtin		County name: Clare																																																																										
1:2,500 Sheet no: 4155-b	Townland: Fossa Beg	Grid Ref: 163478, 185607																																																																										
Target note no.: TN3		Area: 0.7ha																																																																										
Moderate ecological interest in a local context. Does not correspond to any annexed habitats.																																																																												
Habitat code GS4	Species-rich Wet grassland close to site of children's burial ground. Grades into Willow woodland (WN6) and Scrub (WS1). A high proportion of the surface is poached.																																																																											
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Surveyor: John Curtin		County name: Clare																																																																													
1:2,500 Sheet no: 4155-b	Townland: Fossa Beg	Grid Ref: 163679, 185519																																																																													
Target note no.: TN4		Area: 0.5ha																																																																													
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1:2,500 Sheet no: 4155-b	Townland: Fossa Beg	Grid Ref: 163815, 185560																																																																														
Target note no.: TN5		Area: 1.1ha																																																																														
Habitat code GS4	<p>Species-rich Wet grassland GS4. Contains Spotted-Orchids (<i>Dactylorhiza</i> spp.) and Blue-eyed Grass (<i>Sisyrinchium bermudiana</i>), a species which is protected in Northern Ireland.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Frequent</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Occasional</td></tr> <tr><td><i>Carex viridula</i></td><td>Yellow sedge</td><td>Occasional</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dogs-tail</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza</i> sp.</td><td>Orchid</td><td>Frequent</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Frequent</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Hieracium anglicum</i></td><td>Hawkweed</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Frequent</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Frequent</td></tr> <tr><td><i>Luzula sylvatica</i></td><td>Wood-rush</td><td>Occasional</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Frequent</td></tr> <tr><td><i>Mysotis</i> sp</td><td>Forget-me-not</td><td>Frequent</td></tr> <tr><td><i>Potentilla anserina</i></td><td>Silverweed</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping buttercup</td><td>Frequent</td></tr> <tr><td><i>Sisyrinchium bermudiana</i></td><td>Blue-eyed grass</td><td>Occasional</td></tr> <tr><td><i>Stellaria media</i></td><td>Common Chickweed</td><td>Occasional</td></tr> <tr><td><i>Trifolium pratense</i></td><td>Red Clover</td><td>Occasional</td></tr> <tr><td><i>Trifolium repens</i></td><td>White clover</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Carex echinata</i>	Star Sedge	Occasional	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Occasional	<i>Carex viridula</i>	Yellow sedge	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional	<i>Dactylorhiza</i> sp.	Orchid	Frequent	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Hieracium anglicum</i>	Hawkweed	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Juncus effusus</i>	Soft Rush	Frequent	<i>Luzula sylvatica</i>	Wood-rush	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Frequent	<i>Mysotis</i> sp	Forget-me-not	Frequent	<i>Potentilla anserina</i>	Silverweed	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Frequent	<i>Sisyrinchium bermudiana</i>	Blue-eyed grass	Occasional	<i>Stellaria media</i>	Common Chickweed	Occasional	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Trifolium repens</i>	White clover	Occasional
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Surveyor: John Curtin		County name: Clare																																																									
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Moderate ecological interest in a local context. This habitat does not correspond to any annexed habitats.																																																											
Habitat code GS4/GM1/GS1	Large, diverse wet grassland with orchids (<i>Dactylorhiza</i> sp). Sward approx 20cm and looks to have been cut within the last month or two. Lots of moss (<i>Campylium stellatum</i>). This habitat grades in to Marsh GM1 to the south and beyond this is an area of Dry Neutral and Calcareous Grassland GS1.																																																										
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Habitat Map



Legend

TARGET NOTES - ID No. 52

Survey Title: Mid Clare Habitat Mapping		Survey date: 23/06/10																																							
Surveyor: John Curtin		County name: Clare																																							
1:2,500 Sheet no: 4155-b	Townland: Aughrim/Tobernagat	Grid Ref: 163319, 186714																																							
Target note no.: TN7		Area: 0.5ha																																							
Moderate ecological interest in a local context. This habitat type is linked to the annexed habitat, 'species-rich <i>Nardus</i> grasslands on siliceous substrates in mountain areas (6230)'																																									
Habitat code	Acid grassland on side of hill. Surface springy with moss species. Mat-grass (<i>Nardus stricta</i>).																																								
GS3	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr> <td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Frequent</td></tr> <tr> <td><i>Campylium stellatum</i></td><td>Star Campylium moss</td><td>Frequent</td></tr> <tr> <td><i>Cynosurus cristatus</i></td><td>Crested Dogs-tail</td><td>Occasional</td></tr> <tr> <td><i>Drepanocladus sp</i></td><td>Sickle Moss</td><td>Frequent</td></tr> <tr> <td><i>Hieracium anglicum</i></td><td>Hawkweed</td><td>Occasional</td></tr> <tr> <td><i>Lotus corniculatus</i></td><td>Birds-foot-trefoil</td><td>Occasional</td></tr> <tr> <td><i>Nardus stricta</i></td><td>Mat-grass</td><td>Frequent</td></tr> <tr> <td><i>Plantago lanceolata</i></td><td>Ribwort Plantain</td><td>Frequent</td></tr> <tr> <td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr> <td><i>Trifolium sp</i></td><td>Clover</td><td>Frequent</td></tr> <tr> <td><i>Ulex sp</i></td><td>Gorse</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Campylium stellatum</i>	Star Campylium moss	Frequent	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional	<i>Drepanocladus sp</i>	Sickle Moss	Frequent	<i>Hieracium anglicum</i>	Hawkweed	Occasional	<i>Lotus corniculatus</i>	Birds-foot-trefoil	Occasional	<i>Nardus stricta</i>	Mat-grass	Frequent	<i>Plantago lanceolata</i>	Ribwort Plantain	Frequent	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Trifolium sp</i>	Clover	Frequent	<i>Ulex sp</i>	Gorse	Occasional
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Habitat Map



Legend

TARGET NOTES - ID No. 53																																																																													
Survey Title: Mid Habitat mapping		Survey date: 18/06/10																																																																											
Surveyor: Shane O'Neill		County name: Clare																																																																											
1:2,500 Sheet no: 4155-c	Townland: Core	Grid Ref: 160524, 184555																																																																											
Target note no.: TN1		Area: 5.7ha																																																																											
Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to Priority Habitat, '*bog woodland (91D0)' and 'Degraded raised bogs still capable of natural regeneration'.																																																																													
Habitat code PB4/WN7/GS4	<p>Area of Cutover bog which appears to be regenerating. Bog mosses (<i>Sphagnum</i> spp.) are abundant. Peat depth is approximately 1.5m. An area of Bog Woodland (WN7) occurs to the south and east of the bog. There is an abundance of Gorse and Birch Scrub on the northwestern side where it grades in to Wet Grassland (GS4).</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (<i>common name</i>)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Abundant</td></tr> <tr><td><i>Calluna vulgaris</i></td><td>Ling</td><td>Frequent</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Abundant</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza</i> sp.</td><td>Spotted-Orchid</td><td>Occasional</td></tr> <tr><td><i>Erica cinerea</i></td><td>Bell Heather</td><td>Frequent</td></tr> <tr><td><i>Erica tetralix</i></td><td>Cross-leaved heath</td><td>Frequent</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cotton-grass</td><td>Occasional</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Occasional</td></tr> <tr><td><i>Fraxinus excelsior</i></td><td>Ash</td><td>Frequent</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Iris pseudacorus</i></td><td>Yellow Iris</td><td>Occasional</td></tr> <tr><td><i>Juncus</i> spp.</td><td>Rushes</td><td>Abundant</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Occasional</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Abundant</td></tr> <tr><td><i>Myrica gale</i></td><td>Bog Myrtle</td><td>Abundant</td></tr> <tr><td><i>Osmunda regalis</i></td><td>Royal Fern</td><td>Frequent</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Abundant</td></tr> <tr><td><i>Pteridium aquilinum</i></td><td>Bracken</td><td>Occasional</td></tr> <tr><td><i>Salix viminalis</i></td><td>Osier</td><td>Occasional</td></tr> <tr><td><i>Sorbus aucuparia</i></td><td>Rowan</td><td>Frequent</td></tr> <tr><td><i>Sphagnum</i> spp.</td><td>Bog-Mosses</td><td>Abundant</td></tr> <tr><td><i>Ulex</i> sp.</td><td>Gorse</td><td>Abundant</td></tr> <tr><td><i>Valeriana officinalis</i></td><td>Common Valerian</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (<i>common name</i>)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Abundant	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Carex echinata</i>	Star Sedge	Abundant	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Dactylorhiza</i> sp.	Spotted-Orchid	Occasional	<i>Erica cinerea</i>	Bell Heather	Frequent	<i>Erica tetralix</i>	Cross-leaved heath	Frequent	<i>Eriophorum angustifolium</i>	Common Cotton-grass	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Occasional	<i>Fraxinus excelsior</i>	Ash	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Iris pseudacorus</i>	Yellow Iris	Occasional	<i>Juncus</i> spp.	Rushes	Abundant	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Myrica gale</i>	Bog Myrtle	Abundant	<i>Osmunda regalis</i>	Royal Fern	Frequent	<i>Potentilla erecta</i>	Tormentil	Abundant	<i>Pteridium aquilinum</i>	Bracken	Occasional	<i>Salix viminalis</i>	Osier	Occasional	<i>Sorbus aucuparia</i>	Rowan	Frequent	<i>Sphagnum</i> spp.	Bog-Mosses	Abundant	<i>Ulex</i> sp.	Gorse	Abundant	<i>Valeriana officinalis</i>	Common Valerian	Occasional
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Habitat Map



Legend

TARGET NOTES - ID No. 54																																																					
Survey Title: Mid Clare Habitat mapping		Survey date: 21/6/10																																																			
Surveyor: Shane O'Neill		County name: Clare																																																			
1:2,500 Sheet no: 4155-c	Townland: Coolreagh Beg	Grid Ref: 160359, 184039																																																			
Target note no.: TN2		Area: 2.9ha																																																			
This area is considered to be of Moderate Ecological value in a Local context. Does not correspond to any annexed habitats.																																																					
Habitat code GS4	Species-rich Wet Grassland (GS4) to the south of a small lake. Species List: GS4 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal-grass</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Carex echinata</i></td><td style="padding: 5px;">Star Sedge</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Cirsium palustre</i></td><td style="padding: 5px;">Marsh Thistle</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Dactylorhiza sp.</i></td><td style="padding: 5px;">Spotted-Orchid</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Equisetaceae agg</i></td><td style="padding: 5px;">Horsetails</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Filipendula ulmaria</i></td><td style="padding: 5px;">Meadowsweet</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Iris pseudacorus</i></td><td style="padding: 5px;">Yellow Iris</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Juncus spp.</i></td><td style="padding: 5px;">Rushes</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Lychnis flos-cuculi</i></td><td style="padding: 5px;">Ragged Robin</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Mentha aquatica</i></td><td style="padding: 5px;">Watermint</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">Tormentil</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Prunella vulgaris</i></td><td style="padding: 5px;">Selfheal</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Rhinanthus minor</i></td><td style="padding: 5px;">Yellow-rattle</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Valeriana officinalis</i></td><td style="padding: 5px;">Common Valerian</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Vicia cracca</i></td><td style="padding: 5px;">Tufted Vetch</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Abundant	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Cirsium palustre</i>	Marsh Thistle	Occasional	<i>Dactylorhiza sp.</i>	Spotted-Orchid	Occasional	<i>Equisetaceae agg</i>	Horsetails	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Iris pseudacorus</i>	Yellow Iris	Occasional	<i>Juncus spp.</i>	Rushes	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Mentha aquatica</i>	Watermint	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Prunella vulgaris</i>	Selfheal	Occasional	<i>Rhinanthus minor</i>	Yellow-rattle	Occasional	<i>Valeriana officinalis</i>	Common Valerian	Frequent	<i>Vicia cracca</i>	Tufted Vetch	Occasional
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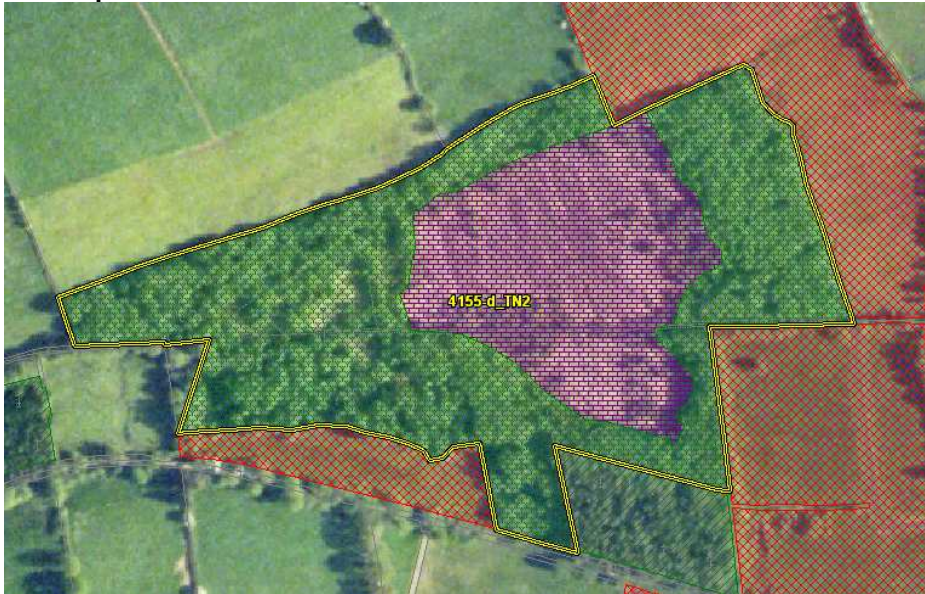
Habitat Map**Legend**

TARGET NOTES – ID No. 55																																																								
Survey Title: Mid Clare Habitat mapping		Survey date: 22/6/10																																																						
Surveyor: Shane O Neill		County name: Clare																																																						
1:2,500 Sheet no: 4155-c	Townland: Lecarrow Lower	Grid Ref: 159929, 185427																																																						
Target note no.: TN3		Area: 13ha																																																						
Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to the Annex I habitat 'Degraded raised bogs still capable of natural regeneration'.																																																								
Habitat code PB4	<p>Area of Cutover bog PB4 which appears to be regenerating, with a thick carpet of <i>Sphagnum</i>. Scrub WS1 encroachment is occurring over much of the area.</p> <p>Species List: PB4</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin</i> name)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal-grass</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Calluna vulgaris</i></td><td style="padding: 5px;">Ling</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Dactylorhiza</i> sp.</td><td style="padding: 5px;">Spotted-Orchid</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Equisetaceae</i> agg.</td><td style="padding: 5px;">Horsetails</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Erica tetralix</i></td><td style="padding: 5px;">Cross-leaved Heath</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Eriophorum angustifolium</i></td><td style="padding: 5px;">Common Cotton-grass</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Filipendula ulmaria</i></td><td style="padding: 5px;">Meadowsweet</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Lychnis flos-cuculi</i></td><td style="padding: 5px;">Ragged Robin</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Molinia caerulea</i></td><td style="padding: 5px;">Purple Moor-grass</td><td style="padding: 5px;">Dominant</td></tr> <tr><td style="padding: 5px;"><i>Osmunda regalis</i></td><td style="padding: 5px;">Royal Fern</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Polypodium vulgare</i></td><td style="padding: 5px;">Polypody</td><td style="padding: 5px;">occasional</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">Tormentil</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Potentilla palustris</i></td><td style="padding: 5px;">Marsh Cinquefoil</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Sphagnum</i> spp.</td><td style="padding: 5px;">Bog-mosses</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Typha latifolia</i></td><td style="padding: 5px;">Reedmace</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Valeriana officinalis</i></td><td style="padding: 5px;">Common Valerian</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Vicia cracca</i></td><td style="padding: 5px;">Tufted vetch</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>		Species (<i>Latin</i> name)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Calluna vulgaris</i>	Ling	Abundant	<i>Dactylorhiza</i> sp.	Spotted-Orchid	Frequent	<i>Equisetaceae</i> agg.	Horsetails	Frequent	<i>Erica tetralix</i>	Cross-leaved Heath	Abundant	<i>Eriophorum angustifolium</i>	Common Cotton-grass	Frequent	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Lychnis flos-cuculi</i>	Ragged Robin	Frequent	<i>Molinia caerulea</i>	Purple Moor-grass	Dominant	<i>Osmunda regalis</i>	Royal Fern	Occasional	<i>Polypodium vulgare</i>	Polypody	occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Potentilla palustris</i>	Marsh Cinquefoil	Frequent	<i>Sphagnum</i> spp.	Bog-mosses	Abundant	<i>Typha latifolia</i>	Reedmace	Occasional	<i>Valeriana officinalis</i>	Common Valerian	Occasional	<i>Vicia cracca</i>	Tufted vetch	Occasional
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Habitat Map**Legend****Image1: Close up of Regenerating Bog Vegetation**

TARGET NOTES – ID No. 56			
Survey Title: Mid Clare Habitat Mapping		Survey date: 26/6/10	
Surveyor: Shane O'Neill		County name: Clare	
1:2,500 Sheet No: 4155-d	Townland: Fossamore	Grid Ref: 162085, 184418	
Target note no.: TN1		Area: 0.7ha	
This area is considered to be of Moderate Ecological value in a Local context. This habitat is linked to the Annex I habitat, 'lowland hay meadows (<i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i>) (6510)			
Habitat code GS2/GS4	This field is composed of Dry Meadows and Grassy Verges habitat and grades in to Wet Grassland in one corner of the field. The field immediately to the east of this site comprises much the same habitat, it had percolation tests carried out and had full planning permission on it.		
	Species List:		
	Species (Latin name)	Species (Common name)	DAFOR Scale
	<i>Alopecurus pratensis</i>	Foxtail	Frequent
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent
	<i>Centaurea nigra</i>	Knapweed	Occasional
	<i>Euphrasia officinalis</i> agg.	Eyebright	Occasional
	<i>Heracleum sphondylium</i>	Hogweed	Occasional
	<i>Iris pseudacorus</i>	Yellow Iris	Frequent
	<i>Juncus effusus</i>	Soft Rush	Occasional
	<i>Lathyrus pratensis</i>	Meadow Vetchling	Frequent
	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Frequent
	<i>Prunella vulgaris</i>	Selfheal	Frequent
	<i>Ranunculus acris</i>	Meadow Buttercup	Frequent
	<i>Ranunculus repens</i>	Creeping Buttercup	Frequent
	<i>Rhinanthus minor</i>	Yellow Rattle	Occasional
	<i>Trifolium pratense</i>	Red Clover	Abundant
<i>Trifolium repens</i>	White Clover	Abundant	
<i>Vicia cracca</i>	Tufted Vetch	Occasional	

Habitat Map**Legend**

TARGET NOTES – ID No. 57																																									
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/7/10																																							
Surveyor: Shane O'Neill		County name: Clare																																							
1:2,500 Sheet no: 4155-d	Townland: Capparoe	Grid Ref: 162625, 185106																																							
Target note no.: TN2		Area: 7.1ha																																							
Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to Priority Habitat, '*bog woodland (91D0)', 'active raised bogs (7110)' and 'Degraded raised bogs still capable of natural regeneration'.																																									
Habitat code PB1/WN7	Area of Raised bog (PB1) surrounded by Bog woodland (WN7). Red and Black ants were recorded at the site.																																								
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Legend																																									

TARGET NOTES – ID No. 58																																																																	
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10																																																															
Surveyor: John Curtin		County name: Clare																																																															
1:2,500 Sheet no: 4156-c	Townland: Scarriff	Grid Ref: 164160, 185219																																																															
Target note no.: TN1		Area: 1.6ha																																																															
High ecological interest in a national context. Linked to the Annex I habitat 'Molinia meadows on calcareous, peaty or clayey-silt-laden soils.																																																																	
Habitat code	Wet grassland (GS4) close to pitches and estate in Scarriff. Contains Spotted-Orchids (<i>Dactylorhiza</i> spp).																																																																
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Habitat Map



Legend

TARGET NOTES – ID No. 59																																																														
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10																																																												
Surveyor: John Curtin		County name: Clare																																																												
1:2,500 Sheet no: 4156-c	Townland: Fossa Beg	Grid Ref: 164171, 185159																																																												
Target note no.: TN2		Area: 0.7ha																																																												
Moderate ecological interest in a local context. This habitat type is linked to the annexed habitat, 'lowland hay meadows (<i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i>) but the vegetation in this location does not correspond to this classification.																																																														
Habitat code	Meadow grassland fringing football pitch (GA2)																																																													
GS2	Species List <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Agrostis sp</i></td> <td>Bent grass</td> <td>Frequent</td> </tr> <tr> <td><i>Alopecurus pratensis</i></td> <td>Foxtail</td> <td>Occasional</td> </tr> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Carex hirta</i></td> <td>Hairy Sedge</td> <td>Frequent</td> </tr> <tr> <td><i>Cynosurus cristatus</i></td> <td>Crested Dogs-tail</td> <td>Occasional</td> </tr> <tr> <td><i>Deschampsia flexuosa</i></td> <td>Wavy Hair-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Euphrasia arctica</i></td> <td>Eyebright</td> <td>Frequent</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Frequent</td> </tr> <tr> <td><i>Juncus articulatus</i></td> <td>Jointed Rush</td> <td>Frequent</td> </tr> <tr> <td><i>Juncus conglomeratus</i></td> <td>Compact Rush</td> <td>Occasional</td> </tr> <tr> <td><i>Leontodon sp</i></td> <td>Hawkbit sp</td> <td>Frequent</td> </tr> <tr> <td><i>Leucanthemum vulgare</i></td> <td>Ox-eye Daisy</td> <td>Occasional</td> </tr> <tr> <td><i>Lolium perenne</i></td> <td>Rye-grass, perennial</td> <td>Occasional</td> </tr> <tr> <td><i>Lotus pedunculatus</i></td> <td>Greater Birds-foot-trefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Plantago lanceolata</i></td> <td>Ribwort Plantain</td> <td>Occasional</td> </tr> <tr> <td><i>Poa sp</i></td> <td>Meadow-grass</td> <td>Frequent</td> </tr> <tr> <td><i>Prunella vulgaris</i></td> <td>Self-heal</td> <td>Frequent</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Frequent</td> </tr> <tr> <td><i>Trifolium pratense</i></td> <td>Red Clover</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Frequent	<i>Alopecurus pratensis</i>	Foxtail	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Carex hirta</i>	Hairy Sedge	Frequent	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional	<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Occasional	<i>Euphrasia arctica</i>	Eyebright	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Juncus conglomeratus</i>	Compact Rush	Occasional	<i>Leontodon sp</i>	Hawkbit sp	Frequent	<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Occasional	<i>Lolium perenne</i>	Rye-grass, perennial	Occasional	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Frequent	<i>Plantago lanceolata</i>	Ribwort Plantain	Occasional	<i>Poa sp</i>	Meadow-grass	Frequent	<i>Prunella vulgaris</i>	Self-heal	Frequent	<i>Ranunculus repens</i>	Creeping buttercup	Frequent	<i>Trifolium pratense</i>	Red Clover	Occasional
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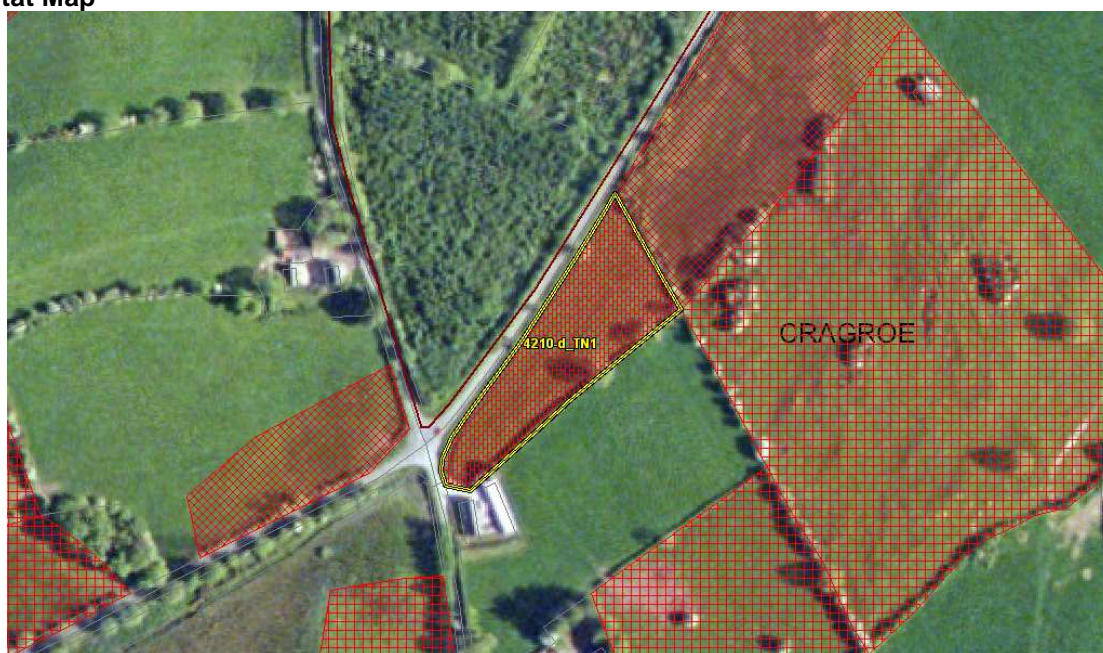
Habitat Map




Legend

TARGET NOTES – ID No. 60

Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																		
Surveyor: Jen Fisher		County name: Clare																		
1:2,500 Sheet no: 4210-d	Townland: Cragroe	Grid Ref: 151310, 181790																		
Target note no.: TN1		Area: 0.5ha																		
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																				
Habitat code GM1	<p>A small area of freshwater Marsh GM1 adjacent to the road, some drainage evident.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Cirsium palustre</i></td><td>Marsh Thistle</td><td>Frequent</td></tr> <tr> <td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Frequent</td></tr> <tr> <td><i>Iris pseudacorus</i></td><td>Yellowflag</td><td>Dominant</td></tr> <tr> <td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>Abundant</td></tr> <tr> <td><i>Ranunculus acris</i></td><td>Meadow Buttercup</td><td>Frequent</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Cirsium palustre</i>	Marsh Thistle	Frequent	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Iris pseudacorus</i>	Yellowflag	Dominant	<i>Juncus conglomeratus</i>	Compact Rush	Abundant	<i>Ranunculus acris</i>	Meadow Buttercup	Frequent
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Habitat Map**Legend**

TARGET NOTES – ID No. 61																																				
Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																																		
Surveyor: Jen Fisher		County name: Clare																																		
1:2,500 Sheet no: 4210-d	Townland: Cragroe	Grid Ref: 150673, 181331																																		
Target note no.: TN2		Area: 10.73ha																																		
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																				
Habitat code GS4	<p>Extensive area of Wet Grassland (GS4) of which the south western section was very species rich. The whole area is probably reclaimed bog. Some scrub was beginning to encroach within the habitat. Silver Washed Fritillary Butterflies were recorded in this habitat.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin</i> name)</th> <th>Species (common name)</th> </tr> </thead> <tbody> <tr><td><i>Cirsium palustre</i></td><td>Marsh Thistle</td></tr> <tr><td><i>Equisetum</i> sp.</td><td>Horsetail</td></tr> <tr><td><i>Galium palustris</i></td><td>Marsh Bedstraw</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td></tr> <tr><td><i>Juncus inflexus</i></td><td>Hard Rush</td></tr> <tr><td><i>Lathyrus pratensis</i></td><td>Meadow Vetchling</td></tr> <tr><td><i>Poa trivialis</i></td><td>Rough Meadow Grass</td></tr> <tr><td><i>Ranunculus acris</i></td><td>Meadow Buttercup</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping Buttercup</td></tr> <tr><td><i>Rubus fruticosus</i> agg</td><td>Bramble</td></tr> <tr><td><i>Salix</i> sp.</td><td>Willow</td></tr> <tr><td><i>Senecio aquatica</i></td><td>Marsh Ragwort</td></tr> <tr><td><i>Ulex europaeus</i></td><td>Gorse</td></tr> </tbody> </table>		Species (<i>Latin</i> name)	Species (common name)	<i>Cirsium palustre</i>	Marsh Thistle	<i>Equisetum</i> sp.	Horsetail	<i>Galium palustris</i>	Marsh Bedstraw	<i>Holcus lanatus</i>	Yorkshire Fog	<i>Juncus conglomeratus</i>	Compact Rush	<i>Juncus effusus</i>	Soft Rush	<i>Juncus inflexus</i>	Hard Rush	<i>Lathyrus pratensis</i>	Meadow Vetchling	<i>Poa trivialis</i>	Rough Meadow Grass	<i>Ranunculus acris</i>	Meadow Buttercup	<i>Ranunculus flammula</i>	Lesser Spearwort	<i>Ranunculus repens</i>	Creeping Buttercup	<i>Rubus fruticosus</i> agg	Bramble	<i>Salix</i> sp.	Willow	<i>Senecio aquatica</i>	Marsh Ragwort	<i>Ulex europaeus</i>	Gorse
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Habitat Map 																																				

Legend**Photographic Record:****Image 1: Overview of Wet Grassland Habitat GS4****Image 2: Silver-washed Fritillary *Argynnis aglaja***

TARGET NOTES – ID No. 62																																																								
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Surveyor: Jen Fisher		County name: Clare																																																						
1:2,500 Sheet no: 4210-d	Townland: Cloodorney	Grid Ref: 150150, 181870																																																						
Target note no.: TN3		Area: 15.09ha																																																						
Ecological Value: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120) and Annex 1 Priority Habitat *Active raised bogs (7110)																																																								
Habitat code PB1/PB4	<p>A large area of Raised Bog PB1 with some large areas of Cutover Bog PB4. The bog was heavily poached in some areas and thus some grazing of the habitat appeared to have taken place.</p> <p>Several turf banks were noted in the cutover areas and these areas were also wetter and supported different accumulations of plants and an abundance of Sphagnum. The majority of the cutover areas were re-vegetated at the time of the survey. Some drainage channels as well as Gorse and Willow scrub were evident at the perimeter of the bog.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Calluna vulgaris</i></td> <td>Ling Heather</td> <td>A</td> </tr> <tr> <td><i>Trichophorum cespitosum</i></td> <td>Deer Grass</td> <td>D</td> </tr> <tr> <td><i>Eriophorum angustifolium</i></td> <td>Common Cotton Sedge</td> <td>F</td> </tr> <tr> <td><i>Sphagnum sp.</i></td> <td></td> <td>A</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor Grass</td> <td>F</td> </tr> <tr> <td><i>Narthecium ossifragum</i></td> <td>Bog Asphodel</td> <td>A</td> </tr> <tr> <td><i>Erica tetralix</i></td> <td>Cross-leaved Heath</td> <td>F</td> </tr> <tr> <td><i>Rhynchospora alba</i></td> <td>White Beak-sedge</td> <td>F</td> </tr> <tr> <td><i>Drosera rotundifolia</i></td> <td>Round-leaved Sundew</td> <td>F</td> </tr> <tr> <td><i>Myrica gale</i></td> <td>Bog Myrtle</td> <td>O</td> </tr> <tr> <td><i>Eriophorum vaginatum</i></td> <td>Hare's-tail Cotton Sedge</td> <td>F</td> </tr> <tr> <td><i>Carex sp.</i></td> <td>Sedge</td> <td>F</td> </tr> <tr> <td><i>Carex panicea</i></td> <td>Carnation Sedge</td> <td>F</td> </tr> <tr> <td><i>Erica cinerea</i></td> <td>Bell Heather</td> <td>O</td> </tr> <tr> <td><i>Festuca rubra</i></td> <td>Red Fescue</td> <td>A</td> </tr> <tr> <td><i>Polygala sp.</i></td> <td>Milkwort</td> <td>O</td> </tr> <tr> <td><i>Carex echinata</i></td> <td>Star Sedge</td> <td>O</td> </tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR Scale	<i>Calluna vulgaris</i>	Ling Heather	A	<i>Trichophorum cespitosum</i>	Deer Grass	D	<i>Eriophorum angustifolium</i>	Common Cotton Sedge	F	<i>Sphagnum sp.</i>		A	<i>Molinia caerulea</i>	Purple Moor Grass	F	<i>Narthecium ossifragum</i>	Bog Asphodel	A	<i>Erica tetralix</i>	Cross-leaved Heath	F	<i>Rhynchospora alba</i>	White Beak-sedge	F	<i>Drosera rotundifolia</i>	Round-leaved Sundew	F	<i>Myrica gale</i>	Bog Myrtle	O	<i>Eriophorum vaginatum</i>	Hare's-tail Cotton Sedge	F	<i>Carex sp.</i>	Sedge	F	<i>Carex panicea</i>	Carnation Sedge	F	<i>Erica cinerea</i>	Bell Heather	O	<i>Festuca rubra</i>	Red Fescue	A	<i>Polygala sp.</i>	Milkwort	O	<i>Carex echinata</i>	Star Sedge	O
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Habitat Map**Legend****Photographic Record:**

Image 1: Overview of Raised Bog PB1 and Cutover Bog Habitat PB4



Image 2: Cutover Bog PB4 with White Beak Sedge *Rhynchospora alba*

TARGET NOTES – ID No. 63																																																								
Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																																																						
Surveyor: Jen Fisher		County name: Clare																																																						
1:2,500 Sheet no: 4210-d	Townland: Cloodorney	Grid Ref: 150784, 181787																																																						
Target note no.: TN4		Area: 2.4ha																																																						
Ecological Value: High Ecological Importance in a Local context. This habitat does not correspond to any Annex I Habitats.																																																								
Habitat code FL4/ FS1	<p>Clooncoose Lough is classified as a Mesotrophic Lake FL4 surrounded by Wet Grassland GS4, Conifer Plantation WD4 and Willow Scrub WS1. The lake was fringed with Reeds and Tall Herb Swamp FS1. An abundance of aquatic vegetation was present in the lake. The Wet Grassland habitat was species rich and included Tufted Hair Grass, Common Valerian and Meadow Thistle and some orchids (<i>Dactylorhiza</i> sp.) were also noted.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> </tr> </thead> <tbody> <tr><td><i>Alisma plantago aquatica</i></td><td>Common Water Plantain</td></tr> <tr><td><i>Cirsium dissectum</i></td><td>Meadow Thistle</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh Thistle</td></tr> <tr><td><i>Dactylorhiza</i> sp.</td><td>Orchids</td></tr> <tr><td><i>Deschampsia cespitosa</i></td><td>Tufted Hair Grass</td></tr> <tr><td><i>Equisetum</i> sp.</td><td>Horsetail</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh Bedstraw</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td></tr> <tr><td><i>Juncus inflexus</i></td><td>Hard Rush</td></tr> <tr><td><i>Lathyrus pratensis</i></td><td>Meadow Vetchling</td></tr> <tr><td><i>Menyanthes trifoliata</i></td><td>Bogbean</td></tr> <tr><td><i>Nuphar</i> sp.</td><td>Water Lilly</td></tr> <tr><td><i>Poa trivialis</i></td><td>Rough Meadow Grass</td></tr> <tr><td><i>Potamogeton</i> sp.</td><td>Pondweed</td></tr> <tr><td><i>Phragmites australis</i></td><td>Common Reed</td></tr> <tr><td><i>Ranunculus acris</i></td><td>Meadow Buttercup</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping Buttercup</td></tr> <tr><td><i>Rubus fruticosus</i> agg</td><td>Bramble</td></tr> <tr><td><i>Salix</i> sp.</td><td>Willow</td></tr> <tr><td><i>Senecio aquaticus</i></td><td>Marsh Ragwort</td></tr> <tr><td><i>Typha latifolia</i></td><td>Reedmace</td></tr> <tr><td><i>Ulex europaeus</i></td><td>Gorse</td></tr> <tr><td><i>Valeriana officinalis</i></td><td>Common Valerian</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	<i>Alisma plantago aquatica</i>	Common Water Plantain	<i>Cirsium dissectum</i>	Meadow Thistle	<i>Cirsium palustre</i>	Marsh Thistle	<i>Dactylorhiza</i> sp.	Orchids	<i>Deschampsia cespitosa</i>	Tufted Hair Grass	<i>Equisetum</i> sp.	Horsetail	<i>Galium palustre</i>	Marsh Bedstraw	<i>Holcus lanatus</i>	Yorkshire Fog	<i>Juncus conglomeratus</i>	Compact Rush	<i>Juncus effusus</i>	Soft Rush	<i>Juncus inflexus</i>	Hard Rush	<i>Lathyrus pratensis</i>	Meadow Vetchling	<i>Menyanthes trifoliata</i>	Bogbean	<i>Nuphar</i> sp.	Water Lilly	<i>Poa trivialis</i>	Rough Meadow Grass	<i>Potamogeton</i> sp.	Pondweed	<i>Phragmites australis</i>	Common Reed	<i>Ranunculus acris</i>	Meadow Buttercup	<i>Ranunculus flammula</i>	Lesser Spearwort	<i>Ranunculus repens</i>	Creeping Buttercup	<i>Rubus fruticosus</i> agg	Bramble	<i>Salix</i> sp.	Willow	<i>Senecio aquaticus</i>	Marsh Ragwort	<i>Typha latifolia</i>	Reedmace	<i>Ulex europaeus</i>	Gorse	<i>Valeriana officinalis</i>	Common Valerian
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<i>Menyanthes trifoliata</i>	Bogbean																																																							
<i>Nuphar</i> sp.	Water Lilly																																																							
<i>Poa trivialis</i>	Rough Meadow Grass																																																							
<i>Potamogeton</i> sp.	Pondweed																																																							
<i>Phragmites australis</i>	Common Reed																																																							
<i>Ranunculus acris</i>	Meadow Buttercup																																																							
<i>Ranunculus flammula</i>	Lesser Spearwort																																																							
<i>Ranunculus repens</i>	Creeping Buttercup																																																							
<i>Rubus fruticosus</i> agg	Bramble																																																							
<i>Salix</i> sp.	Willow																																																							
<i>Senecio aquaticus</i>	Marsh Ragwort																																																							
<i>Typha latifolia</i>	Reedmace																																																							
<i>Ulex europaeus</i>	Gorse																																																							
<i>Valeriana officinalis</i>	Common Valerian																																																							

Habitat Map



Legend

TARGET NOTES – ID No. 64

Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10
Surveyor: Jen Fisher		County name: Clare
1:2,500 Sheet no: 4210-d	Townland: Craggaunkeel	Grid Ref: 151950,181440
Target note no.: TN5		Area: 2.63ha
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats		

Habitat code
WN2

Oak Ash Hazel Woodland WN2 on Rocky Outcrops. This example of woodland is more natural and mature. This woodland habitat is limited in Ireland and is considered to be important for conservation.

Species List

Species (<i>Latin name</i>)	Species (common name)
<i>Acer pseudoplatanus</i>	Sycamore
<i>Aegopodium podagraria</i>	Ground Elder
<i>Arum maculatum</i>	Lord's & Ladies
<i>Brachypodium sylvaticum</i>	False Brome
<i>Carex remota</i>	Remote Sedge
<i>Corylus avellana</i>	Hazel
<i>Dryopteris filix-mas</i>	Male Fern
<i>Fagus sylvatica</i>	Beech
<i>Fraxinus excelsior</i>	Ash
<i>Geum urbanum</i>	Wood Avens
<i>Hedera helix</i>	Ivy
<i>Phyllitis scolopendrium</i>	Hart's Tongue
<i>Pinus sylvestris</i>	Scot's Pine
<i>Prunus spinosa</i>	Blackthorn
<i>Quercus sp.</i>	Oak
<i>Rubus fruticosus agg</i>	Bramble


Habitat Map

Legend

TARGET NOTES – ID No. 65																																		
Survey Title: Mid Clare Habitat Mapping		Survey date: 02/07/10																																
Surveyor: Jen Fisher		County name: Clare																																
1:2,500 Sheet no: 4211-a	Townland: Ayle Lower	Grid Ref: 153388, 183050																																
Target note no.: TN1		Area: 7.9ha																																
Ecological Value: High Ecological interest in a local context. Linked with the Annex I Habitat (EU Habitat Directive) 'Northern Atlantic Wet heaths with <i>Erica tetralix</i> (4010).																																		
Habitat code WD4/HH3	<p>Immature Conifer Plantation on Wet Heath. The habitat was quite open and large areas of heath remain intact. The habitat was dominated by Ling Heather and Bog Myrtle. The presence of Purple Moor Grass, Deer Grass and cross-leaved heath supported a classification of Wet Heath.</p> <p>This habitat is linked with the Annex I Habitat (EU Habitat Directive) 'Northern Atlantic Wet heaths with <i>Erica tetralix</i> (4010). This habitat is not likely to persist however due to the planting of young conifers in the recent past.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> </tr> </thead> <tbody> <tr> <td><i>Betula pubescens</i></td> <td>Downy Birch</td> </tr> <tr> <td><i>Calluna vulgaris</i></td> <td>Ling Heather</td> </tr> <tr> <td><i>Carex panicea</i></td> <td>Carnation Sedge</td> </tr> <tr> <td><i>Carex rostrata</i></td> <td>Bottle Sedge</td> </tr> <tr> <td><i>Cirsium</i> sp.</td> <td>Thistle</td> </tr> <tr> <td><i>Erica tetralix</i></td> <td>Cross-leaved Heath</td> </tr> <tr> <td><i>Eriophorum vaginatum</i></td> <td>Hare's-tail Cotton Sedge</td> </tr> <tr> <td><i>Festuca rubra</i></td> <td>Red Fescue</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor Grass</td> </tr> <tr> <td><i>Myrica gale</i></td> <td>Bog Myrtle</td> </tr> <tr> <td><i>Narthecium ossifragum</i></td> <td>Bog Asphodel</td> </tr> <tr> <td><i>Potentilla erecta</i></td> <td>Tormentil</td> </tr> <tr> <td><i>Salix</i> sp.</td> <td>Willow</td> </tr> <tr> <td><i>Succisa pratensis</i></td> <td>Devil's Bit Scabious</td> </tr> <tr> <td><i>Trichophorum cespitosum</i></td> <td>Deer Grass</td> </tr> </tbody> </table>		Species (Latin name)	Species (common name)	<i>Betula pubescens</i>	Downy Birch	<i>Calluna vulgaris</i>	Ling Heather	<i>Carex panicea</i>	Carnation Sedge	<i>Carex rostrata</i>	Bottle Sedge	<i>Cirsium</i> sp.	Thistle	<i>Erica tetralix</i>	Cross-leaved Heath	<i>Eriophorum vaginatum</i>	Hare's-tail Cotton Sedge	<i>Festuca rubra</i>	Red Fescue	<i>Molinia caerulea</i>	Purple Moor Grass	<i>Myrica gale</i>	Bog Myrtle	<i>Narthecium ossifragum</i>	Bog Asphodel	<i>Potentilla erecta</i>	Tormentil	<i>Salix</i> sp.	Willow	<i>Succisa pratensis</i>	Devil's Bit Scabious	<i>Trichophorum cespitosum</i>	Deer Grass
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Habitat Map**Legend****Photographic Record:**

Image 1: Overview of Wet Heath HH3 Habitat with planted Conifers


TARGET NOTES – ID No. 66																												
Survey Title: Mid Clare Habitat Mapping		Survey date: 02/07/10																										
Surveyor: Jen Fisher		County name: Clare																										
1:2,500 Sheet no: 4211-a	Townland: Lecarrow North	Grid Ref: 152785,182930																										
Target note no.: TN2		Area: 7.2ha																										
Ecological Value: Ecological Value: High Ecological interest in a local context. Linked with the Annex I Habitat (EU Habitat Directive) 'Northern Atlantic Wet heaths with <i>Erica tetralix</i> (4010).																												
Habitat code HH3	<p>Wet Heath HH3 Habitat which has become established on a large area of Cutover Bog PB4. The habitat was dominated by Ling Heather and Bog Myrtle. The presence of Purple Moor Grass, Deer Grass and cross-leaved heath supported a classification of Wet Heath. Large peat banks were present in the habitat. In several places excavated hollows supported a wetter assemblage of species. On dryer areas of habitat scrub such as gorse was abundant. This habitat is linked with the Annex I Habitat (EU Habitat Directive) 'Northern Atlantic Wet heaths with <i>Erica tetralix</i> (4010).</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><i>Species (Latin name)</i></th> <th style="text-align: left; padding: 5px;"><i>Species (common name)</i></th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Betula pubescens</i></td><td style="padding: 5px;">Downy Birch</td></tr> <tr><td style="padding: 5px;"><i>Calluna vulgaris</i></td><td style="padding: 5px;">Ling Heather</td></tr> <tr><td style="padding: 5px;"><i>Erica tetralix</i></td><td style="padding: 5px;">Cross-leaved Heath</td></tr> <tr><td style="padding: 5px;"><i>Eriophorum vaginatum</i></td><td style="padding: 5px;">Hare's-tail Cotton Sedge</td></tr> <tr><td style="padding: 5px;"><i>Festuca rubra</i></td><td style="padding: 5px;">Red Fescue</td></tr> <tr><td style="padding: 5px;"><i>Molinia caerulea</i></td><td style="padding: 5px;">Purple Moor Grass</td></tr> <tr><td style="padding: 5px;"><i>Narthecium ossifragum</i></td><td style="padding: 5px;">Bog Asphodel</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">Tormentil</td></tr> <tr><td style="padding: 5px;"><i>Pteridium aquilinum</i></td><td style="padding: 5px;">Bracken</td></tr> <tr><td style="padding: 5px;"><i>Sphagnum sp.</i></td><td style="padding: 5px;">Bog Moss</td></tr> <tr><td style="padding: 5px;"><i>Trichophorum cespitosum</i></td><td style="padding: 5px;">Deer Grass</td></tr> <tr><td style="padding: 5px;"><i>Ulex europaeus</i></td><td style="padding: 5px;">Gorse</td></tr> </tbody> </table>		<i>Species (Latin name)</i>	<i>Species (common name)</i>	<i>Betula pubescens</i>	Downy Birch	<i>Calluna vulgaris</i>	Ling Heather	<i>Erica tetralix</i>	Cross-leaved Heath	<i>Eriophorum vaginatum</i>	Hare's-tail Cotton Sedge	<i>Festuca rubra</i>	Red Fescue	<i>Molinia caerulea</i>	Purple Moor Grass	<i>Narthecium ossifragum</i>	Bog Asphodel	<i>Potentilla erecta</i>	Tormentil	<i>Pteridium aquilinum</i>	Bracken	<i>Sphagnum sp.</i>	Bog Moss	<i>Trichophorum cespitosum</i>	Deer Grass	<i>Ulex europaeus</i>	Gorse
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Habitat Map 																												

Legend

Photographic Record:



Image 1: Overview of Wet Heath HH3 Habitat on Cutover Bog PB4

TARGET NOTES – ID No. 67																														
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10																												
Surveyor: Jen Fisher		County name: Clare																												
1:2,500 Sheet no: 4211-c	Townland: Craggaunkeel	Grid Ref: 152600, 181560																												
Target note no.: TN1		Area: 18.93ha																												
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																														
Habitat code WN2	<p>Mature Oak Ash Hazel Woodland WN2 on shallow rocky mounds of limestone. Oak was the dominant species. Several well maintained roads intersect the woodland.</p> <p>This is a very nice example of this habitat type, this habitat is limited in Ireland and is considered to be of conservation importance.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Anthyrium filix femina</i></td><td style="padding: 5px;">Lady Fern</td></tr> <tr><td style="padding: 5px;"><i>Blechnum spicant</i></td><td style="padding: 5px;">Hard Fern</td></tr> <tr><td style="padding: 5px;"><i>Carex pendula</i></td><td style="padding: 5px;">Pendulous Sedge</td></tr> <tr><td style="padding: 5px;"><i>Carex sylvatica</i></td><td style="padding: 5px;">Wood Sedge</td></tr> <tr><td style="padding: 5px;"><i>Circaea lutetiana</i></td><td style="padding: 5px;">Enchanter's Nightshade</td></tr> <tr><td style="padding: 5px;"><i>Corylus avellana</i></td><td style="padding: 5px;">Hazel</td></tr> <tr><td style="padding: 5px;"><i>Deschampsia cespitosa</i></td><td style="padding: 5px;">Tufted Hair-grass</td></tr> <tr><td style="padding: 5px;"><i>Fagus sylvatica</i></td><td style="padding: 5px;">Beech</td></tr> <tr><td style="padding: 5px;"><i>Fraxinus excelsior</i></td><td style="padding: 5px;">Ash</td></tr> <tr><td style="padding: 5px;"><i>Geum urbanum</i></td><td style="padding: 5px;">Wood Avens</td></tr> <tr><td style="padding: 5px;"><i>Luzula sylvatica</i></td><td style="padding: 5px;">Great Wood Rush</td></tr> <tr><td style="padding: 5px;"><i>Quercus sp.</i></td><td style="padding: 5px;">Oak</td></tr> <tr><td style="padding: 5px;"><i>Salix sp.</i></td><td style="padding: 5px;">Willow</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	<i>Anthyrium filix femina</i>	Lady Fern	<i>Blechnum spicant</i>	Hard Fern	<i>Carex pendula</i>	Pendulous Sedge	<i>Carex sylvatica</i>	Wood Sedge	<i>Circaea lutetiana</i>	Enchanter's Nightshade	<i>Corylus avellana</i>	Hazel	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	<i>Fagus sylvatica</i>	Beech	<i>Fraxinus excelsior</i>	Ash	<i>Geum urbanum</i>	Wood Avens	<i>Luzula sylvatica</i>	Great Wood Rush	<i>Quercus sp.</i>	Oak	<i>Salix sp.</i>	Willow
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Habitat Map 																														
Legend																														

Photographic Record:

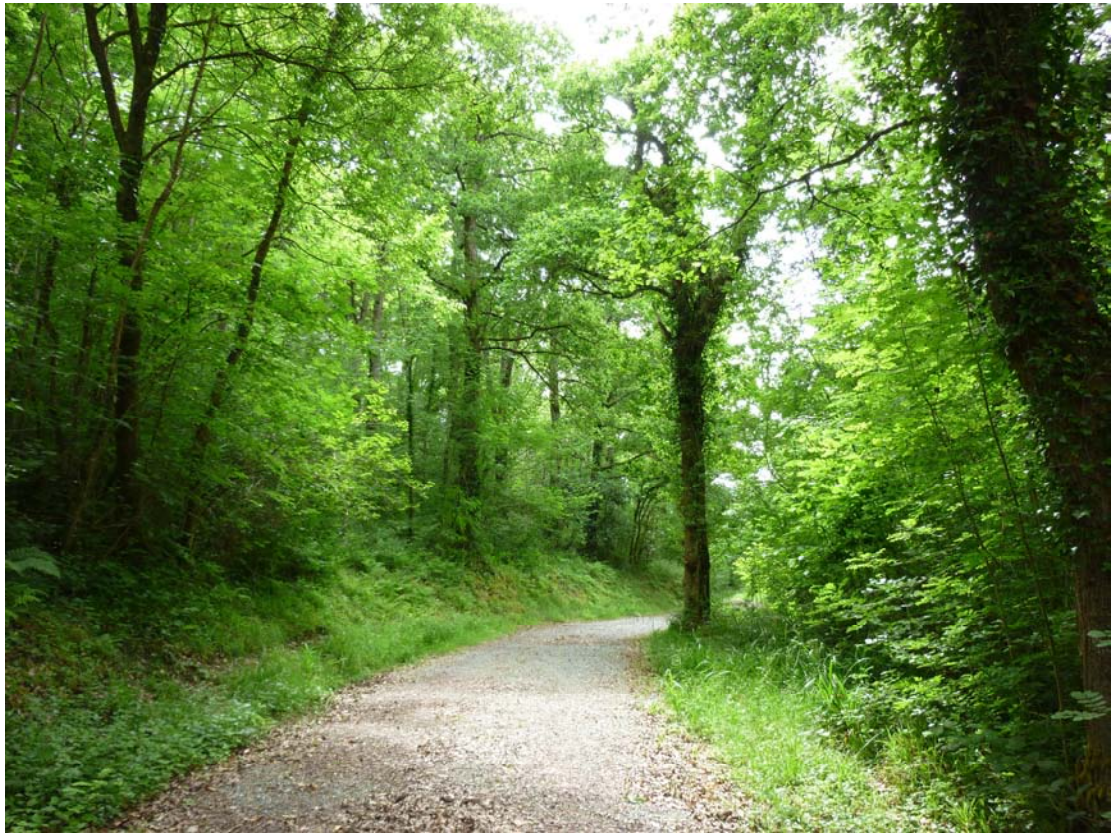


Image 1: Road through Mature Oak Ash Hazel Woodland WN2

TARGET NOTES – ID No. 68**Survey Title:** Mid Clare Habitat Mapping**Survey date:** 30/06/10**Surveyor:** Jen Fisher**County name:** Clare**1:2,500 Sheet no:** 4211-c**Townland:** Rosslara**Grid Ref:** 152620, 182310**Target note no.:** TN2**Area:** 23.93ha**Ecological Value:** **High** Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats**Habitat code**

FL4

Rosslara Lough is classified as a Large Mesotrophic Lake with extensive area of fringing Reed and Large Sedge Swamp FS1, and Wet Willow Alder Ash Woodland WN6. The reed beds were dominated by Common Reed and Bulrush. This is undoubtedly a valuable habitat for wildlife further enhanced by the extensive areas of woodland to the south of the lake. These wooded areas as well as being important habitats are valuable wildlife corridors.

The lake was evidently used for recreational purposes and a picnic table as well as a slip for boat launching was observed.

Species List


Species (<i>Latin name</i>)	Species (common name)
<i>Nuphar sp.</i>	Water Lilly
<i>Phragmites australis</i>	Common Reed
<i>Salix sp.</i>	Willow
<i>Schoenoplectus lacustris</i>	Bulrush
<i>Valeriana officinalis</i>	Common Valerian

Habitat Map**Legend**

Photographic Record:



Image 1: Rosslara Lough, Mesotrophic Lake FL4 with Water Lily *Nuphar lutea*

TARGET NOTES – ID No. 69		
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10
Surveyor: Jen Fisher		County name: Clare
1:2,500 Sheet no: 4211-c	Townland: Fontane More	Grid Ref: 153982, 181103
Target note no.: TN3		Area: 3.2ha
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats		
Habitat code WN2/WS1/ER2	Several fields with a mosaic of Ash Hazel Woodland WN2, Hazel Scrub on Exposed Calcareous Rock ER2, Improved Grassland GA1 and Neutral Grassland GS1. The field has been much improved in the past and a herd of cattle were present in the field during the survey. It is likely that this field was Calcareous Grassland GS1 in the past.	
Habitat Map 		
Legend		

Photographic Record:



Image 1: Hazel Scrub WS1

TARGET NOTES – ID No. 70																																																																																			
Survey Title: Mid Clare Habitat Mapping		Survey date: 01/07/10																																																																																	
Surveyor: Jen Fisher		County name: Clare																																																																																	
1:2,500 Sheet no: 4211-c	Townland: Mayfort	Grid Ref: 153000, 181495																																																																																	
Target note no.: TN4		Area: 4.4ha																																																																																	
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																																																			
Habitat code GS4/GS1/ WN7/ FL4/ FW4	<p>A mosaic of several habitats in the vicinity of Castle Lough. The habitat may be subject to seasonal flooding. The habitat had been grazed in the past and was heavily poached and uneven. A very large Drainage Ditch FL4 intersects the habitat.</p> <p>A large area of woodland to the west of the habitat has been best classified as Bog Woodland WN7 and was composed of Birch and Willow.</p> <p>Castle Lough is classified as a Mesotrophic lake and is surrounded by a large area of Reed and large Sedge Swamp FS1, Willow Scrub WS1, and Wet Grassland GS4. Access was difficult at this site.</p> <p>Species List GS4/GS1</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Alopecurus geniculatus</i></td><td>Marsh Foxtail</td><td>F</td></tr> <tr><td><i>Anagallis tenella</i></td><td>Bog Pimpernel</td><td>O</td></tr> <tr><td><i>Anthoxanthem odoratum</i></td><td>Sweet Vernal Grass</td><td>O</td></tr> <tr><td><i>Arrhenatherum elatius</i></td><td>False Oat Grass</td><td>F</td></tr> <tr><td><i>Briza media</i></td><td>Quaking Grass</td><td>F</td></tr> <tr><td><i>Carex ovalis</i></td><td>Oval Sedge</td><td>O</td></tr> <tr><td><i>Carex paniculata</i></td><td>Greater Tussock Sedge</td><td>O</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh Thistle</td><td>O</td></tr> <tr><td><i>Cyanosurus cristatus</i></td><td>Crested Dog's-tail</td><td>F</td></tr> <tr><td><i>Dactylorhiza</i> sp.</td><td>Orchid</td><td>O</td></tr> <tr><td><i>Deschampsia cespitosa</i></td><td>Tufted Hair-grass</td><td>O</td></tr> <tr><td><i>Epilobium hirsutum</i></td><td>Great Willowherb</td><td>O</td></tr> <tr><td><i>Equisetum</i> sp.</td><td>Horsetail</td><td>F</td></tr> <tr><td><i>Festuca rubra</i></td><td>Red Fescue</td><td>A</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>F</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh Bedstraw</td><td>O</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>F</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>A</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>A</td></tr> <tr><td><i>Juncus inflexus</i></td><td>Hard Rush</td><td>D</td></tr> <tr><td><i>Lathyrus pratensis</i></td><td>Meadow Vetchling</td><td>O</td></tr> <tr><td><i>Leucanthemum vulgare</i></td><td>Ox-eye Daisy</td><td>O</td></tr> <tr><td><i>Lolium perenne</i></td><td>Perennial Rye Grass</td><td>O</td></tr> <tr><td><i>Odontites verna</i></td><td>Red Bartsia</td><td>O</td></tr> <tr><td><i>Plantago lanceolata</i></td><td>Ribwort Plantain</td><td>O</td></tr> <tr><td><i>Poa trivialis</i></td><td>Rough Meadow Grass</td><td>F</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR Scale	<i>Alopecurus geniculatus</i>	Marsh Foxtail	F	<i>Anagallis tenella</i>	Bog Pimpernel	O	<i>Anthoxanthem odoratum</i>	Sweet Vernal Grass	O	<i>Arrhenatherum elatius</i>	False Oat Grass	F	<i>Briza media</i>	Quaking Grass	F	<i>Carex ovalis</i>	Oval Sedge	O	<i>Carex paniculata</i>	Greater Tussock Sedge	O	<i>Cirsium palustre</i>	Marsh Thistle	O	<i>Cyanosurus cristatus</i>	Crested Dog's-tail	F	<i>Dactylorhiza</i> sp.	Orchid	O	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	O	<i>Epilobium hirsutum</i>	Great Willowherb	O	<i>Equisetum</i> sp.	Horsetail	F	<i>Festuca rubra</i>	Red Fescue	A	<i>Filipendula ulmaria</i>	Meadowsweet	F	<i>Galium palustre</i>	Marsh Bedstraw	O	<i>Holcus lanatus</i>	Yorkshire Fog	F	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A	<i>Juncus conglomeratus</i>	Compact Rush	A	<i>Juncus inflexus</i>	Hard Rush	D	<i>Lathyrus pratensis</i>	Meadow Vetchling	O	<i>Leucanthemum vulgare</i>	Ox-eye Daisy	O	<i>Lolium perenne</i>	Perennial Rye Grass	O	<i>Odontites verna</i>	Red Bartsia	O	<i>Plantago lanceolata</i>	Ribwort Plantain	O	<i>Poa trivialis</i>	Rough Meadow Grass	F
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<i>Anagallis tenella</i>	Bog Pimpernel	O																																																																																	
<i>Anthoxanthem odoratum</i>	Sweet Vernal Grass	O																																																																																	
<i>Arrhenatherum elatius</i>	False Oat Grass	F																																																																																	
<i>Briza media</i>	Quaking Grass	F																																																																																	
<i>Carex ovalis</i>	Oval Sedge	O																																																																																	
<i>Carex paniculata</i>	Greater Tussock Sedge	O																																																																																	
<i>Cirsium palustre</i>	Marsh Thistle	O																																																																																	
<i>Cyanosurus cristatus</i>	Crested Dog's-tail	F																																																																																	
<i>Dactylorhiza</i> sp.	Orchid	O																																																																																	
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	O																																																																																	
<i>Epilobium hirsutum</i>	Great Willowherb	O																																																																																	
<i>Equisetum</i> sp.	Horsetail	F																																																																																	
<i>Festuca rubra</i>	Red Fescue	A																																																																																	
<i>Filipendula ulmaria</i>	Meadowsweet	F																																																																																	
<i>Galium palustre</i>	Marsh Bedstraw	O																																																																																	
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<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A																																																																																	
<i>Juncus conglomeratus</i>	Compact Rush	A																																																																																	
<i>Juncus inflexus</i>	Hard Rush	D																																																																																	
<i>Lathyrus pratensis</i>	Meadow Vetchling	O																																																																																	
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	O																																																																																	
<i>Lolium perenne</i>	Perennial Rye Grass	O																																																																																	
<i>Odontites verna</i>	Red Bartsia	O																																																																																	
<i>Plantago lanceolata</i>	Ribwort Plantain	O																																																																																	
<i>Poa trivialis</i>	Rough Meadow Grass	F																																																																																	

<i>Potentilla erecta</i>	Tormentil	F
<i>Ranunculus flammula</i>	Lesser Spearwort	F
<i>Ranunculus repens</i>	Creeping Buttercup	F
<i>Rumex acetosa</i>	Common Sorrel	O
<i>Rumex crispus</i>	Curled Dock	O
<i>Triglochin palustris</i>	Marsh Arrowgrass	O
<i>Urtica dioica</i>	Nettle	O
<i>Valeriana officinalis</i>	Common Valerian	O
<i>Veronica beccabunga</i>	Brooklime	O

Species List Bog Woodland WN7

Species (Latin name)	Species (common name)
<i>Betula pubescens</i>	Downy Birch
<i>Salix sp.</i>	Willow

Species List Mesotrophic Lake FL4


Species (Latin name)	Species (common name)
<i>Carex paniculata</i>	Greater Tussock Sedge
<i>Iris pseudacorus</i>	Yellowflag
<i>Juncus acutiflorus</i>	Sharp-flowered Rush
<i>Juncus conglomeratus</i>	Compact Rush
<i>Phragmites australis</i>	Common Reed
<i>Schoenoplectus lacustris</i>	Bulrush
<i>Typha latifolia</i>	Reedmace
<i>Valeriana officinalis</i>	Common Valerian

Habitat Map**Legend**

Photographic Record:



Image 1: View of Wet Grassland GS4 from Drainage Ditch FW4

TARGET NOTES – ID No. 71																				
Survey Title: Mid Clare Habitat Mapping		Survey date: 01/07/10																		
Surveyor: Jen Fisher		County name: Clare																		
1:2,500 Sheet no: 4211-c	Townland: Mayford	Grid Ref: 152584, 181684																		
Target note no.: TN6		Area: 2.3ha																		
Ecological Value: Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																				
Habitat code FL4/ FS1	<p>Lough is classified as a Mesotrophic lake FL4 and is surrounded by Reed and Large Sedge Swamps FS1, Broadleaf Woodland WD1, Conifer Plantation WD4, Wet Grassland GS4 and Scrub WS1.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Equisetum sp.</i></td><td style="padding: 5px;">Horsetail</td></tr> <tr><td style="padding: 5px;"><i>Iris pseudacorus</i></td><td style="padding: 5px;">Yellowflag</td></tr> <tr><td style="padding: 5px;"><i>Menyanthes trifoliata</i></td><td style="padding: 5px;">Bogbean</td></tr> <tr><td style="padding: 5px;"><i>Nuphar sp.</i></td><td style="padding: 5px;">Water Lilly</td></tr> <tr><td style="padding: 5px;"><i>Phragmites australis</i></td><td style="padding: 5px;">Common Reed</td></tr> <tr><td style="padding: 5px;"><i>Shoenoplectus lacustris</i></td><td style="padding: 5px;">Bulrush</td></tr> <tr><td style="padding: 5px;"><i>Typha latifolia</i></td><td style="padding: 5px;">Reedmace</td></tr> <tr><td style="padding: 5px;"><i>Valeriana officinalis</i></td><td style="padding: 5px;">Common Valerian</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	<i>Equisetum sp.</i>	Horsetail	<i>Iris pseudacorus</i>	Yellowflag	<i>Menyanthes trifoliata</i>	Bogbean	<i>Nuphar sp.</i>	Water Lilly	<i>Phragmites australis</i>	Common Reed	<i>Shoenoplectus lacustris</i>	Bulrush	<i>Typha latifolia</i>	Reedmace	<i>Valeriana officinalis</i>	Common Valerian
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<i>Valeriana officinalis</i>	Common Valerian																			
Habitat Map 																				
Legend																				

Photographic Record:



Image 1: Reed and Large Sedge Swamps FS1

TARGET NOTES – ID No. 72																																																																				
Survey Title: Mid Clare Habitat Mapping		Survey date: 01/07/10																																																																		
Surveyor: Jen Fisher		County name: Clare																																																																		
1:2,500 Sheet no: 4211-c	Townland: Rosslara	Grid Ref: 153720,182100																																																																		
Target note no.: TN5		Area: 18.94ha																																																																		
Ecological Value: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120), Depressions on peat substrates of the Rhynchosporion (7150) and																																																																				
Habitat code PB4/WS1/FL2	<p>This is a large area of old Cutover Bog PB4 and the habitat is in mid succession from heath to woodland with an interesting composition of species. Cusack's Lough is in the middle of the habitat and is classified as an Acid Oligotrophic Lake FL2.</p> <p>Some areas to the north are dominated by Purple Moor Grass; however for the most part the habitat is dominated by Heather and Bog Myrtle.</p> <p>Numerous invading immature Birch and Willow saplings as well as gorse Scrub WS1 were present in the habitat. Several semi-mature Scot's Pine were also noted. The terrain was very uneven and access was difficult. No grazing or management was apparent.</p> <p>The habitat was surrounded by immature broadleaf woodland the boundaries of which were estimated using aerial photography.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Betula pubescens</i></td><td>Downy Birch</td><td>F</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation Sedge</td><td>A</td></tr> <tr><td><i>Carex paniculata</i></td><td>Greater Tussock Sedge</td><td>O</td></tr> <tr><td><i>Calluna vulgaris</i></td><td>Ling Heather</td><td>D</td></tr> <tr><td><i>Epilobium sp.</i></td><td>Willowherb</td><td>O</td></tr> <tr><td><i>Festuca rubra</i></td><td>Red Fescue</td><td>O</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>F</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>O</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>F</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>F</td></tr> <tr><td><i>Lathyrus pratensis</i></td><td>Meadow Vetchling</td><td>O</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor Grass</td><td>D</td></tr> <tr><td><i>Myrica gale</i></td><td>Bog Myrtle</td><td>A</td></tr> <tr><td><i>Pinus sylvestris</i></td><td>Scot's Pine</td><td>F</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>O</td></tr> <tr><td><i>Potentilla palustris</i></td><td>Marsh Cinquefoil</td><td>O</td></tr> <tr><td><i>Rubus fruticosus agg</i></td><td>Bramble</td><td>F</td></tr> <tr><td><i>Salix sp.</i></td><td>Willow</td><td>F</td></tr> <tr><td><i>Ulex europaeus</i></td><td>Gorse</td><td>F</td></tr> <tr><td><i>Valeriana officinalis</i></td><td>Common Valerian</td><td>F</td></tr> <tr><td><i>Vicia cracca</i></td><td>Tufted Vetch</td><td>F</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Betula pubescens</i>	Downy Birch	F	<i>Carex panicea</i>	Carnation Sedge	A	<i>Carex paniculata</i>	Greater Tussock Sedge	O	<i>Calluna vulgaris</i>	Ling Heather	D	<i>Epilobium sp.</i>	Willowherb	O	<i>Festuca rubra</i>	Red Fescue	O	<i>Filipendula ulmaria</i>	Meadowsweet	F	<i>Holcus lanatus</i>	Yorkshire Fog	O	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	F	<i>Juncus conglomeratus</i>	Compact Rush	F	<i>Lathyrus pratensis</i>	Meadow Vetchling	O	<i>Molinia caerulea</i>	Purple Moor Grass	D	<i>Myrica gale</i>	Bog Myrtle	A	<i>Pinus sylvestris</i>	Scot's Pine	F	<i>Potentilla erecta</i>	Tormentil	O	<i>Potentilla palustris</i>	Marsh Cinquefoil	O	<i>Rubus fruticosus agg</i>	Bramble	F	<i>Salix sp.</i>	Willow	F	<i>Ulex europaeus</i>	Gorse	F	<i>Valeriana officinalis</i>	Common Valerian	F	<i>Vicia cracca</i>	Tufted Vetch	F
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Habitat Map**Legend****Photographic Record:**

Image 1: *Molinia* dominated grassland to the north of the site



Image 2: Scrub WS1 and Mature Scots Pine

TARGET NOTES – ID No. 73

Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10
Surveyor: Jen Fisher		County name: Clare
1:2,500 Sheet no: 4211-c	Townland: Craggaunkeel	Grid Ref: 152182, 182626
Target note no.: TN7		Area: 0.9ha

Ecological Value: **High** ecological interest in a local context. Linked to Annex I habitat 7210 Calcareous Fens with *Cladium mariscus* and species of the *Caricion davallianae*

Habitat code FL4/FS1/ PF1	Craggaunkeel Lough is a small Mesotrophic Lake FL4 and an abundance of aquatic vegetation was recorded in and around the lake, comprising Reed and large Sedge Swamp FS1 and Rich Fen and Flush PF1. Beyond the wetland habitats the lake is entirely surrounded by Broadleaf Woodland WD1, Conifer Plantation WD4 and Scrub WS1																	
	<p>The fringing wetlands are linked with the Annex I Habitat (EU Habitat Directive) 7210 Calcareous Fen</p> <p>Species List</p> <table> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (<i>common name</i>)</th></tr> <tr> <td><i>Cladium mariscus</i></td><td>Great Fen Sedge</td></tr> <tr> <td><i>Equisetum sp.</i></td><td>Horsetail</td></tr> <tr> <td><i>Iris pseudacorus</i></td><td>Yellowflag</td></tr> <tr> <td><i>Nuphar sp.</i></td><td>Water Lilly</td></tr> <tr> <td><i>Phalaris arundinacea</i></td><td>Reed-Canary Grass</td></tr> <tr> <td><i>Potamogeton sp.</i></td><td>Pondweed</td></tr> <tr> <td><i>Schoenoplectus lacustris</i></td><td>Bulrush</td></tr> <tr> <td><i>Typha latifolia</i></td><td>Reedmace</td></tr> </table>	Species (<i>Latin name</i>)	Species (<i>common name</i>)	<i>Cladium mariscus</i>	Great Fen Sedge	<i>Equisetum sp.</i>	Horsetail	<i>Iris pseudacorus</i>	Yellowflag	<i>Nuphar sp.</i>	Water Lilly	<i>Phalaris arundinacea</i>	Reed-Canary Grass	<i>Potamogeton sp.</i>	Pondweed	<i>Schoenoplectus lacustris</i>	Bulrush	<i>Typha latifolia</i>
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Habitat Map



Legend

Photographic Record:



Image 1: Craggaunkeel Lough

TARGET NOTES – ID No. 74																																																																				
Survey Title: Mid Clare Habitat mapping		Survey date: 07/07/10																																																																		
Surveyor: Shane O'Neill		County name: Clare																																																																		
1:2,500 Sheet no: 4211-d	Townland: Ballynahinch	Grid Ref: 155136, 181250																																																																		
Target note no.: TN1		Area: 13ha																																																																		
Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to Priority Habitat, ‘ bog woodland (91D0) ’, ‘ active raised bogs (7110) ’ and ‘ Degraded raised bogs still capable of natural regeneration ’.																																																																				
Habitat code PB4/PB1/ WN7/HD1/ FW4	Area of Raised Bog (PB1) which has been cutover around the edges. Peat depth in the intact area is approximately 2 metres, as seen from peat banks. The intact area has been subject to extensive drainage works, with Drainage Ditches (FW4) criss-crossing the site.																																																																			
	On the cutover area to the west the vegetation is dominated by Purple Moor-grass (<i>Molinia caerulea</i>), with Bracken (<i>Pteridium aquilinum</i>), Bog Myrtle (<i>Myrica gale</i>) and Downy Birch (<i>Betula pubescens</i>). Patches of Bog Woodland (WN7) and Dense Bracken (HD1) occur on the northern, eastern and southern sides. Rhododendron is starting to spread in to the bog on all sides but it is most prevalent on the eastern side.																																																																			
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Habitat Map**Legend**

TARGET NOTES – ID No. 75																																																																													
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10																																																																											
Surveyor: John Curtin		County name: Clare																																																																											
1:2,500 Sheet no: 4212-a	Townland: Ross	Grid Ref: 157220, 182968																																																																											
Target note no.: TN1		Area: 1.9ha																																																																											
Ecological Interest: Moderate ecological interest in a local context.																																																																													
Habitat code	<p>Species-diverse Marsh GM1 bordering the Cloghaun river. The field is hummocky with some poaching from horses. Drains are present throughout the area.</p> <p>Rushes and sedges dominate. Species include Sedges (<i>Carex panicea</i>, <i>Carex viridula</i>), Purple Moor-grass (<i>Molinia caerulea</i>), Lesser spearwort (<i>Ranunculus flammula</i>), Marsh-bedstraw (<i>Galium palustre</i>) and Water Mint (<i>Mentha aquatica</i>).</p> <p>Areas of exposed limestone are to be found to the west (TN3) indicating that the ground water may be base-rich. Study area is surrounded by wet grasslands.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr><td><i>Cardamine pratensis</i></td><td>Lady's Smock</td><td>Occasional</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex hirta</i></td><td>Hairy Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Frequent</td></tr> <tr><td><i>Carex viridula</i></td><td>Yellow Sedge</td><td>Occasional</td></tr> <tr><td><i>Cirsium paluste</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Occasional</td></tr> <tr><td><i>Deschampsia flexuosa</i></td><td>Wavy Hair-grass</td><td>Occasional</td></tr> <tr><td><i>Eriophorum vaginatum</i></td><td>Hare's-tail Cottongrass</td><td>Occasional</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Occasional</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact rush</td><td>Occasional</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Abundant</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Occasional</td></tr> <tr><td><i>Mentha aquatica</i></td><td>Water Mint</td><td>Occasional</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Occasional</td></tr> <tr><td><i>Mysotis sp.</i></td><td>Forget-me-not</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Occasional</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser spearwort</td><td>Occasional</td></tr> <tr><td><i>Rumex sp</i></td><td>Sorrel sp</td><td>Occasional</td></tr> <tr><td><i>Taraxacum sp</i></td><td>Dandelion sp</td><td>Occasional</td></tr> <tr><td><i>Trifolium repens</i></td><td>White clover</td><td>Occasional</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Cardamine pratensis</i>	Lady's Smock	Occasional	<i>Carex echinata</i>	Star Sedge	Occasional	<i>Carex hirta</i>	Hairy Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Frequent	<i>Carex viridula</i>	Yellow Sedge	Occasional	<i>Cirsium paluste</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Occasional	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Occasional	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Juncus conglomeratus</i>	Compact rush	Occasional	<i>Juncus effusus</i>	Soft Rush	Abundant	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Occasional	<i>Mysotis sp.</i>	Forget-me-not	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus flammula</i>	Lesser spearwort	Occasional	<i>Rumex sp</i>	Sorrel sp	Occasional	<i>Taraxacum sp</i>	Dandelion sp	Occasional	<i>Trifolium repens</i>	White clover	Occasional
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<i>Trifolium repens</i>	White clover	Occasional																																																																											

Habitat Map**Legend**

TARGET NOTES – ID No. 76		
Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10
Surveyor: John Curtin		County name: Clare
1:2,500 Sheet no: 4212-a	Townland: Drumminnav	Grid Ref: 156519, 182782
Target note no.: TN2		Area: 0.8ha
Ecological Interest: Moderate ecological interest in a local context.		
Habitat code GS4	Peaty wet grassland with some fen characteristics. Sward height of approx 2ft.	
	Species List	
	Species (<i>Latin name</i>)	Species (common name)
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
	<i>Bryophyte</i>	Moss spp
	<i>Carex</i> spp.	Sedges
	<i>Cirsium palustre</i>	Marsh-thistle
	<i>Filipendula ulmaria</i>	Meadowsweet
	<i>Holcus lanatus</i>	Yorkshire Fog
	<i>Juncus articulatus</i>	Jointed Rush
	<i>Lotus pendunculatus</i>	Greater Birds-foot-trefoil
	<i>Luzula sylvatica</i>	Wood-rush, great
	<i>Plantago lanceolata</i>	Ribwort Plantain
	<i>Poa</i> sp	Meadow-grass
	<i>Rumex</i> sp	Sorrel sp
	<i>Stellaria media</i>	Common Chickweed
	<i>Taraxacum</i> sp	Dandelion sp
<i>Trifolium repens</i>	White clover	

Habitat Map



Legend

TARGET NOTES – ID No. 77

Survey Title: Mid Clare Habitat Mapping		Survey date: 30/06/10																																	
Surveyor: John Curtin		County name: Clare																																	
1:2,500 Sheet no: 4212-a	Townland: Annagh/Drumminnav	Grid Ref: 156265, 182797																																	
Target note no.: TN3		Area: 7.1ha																																	
Ecological Interest: High ecological interest in a national context. Although this habitat type is not linked to any Annex I habitat, it is very limited in extent in Ireland and is therefore of high conservation importance.																																			
Habitat code WN2	<p>Ash woodland with exposed limestone. Slight karst appearance with a high proportion of moss species. Ash (<i>Fraxinus excelsior</i>) dominates the canopy with frequent Hawthorn (<i>Crataegus monogyna</i>) in the sub-canopy layer.</p> <p>This habitat forms a mosaic with Dry Neutral and Calcareous Grassland (GS1) and Scrub (WS1).</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> </thead> <tbody> <tr> <td><i>Arum maculatum</i></td><td>Lord and Ladies</td><td>Occasional</td></tr> <tr> <td><i>Bryophyte</i></td><td>Moss spp</td><td>Abundant</td></tr> <tr> <td><i>Crataegus monogyna</i></td><td>Hawthorn</td><td>Frequent</td></tr> <tr> <td><i>Fraxinus excelsior</i></td><td>Ash</td><td>Dominant (Canopy)</td></tr> <tr> <td><i>Geranium robertianum</i></td><td>Herb Robert</td><td>Frequent</td></tr> <tr> <td><i>Hedera helix</i></td><td>Ivy</td><td>Frequent</td></tr> <tr> <td><i>Orchidaceae</i></td><td>Orchid (In fruit)</td><td>Rare</td></tr> <tr> <td><i>Prunus spinosa</i></td><td>Blackthorn</td><td>Occasional</td></tr> <tr> <td><i>Rubus fruticosus</i> agg.</td><td>Bramble</td><td>Occasional</td></tr> <tr> <td><i>Viola</i> sp</td><td>Violet sp</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Arum maculatum</i>	Lord and Ladies	Occasional	<i>Bryophyte</i>	Moss spp	Abundant	<i>Crataegus monogyna</i>	Hawthorn	Frequent	<i>Fraxinus excelsior</i>	Ash	Dominant (Canopy)	<i>Geranium robertianum</i>	Herb Robert	Frequent	<i>Hedera helix</i>	Ivy	Frequent	<i>Orchidaceae</i>	Orchid (In fruit)	Rare	<i>Prunus spinosa</i>	Blackthorn	Occasional	<i>Rubus fruticosus</i> agg.	Bramble	Occasional	<i>Viola</i> sp	Violet sp	Occasional
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Habitat Map



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Surveyor: John Curtin		County name: Clare																																																												
1:2,500 Sheet no: 4212-a	Townland: Drumminnav	Grid Ref: 157020, 182899																																																												
Target note no.: TN4		Area: 0.67ha																																																												
Habitat code PF1	<p>Rich Fen and Flush habitat on peaty substrate near the Cloghaun river. Sedges and rushes dominate, with Silverweed (<i>Potentilla anserina</i>) and Watermint (<i>Mentha aquatica</i>) frequent. There is a patch of Willow (<i>Salix</i>) scrub to the east of this area, adjacent to a drainage ditch. A species of Spotted-Orchid (<i>Dactylorhiza</i> sp.) was recorded at this site.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Anthoxanthum odoratum</i></td><td style="padding: 5px;">Sweet Vernal-grass</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Carex echinata</i></td><td style="padding: 5px;">Star Sedge</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Carex nigra</i></td><td style="padding: 5px;">Common Sedge</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Carex panicea</i></td><td style="padding: 5px;">Carnation sedge</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Carex viridula</i></td><td style="padding: 5px;">Yellow sedge</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Cirsium paluste</i></td><td style="padding: 5px;">Marsh-thistle</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Dactylorhiza</i> sp.</td><td style="padding: 5px;">Orchid</td><td style="padding: 5px;">Rare</td></tr> <tr><td style="padding: 5px;"><i>Galium palustre</i></td><td style="padding: 5px;">Marsh-bedstraw</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Juncus articulatus</i></td><td style="padding: 5px;">Jointed Rush</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Mentha aquatica</i></td><td style="padding: 5px;">Water Mint</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Plantago lanceolata</i></td><td style="padding: 5px;">Ribwort Plantain</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Potentilla anserina</i></td><td style="padding: 5px;">Silverweed</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">Tormentil</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Potentilla palustris</i></td><td style="padding: 5px;">Marsh Cinquefoil</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Ranunculus flamula</i></td><td style="padding: 5px;">Lesser spearwort</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Ranunculus repens</i></td><td style="padding: 5px;">Creeping buttercup</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Salix</i> sp</td><td style="padding: 5px;">Willow</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Trifolium repens</i></td><td style="padding: 5px;">White clover</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Frequent	<i>Carex viridula</i>	Yellow sedge	Frequent	<i>Cirsium paluste</i>	Marsh-thistle	Occasional	<i>Dactylorhiza</i> sp.	Orchid	Rare	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Juncus articulatus</i>	Jointed Rush	Abundant	<i>Mentha aquatica</i>	Water Mint	Frequent	<i>Plantago lanceolata</i>	Ribwort Plantain	Frequent	<i>Potentilla anserina</i>	Silverweed	Frequent	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Potentilla palustris</i>	Marsh Cinquefoil	Occasional	<i>Ranunculus flamula</i>	Lesser spearwort	Frequent	<i>Ranunculus repens</i>	Creeping buttercup	Frequent	<i>Salix</i> sp	Willow	Occasional	<i>Trifolium repens</i>	White clover	Occasional
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Habitat Map**Legend**

TARGET NOTES – ID No. 79																																																														
Survey Title: Mid Clare Habitat Mapping		Survey date: 01/07/10																																																												
Surveyor: John Curtin		County name: Clare																																																												
1:2,500 Sheet no: 4212-a	Townland: Derrynaheila	Grid Ref: 157567, 183547																																																												
Target note no.: TN5		Area: 1.4ha																																																												
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120), Depressions on peat substrates of the Rhynchosporion (7150) and Annex 1 Priority Habitat *Active raised bogs (7110)																																																														
Habitat code PB1/WS1/GS4	Section of active raised bog to the south west of the main bog (TN6). Drains occur throughout this area. Much of surrounding area has been reclaimed. A recently bulldozed area to the south may be classified as Recolonising bare ground (ED3). Active work is ongoing in the surrounding area with mini-digger.																																																													
	This habitat grades into Gorse (<i>Ulex</i>) scrub (WS1) to the north and east and Wet grassland (GS4) to the west.																																																													
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Habitat Map



Legend

TARGET NOTES – ID No. 80																																									
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Surveyor: John Curtin		County name: Clare																																							
1:2,500 Sheet no: 4212-a	Townland: Derrynaheila	Grid Ref: 157687, 183819																																							
Target note no.: TN6		Area: 4.3ha																																							
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120), Depressions on peat substrates of the Rhynchosporion (7150) and Annex 1 Priority Habitat *Active raised bogs (7110)																																									
Habitat code PB1	Raised bog which appears active – Sphagnum mosses occur throughout the site. Sward height of up to 1.5 ft.																																								
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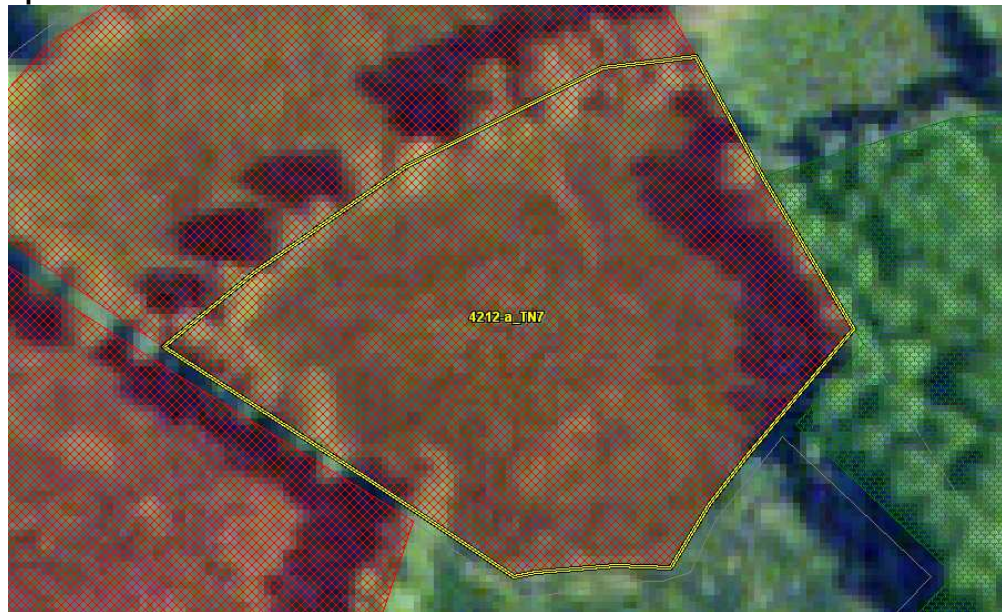
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Surveyor: John Curtin		County name: Clare																																																																																			
1:2,500 Sheet no: 4212-a	Townland: Derrynaheila	Grid Ref: 157400, 183834																																																																																			
Target note no.: TN7		Area: 0.5ha																																																																																			
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																																																					
Habitat code GS4/PF1	Species-rich Wet grassland (GS4), with fen (PF1) characteristics and occasional limestone outcropping. Wet grassland species include Meadowsweet (<i>Filipendula ulmaria</i>), Silverweed (<i>Potentilla anserina</i>) and Creeping Buttercup (<i>Ranunculus repens</i>). Species associated with Fen habitats present on the site include; Marsh Cinquefoil (<i>Potentilla palustris</i>), Purple moor-grass (<i>Molinia caerulea</i>) and Great Wood-rush (<i>Luzula sylvatica</i>).																																																																																				
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Habitat Map



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Surveyor: John Curtin		County name: Clare																																																									
1:2,500 Sheet no: 4212-a	Townland: Ross	Grid Ref: 156967, 183584																																																									
Target note no.: TN8		Area: 2.8ha																																																									
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																											
Habitat code	Mosaic habitat of Dry neutral and calcareous grassland (GS1) with limestone outcropping (ER2) and scrub (WS1).																																																										
GS1/ ER2/WS1	<p>The grassland had a short sward and contained species such as; Yarrow (<i>Achillea millefolium</i>), Bird's-foot Trefoil (<i>Lotus corniculatus</i>.) and Quaking-grass (<i>Briza media</i>). Scrub present was dominated by Bramble (<i>Rubus fruticosus</i>), Hawthorn (<i>Crataegus monogyna</i>) and Hazel (<i>Corylus avellana</i>).</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Leucanthemum vulgare</i></td> <td>Ox-eye Daisy</td> <td>Occasional</td> </tr> <tr> <td><i>Achillea millefolium</i></td> <td>Yarrow</td> <td>Frequent</td> </tr> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Frequent</td> </tr> <tr> <td><i>Briza media</i></td> <td>Quaking-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Cirsium sp</i></td> <td>Thistle</td> <td>Occasional</td> </tr> <tr> <td><i>Corylus avellana</i></td> <td>Hazel</td> <td>Frequent</td> </tr> <tr> <td><i>Crataegus monogyna</i></td> <td>Hawthorn</td> <td>Frequent</td> </tr> <tr> <td><i>Cynosurus cristatus</i></td> <td>Crested Dogs-tail</td> <td>Occasional</td> </tr> <tr> <td><i>Arrhenatherum elatius</i></td> <td>False Oat-grass</td> <td>Frequent</td> </tr> <tr> <td><i>Juncus effusus</i></td> <td>Soft Rush</td> <td>Occasional</td> </tr> <tr> <td><i>Lolium perenne</i></td> <td>Rye-grass, perennial</td> <td>Occasional</td> </tr> <tr> <td><i>Lotus corniculatus</i></td> <td>Birds-foot-trefoil</td> <td>Frequent</td> </tr> <tr> <td><i>Plantago lanceolata</i></td> <td>Ribwort Plantain</td> <td>Abundant</td> </tr> <tr> <td><i>Prunella vulgaris</i></td> <td>Self-heal</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Occasional</td> </tr> <tr> <td><i>Rubus fruticosus</i></td> <td>Bramble</td> <td>Frequent</td> </tr> <tr> <td><i>Trifolium pratense</i></td> <td>Red Clover</td> <td>Occasional</td> </tr> <tr> <td><i>Trifolium repens</i></td> <td>White clover</td> <td>Frequent</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Occasional	<i>Achillea millefolium</i>	Yarrow	Frequent	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Briza media</i>	Quaking-grass	Occasional	<i>Cirsium sp</i>	Thistle	Occasional	<i>Corylus avellana</i>	Hazel	Frequent	<i>Crataegus monogyna</i>	Hawthorn	Frequent	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional	<i>Arrhenatherum elatius</i>	False Oat-grass	Frequent	<i>Juncus effusus</i>	Soft Rush	Occasional	<i>Lolium perenne</i>	Rye-grass, perennial	Occasional	<i>Lotus corniculatus</i>	Birds-foot-trefoil	Frequent	<i>Plantago lanceolata</i>	Ribwort Plantain	Abundant	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Rubus fruticosus</i>	Bramble	Frequent	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Trifolium repens</i>	White clover	Frequent
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Habitat Map



Legend

TARGET NOTES – ID No. 83			
Survey Title: Mid Clare Habitat Mapping			Survey date: 02/07/10
Surveyor: John Curtin			County name: Clare
1:2,500 Sheet no: 4212-a		Townland: Ross	Grid Ref: 157935, 183389
Target note no.: TN9		Area: 1.1ha	
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinia caerulea</i>) (6410)			
Habitat code	Interesting grassland bordering a large section of raised bog/ cutover bog to east. Wettest to the north towards road. Burnt remains of bramble (<i>Rubus fruticosus</i>) and gorse (<i>Ulex</i>) can be seen throughout indicating some management or, indeed, mis-management by indiscriminate burning. <i>Molinia</i> tussocks dominate. <i>Molinia</i> responds to burning by increasing in abundance since its growing points are protected from the fire deep within the tussock.		
GS4	Species List		
	Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale
	<i>Angelica sylvestris</i>	Wild Angelica	Frequent
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent
	<i>Carex hostiana</i>	Tawny sedge	Frequent
	<i>Carex pendula</i>	Pendulous Sedge	Occasional
	<i>Carex pulicaris</i>	Flea Sedge	Occasional
	<i>Cirsium palustre</i>	Marsh-thistle	Occasional
	<i>Dactylis glomerata</i>	Cocksfoot	Occasional
	<i>Dactylorhiza sp.</i>	Orchid	Occasional
	<i>Deschampsia flexuosa</i>	Hair-grass, wavy	Occasional
	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent
	<i>Galium palustre</i>	Marsh-bedstraw	Occasional
	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional
	<i>Iris pseudacorus</i>	Yellow Iris	Frequent
	<i>Juncus articulatus</i>	Jointed Rush	Frequent
	<i>Lotus pendunculatus</i>	Greater Birds-foot-trefoil	Frequent
	<i>Luzula multiflora</i>	Heath Woodrush	Occasional
	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant
	<i>Poa sp</i>	Meadow-grass	Occasional
	<i>Potentilla erecta</i>	Tormentil	Frequent
	<i>Rubus fruticosus</i>	Bramble	Occasional
	<i>Salix</i>	Willow	Occasional
	<i>Taraxacum sp</i>	Dandelion sp	Occasional
	<i>Trifolium pratense</i>	Red Clover	Occasional
	<i>Vicia cracca</i>	Tufted Vetch	Occasional

Habitat Map



Legend

TARGET NOTES – ID No. 84																																																																																									
Survey Title: Mid Clare Habitat Mapping		Survey date: 02/07/10																																																																																							
Surveyor: John Curtin		County name: Clare																																																																																							
1:2,500 Sheet no: 4212-a	Townland: Ross	Grid Ref: 157950, 183261																																																																																							
Target note no.: TN10		Area: 2.3ha																																																																																							
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) (6410)																																																																																									
Habitat code	Large, diverse wet grassland bordering the Cloghaun river. Lies adjacent to large raised bog/ cutover bog the East. This habitat grades into drier grassland to the south east.																																																																																								
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Habitat Map



Legend

TARGET NOTES – ID No. 85																																																								
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Surveyor: John Curtin		County name: Clare																																																						
1:2,500 Sheet no: 4212-a	Townland: Ross	Grid Ref: 157838, 182797																																																						
Target note no.: TN11		Area: 1.2ha																																																						
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinia caerulea</i>) (6410)																																																								
Habitat code GS4	Species-rich Wet Grassland near the Cloughaun river. Purple Moor-grass (<i>Molinia caerulea</i>) dominates. Cocks-foot (<i>Dactylis glomerata</i>) and Orchids (<i>Dactylorhiza</i> sp) are occasionally to be found.																																																							
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<i>Rumex</i> sp	Sorrel sp	Occasional																																																						
<i>Stellaria media</i>	Common Chickweed	Occasional																																																						
<i>Vicia</i> sp	Vetch	Occasional																																																						

Habitat Map



Legend

TARGET NOTES – ID No. 86																																																																																												
Survey Title: Mid Clare Habitat Mapping		Survey date: 05/07/10																																																																																										
Surveyor: John Curtin		County name: Clare																																																																																										
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 156260, 183860																																																																																										
Target note no.: TN1		Area: 12.62ha																																																																																										
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>) (6410)																																																																																												
Habitat code GS4	<p><i>Molinia</i> dominated wet grassland that may have been bog in the past, located on the southern banks of the Cloghaun river. A large area of cutover Raised Bog PB1 with some intact bog lies to the east. To the southwest lies large areas of diverse wet grasslands (see Target Notes 4212-a_TN9 and TN10) can also be found. This site supports a diverse plant community including; Lesser Butterfly Orchid (<i>Platanthera bifolia</i>), Marsh Cinquefoil, (<i>Potentilla palustris</i>) and Branched Bur-reed (<i>Sparganium erectum</i>.)</p> <p>Species List</p> <table> <tr> <th>Species (<i>Latin name</i>)</th><th>Species (common name)</th><th>DAFOR Scale</th></tr> <tr><td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Occasional</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation sedge</td><td>Frequent</td></tr> <tr><td><i>Cirsium dissectum</i></td><td>Meadow-thistle</td><td>Occasional</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Occasional</td></tr> <tr><td><i>Deschampsia flexuosa</i></td><td>Wavy Hair- grass</td><td>Frequent</td></tr> <tr><td><i>Eleocharis sp</i></td><td>Spike-rush</td><td>Occasional</td></tr> <tr><td><i>Equisetum sp</i></td><td>Horsetail</td><td>Occasional</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Frequent</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Heracleum sphondylium</i></td><td>Hogweed</td><td>Rare</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Iris pseudacorus</i></td><td>Yellow Iris</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Abundant</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Occasional</td></tr> <tr><td><i>Lotus pendunculatus</i></td><td>Greater Birds-foot-trefoil</td><td>Occasional</td></tr> <tr><td><i>Mentha aquatica</i></td><td>Water Mint</td><td>Occasional</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Dominant</td></tr> <tr><td><i>Platanthera bifolia</i></td><td>Lesser butterfly orchid</td><td>Rare</td></tr> <tr><td><i>Potentilla anserina</i></td><td>Silverweed</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Potentilla palustris</i></td><td>Marsh Cinquefoil</td><td>Occasional</td></tr> <tr><td><i>Quercus sp</i></td><td>Oak</td><td>Rare</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping buttercup</td><td>Rare</td></tr> <tr><td><i>Rumex sp</i></td><td>Sorrel sp</td><td>Occasional</td></tr> <tr><td><i>Salix sp</i></td><td>Willow</td><td>Occasional</td></tr> <tr><td><i>Sparganium erectum</i></td><td>Branched Bur-reed</td><td>Occasional</td></tr> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Carex nigra</i>	Common Sedge	Occasional	<i>Carex panicea</i>	Carnation sedge	Frequent	<i>Cirsium dissectum</i>	Meadow-thistle	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Deschampsia flexuosa</i>	Wavy Hair- grass	Frequent	<i>Eleocharis sp</i>	Spike-rush	Occasional	<i>Equisetum sp</i>	Horsetail	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Heracleum sphondylium</i>	Hogweed	Rare	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Iris pseudacorus</i>	Yellow Iris	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Abundant	<i>Juncus effusus</i>	Soft Rush	Occasional	<i>Lotus pendunculatus</i>	Greater Birds-foot-trefoil	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Dominant	<i>Platanthera bifolia</i>	Lesser butterfly orchid	Rare	<i>Potentilla anserina</i>	Silverweed	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Potentilla palustris</i>	Marsh Cinquefoil	Occasional	<i>Quercus sp</i>	Oak	Rare	<i>Ranunculus repens</i>	Creeping buttercup	Rare	<i>Rumex sp</i>	Sorrel sp	Occasional	<i>Salix sp</i>	Willow	Occasional	<i>Sparganium erectum</i>	Branched Bur-reed	Occasional
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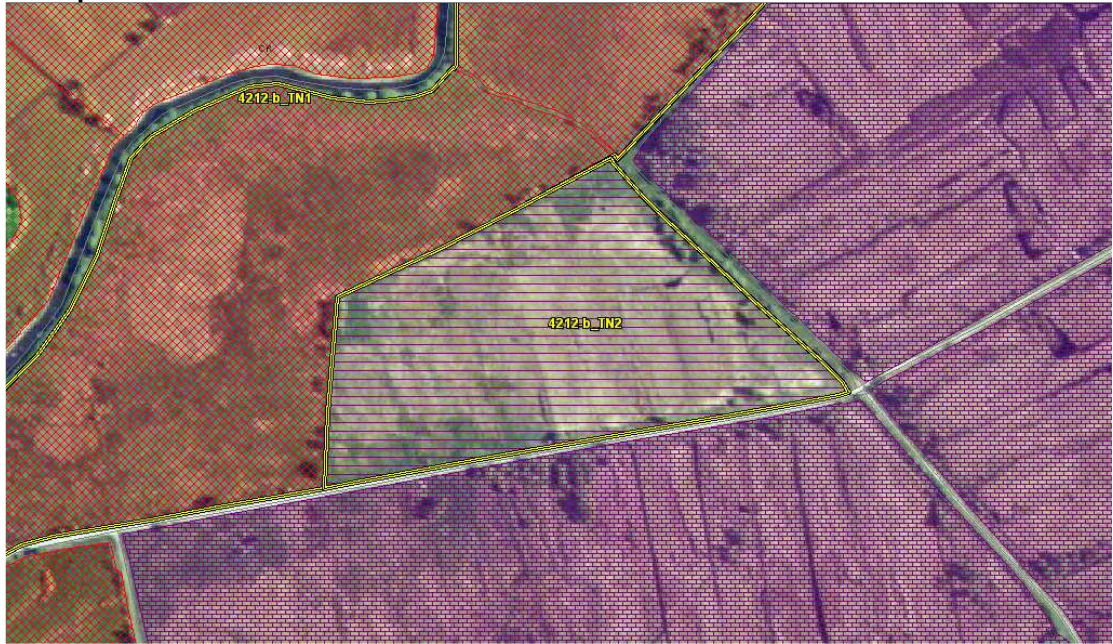
Habitat Map**Legend**

Image 1: Lesser Butterfly Orchid (*Platanthera bifolia*)



Image 2: Overview of Wet Grassland Habitat GS4 on banks of Cloghaun River

TARGET NOTES – ID No. 87																																																																
Survey Title: Mid Clare Habitat Mapping		Survey date: 05/07/10																																																														
Surveyor: John Curtin		County name: Clare																																																														
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 158420, 183730																																																														
Target note no.: TN2		Area: 3.6ha																																																														
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120) and Annex 1 Priority Habitat *Active raised bogs (7110)																																																																
Habitat code PB1	<p>Small section of Raised Bog PB1, which has been subject to some peat cutting and recent burning, represented by burnt Willow (<i>Salix</i>) and Ling heather (<i>Calluna vulgaris</i>). The bog is active however, with <i>Sphagnum</i> hummocks and mosses dominating the ground layer. Purple Moor-grass (<i>Molinia caerulea</i>) is dominant and Lesser Butterfly Orchids (<i>Platanthera bifolia</i>) were also recorded.</p>																																																															
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Habitat Map**Legend**

TARGET NOTES – ID No. 88																																																																							
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Surveyor: John Curtin		County name: Clare																																																																					
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 158930, 183620																																																																					
Target note no.: TN3		Area: 95.12ha																																																																					
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitats Degraded raised bogs still capable of natural regeneration (7120) and Annex 1 Priority Habitat Bog woodland (91D0)																																																																							
Habitat code PB4/ WN7	<p>A large area of Cutover Bog PB4. Burnt willow (<i>Salix</i>) saplings show some recent mis-management. Patches of Bog woodland (WN7) lie to the east and west with a small section of Dense Bracken (HD1) adjacent. Active cutting is occurring to the south.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Frequent</td></tr> <tr><td><i>Calluna vulgaris</i></td><td>Ling</td><td>Occasional</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex hostiana</i></td><td>Tawny Sedge</td><td>Occasional</td></tr> <tr><td><i>Carex viridula</i></td><td>Yellow Sedge</td><td>Occasional</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Rare</td></tr> <tr><td><i>Epilobium sp</i></td><td>Willowherb</td><td>Occasional</td></tr> <tr><td><i>Erica cinerea</i></td><td>Heather, bell</td><td>Occasional</td></tr> <tr><td><i>Erica tetralix</i></td><td>Heath, cross-leaved</td><td>Occasional</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Occasional</td></tr> <tr><td><i>Hypericum pulcrum</i></td><td>Slender St. John's-wort</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Luzula sylvatica</i></td><td>Great Wood-rush</td><td>Occasional</td></tr> <tr><td><i>Mentha aquatica</i></td><td>Water Mint</td><td>Occasional</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Abundant</td></tr> <tr><td><i>Poa sp</i></td><td>Meadow-grass</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Pteridium</i></td><td>Bracken</td><td>Frequent</td></tr> <tr><td><i>Rubus fruticosus</i></td><td>Bramble</td><td>Occasional</td></tr> <tr><td><i>Ulex sp</i></td><td>Gorse</td><td>Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Frequent	<i>Calluna vulgaris</i>	Ling	Occasional	<i>Carex echinata</i>	Star Sedge	Occasional	<i>Carex hostiana</i>	Tawny Sedge	Occasional	<i>Carex viridula</i>	Yellow Sedge	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Rare	<i>Epilobium sp</i>	Willowherb	Occasional	<i>Erica cinerea</i>	Heather, bell	Occasional	<i>Erica tetralix</i>	Heath, cross-leaved	Occasional	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Occasional	<i>Hypericum pulcrum</i>	Slender St. John's-wort	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Luzula sylvatica</i>	Great Wood-rush	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Poa sp</i>	Meadow-grass	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Pteridium</i>	Bracken	Frequent	<i>Rubus fruticosus</i>	Bramble	Occasional	<i>Ulex sp</i>	Gorse	Occasional
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Habitat Map**Legend**

Image 1: Overview of Cutover Bog PB4 with heaps of cut turf and dense bracken to the foreground

TARGET NOTES – ID No.'s 89a & 89b																																																											
Survey Title: Mid Clare Habitat Mapping		Survey date: 05/07/10																																																									
Surveyor: John Curtin		County name: Clare																																																									
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 159460, 184000 158520, 183160																																																									
Target note no.: TN4		Area: 15ha																																																									
Ecological Interest: High ecological interest in a national context. Linked to Annex 1 habitat Degraded raised bogs still capable of natural regeneration (7120), Depressions on peat substrates of the Rhynchosporion (7150) and Annex 1 Priority Habitat *Active raised bogs (7110)																																																											
Habitat code PB1	<p>Two areas of intact Raised Bog PB1 which are located within a larger area of Cutover Bog PB4 (see 4212-b_TN3) which is being actively cut. Some burning has also occurred on the southern end of the site. Peat depths of at least 3m are evident on some cut banks.</p> <p>Typical species found include Ling (<i>Calluna vulgaris</i>), Cross-leaved Heather (<i>Erica tetralix</i>), Deergrass (<i>Trichophorum cespitosum</i>), Peat-moss (<i>Sphagnum</i>), Bog Asphodel (<i>Narthecium ossifragum</i>), Sundew (<i>Drosera sp</i>) and White Beak-sedge (<i>Rhynchospora alba</i>). The sward height is approximately 1-2ft.</p> <p>This area of bog has been drained and cut away at the edges and so drainage has been altered significantly. As a result the main area of intact bog has dried out somewhat and contains very little Bog Moss (<i>Sphagnum</i> spp.) and there are some patches of bare peat.</p> <p>Due to the lack of peat-forming species such as Bog Mosses, this area of bog is probably inactive. Nevertheless, due to the severe depletion of this Annex I habitat type in Ireland, the area is still considered to be of high conservation value in an international context.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Andromeda polifolia</i></td> <td>Bog-rosemary</td> <td>Occasional</td> </tr> <tr> <td><i>Calluna vulgaris</i></td> <td>Ling</td> <td>Abundant</td> </tr> <tr> <td><i>Carex panicea</i></td> <td>Carnation sedge</td> <td>Occasional</td> </tr> <tr> <td><i>Cladonia</i></td> <td>Cup Lichen</td> <td>Frequent</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Spotted-Orchid sp.</td> <td>Frequent</td> </tr> <tr> <td><i>Drosera intermedia</i></td> <td>Oblong-leaved Sundew</td> <td>Frequent</td> </tr> <tr> <td><i>Drosera rotundifolia</i></td> <td>Round-leaved Sundew</td> <td>Frequent</td> </tr> <tr> <td><i>Erica cinerea</i></td> <td>Bell Heather</td> <td>Abundant</td> </tr> <tr> <td><i>Erica tetralix</i></td> <td>Heath, cross-leaved</td> <td>Abundant</td> </tr> <tr> <td><i>Eriophorum angustifolium</i></td> <td>Common Cottongrass</td> <td>Occasional</td> </tr> <tr> <td><i>Eriophorum vaginatum</i></td> <td>Hares-tail Cottongrass</td> <td>Occasional</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Nardus stricta</i></td> <td>Mat-grass</td> <td>Frequent</td> </tr> <tr> <td><i>Narthecium ossifragum</i></td> <td>Bog asphodel</td> <td>Frequent</td> </tr> <tr> <td><i>Osmunda regalis</i></td> <td>Royal fern</td> <td>Occasional</td> </tr> <tr> <td><i>Rhynchospora alba</i></td> <td>White Beak-sedge</td> <td>Frequent</td> </tr> <tr> <td><i>Sphagnum sp</i></td> <td>Peat moss</td> <td>Frequent</td> </tr> <tr> <td><i>Trichophorum cespitosum</i></td> <td>Deergrass</td> <td>Frequent</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Andromeda polifolia</i>	Bog-rosemary	Occasional	<i>Calluna vulgaris</i>	Ling	Abundant	<i>Carex panicea</i>	Carnation sedge	Occasional	<i>Cladonia</i>	Cup Lichen	Frequent	<i>Dactylorhiza sp.</i>	Spotted-Orchid sp.	Frequent	<i>Drosera intermedia</i>	Oblong-leaved Sundew	Frequent	<i>Drosera rotundifolia</i>	Round-leaved Sundew	Frequent	<i>Erica cinerea</i>	Bell Heather	Abundant	<i>Erica tetralix</i>	Heath, cross-leaved	Abundant	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Eriophorum vaginatum</i>	Hares-tail Cottongrass	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Occasional	<i>Nardus stricta</i>	Mat-grass	Frequent	<i>Narthecium ossifragum</i>	Bog asphodel	Frequent	<i>Osmunda regalis</i>	Royal fern	Occasional	<i>Rhynchospora alba</i>	White Beak-sedge	Frequent	<i>Sphagnum sp</i>	Peat moss	Frequent	<i>Trichophorum cespitosum</i>	Deergrass	Frequent
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Habitat Map**Legend**

Image1: Peat harvesting ongoing within the bog.



Image 2: Intact Raised Bog to the background with bare peat banks showing extent of cutting.



Image 3: *Rhynchospora alba* present in areas of Cutover and Intact areas of the Raised Bog PB1.

TARGET NOTES – ID No. 90																																															
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Surveyor: John Curtin		County name: Clare																																													
1:2,500 Sheet no: 4212-b	Townland: Clonmoher	Grid Ref: 158320,182820																																													
Target note no.: TN5		Area: 5.34ha																																													
Ecological Interest: High ecological interest in a local context. Linked to Annex 1 habitats and Degraded raised bogs still capable of natural regeneration (7120), Depressions on peat substrates of the Rhynchosporion (7150), and Annex 1 Priority Habitat Bog woodland (91D0)																																															
Habitat code PB1/ PB4/ WN7	<p>This area has been cut for peat in the past; however there is good <i>Sphagnum</i> growth alongside typical bog species. Quiet even topography under foot. To the north are elevated sections dominated by Dense Bracken HD1. To the northwest and south are areas of Bog Woodland WD7. On other sides the site is surrounded by wet grasslands. Site is located just to the south of large areas of Raised Bog PB1 that is significantly cut over.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Cirsium dissectum</i></td> <td>Meadow-thistle</td> <td>Occasional</td> </tr> <tr> <td><i>Cirsium paluste</i></td> <td>Marsh-thistle</td> <td>Occasional</td> </tr> <tr> <td><i>Dactylorhiza sp.</i></td> <td>Orchid</td> <td>Occasional</td> </tr> <tr> <td><i>Equisetum sp</i></td> <td>Horsetail</td> <td>Occasional</td> </tr> <tr> <td><i>Erica tetralix</i></td> <td>Heath, cross-leaved</td> <td>Abundant</td> </tr> <tr> <td><i>Galium palustre</i></td> <td>Marsh-bedstraw</td> <td>Occasional</td> </tr> <tr> <td><i>Menyanthes trifoliata</i></td> <td>Bogbean</td> <td>Occasional</td> </tr> <tr> <td><i>Molinia caerulea</i></td> <td>Purple Moor-grass</td> <td>Abundant</td> </tr> <tr> <td><i>Narthecium ossifragum</i></td> <td>Bog asphodel</td> <td>Frequent</td> </tr> <tr> <td><i>Potentilla erecta</i></td> <td>Tormentil</td> <td>Abundant</td> </tr> <tr> <td><i>Potentilla palustris</i></td> <td>Marsh Cinquefoil</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Occasional</td> </tr> <tr> <td><i>Sphagnum sp</i></td> <td>Peat moss</td> <td>Abundant</td> </tr> <tr> <td><i>Trichophorum cespitosum</i></td> <td>Deergrass</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Cirsium dissectum</i>	Meadow-thistle	Occasional	<i>Cirsium paluste</i>	Marsh-thistle	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Occasional	<i>Equisetum sp</i>	Horsetail	Occasional	<i>Erica tetralix</i>	Heath, cross-leaved	Abundant	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Menyanthes trifoliata</i>	Bogbean	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Abundant	<i>Narthecium ossifragum</i>	Bog asphodel	Frequent	<i>Potentilla erecta</i>	Tormentil	Abundant	<i>Potentilla palustris</i>	Marsh Cinquefoil	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Sphagnum sp</i>	Peat moss	Abundant	<i>Trichophorum cespitosum</i>	Deergrass	Occasional
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Habitat Map**Legend**

Image 1: Cutover Raised Bog PB1 with Bog Woodland WN7 to the south

TARGET NOTES – ID No. 91																																																																						
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Surveyor: John Curtin		County name: Clare																																																																				
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 158280, 183090																																																																				
Target note no.: TN6		Area: 3.3ha																																																																				
Ecological Interest: High ecological interest in a local/national context. Linked to Annex 1 habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinia caerulea</i>) (6410)																																																																						
Habitat code GS4/ GS2/ HD1/ WS1/ WD3/ WN7	<p>This habitat is classified as Wet Grassland GS4, however the species recorded correspond to the Annex I Habitat <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinia caerulea</i>) (6410). This wet meadow is slightly elevated at the edges and grades into Bracken (HD1), Scrub (WS1) and Mixed Conifer Woodland (WD3) to the north west and Bog Woodland (WN7) to the south east.</p> <p>The sward height within the grassland is approximately 2-4ft and is dominated by Purple Moor-grass (<i>Molinia caerulea</i>). Sedges (<i>Carex pendula</i> and <i>Carex vesicaria</i>), Rush (<i>Juncus articulatus</i>) and Tormantil (<i>Potentilla erecta</i>) are also common throughout the site. Cocks-foot (<i>Dactylis glomerata</i>) and Yorkshire Fog (<i>Holcus lanatus</i>) also occur where the grassland grades into Dry meadows and Grassy Verges GS2.</p> <p>Occasional limestone outcroppings (ER2) are also present. These contain small herbaceous plants such as Birds-foot-trefoil (<i>Lotus corniculatus</i>) and Wild Thyme (<i>Thymus polytrichus</i>). Hawthorn (<i>Crataegus monogyna</i>) is located near these limestone outcrops.</p>																																																																					
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	<i>Thymus polytrichus</i>	Wild Thyme	Occasional
	<i>Trifolium pratense</i>	Red Clover	Occasional

Habitat Map



Legend



Image 1: Overview of *Molinia* dominated Wet Grassland GS4



Image 2: Limestone Outcrop

TARGET NOTES – ID No. 92																																																																																			
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Surveyor: John Curtin		County name: Clare																																																																																	
1:2,500 Sheet no: 4212-b	Townland: Coolreagh	Grid Ref: 159710, 182970																																																																																	
Target note no.: TN7		Area: 1.9ha																																																																																	
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to an Annex I Habitats																																																																																			
Habitat code GS4	<p>Diverse Wet Grassland GS4. Quite poor connectivity with golf course to the North and improved agricultural grasslands on other sides. Lies in a depression. Marsh (GM1) area separates golf course with site. Orchids (<i>Dactylorhiza sp</i>) present in large numbers.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Agrostis sp</i></td><td>Bent grass</td><td>Occasional</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal-grass</td><td>Occasional</td></tr> <tr><td><i>Briza media</i></td><td>Quaking-grass</td><td>Occasional</td></tr> <tr><td><i>Bryophyte</i></td><td>Moss</td><td>Occasional</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh-thistle</td><td>Occasional</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dogs-tail</td><td>Occasional</td></tr> <tr><td><i>Dactylorhiza sp.</i></td><td>Orchid</td><td>Frequent</td></tr> <tr><td><i>Equisetum sp</i></td><td>Horsetail</td><td>Occasional</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>Frequent</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh-bedstraw</td><td>Occasional</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>Frequent</td></tr> <tr><td><i>Iris pseudacorus</i></td><td>Yellow Iris</td><td>Occasional</td></tr> <tr><td><i>Juncus articulatus</i></td><td>Jointed Rush</td><td>Frequent</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>Abundant</td></tr> <tr><td><i>Lolium perenne</i></td><td>Rye-grass, perennial</td><td>Occasional</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Greater Birds-foot-trefoil</td><td>Frequent</td></tr> <tr><td><i>Mysotis sp</i></td><td>Forget-me-not</td><td>Occasional</td></tr> <tr><td><i>Plantago lanceolata</i></td><td>Ribwort Plantain</td><td>Frequent</td></tr> <tr><td><i>Potentilla anserina</i></td><td>Silverweed</td><td>Frequent</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Self-heal</td><td>Occasional</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping buttercup</td><td>Occasional</td></tr> <tr><td><i>Rumex sp</i></td><td>Sorrel sp</td><td>Frequent</td></tr> <tr><td><i>Stellaria media</i></td><td>Common Chickweed</td><td>Occasional</td></tr> <tr><td><i>Trifolium pratense</i></td><td>Red Clover</td><td>Occasional</td></tr> <tr><td><i>Trifolium repens</i></td><td>White clover</td><td>Frequent</td></tr> <tr><td><i>Vicia cracca</i></td><td>Tufted Vetch</td><td>Frequent</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Agrostis sp</i>	Bent grass	Occasional	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Briza media</i>	Quaking-grass	Occasional	<i>Bryophyte</i>	Moss	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Occasional	<i>Cynosurus cristatus</i>	Crested Dogs-tail	Occasional	<i>Dactylorhiza sp.</i>	Orchid	Frequent	<i>Equisetum sp</i>	Horsetail	Occasional	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Iris pseudacorus</i>	Yellow Iris	Occasional	<i>Juncus articulatus</i>	Jointed Rush	Frequent	<i>Juncus effusus</i>	Soft Rush	Abundant	<i>Lolium perenne</i>	Rye-grass, perennial	Occasional	<i>Lotus pedunculatus</i>	Greater Birds-foot-trefoil	Frequent	<i>Mysotis sp</i>	Forget-me-not	Occasional	<i>Plantago lanceolata</i>	Ribwort Plantain	Frequent	<i>Potentilla anserina</i>	Silverweed	Frequent	<i>Prunella vulgaris</i>	Self-heal	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Rumex sp</i>	Sorrel sp	Frequent	<i>Stellaria media</i>	Common Chickweed	Occasional	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Trifolium repens</i>	White clover	Frequent	<i>Vicia cracca</i>	Tufted Vetch	Frequent
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Habitat Map



Legend

TARGET NOTES – ID No. 93																																																											
Survey Title: Mid Clare Habitat Mapping		Survey date: 06/07/10																																																									
Surveyor: John Curtin		County name: Clare																																																									
1:2,500 Sheet no: 4212-c	Townland: Kilnoe	Grid Ref: 157991, 181158																																																									
Target note no.: TN1		Area: 2.1ha																																																									
Ecological Interest: High Ecological Importance in a local context. This habitat does not correspond to an Annex I Habitats																																																											
Habitat code GS4	<p>Wet grassland surrounding an abandoned house. The land rises from this area to the west and east. Some Willows (<i>Salix</i> spp.) trees are present. The land is grazed occasionally, and there are some signs of poaching.</p> <p>The area contains occasional Spotted-Orchids (<i>Dactylorhiza</i> sp) and St. John's-wort (<i>Hypericum</i> sp).</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin</i> name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr> <td><i>Anthoxanthum odoratum</i></td> <td>Sweet Vernal-grass</td> <td>Occasional</td> </tr> <tr> <td><i>Cirsium palustre</i></td> <td>Marsh-thistle</td> <td>Frequent</td> </tr> <tr> <td><i>Conopodium majus</i></td> <td>Pignut</td> <td>Occasional</td> </tr> <tr> <td><i>Dactylorhiza</i> sp.</td> <td>Orchid</td> <td>Occasional</td> </tr> <tr> <td><i>Equisetum</i> sp</td> <td>Horsetail</td> <td>Frequent</td> </tr> <tr> <td><i>Filipendula ulmaria</i></td> <td>Meadowsweet</td> <td>Frequent</td> </tr> <tr> <td><i>Galium palustre</i></td> <td>Marsh-bedstraw</td> <td>Occasional</td> </tr> <tr> <td><i>Holcus lanatus</i></td> <td>Yorkshire Fog</td> <td>Frequent</td> </tr> <tr> <td><i>Hypericum</i> sp.</td> <td>St. Johns-wort</td> <td>Occasional</td> </tr> <tr> <td><i>Juncus effusus</i></td> <td>Soft Rush</td> <td>Abundant</td> </tr> <tr> <td><i>Lathyrus pratensis</i></td> <td>Meadow-vetchling</td> <td>Occasional</td> </tr> <tr> <td><i>Mentha aquatica</i></td> <td>Water Mint</td> <td>Occasional</td> </tr> <tr> <td><i>Potentilla anserina</i></td> <td>Silverweed</td> <td>Occasional</td> </tr> <tr> <td><i>Ranunculus repens</i></td> <td>Creeping buttercup</td> <td>Occasional</td> </tr> <tr> <td><i>Rumex</i> sp</td> <td>Sorrel sp</td> <td>Frequent</td> </tr> <tr> <td><i>Salix</i> sp</td> <td>Willow</td> <td>Frequent</td> </tr> <tr> <td><i>Trifolium repens</i></td> <td>White clover</td> <td>Frequent</td> </tr> <tr> <td><i>Vicia cracca</i></td> <td>Tufted Vetch</td> <td>Occasional</td> </tr> </tbody> </table>		Species (<i>Latin</i> name)	Species (common name)	DAFOR Scale	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Occasional	<i>Cirsium palustre</i>	Marsh-thistle	Frequent	<i>Conopodium majus</i>	Pignut	Occasional	<i>Dactylorhiza</i> sp.	Orchid	Occasional	<i>Equisetum</i> sp	Horsetail	Frequent	<i>Filipendula ulmaria</i>	Meadowsweet	Frequent	<i>Galium palustre</i>	Marsh-bedstraw	Occasional	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Hypericum</i> sp.	St. Johns-wort	Occasional	<i>Juncus effusus</i>	Soft Rush	Abundant	<i>Lathyrus pratensis</i>	Meadow-vetchling	Occasional	<i>Mentha aquatica</i>	Water Mint	Occasional	<i>Potentilla anserina</i>	Silverweed	Occasional	<i>Ranunculus repens</i>	Creeping buttercup	Occasional	<i>Rumex</i> sp	Sorrel sp	Frequent	<i>Salix</i> sp	Willow	Frequent	<i>Trifolium repens</i>	White clover	Frequent	<i>Vicia cracca</i>	Tufted Vetch	Occasional
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Habitat Map**Legend**

TARGET NOTES – ID No. 94																																															
Survey Title: Mid Clare Habitat Mapping		Survey date: 06/07/10																																													
Surveyor: John Curtin		County name: Clare																																													
1:2,500 Sheet no: 4212-c	Townland: Kilhoe	Grid Ref: 156477, 181199																																													
Target note no.: TN2		Area: 1.1ha																																													
Ecological Interest: Moderate ecological interest in a local context																																															
Habitat code ED3	<p>Recolonising bare ground (ED3) with an unusual species composition. More herbaceous plants are present in the sward than grasses. Sward height ranges from 1-4ft. Nettle (<i>Urtica dioica</i>) and bindweeds (<i>Calystegia sp</i>) are frequent. Land does not look like it has been recently managed.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Calystegia sp</i></td><td style="padding: 5px;">Bindweed</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Chamerion angustifolium</i></td><td style="padding: 5px;">Rosebay Willowherb</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Dactylis glomerata</i></td><td style="padding: 5px;">Cocks-foot</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Equisetum sp</i></td><td style="padding: 5px;">Horsetail</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Glyceria fluitans</i></td><td style="padding: 5px;">Floating Sweet-grass</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Holcus lanatus</i></td><td style="padding: 5px;">Yorkshire Fog</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Lathyrus pratensis</i></td><td style="padding: 5px;">Meadow-vetchling</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Potentilla anserina</i></td><td style="padding: 5px;">Silverweed</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Rubus fruticosus</i></td><td style="padding: 5px;">Bramble</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Rumex sp</i></td><td style="padding: 5px;">Sorrel sp</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Salix sp</i></td><td style="padding: 5px;">Willow</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Trifolium pratense</i></td><td style="padding: 5px;">Red Clover</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Urtica dioica</i></td><td style="padding: 5px;">Nettle</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Vicia cracca</i></td><td style="padding: 5px;">Tufted Vetch</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Calystegia sp</i>	Bindweed	Frequent	<i>Chamerion angustifolium</i>	Rosebay Willowherb	Abundant	<i>Dactylis glomerata</i>	Cocks-foot	Occasional	<i>Equisetum sp</i>	Horsetail	Frequent	<i>Glyceria fluitans</i>	Floating Sweet-grass	Frequent	<i>Holcus lanatus</i>	Yorkshire Fog	Frequent	<i>Lathyrus pratensis</i>	Meadow-vetchling	Occasional	<i>Potentilla anserina</i>	Silverweed	Frequent	<i>Rubus fruticosus</i>	Bramble	Occasional	<i>Rumex sp</i>	Sorrel sp	Frequent	<i>Salix sp</i>	Willow	Frequent	<i>Trifolium pratense</i>	Red Clover	Occasional	<i>Urtica dioica</i>	Nettle	Frequent	<i>Vicia cracca</i>	Tufted Vetch	Occasional
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Habitat Map**Legend****Image 1: Overview of Habitat**



Image 2: Close-up of Bindweed (*Calystegia* sp.)

TARGET NOTES – ID No. 95		
Survey Title: Mid Clare Habitat mapping		Survey date: 28/6/10
Surveyor: Shane O'Neill		County name: Clare
1:2,500 Sheet no: 4213-a	Townland: Teeroneer	Grid Ref: 161303, 183695
Target note no.: TN1		Area: 46ha
This area is considered to be of High Ecological value in a Local context. Does not correspond to any Annex I habitats.		
Habitat code FL2	<p>Lough O'Grady designated as a proposed Natural Heritage Area and is classified as an FL2 Acid Oligotrophic Lake. This lake is situated about 3 km south-west of Scarriff. The River Graney flows into the lake at the west end, while the River Scarriff flows out at the eastern side. A variety of wetland habitats can be found around the lake including small pockets of Reed and Large Sedge Swamp FS1, Wet Willow Alder Ash Woodland WN6, comprising mainly of Willow (<i>Salix</i> spp.) and Birch (<i>Betula pubescens</i>). Wet Grassland GS4, which in places grades into freshwater Marsh GM1, occurs around the lake. There is a good diversity of plants, with sedges (<i>Carex</i> spp.) and rushes (<i>Juncus effusus</i>) dominant in places, along with such species as Meadowsweet (<i>Filipendula ulmaria</i>), Cuckoo plant (<i>Cardamine pratensis</i>), and Devil's Bit Scabious (<i>Succisa pratensis</i>). The drier areas of grass are less species rich and are dominated by grasses and rushes. Well drained lands, islands and peninsulas are classified as Improved Agricultural Grassland GA1 and are well grazed.</p> <p>On the southeast side of this lake Zebra Mussels (<i>Dreissena polymorpha</i>) were found and have started to infest the lake. This lake (Lough O Grady) is connected to Lough Derg by the Scariff river which may be a corridor for the mussels. Other freshwater mussels were found in the lake which the Zebra mussels are using as anchor. Broken freshwater mussel shells are strewn all over the shore line. This and the abundance of spraints would indicate Otters have a good foothold in this habitat.</p> <p>The lake is an important wildfowl site with regionally significant populations of Wigeon, Teal, Mallard and Lapwing. Greenland White-fronted Geese regularly visit the site and use Island O'Grady as a roost (NPWS site synopsis).</p> <p>A number of herons were recorded at the lake during the site survey. A Heronry was found on the southern shores of Keel Lough located to the north west of the lake.</p>	

Habitat Map**Legend****Image 1: Zebra Mussels**




Image 2: Submerged mussels




Image 3: Otter spraints on a shore rock



Image 4: Broken mussel shells on the shore

TARGET NOTES – ID No. 96		
Survey Title: Mid Clare Habitat mapping		Survey date: 28/6/10
Surveyor: Shane O Neill		County name: Clare
1:2,500 Sheet no: 4213-a	Townland: Coolreagh Beg	Grid Ref: 160464, 183774
Target note no.: TN2		Area: 4.4ha
This area is considered to be of High Ecological value in an National context.		
Habitat code FL4	On the Southeast side of this lake there is a sandy peninsula that had four juvenile Herons on it. There is a heronry in the trees on the Southern shore of this lake.	
Habitat Map 		
Legend		

TARGET NOTES – ID No. 97																																						
Survey Title: Mid Clare Habitat mapping		Survey date: 01/07/2010																																				
Surveyor: Shane O'Neill		County name: Clare																																				
1:2,500 Sheet no: 4213-b	Townland: Callaghy	Grid Ref: 162560, 183299																																				
Target note no.: TN1		Area: 17ha																																				
Ecological Interest: This area is considered to be of High Ecological value in a Local context. Although the Annex I habitat, 'depressions on peat substrates of the Rhynchosporion' is associated with Cutover bog, no examples of this habitat type were recorded at this site.																																						
Habitat code PB4/WN7	Area of Cutover bog (PB4) with some Bog woodland (WN7) at the edges. Cutting has now ceased at this area.																																					
Species List: PB4 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 2px;">Species (common name)</th> <th style="text-align: left; padding: 2px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;"><i>Betula sp.</i></td><td style="padding: 2px;">Birch</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Calluna vulgaris</i></td><td style="padding: 2px;">Ling</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Dactylorhiza sp.</i></td><td style="padding: 2px;">Spotted-Orchid</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Equisetaceae agg</i></td><td style="padding: 2px;">Horsetails</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Filipendula ulmaria</i></td><td style="padding: 2px;">Meadow sweet</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Molinia caerulea</i></td><td style="padding: 2px;">Purple Moor-grass</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Myrica gale</i></td><td style="padding: 2px;">Bog Myrtle</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Potentilla erecta</i></td><td style="padding: 2px;">Tormentil</td><td style="padding: 2px;">Occasional</td></tr> <tr><td style="padding: 2px;"><i>Pteridium aquilinum</i></td><td style="padding: 2px;">Bracken</td><td style="padding: 2px;">Dominant</td></tr> <tr><td style="padding: 2px;"><i>Salix sp.</i></td><td style="padding: 2px;">Willow</td><td style="padding: 2px;">Frequent</td></tr> <tr><td style="padding: 2px;"><i>Ulex sp</i></td><td style="padding: 2px;">Gorse</td><td style="padding: 2px;">Dominant</td></tr> </tbody> </table>			Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Betula sp.</i>	Birch	Frequent	<i>Calluna vulgaris</i>	Ling	Occasional	<i>Dactylorhiza sp.</i>	Spotted-Orchid	Occasional	<i>Equisetaceae agg</i>	Horsetails	Occasional	<i>Filipendula ulmaria</i>	Meadow sweet	Occasional	<i>Molinia caerulea</i>	Purple Moor-grass	Frequent	<i>Myrica gale</i>	Bog Myrtle	Occasional	<i>Potentilla erecta</i>	Tormentil	Occasional	<i>Pteridium aquilinum</i>	Bracken	Dominant	<i>Salix sp.</i>	Willow	Frequent	<i>Ulex sp</i>	Gorse	Dominant
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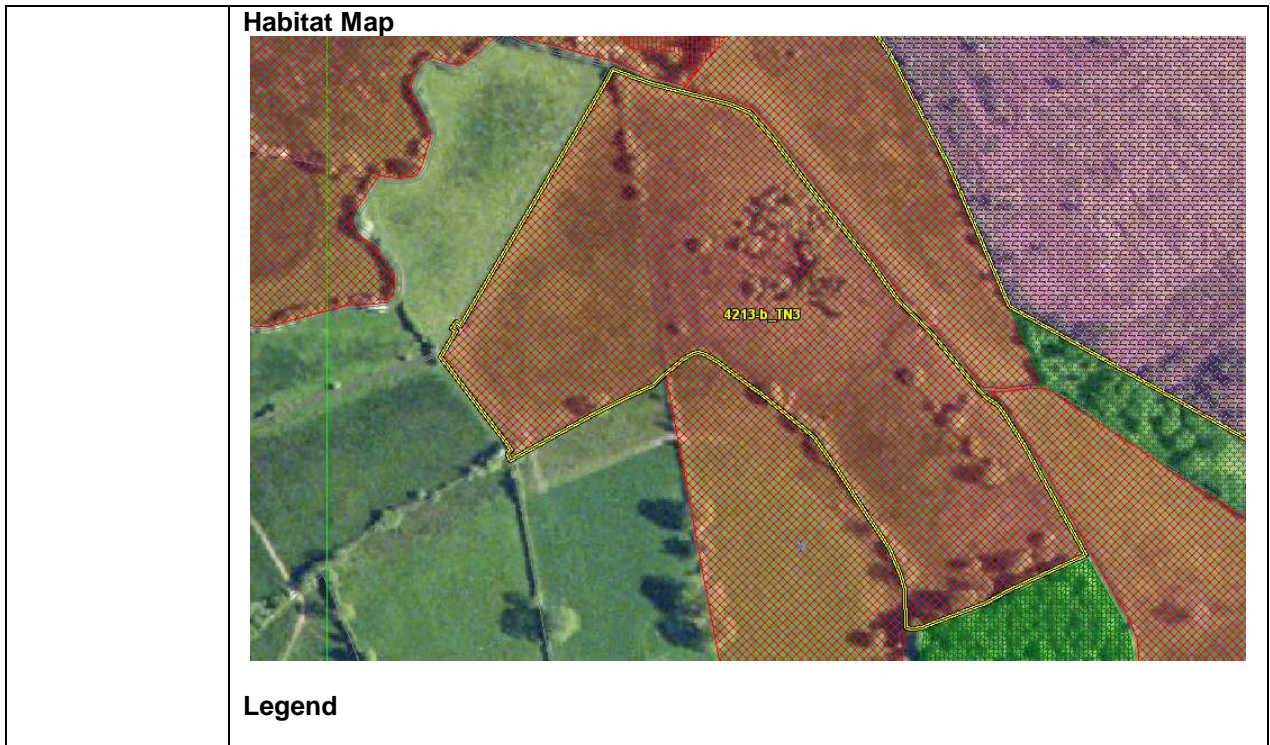
TARGET NOTES – ID No. 98																																																														
Survey Title: Mid Clare Habitat mapping		Survey date: 02/07/10																																																												
Surveyor: Shane O'Neill		County name: Clare																																																												
1:2,500 Sheet no: 4213-b	Townland: Callahy	Grid Ref: 162679, 182967																																																												
Target note no.: TN2		Area: 6.1ha																																																												
<p>Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to several Annex I habitats, 'Degraded raised bogs still capable of peat formation', '*active raised bogs (7110)', 'alkaline fens' (7230) and '*calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae (7210)'.</p>																																																														
Habitat code PB1/PF1	<p>This habitat is a mosaic of Raised Bog (PB1) and Rich Fen and Flush (PF1). Purple Moor-grass (<i>Molinia caerulea</i>) dominates the sward with Reedmace (<i>Typha latifolia</i>), Bogbean (<i>Menyanthes trifoliata</i>), Saw Sedge (<i>Cladium mariscus</i>), and Black Bog-rush (<i>Schoenus nigricans</i>). There has been OPP granted for an area above this habitat that might encroach on it.</p> <p>This habitat corresponds to two annexed habitats, 'alkaline fens (7230)' and '*calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae (7210)'. The latter is a priority habitat that describes stands of species-rich alkaline fen vegetation in which Great Fen-sedge (<i>Cladium mariscus</i>) is dominant.</p> <p>Species List:</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Calluna vulgaris</i></td><td>Ling</td><td>Frequent</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>Frequent</td></tr> <tr><td><i>Cladium mariscus</i></td><td>Great Fen-sedge</td><td>Frequent</td></tr> <tr><td><i>Dactylorhiza fuchsii</i></td><td>Common Spotted-Orchid</td><td>Frequent</td></tr> <tr><td><i>Dactylorhiza maculata</i></td><td>Heath Spotted-Orchid</td><td>Frequent</td></tr> <tr><td><i>Drosera</i> sp.</td><td>Sundews</td><td>Occasional</td></tr> <tr><td><i>Erica tetralix</i></td><td>Cross-leaved heath</td><td>Frequent</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cottongrass</td><td>Occasional</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>Occasional</td></tr> <tr><td><i>Menyanthes trifoliata</i></td><td>Bogbean</td><td>Frequent</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>Dominant</td></tr> <tr><td><i>Myrica gale</i></td><td>Bog Myrtle</td><td>Occasional</td></tr> <tr><td><i>Narthecium ossifragum</i></td><td>Bog Asphodel</td><td>Occasional</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>Frequent</td></tr> <tr><td><i>Schoenus nigricans</i></td><td>Black Bog-rush</td><td>Frequent</td></tr> <tr><td><i>Sphagnum</i></td><td>Bog Moss</td><td>Abundant</td></tr> <tr><td><i>Succisa pratensis</i></td><td>Devels-bit Scabious</td><td>Frequent</td></tr> <tr><td><i>Typha latifolia</i></td><td>Reedmace</td><td>Occasional</td></tr> <tr><td><i>Valeriana officinalis</i></td><td>Common Valerian</td><td>Occasional</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR Scale	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Carex echinata</i>	Star Sedge	Frequent	<i>Cladium mariscus</i>	Great Fen-sedge	Frequent	<i>Dactylorhiza fuchsii</i>	Common Spotted-Orchid	Frequent	<i>Dactylorhiza maculata</i>	Heath Spotted-Orchid	Frequent	<i>Drosera</i> sp.	Sundews	Occasional	<i>Erica tetralix</i>	Cross-leaved heath	Frequent	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Lychnis flos-cuculi</i>	Ragged Robin	Occasional	<i>Menyanthes trifoliata</i>	Bogbean	Frequent	<i>Molinia caerulea</i>	Purple Moor-grass	Dominant	<i>Myrica gale</i>	Bog Myrtle	Occasional	<i>Narthecium ossifragum</i>	Bog Asphodel	Occasional	<i>Potentilla erecta</i>	Tormentil	Frequent	<i>Schoenus nigricans</i>	Black Bog-rush	Frequent	<i>Sphagnum</i>	Bog Moss	Abundant	<i>Succisa pratensis</i>	Devels-bit Scabious	Frequent	<i>Typha latifolia</i>	Reedmace	Occasional	<i>Valeriana officinalis</i>	Common Valerian	Occasional
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Habitat Map

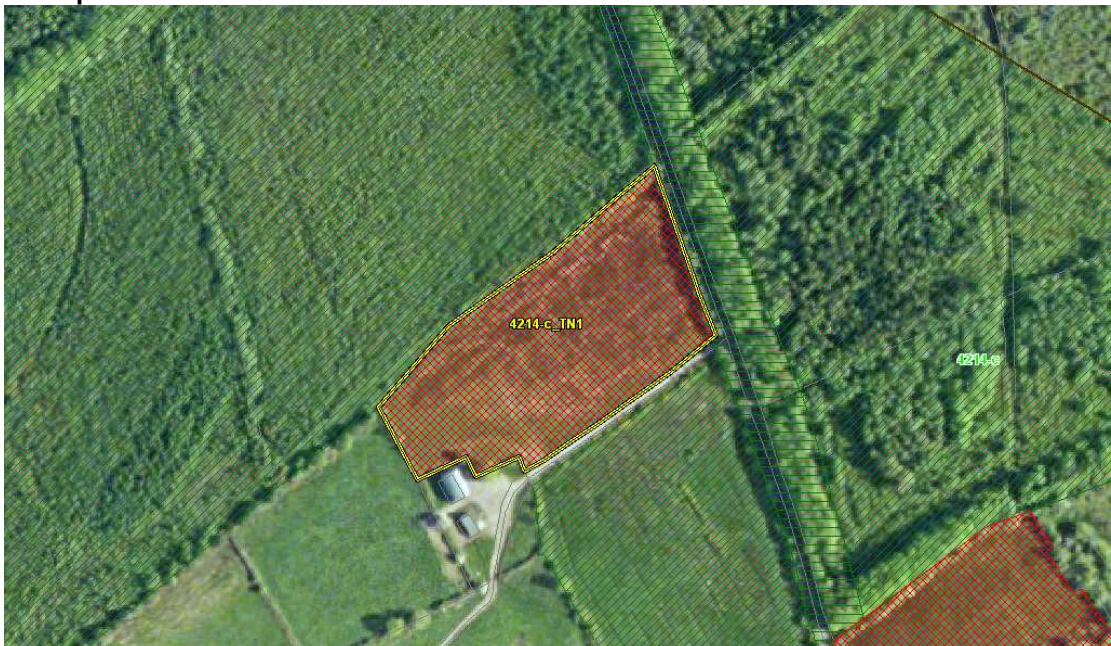


Legend

TARGET NOTES – ID No. 99																																																																				
Survey Title: Mid Clare Habitat mapping		Survey date: 29/7/10																																																																		
Surveyor: Shane O'Neill		County name: Clare																																																																		
1:2,500 Sheet no: 4213-b	Townland: Callahy	Grid Ref: 162246, 183228																																																																		
Target note no.: TN3		Area:																																																																		
This area is considered to be of High Ecological value in a Local context. Does not correspond to any Annex I habitats.																																																																				
Habitat code GS4/PB4	Species-rich Wet Grassland (GS4) with a small section of Orchid-rich Cutover Bog (PB4) at the southern end. A stone track has been constructed at the edge of the field.																																																																			
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TARGET NOTES – ID No. 100																																									
Survey Title: Mid Clare Habitat Mapping		Survey date: 2/7/2010																																							
Surveyor: Shane O'Neil		County name: Clare																																							
1:2,500 Sheet no: 4213-d	Townland: Ballincurrig	Grid Ref: 162943, 181127																																							
Target note no.: TN1		Area: 5.2ha																																							
Ecological Interest: This area is considered to be of High Ecological value in an International context. Corresponds to the Annex I habitats ‘*active raised bogs (7110)’ and ‘Degraded raised bogs still capable of natural regeneration’.																																									
Habitat code PB1/GS4	<p>Very small section of Raised Bog (PB1) surrounded by Wet Grassland (GS4). The Wet Grassland is grazed by horses, and there is evidence of the horses venturing onto the Bog habitat. Peat depth is approximately 2m. It is still active, with abundant <i>Sphagnum</i>, and is very wet.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Species (<i>Latin name</i>)</th> <th style="text-align: left; padding: 5px;">Species (common name)</th> <th style="text-align: left; padding: 5px;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;"><i>Calluna vulgaris</i></td><td style="padding: 5px;">Ling</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Eriophorum angustifolium</i></td><td style="padding: 5px;">Common Cottongrass</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Eriophorum vaginatum</i></td><td style="padding: 5px;">Hare's-tail Cottongrass</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Erica tetralix</i></td><td style="padding: 5px;">Cross Leafed Heath</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Molinia caerulea</i></td><td style="padding: 5px;">Purple Moor-grass</td><td style="padding: 5px;">Dominant</td></tr> <tr><td style="padding: 5px;"><i>Nardus stricta</i></td><td style="padding: 5px;">Mat Grass</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Potentilla erecta</i></td><td style="padding: 5px;">Tormantil</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Pteridium aquilinum</i></td><td style="padding: 5px;">Bracken</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Sphagnum spp.</i></td><td style="padding: 5px;">Bog-mosses</td><td style="padding: 5px;">Abundant</td></tr> <tr><td style="padding: 5px;"><i>Trichophorum cespitosum</i></td><td style="padding: 5px;">Deergrass</td><td style="padding: 5px;">Frequent</td></tr> <tr><td style="padding: 5px;"><i>Ulex europaeus</i></td><td style="padding: 5px;">Gorse</td><td style="padding: 5px;">Occasional</td></tr> <tr><td style="padding: 5px;"><i>Viola sp.</i></td><td style="padding: 5px;">Violet</td><td style="padding: 5px;">Occasional</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Calluna vulgaris</i>	Ling	Frequent	<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	Occasional	<i>Erica tetralix</i>	Cross Leafed Heath	Frequent	<i>Molinia caerulea</i>	Purple Moor-grass	Dominant	<i>Nardus stricta</i>	Mat Grass	Frequent	<i>Potentilla erecta</i>	Tormantil	Frequent	<i>Pteridium aquilinum</i>	Bracken	Frequent	<i>Sphagnum spp.</i>	Bog-mosses	Abundant	<i>Trichophorum cespitosum</i>	Deergrass	Frequent	<i>Ulex europaeus</i>	Gorse	Occasional	<i>Viola sp.</i>	Violet	Occasional
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Surveyor: Jen Fisher		County name: Clare																																													
1:2,500 Sheet no: 4214-c	Townland: Mountain Park	Grid Ref: 164787, 181757																																													
Target note no.: TN1		Area: 1.3ha																																													
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																															
Habitat code GS4	<p>A typical example of the Wet Grassland GS4 in the local area. The habitat was dominated by rushes, the field margins were surrounded by Willow. The ground was heavily poached and had evidently been subject to grazing in the past.</p> <p>Species List</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: left;"> <thead> <tr> <th style="text-align: left;">Species (<i>Latin name</i>)</th> <th style="text-align: left;">Species (common name)</th> <th style="text-align: left;">DAFOR Scale</th> </tr> </thead> <tbody> <tr><td><i>Alopecurus geniculatus</i></td><td>Marsh Foxtail</td><td>O</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh Thistle</td><td>A</td></tr> <tr><td><i>Galium palustris</i></td><td>Marsh Bedstraw</td><td>C</td></tr> <tr><td><i>Glyceria fluitans</i></td><td>Floating Sweet Grass</td><td>C</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>A</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>A</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>D</td></tr> <tr><td><i>Lolium perenne</i></td><td>Perennial Rye Grass</td><td>O</td></tr> <tr><td><i>Poa trivialis</i></td><td>Rough Meadow Grass</td><td>A</td></tr> <tr><td><i>Ranunculus acris</i></td><td>Meadow Buttercup</td><td>A</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td><td>F</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping Buttercup</td><td>A</td></tr> <tr><td><i>Senecio aquaticus</i></td><td>Marsh Ragwort</td><td>C</td></tr> <tr><td><i>Trifolium repens</i></td><td>Clover</td><td>A</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale	<i>Alopecurus geniculatus</i>	Marsh Foxtail	O	<i>Cirsium palustre</i>	Marsh Thistle	A	<i>Galium palustris</i>	Marsh Bedstraw	C	<i>Glyceria fluitans</i>	Floating Sweet Grass	C	<i>Holcus lanatus</i>	Yorkshire Fog	A	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A	<i>Juncus effusus</i>	Soft Rush	D	<i>Lolium perenne</i>	Perennial Rye Grass	O	<i>Poa trivialis</i>	Rough Meadow Grass	A	<i>Ranunculus acris</i>	Meadow Buttercup	A	<i>Ranunculus flammula</i>	Lesser Spearwort	F	<i>Ranunculus repens</i>	Creeping Buttercup	A	<i>Senecio aquaticus</i>	Marsh Ragwort	C	<i>Trifolium repens</i>	Clover	A
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Habitat Map 																																															

Legend

Photographic Record:



Image 1: Overview of Wet Grassland GS4 Habitat

TARGET NOTES – ID No. 102																																																																																						
Survey Title: Mid Clare Habitat Mapping		Survey date: 28/06/10																																																																																				
Surveyor: Jen Fisher		County name: Clare																																																																																				
1:2,500 Sheet no: 4214-c	Townland: Knockagower	Grid Ref: 165276, 181226																																																																																				
Target note no.: TN2		Area: 2ha																																																																																				
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																																																						
Habitat code GS4/ GM1 /WS1	<p>Large area of Wet Grassland GS4 habitat surrounding a Conifer Plantation WD1. The grassland was very species rich with a lot of rushes, sedges and herbs. A small area of Marsh GM1 was also present in the vicinity of a small stream that was running to the east of this habitat. Some scrub and trees were also present.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR</th> </tr> </thead> <tbody> <tr><td><i>Agrostis sp.</i></td><td>Bent sp.</td><td>O</td></tr> <tr><td><i>Alopecurus geniculatus</i></td><td>Marsh Foxtail</td><td>C</td></tr> <tr><td><i>Angelica sylvestris</i></td><td>Wild Angelica</td><td>O</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal Grass</td><td>C</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>O</td></tr> <tr><td><i>Carex sp.</i></td><td>Sedge</td><td>A</td></tr> <tr><td><i>Cirsium palustris</i></td><td>Marsh Thistle</td><td>C</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dog's-tail</td><td>C</td></tr> <tr><td><i>Dactylorhiza fuchsii</i></td><td>Common Spotted Orchid</td><td>O</td></tr> <tr><td><i>Equisetum sp.</i></td><td>Horsetail sp.</td><td>C</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>O</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh Bedstraw</td><td>O</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>C</td></tr> <tr><td><i>Iris pseudacorus</i></td><td>Yellowflag</td><td>F</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>A</td></tr> <tr><td><i>Juncus conglomerate</i></td><td>Compact Rush</td><td>C</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>D</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Large Birds-foot Trefoil</td><td>O</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>O</td></tr> <tr><td><i>Lysimachia nemorum</i></td><td>Yellow Pimpernel</td><td>O</td></tr> <tr><td><i>Myosotis sp.</i></td><td>Forget-me-knot</td><td>O</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Selfheal</td><td>C</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td><td>C</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping Buttercup</td><td>F</td></tr> <tr><td><i>Trifolium repens</i></td><td>Clover</td><td>F</td></tr> <tr><td><i>Ulex europaeus</i></td><td>Gorse</td><td>O</td></tr> <tr><td><i>Valeriana officinalis</i></td><td>Common Valerian</td><td>O</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR	<i>Agrostis sp.</i>	Bent sp.	O	<i>Alopecurus geniculatus</i>	Marsh Foxtail	C	<i>Angelica sylvestris</i>	Wild Angelica	O	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	C	<i>Carex echinata</i>	Star Sedge	O	<i>Carex sp.</i>	Sedge	A	<i>Cirsium palustris</i>	Marsh Thistle	C	<i>Cynosurus cristatus</i>	Crested Dog's-tail	C	<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	O	<i>Equisetum sp.</i>	Horsetail sp.	C	<i>Filipendula ulmaria</i>	Meadowsweet	O	<i>Galium palustre</i>	Marsh Bedstraw	O	<i>Holcus lanatus</i>	Yorkshire Fog	C	<i>Iris pseudacorus</i>	Yellowflag	F	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A	<i>Juncus conglomerate</i>	Compact Rush	C	<i>Juncus effusus</i>	Soft Rush	D	<i>Lotus pedunculatus</i>	Large Birds-foot Trefoil	O	<i>Lychnis flos-cuculi</i>	Ragged Robin	O	<i>Lysimachia nemorum</i>	Yellow Pimpernel	O	<i>Myosotis sp.</i>	Forget-me-knot	O	<i>Prunella vulgaris</i>	Selfheal	C	<i>Ranunculus flammula</i>	Lesser Spearwort	C	<i>Ranunculus repens</i>	Creeping Buttercup	F	<i>Trifolium repens</i>	Clover	F	<i>Ulex europaeus</i>	Gorse	O	<i>Valeriana officinalis</i>	Common Valerian	O
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Habitat Map**Legend****Photographic Record:****Image1: Overview of Wet Grassland GS4 vegetation**

TARGET NOTES – ID No. 103																																																																													
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Surveyor: Jen Fisher		County name: Clare																																																																											
1:2,500 Sheet no: 4214-c	Townland: Ballymalone	Grid Ref: 164833, 181122																																																																											
Target note no.: TN3		Area: 3.9ha																																																																											
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																																													
Habitat code GS4	<p>Excellent example of a species rich Wet Grassland (GS4), with an abundance of Orchids, Sedges and Rushes. Some peat influence (probably a peatland habitat in the past). The habitat was heavily grazed and poached in parts and was more developed for agriculture in the southern and eastern areas of this habitat.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (<i>Latin name</i>)</th> <th>Species (common name)</th> <th>DAFOR</th> </tr> </thead> <tbody> <tr><td><i>Agrostis sp.</i></td><td>Bent sp.</td><td>O</td></tr> <tr><td><i>Alopecurus geniculatus</i></td><td>Marsh Foxtail</td><td>C</td></tr> <tr><td><i>Angelica sylvestris</i></td><td>Wild Angelica</td><td>O</td></tr> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal Grass</td><td>C</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>O</td></tr> <tr><td><i>Carex sp.</i></td><td>Sedge</td><td>A</td></tr> <tr><td><i>Cirsium palustre</i></td><td>Marsh Thistle</td><td>C</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dog's-tail</td><td>C</td></tr> <tr><td><i>Dactylorhiza fuchsii</i></td><td>Common Spotted Orchid</td><td>O</td></tr> <tr><td><i>Equisetum sp.</i></td><td>Horsetail sp.</td><td>C</td></tr> <tr><td><i>Filipendula ulmaria</i></td><td>Meadowsweet</td><td>O</td></tr> <tr><td><i>Galium palustre</i></td><td>Marsh Bedstraw</td><td>O</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>C</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>A</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>C</td></tr> <tr><td><i>Juncus effusus</i></td><td>Soft Rush</td><td>D</td></tr> <tr><td><i>Lotus pedunculatus</i></td><td>Large Birds-foot Trefoil</td><td>O</td></tr> <tr><td><i>Lychnis flos-cuculi</i></td><td>Ragged Robin</td><td>O</td></tr> <tr><td><i>Lysimachia nemorum</i></td><td>Yellow Pimpernel</td><td>O</td></tr> <tr><td><i>Myosotis sp.</i></td><td>Forget-me-knot</td><td>O</td></tr> <tr><td><i>Prunella vulgaris</i></td><td>Selfheal</td><td>C</td></tr> <tr><td><i>Ranunculus flammula</i></td><td>Lesser Spearwort</td><td>C</td></tr> <tr><td><i>Ranunculus repens</i></td><td>Creeping Buttercup</td><td>F</td></tr> <tr><td><i>Trifolium repens</i></td><td>Clover</td><td>F</td></tr> </tbody> </table>		Species (<i>Latin name</i>)	Species (common name)	DAFOR	<i>Agrostis sp.</i>	Bent sp.	O	<i>Alopecurus geniculatus</i>	Marsh Foxtail	C	<i>Angelica sylvestris</i>	Wild Angelica	O	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	C	<i>Carex echinata</i>	Star Sedge	O	<i>Carex sp.</i>	Sedge	A	<i>Cirsium palustre</i>	Marsh Thistle	C	<i>Cynosurus cristatus</i>	Crested Dog's-tail	C	<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	O	<i>Equisetum sp.</i>	Horsetail sp.	C	<i>Filipendula ulmaria</i>	Meadowsweet	O	<i>Galium palustre</i>	Marsh Bedstraw	O	<i>Holcus lanatus</i>	Yorkshire Fog	C	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A	<i>Juncus conglomeratus</i>	Compact Rush	C	<i>Juncus effusus</i>	Soft Rush	D	<i>Lotus pedunculatus</i>	Large Birds-foot Trefoil	O	<i>Lychnis flos-cuculi</i>	Ragged Robin	O	<i>Lysimachia nemorum</i>	Yellow Pimpernel	O	<i>Myosotis sp.</i>	Forget-me-knot	O	<i>Prunella vulgaris</i>	Selfheal	C	<i>Ranunculus flammula</i>	Lesser Spearwort	C	<i>Ranunculus repens</i>	Creeping Buttercup	F	<i>Trifolium repens</i>	Clover	F
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Habitat Map**Legend****Photographic Record:****Image 1: Wet Grassland GS4 habitat**

TARGET NOTES – ID No. 104																																																																																
Survey Title: Mid Clare Habitat Mapping		Survey date: 29/06/10																																																																														
Surveyor: Jen Fisher		County name: Clare																																																																														
1:2,500 Sheet no: 4268-b	Townland: Drummaghmartin	Grid Ref: 150190, 180930																																																																														
Target note no.: TN1		Area: 1.9ha																																																																														
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats																																																																																
Habitat code PB4	<p>This peat land habitat has been cutover at some time in the past. A mosaic of habitats was recorded during the field visit, including Wet Grassland GS4, Wet Heath HH3, Dense Bracken HD1, Scrub WS1, and Bog Woodland WN7 around the edges.</p> <p>Species List</p> <table border="1"> <thead> <tr> <th>Species (Latin name)</th> <th>Species (common name)</th> <th>DAFOR</th> </tr> </thead> <tbody> <tr><td><i>Anthoxanthum odoratum</i></td><td>Sweet Vernal Grass</td><td>A</td></tr> <tr><td><i>Calluna vulgaris</i></td><td>Ling</td><td>A</td></tr> <tr><td><i>Carex echinata</i></td><td>Star Sedge</td><td>F</td></tr> <tr><td><i>Carex nigra</i></td><td>Common Sedge</td><td>A</td></tr> <tr><td><i>Carex panicea</i></td><td>Carnation Sedge</td><td>A</td></tr> <tr><td><i>Cirsium dissectum</i></td><td>Meadow Thistle</td><td>O</td></tr> <tr><td><i>Cynosurus cristatus</i></td><td>Crested Dog's-tail</td><td>A</td></tr> <tr><td><i>Dactylorhiza fuchsii</i></td><td>Common Spotted Orchid</td><td>F</td></tr> <tr><td><i>Dactylorhiza maculata</i></td><td>Heath Spotted Orchid</td><td>F</td></tr> <tr><td><i>Drosera rotundifolia</i></td><td>Round-leaved Sundew</td><td>F</td></tr> <tr><td><i>Equisetum sp.</i></td><td>Horsetail sp.</td><td>A</td></tr> <tr><td><i>Erica cinerea</i></td><td>Bell Heather</td><td>F</td></tr> <tr><td><i>Erica tetralix</i></td><td>Cross-leaved Heath</td><td>F</td></tr> <tr><td><i>Eriophorum angustifolium</i></td><td>Common Cotton Sedge</td><td>O</td></tr> <tr><td><i>Holcus lanatus</i></td><td>Yorkshire Fog</td><td>A</td></tr> <tr><td><i>Juncus acutiflorus</i></td><td>Sharp-flowered Rush</td><td>A</td></tr> <tr><td><i>Juncus conglomeratus</i></td><td>Compact Rush</td><td>A</td></tr> <tr><td><i>Luzula sp.</i></td><td>Wood Rush</td><td>O</td></tr> <tr><td><i>Molinia caerulea</i></td><td>Purple Moor-grass</td><td>A</td></tr> <tr><td><i>Myrica gale</i></td><td>Boy Myrtle</td><td>A</td></tr> <tr><td><i>Narthecium ossifragum</i></td><td>Bog Asphodel</td><td>F</td></tr> <tr><td><i>Osmunda regalis</i></td><td>Royal Fern</td><td>A</td></tr> <tr><td><i>Potentilla erecta</i></td><td>Tormentil</td><td>A</td></tr> <tr><td><i>Succisa pratensis</i></td><td>Devil's-bit Scabious</td><td>A</td></tr> <tr><td><i>Sphagnum sp.</i></td><td>Bog Moss</td><td>A</td></tr> </tbody> </table>		Species (Latin name)	Species (common name)	DAFOR	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	A	<i>Calluna vulgaris</i>	Ling	A	<i>Carex echinata</i>	Star Sedge	F	<i>Carex nigra</i>	Common Sedge	A	<i>Carex panicea</i>	Carnation Sedge	A	<i>Cirsium dissectum</i>	Meadow Thistle	O	<i>Cynosurus cristatus</i>	Crested Dog's-tail	A	<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	F	<i>Dactylorhiza maculata</i>	Heath Spotted Orchid	F	<i>Drosera rotundifolia</i>	Round-leaved Sundew	F	<i>Equisetum sp.</i>	Horsetail sp.	A	<i>Erica cinerea</i>	Bell Heather	F	<i>Erica tetralix</i>	Cross-leaved Heath	F	<i>Eriophorum angustifolium</i>	Common Cotton Sedge	O	<i>Holcus lanatus</i>	Yorkshire Fog	A	<i>Juncus acutiflorus</i>	Sharp-flowered Rush	A	<i>Juncus conglomeratus</i>	Compact Rush	A	<i>Luzula sp.</i>	Wood Rush	O	<i>Molinia caerulea</i>	Purple Moor-grass	A	<i>Myrica gale</i>	Boy Myrtle	A	<i>Narthecium ossifragum</i>	Bog Asphodel	F	<i>Osmunda regalis</i>	Royal Fern	A	<i>Potentilla erecta</i>	Tormentil	A	<i>Succisa pratensis</i>	Devil's-bit Scabious	A	<i>Sphagnum sp.</i>	Bog Moss	A
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Habitat Map**Legend****Photographic Record:**

Image 1: Cutover Bog PB4 supporting a mosaic of habitats.

TARGET NOTES – ID No. 105

Survey Title: Mid Clare Habitat Mapping		Survey date: 12/07/10
Surveyor: John Curtin		County name: Clare
1:2,500 Sheet no: 4270-b	Townland: Moneenafolla	Grid Ref: 159616, 180959
Target note no.: TN1		Area: 1.2ha

High ecological importance in an international context. This habitat type is linked to the annexed habitats, *active raised bogs (7110)', Degraded raised bogs still capable of natural regeneration (7120)' and 'depressions on peat substrates of the Rhynchosporion (7150)'

Habitat code
PB1/PB4/
WN7/WS1/
WD1

Raised bog surrounded by a zone of Gorse Scrub (WS1), drains and Willow woodland (WN7). Forestry (WD1) planted 15 years ago surrounds this. The area surrounding this raised bog has been cut in the past. Peat depths <3m. Bearded Lichen (*Cladonia sp*) is abundant here. Bog-rosemary (*Andromeda polifolia*) is also present.

Species List

Species (<i>Latin name</i>)	Species (common name)	DAFOR Scale
<i>Andromeda polifolia</i>	Bog-rosemary	Rare
<i>Calluna vulgaris</i>	Ling	Abundant
<i>Carex panicea</i>	Carnation sedge	Frequent
<i>Cladonia sp</i>	Lichen	Abundant
<i>Erica cinerea</i>	Bell Heather	Occasional
<i>Erica tetralix</i>	Heath, cross-leaved	Frequent
<i>Eriophorum angustifolium</i>	Common Cottongrass	Occasional
<i>Narthecium ossifragum</i>	Bog asphodel	Frequent
<i>Potentilla erecta</i>	Tormentil	Rare
<i>Rhynchospora alba</i>	White Beak-sedge	Frequent
<i>Sphagnum sp</i>	Peat moss	Abundant
<i>Trichophorum cespitosum</i>	Deergrass	Frequent

Habitat Map**Legend**

TARGET NOTES – ID No. 106

Survey Title: Mid Clare Habitat Mapping		Survey date: 28/06/10
Surveyor: Jen Fisher		County name: Clare
1:2,500 Sheet no: 4272-a	Townland: Ballymalone	Grid Ref: 164121,180674
Target note no.: TN1		Area: 0.58ha
Ecological Value: High Ecological Importance in a local context. This habitat does not correspond to any Annex I Habitats		
Habitat code WN6/GM1/ GS4	A cluster of a few nice habitats including Wet Willow Alder Ash Woodland WN6 which was entirely comprised of Willow, the understorey was wet and consistent with Marsh GM1, this habitat spread out into the open field and graded into Wet Grassland GS4. The surrounding fields had been subject to drainage for agriculture.	
	Species List	
	Species (<i>Latin</i> name)	Species (common name)
	<i>Carex remota</i>	Remote Sedge
	<i>Dactylorhiza</i> sp.	Marsh Orchid
	<i>Equisetum arvense</i>	Horsetail sp.
	<i>Filipendula ulmaria</i>	Meadowsweet
	<i>Iris pseudacorus</i>	Yellowflag
	<i>Mentha</i> sp.	Mint
	<i>Menyanthes trifoliata</i>	Bogbean
<i>Pteridium aquilinum</i>	Bracken	
<i>Rubus fruticosus</i> agg	Bramble	
<i>Salix</i> sp.	Willow sp.	
<i>Typha latifolia</i>	Bulrush	

Habitat Map**Legend**

APPENDIX B

HABITAT MAP

