South Dublin County Council

Habitats Directive Assessment



Screening of the proposed

works in relation to the public right of way over grassed strip at Bewley Grove and Mount Bellew Way, Ballyowen, Lucan, Co. Dublin.

for Appropriate Assessment in accordance with the requirements of Article 6(3) of the EU Habitats Directive

June 2013

Screening of the proposed project at Ballyowen, Lucan

for

Appropriate Assessment in accordance with the requirements of Article 6(3) of the EU Habitats Directive

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Screening of the proposed project at Ballyowen, Lucan for Appropriate Assessment in accordance with the requirements of Article 6(3) of the EU Habitats Directive

SECTION 1

1.1. INTRODUCTION

This document represents South Dublin County Council's Appropriate Assessment (AA) Screening Report for a proposed project at Ballyowen, Lucan, Co. Dublin.

This report has been prepared in accordance with the requirements of Article 6(3) of the Habitats Directive (Directive 92/43/EEC). Council directive 92/43/EEC on the conservation of natural habitats and of wild flora and fauna – 'The Habitats Directive' was transposed into Irish law by the European Community (Natural Habitats) Regulations 1997 (S.I. No. 94/1997).

The aim of the European Habitats Directive (Council Directive 92/43/EEC on the conservation of wild habitats and of wild fauna and flora) is to create a network of protected wildlife sites across Europe, which are to be maintained at a favourable conservation status¹. Each member state must designate their most important natural areas as Special Areas of Conservation (SAC).

The Directive specifies the scientific criteria on the basis of which SAC sites must be selected and very strictly curtails the grounds that can be used as justification for damaging a site. The network of sites is referred to as NATURA 2000 and includes SACs (Special Areas of Conservation) for protected habitats and species and SPAs (Special Protection Areas) for birds.

The European Habitats Directive (Council of the European Communities 1992) was transposed into Irish legislation by the European Communities (Natural Habitats) Regulations, 1997 and amended in 1998 and 2005.

The Natural Habitats Regulations amend the Planning Acts 2000-2009 and require planning authorities when considering an application for a development that is likely to have a significant effect on the SAC/SPA, to ensure that an appropriate assessment of the implications of the development for the conservation status of the site is undertaken.

The only justifications for damaging a qualifying "priority" site are "considerations relating to human health and public safety, to beneficial consequences of primary importance of the environment, or further to an opinion from the European Commission, to other imperative reasons of overriding public interest" (IROPI), but this can only be allowed after an

¹ The conservation status of a **habitat** can be taken as "favourable" when its natural range and area it covers within that range is stable or increasing and the ecological factors that are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future.

The conservation status of a **species** can be taken as "favourable" when population dynamics data on the species concerned indicate that it is maintaining itself on a long term basis as a viable component of its natural habitats, the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future and there is and will continue to be a sufficiently large habitat to maintain its populations on a long-term basis. Article 1 (i) of the Habitats Directive 92/43/EEC.

assessment is made in line with the Article 6 procedure, and there are no other alternatives and an agreement is reached with the European Commission.

The European Parliament, in a communication to the European Council in September 2000, states: The implementation of the European Habitats Directive and Birds Directive, both with respect to species conservation and with respect to the establishment of the Natura 2000 network, is one of the most important tools for achieving the objectives of the Convention on Biological Diversity in the European Union and member states (European Parliament 2000).

Article 6 of the Habitats Directive provides a strict assessment procedure for any plan or project not directly connected with or necessary to the management of a designated European site but which has the potential to have implications for the site in view of the site's conservation objectives.

Article 6 (3) of the 'Habitats' Directive 92/43/EEC states that;

Any plan or project not directly connected with or necessary to the management of the site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subject to appropriate assessment of its implications for the site in view of the sites conservation objectives. In the light of the conclusions of the assessment of the implications for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, If appropriate, after having obtained the opinion of the general public.

Article 6(4) states:

'if, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of economic or social nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted. Where the site concerned hosts a priority natural habitat type and/or a priority species the only considerations which may be raised are those relating to human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest.

Article 6(3) therefore requires that an "appropriate assessment" be undertaken for any plan or project which is not necessary for the management of a Natura 2000 site and which has the potential to have an impact on the integrity of a Natura 2000 site *i.e.* a Special Area of Conservation (SAC) or a Special Protection Area for Birds (SPA), or on the conservation objectives of such a site.

Following guidance issued by the Department of Environment, Heritage and Local Government, 2010 (*Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities*), plans and projects requiring to be considered for AA screening include:

- Regional Planning Guidelines (RPGs);
- City and County Development Plans (CDPs) and any material amendments/variations;
- Development Plans by Town Councils (TCDPs) and any amendments/variations;
- Local Area Plans (LAPs) and any amendments; and
- Planning Schemes in respect of Strategic Development Zones (SDZs).

In effect, the Commission's ruling requires a robust and thorough application by all consent authorities, including planning authorities, of the requirement to undertake an appropriate assessment of the ecological implications of any plan or project, or material variation of a plan or project, whether within or outside of a designated site, which may impact upon its stated conservation objectives.

1.2. METHODOLOGY

This Screening Statement for Appropriate Assessment has been prepared with regard to the following guidance documents where relevant:

- Assessment of Plans and Projects Significantly Affecting Natura 2000 Sites: Methodological Guidance on the Provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC (European Commission Environment Directorate General, 2001)
- Managing Natura 2000 Sites: The Provisions of Article 6 of the Habitats Directive 92/43/EEC (EC Environment Directorate General, 2000)
- Appropriate Assessment under Article 6 of the Habitats Directive: Guidance for Planning Authorities Circular NPW 1/10 & PSSP 2/10
- Appropriate Assessment of Plans and Projects in Ireland Guidance for Planning Authorities. (Department of Environment, Heritage and Local Government, 2010 revision)
- *Guidelines for Good Practice, Appropriate Assessment of Plans under Article 6(3) Habitats Directive* (International Workshop on Assessment of Plans under the Habitats Directive, 2011)
- *Guidance Document on Article* 6(4) *of the Habitats Directive* 92/43/EEC. Clarification of the Concepts of Alternative Solutions, Imperative Reasons of Overriding Public Interest, Compensatory Measures, Overall Coherence. Opinion of the European Commission (European Commission, January 2007)

There are four stages in an Appropriate Assessment as outlined in the European Commission Guidance Document (2001), summarised below:

• Stage 1: Screening

The first step to establishing if an appropriate assessment is required is referred to as 'screening' and its purpose is to determine on the basis of a preliminary assessment and objective criteria if the plan or project, alone or in combination with other plans or projects, could have a significant effect on a Natura 2000 site in view of the sites conservation objectives. The process identifies any likely impacts upon a Natura 2000 Site, either alone or in combination with other projects or plans, and considers whether these impacts are likely to be significant.

Stage 2: Appropriate Assessment

This step considers the impact of the project or plan on the integrity of the Natura 2000 Site, either alone or in combination with other plans or projects, to the site's structure and function and its conservation objectives. Additionally, where there are deemed to be adverse impacts, an assessment of the potential mitigation of those impacts is considered.

• Stage 3: Alternative Solutions

This stage examines alternative means of achieving the objectives of the project or plan that aim to avoid adverse impacts on the integrity of the Natura 2000 site.

• Stage 4: Imperative Reasons of Overriding Public Interest

This stage is the main derogation process outlined in Article 6(4) which examines whether there are imperative reasons of overriding public interest (IROPI) for allowing a plan or project which will have adverse effects on the integrity of a Natura 2000 site to proceed.

The current screening exercise was based on a desk-top study, drawing on information sources which included the following: NPWS on-line data for Natura 2000 sites; Ordnance Survey of Ireland mapping and aerial photography; geological, hydrological and soils data available from GSI; water quality data (EPA and SDCC); and in-house data.

SECTION 2 SCREENING MATRIX

2.1 DESCRIPTION OF THE PLAN OR PROJECT

2.1.1 Description of the Proposed Project, Ballyowen, Lucan, Co. Dublin.

The proposal consists of 2no. options as follows:

Option A: Closure of right of way with provision of a fence and piers.

- Provision of a fence to match existing adjacent fence on Mount Bellew Way to be installed from the end of the existing fence running parallel to Mount Bellew Way to the end of the hedgerow at St. Andrew's Fairway. Concrete piers to be provided at intervals as required.
- All ancillary works

Option B: Enhancement of right of way & provision of car parking/ set downs

- Provision of a new 2m wide footpath/ walkway from Mount Bellew Way to Bewley Grove
- Provision of a new 2m wide footpath/ walkway from Mount Bellew Way to St. Andrew's Fairway
- New landscape design, public lighting & CCTV in association with the new footpaths
- Provision of vehicular set down area along Mount Bellew Way (opposite the school), including realignment of existing footpath and provision of a raised pedestrian crossing
- Provision of new public car park and vehicular entrance at Willsbrook Park with associated works
- Provision of a vehicular set down area on the R136 (Outer Ring Road)
- All ancillary works

2.1.2 Description of the receiving environment at Ballyowen, Lucan

As delineated in Figure 2.1 below, the receiving environment consists of 3no. locations; at Mount Bellew Way, adjacent to the Outer Ring Road and in Willsbrook Park.

The location of the right of way is a grassed area of open space between the cul de sacs of Mount Bellew Way, St. Andrew's Fairways, Bewley Grove and Mount Bellew Crescent. The open space is maintained grassland. A row of mature oak trees run parallel to Mount Bellew Way within the Bewley Grove housing estate. At the open space between the cul de sacs, the oak trees traverse from east to west and are interspersed with some beech and elder trees and low level ivy and scrub. The Mount Bellew Way environment consists of a public road, grass verge and footpath.

The location of the car park in Willsbrook Park is currently an open area of maintained grassland. The R136 (Outer Ring Road) environment consists of a public road, grass verge and footpath.

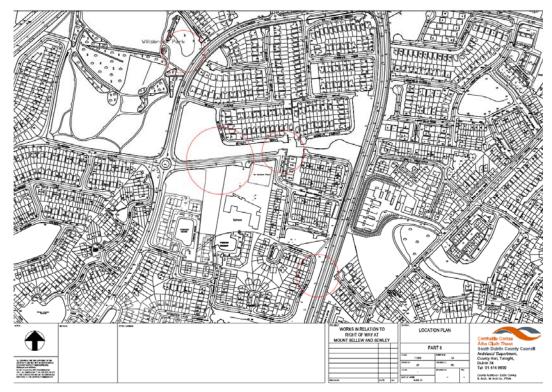


Figure 2.1 Lands proposed for the works in relation to the right of way, including option of closure and option to enhance the route and provide car parking at Willsbrook Park, the Outer Ring Road and on Mount Bellew Way at Ballyowen, Lucan, outlined in red.

2.2 ASSESSMENT OF RELEVANCE OF PROPOSED DEVELOPMENT TO NATURA 2000 SITES

In line with the European Commission Methodological Guidance (EC (2001)) and the DoEHLG Guidance (DoEHLG (2009)) a review of all Natura 2000 sites that could be potentially affected by the proposed project was made using the NPWS online map viewer. These included any Natura 2000 sites within or adjacent to Ballyowen, Lucan and any Natura 2000 sites within the likely zone of impact of the proposed development (a 15km radius) including those downstream. In addition to the identified Natura 2000 sites consideration was also given to relevant species listed under Annexes I and II of the Birds and Habitats Directives respectively, which form part of the qualifying/conservation interests of the sites – namely Otter, Kingfisher, Light-bellied Brent Goose, Sandwich Tern, Roseate Tern, Arctic Tern, Common Tern, Peregrine Falcon, Merlin, Ring Ouzel, Red Grouse, and various species of bats.

The lands at Ballyowen, Lucan are not currently designated for any nature conservation purposes. The current proposed project is not directly connected with or necessary to the management of Natura 2000 sites in South Dublin County or elsewhere. There are no Natura 2000 sites located either within or directly adjacent to the project location at Ballyowen, Lucan, Co. Dublin.

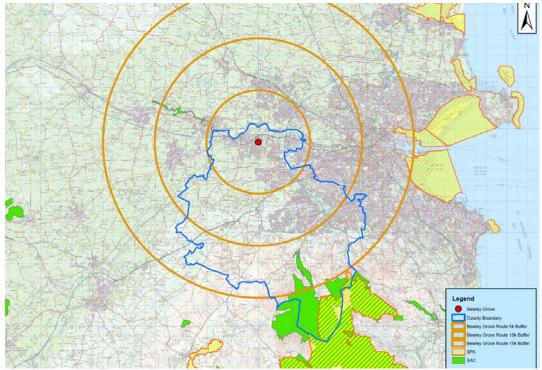


Figure 2.2: Showing location at Ballyowen, Lucan and Designated Natura 2000 sites

Best practice recommends assessing Natura 2000 sites located within 15km of a proposed plan or project. Those Natura 2000 sites occurring within a 15km radius of Ballyowen, Lucan, Co. Dublin are shown in **Figure 2.2** above and detailed in **Table 2.1** below. These include;

- Rye Water Valley/Carton SAC (Site Code: 001398)
- Glenasmole Valley SAC (Site Code: 001209)
- Wicklow Mountains SAC/SPA (Site Code: 002122/004040)
- South Dublin Bay SAC (Site Code: 000210)
- South Dublin Bay/Tolka Estuary SPA (Site Code: 004024)

Table 2.1 Natura 2000 sites within 15km of the location of the proposed project at Ballyowen, Lucan.

| Site Code | Site Name and Designation | Approximate distance from Ballyowen | Conservation Interest (summarised from site synopsis) |
|-----------|-----------------------------------|---|---|
| 001398 | Rye Water Valley/Carton SAC | 4.4km NW | (1014) Vertigo angustior (1016) Vertigo moulinsiana (7220) Petrifying springs with tufa formation (<i>Cratoneurion</i>) |
| 001209 | Glenasmole Valley SAC | 11.3km S | (6210) Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia) (*important orchid sites) (6410) <i>Molinia</i> meadows on calcareous, peaty or clavey-silt-laden soils (<i>Molinion caeruleae</i>) (7220) Petrifying springs with tufa formation (<i>Cratoneurion</i>) |

| Site Code | Site Name and Designation | Approximate distance from Ballyowen | Conservation Interest (summarised from site synopsis) |
|-----------|--|---|---|
| 004040 | Wicklow Mountains SPA | 12.9km S | Peregrine falcon (<i>Falco peregrinus</i>), Merlin (<i>Falco columbarius</i>), Ring Ouzel (<i>Turdus torquatus</i>), Red Grouse (<i>Lagopus lagopus</i>). |
| 002122 | Wicklow Mountains SAC | 12.9km S | (3130) Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea (3160) Natural dystrophic lakes and ponds, (4010) Northern Atlantic wet heaths with <i>Erica tetralix</i>, (4030) European dry heaths, (4060) Alpine and Boreal heaths, (6230) Species-rich Nardus grasslands, on siliceous substrates in mountain areas, (7130) Blanket bog (*active only), (8110) Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani), (8210) Calcareous rocky slopes with chasmophytic vegetation, (8220) Siliceous rocky slopes with chasmophytic vegetation, (9990) Blanket bog (not active), (1355) Otter (<i>Lutra lutra</i>), Peregrine falcon (<i>Falco peregrinus</i>), Merlin (<i>Falco columbarius</i>) |
| 000210 | South Dublin Bay SAC | 14.1km E and downstream | • (1140) Mudflats and sandflats not covered by seawater at low tide |
| 004024 | South Dublin Bay/Tolka Estuary SPA | 14.1km E and downstream | Brent goose (Branta bernicla hrota), Sandwich Tern (Sterna sandvicensis), Roseate Tern (Sterna dougallii), Common Tern (Sterna hirundo), Arctic Tern (Sterna paradisaea), Oystercatcher (Haematopus ostralegus), Ringed Plover (Charadrius hiaticula), Knot (Calidris canuta), Sanderling (Calidris alba), Dunlin (Calidris alpina), Bar-tailed Godwit (Limosa lapponica). |

There are no Natura 2000 sites located either within or directly adjacent to the lands at Ballyowen. There are no direct ecological or hydrological links (source-pathway-receptors) between the lands at Ballyowen and any of the Natura 2000 sites outlined above. As negative impacts on these Natura 2000 sites are therefore highly unlikely by virtue of distance and the absence of source-pathway-receptors, the proposed project at Ballyowen will have no direct relevance to these protected sites.

There are no other designated biodiversity areas affected by the proposed project at Ballyowen that have a recognised European Union or International protection status. Some of the Natura 2000 sites and a number of other sites in the area are also designated as proposed Natural Heritage Areas, these include:

• Glenasmole Valley pNHA (Site Code: 001029),

- Rye Water Valley/Carton pNHA (Site Code: 001398),
- Royal Canal pNHA (Site Code: 002103),
- Liffey Valley pNHA (Site Code: 00128),
- Grand Canal pNHA (Site Code: 002104),
- North Dublin Bay pNHA (Site Code: 000206),
- South Dublin Bay pNHA (Site Code: 000210),
- Dodder Valley pNHA (Site Code: 000991),
- Lugmore Glen pNHA (Site Code: 001212),
- Slade of Saggart and Crooksling pNHA (Site Code: Glen 000211),
- Kilteel Wood pNHA (Site Code: 001394),
- Santry Demesne (Site Code: 000178).

There are no ecological or hydrological links between the proposed project at Ballyowen and these or any other pNHA.

SECTION 3 DESCRIPTIONS OF NATURA 2000 SITES

There are no Natura 2000 sites located within or adjacent to the proposed project at Ballyowen. The Natura 2000 sites located within 15km of the route are listed in **Table 2.1** above and the full site synopsis for each site is presented in **Appendix 2**. A summary of the main elements of interest for each of these sites follows:

Rye Water Valley/Carton SAC (Site Code 001398) is located between Leixlip and Maynooth in Co. Kildare. It extends along the Rye Water, a tributary of the River Liffey. The woodlands at Carton Demesne are the site of a rare fungus, *Diderma deplanatum* and also support birds such as Blackcap, Woodcock, and Long-eared Owls. On or about the lake, birds such as Little Grebe, Coot, Moorhen, Tufted Duck, Teal, and Kingfisher have been recorded. Kingfisher is listed in Annex 1 of the EU Birds Directive. The mineral spring occurring on the site is also listed as an Annex 1 habitat of the EU Habitats Directive. The Rye Water is a spawning ground for Trout and Salmon while White-clawed crayfish *Austropotamobius pallipes* has been recorded at Leixlip. Rare snail species and dragonflies also occur in the marsh vegetation near to Louisa Bridge. The main importance of the site lies in the presence of several rare and threatened plant and animal species and of a rare habitat – thermal, mineral, petrifying spring.

Draft Conservation Objectives:

- 1. To maintain the Annex 1 habitats for which the SAC has been selected at favourable conservation status:- *Petrifying springs with tufa formation
- 2. To maintain the Annex 2 species for which the SAC has been selected at favourable conservation status: *Vertigo angustior, Vertigo moulinsiana*
- 3. To maintain the extent, species richness and biodiversity of the entire site.
- 4. To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

Glenasmole Valley SAC (Site Code: 001209) contains a high diversity of habitats and plant communities and lists three habitats listed on Annex I of the EU Habitats Directive: petrifying springs with tufa formation, semi-natural dry grassland and scrubland facies on calcareous substrate (*Festuco-Brometalia*) (important orchid sites), and *Molinia* meadows on calcareous, peaty, or clayey-silt-laden soils (*Molinion caeruleae*). Both petrifying springs and orchid-rich calcareous grasslands also qualify as Priority Habitats under the Habitats Directive. The presence of four Red Data Book plant species further enhances the value of the site as does the presence of populations of several mammal and bird species of conservation interest. The River Dodder flows through the valley and has been impounded here to form two reservoirs which supply water to south Dublin.

Draft Conservation Objectives:

- To maintain the Annex 1 habitats for which the SAC has been selected at favourable conservation status *Petrifying springs with tufa formation, Seminatural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (*important orchid sites), *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)
- 2 To maintain the extent, species richness and biodiversity of the entire site.
- 3 To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

Wicklow Mountains SPA (Site Code: 004040) is an extensive upland site, comprising a substantial part of the Wicklow Mountains (See Appendix for full site description). The site, which is within the Wicklow Mountains National Park, is fragmented into about twenty separate parcels of land. Much of the site is State-owned and managed for nature conservation based on traditional landuses for the uplands. The site is of high ornithological importance as it supports very good examples of upland and woodland bird communities, several of which are very rare at a national level. Two species, Ring Ouzel and Red Grouse, are Red-listed and their status is of high conservation concern.

Main Conservation Objective:

To maintain the special conservation interests for the SPA at favourable conservation status – Merlin, Peregrine.

Wicklow Mountains SAC (Site Code: 002122) is an important complex, extensive, upland site covering much of the Wicklow Mountains and a portion of the Dublin Mountain range. Within the boundaries of South Dublin County, the SAC encompasses the mountains of Ballymorefinn, Corrig, Kilakee, and Cruagh, stretching south to the summit of Kippure Mountain at the border with County Wicklow. While the entire SAC lists ten habitats listed in Annex I of the EU Habitats Directive, the vegetation within the South Dublin County portion of the site mainly provides good examples of the typical upland habitats of heath, blanket bog and upland grassland. Several rare, protected plant and animal species also occur in this SAC.

Draft Conservation Objectives:

- 1 To maintain the Annex 1 habitats for which the SAC has been selected at favourable conservation status:- Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea; Natural dystrophic lakes and ponds; Northern Atlantic wet heaths with *Erica tetralix*; European dry heaths; Alpine and Boreal heaths; Species-rich *Nardus* grasslands, on siliceous substrates in mountain areas (and sub mountain areas, in Continental Europe); Blanket bog; Siliceous scree of the montane to snow levels; (Androsacetalia alpinae and Galeopsietalia ladani); Calcareous rocky slopes with chasmophytic vegetation; Siliceous rocky slopes with chasmophytic vegetation; Old sessile oak woods with *Ilex* and *Blechnum* in British Isles.
- 2 To maintain the Annex 2 species for which the SAC has been selected at favourable conservation status: *Lutra lutra*
- 3 To maintain the extent, species richness and biodiversity of the entire site.
- 4 To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

South Dublin Bay SAC (Site Code 000210) lies south of the River Liffey and extends from the South Wall to the west pier at Dun Laoghaire (See Appendix for full site description). It is a fine example of a coastal system with extensive sand and mudflats. South Dublin Bay is also an internationally important bird site.

Draft Conservation Objectives:

- 1. To maintain the Annex 1 habitats for which the SAC has been selected at favourable conservation status: Mudflats and sandflats not covered by seawater at low tide.
- 2. To maintain the extent, species richness and biodiversity of the entire site.
- 4 To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

South Dublin Bay and River Tolka Estuary SPA (Site Code 004024) comprises a substantial part of Dublin Bay. It includes the intertidal area between the River Liffey and Dun Laoghaire, and the estuary of the River Tolka to the north of the River Liffey, as well as Booterstown Marsh. A portion of the shallow marine waters of the bay is also included (See Appendix for full site description).

The site is an important site for wintering waterfowl, being an integral part of the internationally important Dublin Bay complex. It is of international importance for Lightbellied Brent Goose and of national importance for nine other waterfowl species. As an autumn tern roost, it is also of international importance. Furthermore, the site supports a nationally important colony of Common Tern. All of the tern species using the site are listed on Annex I of the E.U. Birds Directive, as are Bar tailed Godwit and Mediterranean Gull.

Main Conservation Objective:

To maintain the special conservation interests for the SPA at favourable conservation status – Light-bellied Brent Goose, Oystercatcher, Ringed Plover, Golden Plover, Knot, Sanderling, Dunlin, Bar-tailed Godwit, Redshank, Black-headed Gull, Roseate Tern, Common Tern, Arctic Tern, and Wetland and Waterbirds.

SECTION 4 ASSESSMENT OF POTENTIAL IMPACTS

4.1 ASSESSMENT OF PROPOSED PROJECT, BALLYOWEN, LOCAN.

The potential impacts of the proposed project at Ballyowen, Lucan on nearby Natura 2000 sites are assessed using the following factors:

- size and scale
- land-take
- distance from the Natura 2000 site or key features of the site
- resource requirements (water abstraction etc.)
- emissions (disposal to land, water or air)
- excavation requirements
- transportation requirements
- duration of construction, operation, decommissioning, etc.
- reduction of habitat area
- disturbance to key species
- habitat or species fragmentation
- reduction in species density
- changes in key indicators of conservation value (water quality etc.)
- climate change
- key relationships that define the structure of the sites
- key relationships that define the function of the site

| Brief description of the project or plan | The proposal consists of 2no. options as follows: |
|--|---|
| | Option A: Closure of right of way with provision of a fence and piers. Provision of a fence to match existing adjacent fence on Mount Bellew Way to be installed from the end of the existing fence running parallel to Mount Bellew Way to the end of the hedgerow at St. Andrew's Fairway. Concrete piers to be provided at intervals as required. |
| | • All ancillary works |
| | Option B: Enhancement of right of way & provision of car parking/ set downs Provision of a new 2m wide footpath/walkway from Mount Bellew Way to Bewley Grove |
| | • Provision of a new 2m wide footpath/ walkway from Mount Bellew Way to St. Andrew's Fairway |
| | • New landscape design, public lighting in association with the new footpaths |

| | Provision of vehicular set down area along Mount Bellew Way (opposite the school), including realignment of existing footpath and provision of a raised pedestrian crossing Provision of new public car park and vehicular entrance at Willsbrook Park with associated works Provision of a vehicular set down area on the R136 (Outer Ring Road) All ancillary works |
|---|---|
| | |
| Brief description of the Natura 2000 sites | There are no Natura 2000 sites either within or directly adjacent to the proposed project at Ballyowen, Lucan. Natura 2000 sites occurring within and just outside of a 15km radius from Ballyowen include the following which are described briefly in Section 3 and in detail in Appendix 2: Rye Water Valley/Carton SAC (Site Code: 001398 Glenasmole Valley SAC (Site Code: 001029) Wicklow Mountains SAC/SPA (Site Code: 002122/004040) South Dublin Bay SAC (Site Code: 000210) South Dublin Bay/Tolka Estuary SPA (Site Code: 004024) |
| Describe the individual elements of the | As the proposed project sits within the |
| project (either alone or in combination | framework of the South Dublin County |
| with other plans or projects) likely to give | Development Plan 2010-2016, which itself |
| rise to impacts on the Natura 2000 sites | has been subject to Screening for Appropriate Assessment, there are no cumulative elements expected which are likely to give rise to impacts on Natura 2000 sites |
| Describe any likely direct, indirect or | The proposed project is not within or directly |
| secondary impacts of the project (either | adjacent to any Natura 2000 site, therefore |
| alone or in combination with other plans | there will be no impacts arising from the |
| or projects) on the Natura 2000 site by virtue of: | project regarding size and scale or land-take. |
| size and scale; | The proposed project is over 4km distant |
| size and scale, land-take; | from the nearest Natura 2000 site (Rye |
| distance from the Natura 2000 site | Water/Carton SAC) to which there is no |
| or key features of the site; | hydrological or ecological link. Apart from |
| resource requirements (water | the Dublin Bay Natura 2000 sites, there are |
| abstraction etc.); | also no potential ecological or hydrological |
| • emissions (disposal to land, water | links to the other Natura 2000 sites listed in |
| or air); excavation requirements; | Table 2.1. |
| transportation requirements; | There are no requirements to shotreat water |
| • duration of construction, | There are no requirements to abstract water from any Natura 2000 site. |
| operation, decommissioning, etc.; | from any Future 2000 site. |

| • other | The potential for emissions relates primarily to surface water disposal from the footpaths and car parking areas. These activities will be subject to the over-arching policies and objectives listed in the SDCC County Development Plan 2010-2016 that relate specifically to water protection (See Appendix 3) and to Regional and National frameworks. Due to the location of the proposed project at distance from any Natura 2000 site, there are also no impacts to Natura 2000 sites expected from transportation, duration of construction, operation, or decommissioning of any alament of the proposed project |
|--|---|
| | element of the proposed project. |
| Describe any likely changes to the site | Due to the distance of the proposed |
| arising as a result of: | development from any Natura 2000 site and |
| reduction of habitat area disturbance to key species; | the expected implementation of Development Plan policies and objectives relating to the |
| disturbance to key species;habitat or species fragmentation; | maintenance and protection of water quality, |
| nabilat or species fragmentation; reduction in species density; | there are no changes expected to any Natura |
| reduction in species density, changes in key indicators of | 2000 site relating to habitat or species |
| conservation value (water quality | reduction, changes to key indicators of |
| etc.); | conservation value, or to climate change |
| climate change | |
| Describe any likely impacts on the Natura 2000 site as a whole in terms of: • interference with the key relationships that define the | The sole potential impact identified relates to possible deterioration in water quality leaving the project and impacting downstream on the Dublin Bay Natura 2000 sites. |
| structure of the siteinterference with key relationships | However, due to the considerable distance of |
| • interference with key relationships that define the function of the site | the route from these sites, coupled with |
| | Council's adherence to the strong policies for ground and surface water protection contained in the South Dublin County |
| | Development Plan 2010-2016, any such |
| | impacts on either the structure or function of |
| | the sites in question will be avoided |
| Provide indicators of significance as a result of the identification of effects set out | There will be no impacts to Natura 2000 sites |
| above in terms of: | relating to loss, fragmentation, disruption, disturbance, or changes to key elements of |
| Loss | the site. |
| Fragmentation | |
| Disruption | |
| Disturbance | |
| Change to key elements of the site | |
| (e.g. water quality etc.) | |
| Describe from the above those elements of | There will be no direct, indirect, or |
| the project or plan, or combination of elements, where the above impacts are likely to be significant or where the scale | cumulative impacts from the proposed project on Natura 2000 sites. |
| or magnitude of impacts is not known. | |

SECTION 5 CONCLUSIONS

This screening report has evaluated the proposed project at Ballyowen, Lucan, to determine whether or not significant negative impacts on Natura 2000 sites are likely to arise by virtue of the it's construction and use. The report finds that the project will not, either individually or in combination with other plans and projects, give rise to significant effects on the integrity of any Natura 2000 site.

The Appropriate Assessment procedure for this proposed Plan is therefore concluded at this Screening Stage and a detailed (Stage 2) Appropriate Assessment is not required.

APPENDIX 1. MOUNT BELLEW WAY, BALLYOWEN, LUCAN – PART 8

SOUTH DUBLIN COUNTY COUNCIL Planning and Development Act 2000 - 2011(as amended) Planning and Development Regulations, 2001 to 2012 - Part 8

SITE NOTICE

Notice is hereby given of the proposal to provide the following scheme by **South Dublin County Council** of proposed works in relation to the existing public right of way over grassed strip at Bewley Grove and Mount Bellew Way, Ballyowen, including for 2no. options at this site <u>Ballyowen, Lucan</u>

The proposal consists of 2no. options:

Option A: Closure of right of way with provision of a fence and piers.

- Provision of a fence to match existing adjacent fence on Mount Bellew Way to be installed from the end of the existing fence running parallel to Mount Bellew Way to the end of the hedgerow at St. Andrew's Fairway. Concrete piers to be provided at intervals as required.
- All ancillary works

Option B: Enhancement of right of way & provision of car parking/ set downs

- Provision of a new 2m wide footpath/ walkway from Mount Bellew Way to Bewley Grove
- Provision of a new 2m wide footpath/ walkway from Mount Bellew Way to St. Andrew's Fairway
- New landscape design, public lighting in association with the new footpaths
- Provision of vehicular set down area along Mount Bellew Way (opposite the school), including realignment of existing footpath and provision of a raised pedestrian crossing
- Provision of new public car park and vehicular entrance at Willsbrook Park with associated works
- Provision of a vehicular set down area on the R136 (Outer Ring Road)
- All ancillary works

The proposal has undergone Appropriate Assessment Screening under the Habitats Directive (92/43/EEC).

Plans and particulars of the proposed scheme will be available for inspection or purchase at a fee not exceeding the reasonable cost of making a copy from Tuesday 27th of August 2013 to Tuesday 8th October 2013 at the following locations:

- South Dublin Councy Council Offices, County Hall, Tallaght, Dublin 24 between the hours of 9:00 am – 5.00pm Monday to Thursday and 9.00am - 4.30pm on Friday (Inspection and purchase)
- Clondalkin Civic Centre, Ninth Lock Road, Clondalkin, Dublin 22 between the hours of 9:00 am 5.00pm Monday to Thursday and 9.00am 4.30pm on Friday (Inspection only)
- Lucan Library, Superquinn Shopping Centre, Newcastle Road, Lucan, Co. Dublin between the hours of 9.45 am to 8 pm Mon to Thurs. 9.45am to 4.30pm Fri to Sat. Closed Saturdays and Mondays of Bank Holiday Weekends (Inspection only)
- The plans and particulars can be viewed on South Dublin County Council's website <u>www.sdcc.ie</u>

Written submissions or observations with respect to the proposed development dealing with the proper planning and sustainable development of the area in which the proposed development would be situated may be made up to **4.30pm on** <u>Wednesday 23rd October 2013</u> and must be addressed to;

Tony Shanahan, Administrative Officer, Economic, Development and Transport Planning Department, South Dublin County Council, County Hall, Tallaght, Dublin 24. Submissions by email may be made to <u>travelsmart@sdublincoco.ie</u> Date Site Notice Erected: ______

APPENDIX 2. NATURA 2000 SITE DESCRIPTIONS (as listed in Table 2.2)

SITE SYNOPSIS

SITE CODE: RYE WATER VALLEY/CARTON

SITE CODE: 001398

This site is located between Leixlip and Maynooth. It extends along the Rye Water, a tributary of the R. Liffey.

The Rye Water in Carton Estate is dammed at intervals, creating a series of lakes. Reed Grass (*Glyceria maxima*) is frequent around the lakes, along with Yellow Flag (*Iris pseudacorus*), Reed Canary-grass (*Phalaris arundinacea*), Bulrush (*Typha latifolia*), Water Forget-me-not (*Myosotis scorpioides*), Marsh Marigold (*Caltha palustris*) and Starwort (*Callitriche* spp.). Along the remainder of the site the river has recently been dredged and much of the Reed fringe removed.

To the north-west of Carton Bridge a small clump of Willows (*Salix* spp.), with Dogwood (*Cornus* sp.) some Alder (*Alnus glutinosa*), Ash (*Fraxinus excelsior*) and Elder (*Sambucus nigra*) occurs. The ground flora found here includes Golden Saxifrage (*Chrysosplenium oppositifolium*), Meadowsweet (*Filipendula ulmaria*), Common Valerian (*Valeriana officinalis*), Wavy Bitter-cress (*Cardamine flexuosa*) and Bittersweet (*Solanum dulcamara*).

The woods on Carton Estate are mostly old demesne woods with both deciduous and coniferous species. Conifers, including some Yew (*Taxus baccata*) are dominant, with Beech (*Fagus sylvatica*), Oak (*Quercus sp.*), Sycamore (*Acer pseudoplatanus*), Ash and Hazel (*Corylus avellana*) also occurring. The ground flora is dominated by Ivy (*Hedera helix*) with such species as Hedge Woundwort (*Stachys sylvatica*), Wood Speedwell (*Veronica montana*), Woodruff (*Galium odoratum*), Wood Avens (*Geum urbanum*), Common Dog- violet (*Viola riviniana*), Wild Angelica (*Angelica sylvestris*), Ramsons (*Allium ursinum*), Ground-ivy (*Glechoma hederacea*) and Ivy Broomrape (*Orobanche hederae*) also occurring.

Hairy St. John's-wort (*Hypericum hirsutum*), a species legally protected under the Flora Protection Order (1987), occurs in Carton Estate; there is an old record from the estate for the similarly protected, Hairy Violet (*Viola hirta*), but this has not been recorded from here in recent years. Another species listed in the Red Data Book, Green Figwort (*Scrophularia umbrosa*), occurs on the site in several locations by the Rye Water. The woods at Carton Demesne are the site of a rare Myxomycete fungus, *Diderma deplanatum*.

Within the woods, Blackcap, Woodcock and Long-eared Owl have been recorded. Little Grebe, Coot, Moorhen, Tufted Duck, Teal and Kingfisher, the latter a species listed on Annex I of the EU Birds Directive, occur on and about the lake.

The marsh, mineral spring and seepage area found at Louisa Bridge supports a good diversity of plant species, including Stoneworts, Arrowgrass (*Triglochin palustris*), Purple Moor-grass (*Molinia caerulea*), Sedges (*Carex* spp.), Common Butterwort (*Pinguicula vulgaris*), Marsh Lousewort (*Pedicularis palustris*), Grass-of-parnassus (*Parnassia palustris*) and Cuckooflower (*Cardamine pratensis*). The mineral spring found at the site is of a type considered to be rare in Europe and is a habitat listed on Annex I of the EU Habitats Directive. The Red Data Book species Blue Fleabane (*Erigeron acer*) is found growing on a wall at Louisa Bridge. The Rye Water is a spawning ground for Trout and Salmon, and the rare, White-clawed Crayfish (*Austropotamobius pallipes*) has been recorded at Leixlip. The latter two species are listed on Annex II of the EU Habitats Directive. The semi-aquatic

snails *Vertigo angustior* and *V. moulinsiana* occur in marsh vegetation near Louisa Bridge; both are rare in Ireland and Europe and are listed on Annex II of the EU Habitats Directive.

The scarce Dragonfly, *Orthetrum coerulescens*, has been recorded at Louisa Bridge. The main importance of the site lies in the presence of several rare and threatened plant and animal species, and of a rare habitat, thermal, mineral, petrifying spring. The woods found on Carton Estate and their birdlife are of additional interest.

7.5.2003

SITE SYNOPSIS

SITE NAME: GLENASMOLE VALLEY

SITE CODE: 001209

Glenasmole Valley in south Co. Dublin lies on the edge of the Wicklow uplands, approximately 5 km from Tallaght. The River Dodder flows through the valley and has been impounded here to form two reservoirs which supply water to south Dublin. The non-calcareous bedrock of the Glenasmole Valley has been overlain by deep drift deposits which now line the valley sides. They are partly covered by scrub and woodland, and on the less precipitous parts, by a herb-rich grassland. There is much seepage through the deposits, which brings to the surface water rich in bases, which induces local patches of calcareous fen and, in places, petrifying springs, a priority habitat listed on Annex I of the EU Habitats Directive.

Examples of calcareous fen and flush areas occur between the two reservoirs, where sedges (*Carex flacca* and *Carex panicea*) are joined by such species as Grass of Parnassus (*Parnassia palustris*), Few-flowered Spike-rush (*Eleocharis quinqueflora*), Zig-zag clover (*Trifolium medium*) and the scarce Fen Bedstraw (*Galium uliginosum*).

Orchid-rich grassland occurs in the drier parts of this site and in places grades into *Molinia* meadow, both of these habitats are listed on Annex I of the EU Habitats Directive. Species recorded in these habitats include Frog Orchid (*Coeloglossum viride*), Northern Marsh-orchid (*Dactylorhiza purpurella*), Fragrant Orchid (*Gymnadenia conopsea*), Marsh Helleborine (*Epipactis palustris*), Early-purple Orchid (*Orchis mascula*) and Greater Butterfly Orchid (*Platanthera chlorantha*).

Two Red Data Book species have also been found here, Green-winged Orchid (*Orchis morio*) and Small-white Orchid (*Pseudorchis albida*). The sward includes Sweet Vernal-grass (*Anthoxanthum odoratum*), Creeping Bent (*Agrostis stolonifera*) and Crested Dog's-tail (*Cynosurus cristatus*). Other species which occur are Common Bird's-foot-trefoil (*Lotus corniculatus*), Kidney Vetch (*Anthyllis vulneraria*), Common Restharrow (*Ononis repens*), Yellow-wort (*Blackstonia perfoliata*) and Autumn Gentian (*Gentianella amarella*).

Woodland occurs in patches around the site. On the east side of the valley, below the northern lake, a Hazel (*Corylus avellana*) wood has developed on the unstable calcareous slopes and includes Ash (*Fraxinus excelsior*), Downy Birch (*Betula pubescens*), Goat Willow (*Salix caprea*) and (Irish) Whitebeam (*Sorbus hibernica*). Spring Wood-rush (*Luzula pilosa*), Wood Speedwell (*Veronica montana*) and Brambles (*Rubus fruticosus* agg.) are included in the ground flora.

Wet semi-natural broad-leaved woodland is also found around the reservoirs and includes Alder (*Alnus glutinosa*) and Willow (*Salix* spp.) with Yellow Iris (*Iris pseudacorus*), Horsetail (*Equisetum* spp.), Brambles and localised patches of Japanese Knotweed (*Reynoutria japonica*), an introduced species.

The lake shore vegetation is not well developed, which is typical of a reservoir. There are occasional patches of Canary-grass (*Phalaris arundinacea*) and Purple-loosestrife (*Lythrum salicaria*), which are more extensive around the western shore of the northern lake, along with Common Marsh-bedstraw (*Galium palustre*) and Water Mint (*Mentha aquatica*). Other vegetation includes Shoreweed (*Littorella uniflora*) and the scarce Water Sedge (*Carex aquatilis*).

As well as the Green-winged Orchid and Small-white Orchid, two other threatened species which are listed in the Irish Red Data Book also occur in the site, Yellow Archangel (*Lamiastrum galeobdolon*) and Yellow Bird's-nest (*Monotropa hypopitys*).

The site provides excellent habitat for bat species, with at least four species recorded: Pipistrelle, Leisler's, Daubenton's and Brown Long-eared Bat. Otter occurs along the river and reservoirs. These habitats also support Kingfisher, an Annex I species under the EU Birds Directive.

Glenasmole Valley contains a high diversity of habitats and plant communities, including three habitats listed on Annex I of the EU Habitats Directive. The presence of four Red Data Book plant species further enhances the value of the site as does the presence of populations of several mammal and bird species of conservation interest.

03.09.2001

SITE SYNOPSIS

SITE NAME: WICKLOW MOUNTAINS SPA

SITE CODE: 004040

This is an extensive upland site, comprising a substantial part of the Wicklow Mountains. The underlying geology of the site is mainly of Leinster granites, flanked by Ordovician schists, mudstones and volcanics. The area was subject to glaciation and features fine examples of glacial lakes, deep valleys and moraines. Most of site is over 300 m, with much ground being over 600 m; the highest peak is Lugnaquilla (925 m). The substrate over much of site is peat, with poor mineral soil occurring on the slopes and lower ground. Exposed rock and scree are features of the site.

The dominant habitats present are blanket bog, heaths and upland grassland. The bog habitat is usually dominated by Ling (*Calluna vulgaris*), Cross-leaved Heath (*Erica tetralix*), Cottongrasses (*Eriophorum vaginatum* and *E. angustifolium*), Deergrass (*Scirpus cespitosus*) and Bog Asphodel (*Narthecium ossifragum*). Bog mosses (*Sphagnum* spp.) are well represented. On shallower peats, dry heath is represented by such species as Ling, Gorse (*Ulex* spp.), Bell Heather (*Erica cinerea*), Bilberry (*Vaccinium myrtillus*), Purple Moor-grass (*Molinia caerulea*) and lichens (*Cladonia* spp.). Fine examples of native Oak woodlands are found in the Glendalough area, and include Sessile Oak (*Quercus petraea*) trees of 100-120 years old. Glendalough Lake is a good example of an oligotrophic system.

The site supports good examples of both upland and woodland bird communities. The open peatlands provide excellent foraging habitat for Merlin (5-10 pairs) and Peregrine (c. 10 pairs). The Merlins nest in old crows nests, whilst the Peregrines nest on cliffs and crags. Other birds of the open peatlands and scree slopes include Ring Ouzel, now a very rare bird in Ireland, and Red Grouse. The Wicklow uplands are the only regular location in Ireland where Goosander breeds, with the Glendalough lakes being a regular site. This species was proved to be breeding only as recently as 1994 and it is now well established. Whinchat, a localised species in Ireland, breeds within the site.

The Glendalough Oak woods are a regular location for several rare breeding passerines. Redstart is recorded most years and 1-2 pairs probably breed. Wood Warbler is another annual visitor, with perhaps up to 5 pairs in some years. Recently, Garden Warbler has been recorded, whilst Blackcap has a very strong breeding population.

The site, which is within the Wicklow Mountains National Park, is fragmented into about twenty separate parcels of land. Much of the site is State-owned and managed for nature conservation based on traditional landuses for the uplands. The most common landuse is traditional sheep grazing. Other land uses include turf-cutting, mostly by hand though some machine-cutting also occurs. Grazing by sheep and deer in the woodlands can be damaging as it prevents or reduces regeneration. Dublin City is close to the site and amenity use is very high; if not properly controlled, recreational activities could cause disturbance to some bird species.

This site is of high ornithological importance as it supports very good examples of upland and woodland bird communities. Several of the species which occur are very rare at a national level. Two species, Ring Ouzel and Red Grouse, are Red-listed and their status is of high conservation concern. Also of note is that Merlin and Peregrine are both listed on Annex I of the E.U. Birds Directive.

25.8.2004

SITE SYNOPSIS

SITE NAME: WICKLOW MOUNTAINS

SITE CODE: 002122

This site is a complex of upland areas in Counties Wicklow and Dublin, flanked by Blessington Reservoir to the west and Vartry Reservoir in the east, Cruagh Mt. in the north and Lybagh Mt. in the south. Most of the site is over 300m, with much ground over 600m and the highest peak of Lugnaquilla at 925m.

The Wicklow Uplands comprise a core of granites flanked by Ordovician schists, mudstones and volcanics. The form of the Wicklow Glens is due to glacial erosion. The Wicklow Mountains are drained by several major rivers including the Dargle, Liffey, Dodder, Slaney and Avonmore. The river water in the mountain areas is often peaty, especially during floods.

The topography is typical of a mountain chain, showing the effects of more than one cycle of erosion. The massive granite has weathered characteristically into broad domes. Most of the western part of the site consists of an elevated moorland, covered by peat. The surrounding schists have assumed more diverse outlines, forming prominent peaks and rocky foothills with deep glens. The dominant topographical features are the products of glaciation. High corrie lakes, deep valleys and moraines are common features of this area. The substrate over much of the area is peat, usually less than 2m deep. Poor mineral soil covers the slopes and rock outcrops are frequent

The vegetation over most of the site is a mosaic of heath, blanket bog and upland grassland (mostly on peaty soil, though some on mineral soil), with stands of dense Bracken (*Pteridium aquilinum*) and small woodlands mainly along the rivers. Mountain loughs and corrie lakes are scattered throughout the site. The site supports many habitats that are listed on Annex I of the E.U. Habitats Directive.

The two dominant vegetation communities in the area are heath and blanket bog. Heath vegetation, with both wet and dry heath well represented, occurs in association with blanket bog, upland acid grassland and rocky habitats. The wet heath is characterised by species such as Ling (*Calluna vulgaris*), Cross-leaved Heath (*Erica tetralix*), Cottongrasses (*Eriophorum* spp.), Tormentil (*Potentilla erecta*), Mat-grass (*Nardus stricta*), Bent grasses (*Agrostis* spp.) and bog mosses (*Sphagnum* spp.). In places the wet heath occurs in conjunction with flush communities and streamside vegetation, and here species such as Heath Rush (*Juncus squarrosus*) and *Carex* spp. are found. Dry heath at this site is confined to shallow peaty soils on steep slopes where drainage is better and particularly in sheltered conditions. It is characterised by species such as Ling, Gorse (*Ulex* spp.), Bell Heather (*Erica cinerea*), Bilberry (*Vaccinium myrtillus*), Purple Moor-grass (*Molinia caerulea*) and lichens (*Cladonia spp.*). In places the heath grades into upland grassland on mineral soil, some examples of which correspond to the E.U. Habitats Directive Annex I priority habitat species-rich *Nardus* grassland.

Blanket bog is usually dominated by Cottongrasses, Ling and bog mosses (*Sphagnum* spp.). On steeper slopes there is some flushing and here Purple Moor-grass, Heath Rush, and certain *Sphagnum* species become more common. The Liffey Head blanket bog is among the best of its kind in eastern Ireland, with deep peat formations and an extensive system of dystrophic pools developed among the hummocks and hollows on the bog surface. The vegetation is largely dominated by Ling and Cross-leaved Heath, with Cottongrasses (*Eriophorum vaginatum* and *E. angustifolium*), Deergrass (*Scirpus cespitosus*) and Bog Asphodel (*Narthecium ossifragum*). In drier areas, Bilberry and Cowberry (*Vaccinium vitis-idaea*) are common, while the scarce Bog Rosemary (*Andromeda polifolia*) is also found. Blanket bog

occurs over extensive areas of deeper peat on the plateau and also on gentle slopes at high altitudes. Peat erosion is frequent on the peaks - this may be a natural process, but is likely to be accelerated by activities such as grazing.

Due to the underlying rock strata, the water of the rivers and streams tends towards acidity. The water is generally oligotrophic and free from enrichment. The lakes within the area range from the high altitude lakes of Lough Firrib and Three Lakes, to the lower pater-noster lakes of Glendalough, Lough Tay and Lough Dan. Spectacular corrie lakes (such as Loughs Bray (Upper and Lower), Ouler, Cleevaun, Arts, Kellys and Nahanagan) exhibit fine sequences of moraine stages. The deep lakes are characteristically species poor, but hold some interesting plants including an unusual form of Quillwort (*Isoetes lacustris* var. *morei*), a Stonewort (*Nitella* sp.) and Floating Bur-reed (*Sparganium angustifolium*). The Red Data Book fish species Arctic Char has been recorded from Lough Dan, but this population may now have died out.

Alpine vegetation occurs on some of the mountain tops, notably in the Lugnaquilla area, and also on exposed cliffs and scree slopes elsewhere in the site. Here alpine heath vegetation is represented with species such as Crowberry (*Empetrum nigrum*), Cowberry, Dwarf Willow (*Salix herbacea*), the grey-green moss *Racomitrium lanuginosum* and scarce species such as Mountain Clubmoss (*Diphasiastrum alpinum*), Firmoss (*Huperzia selago*), and Starry Saxifrage (*Saxifraga stellaris*). Some rare arctic-alpine species have been recorded, including Alpine Lady's-mantle (*Alchemilla alpina*) and Alpine Saw-Wort (*Saussurea alpina*).

Small areas of old oakwood (Blechno-Quercetum petraeae type) occur on the slopes of Glendalough and Glenmalure, near L. Tay and L. Dan, with native Sessile Oak (*Quercus petraea*) 100-120 years old. On wetter areas, wet broadleaved semi-natural woodlands occur, which are dominated by Downy Birch (*Betula pubescens*). Mixed woodland with non-native tree species also occurs.

The site supports a range of rare plant species, which are listed in the Irish Red Data Book: Parsley Fern (*Cryptogramma crispa*), Marsh Clubmoss (*Lycopodiella inundata*), Greater Broom-rape (*Orobanche rapum-genistae*), Alpine Lady's-mantle, Alpine Saw-wort, Lanceolate Spleenwort (*Asplenium billotii*), Small White Orchid (*Pseudorchis albida*) and Bog Orchid (*Hammarbya paludosa*). The latter three species are legally protected under the Flora (Protection) Order, 1999. The rare Myxomycete fungus, *Echinostelium colliculosum*, has been recorded from the Military Road.

Mammals and birds which occur are typical of the uplands. Deer are abundant, mainly hybrids between Red and Sika Deer. Other mammals include Hare, Badger and Otter, the latter being a species listed on Annex II of the E.U. Habitats Directive. Pine Marten has recently been confirmed as occurring within the site. Among the birds, Meadow Pipit, Skylark, Raven and Red Grouse are resident throughout the site. Wheatear, Whinchat and the scarce Ring Ouzel are summer visitors. Wood Warbler and Redstarts are rare breeding species of the woodlands. Dipper and Grey Wagtail are typical riparian species. Merlin and Peregrine Falcon, both Annex I species of the EU Birds Directive, breed within the site. Recently, Goosander has become established as a breeding species.

Large areas of the site are owned by NPWS, and managed for nature conservation based on traditional landuses for the uplands. The most common landuse is traditional sheep grazing. Other land uses include turf-cutting, mostly hand-cutting but some machine-cutting occurs. These activities are largely confined to the Military Road, where there is easy access. Large areas which had been previously hand-cut and are now abandoned, are regenerating. In the last 40 years, forestry has become an important landuse in the uplands, and has affected both the wildlife and the hydrology of the area. Amenity use is very high, with Dublin city close to the site.

Wicklow Mountains is important as a complex, extensive upland site. It shows great diversity from a geomorphological and a topographical point of view. The vegetation provides examples of the typical upland habitats with heath, blanket bog and upland grassland covering large, relatively undisturbed areas. In all ten habitats listed on Annex I of the EU Habitats Directive are found within the site. Several rare, protected plant and animal species occur.

12.10.2001

SITE SYNOPSIS

SITE NAME: SOUTH DUBLIN BAY

SITE CODE: 000210

This site lies south of the River Liffey and extends from the South Wall to the west pier at Dun Laoghaire. It is an intertidal site with extensive areas of sand and mudflats, a habitat listed on Annex I of the E.U. Habitats Directive. The sediments are predominantly sands but grade to sandy muds near the shore at Merrion gates.

The main channel which drains the area is Cockle Lake. There is a bed of Eelgrass (*Zostera noltii*) below Merrion Gates which is the largest stand on the east coast. Green algae (*Enteromorpha* spp. and *Ulva lactuca*) are distributed throughout the area at a low density. Fucoid algae occur on the rocky shore in the Maretimo to Dún Laoghaire area. Species include *Fucus spiralis*, *F. vesiculosus*, *F. serratus*, *Ascophyllum nodosum* and *Pelvetia canaliculata*. Lugworm (*Arenicola marina*) and Cockles (*Cerastoderma edule*) and other annelids and bivalves are frequent throughout the site. The small gastropod *Hydrobia ulvae* occurs on the muddy sands off Merrion Gates.

South Dublin Bay is an important site for waterfowl. Although birds regularly commute between the south bay and the north bay, recent studies have shown that certain populations which occur in the south bay spend most of their time there. The principal species are Oystercatcher (1215), Ringed Plover (120), Sanderling (344) and Dunlin (2628), Redshank (356) (average winter peaks 1996/97 and 1997/98). Up to 100 Turnstones are usual in the south bay during winter. Brent Geese regularly occur in numbers of international importance (average peak 299). Bar-tailed Godwit (565), a species listed on Annex I of the EU Birds Directive, also occur.

Large numbers of gulls roost in South Dublin Bay, e.g. 4,500 Black-headed Gulls in February 1990; 500 Common Gulls in February 1991. It is also an important tern roost in the autumn, regularly holding 2000-3000 terns including Roseate Terns, a species listed on Annex I of the E.U. Birds Directive. South Dublin Bay is largely protected as a Special Protection Area. At low tide the inner parts of the south bay are used for amenity purposes. Bait digging is a regular activity on the sandy flats. At high tide some areas have windsurfing and jet-skiing.

This site is a fine example of a coastal system with extensive sand and mudflats, a habitat listed on Annex I of the E.U. Habitats Directive. South Dublin Bay is also an internationally important bird site.

25.2.2000

SITE SYNOPSIS

SITE NAME: SOUTH DUBLIN BAY AND RIVER TOLKA ESTUARY SPA

SITE CODE: 004024

The South Dublin Bay and River Tolka Estuary SPA comprises a substantial part of Dublin Bay. It includes the intertidal area between the River Liffey and Dun Laoghaire, and the estuary of the River Tolka to the north of the River Liffey, as well as Booterstown Marsh. A portion of the shallow marine waters of the bay is also included.

In the south bay, the intertidal flats extend for almost 3 km at their widest. The sediments are predominantly well-aerated sands. Several permanent channels exist, the largest being Cockle Lake. A small sandy beach occurs at Merrion Gates, while some bedrock shore occurs near Dun Laoghaire. The landward boundary is now almost entirely artificially embanked. There is a bed of Dwarf Eelgrass (*Zostera noltii*) below Merrion Gates which is the largest stand on the east coast. Green algae (*Enteromorpha* spp. and *Ulva lactuca*) are distributed throughout the area at a low density. The macro-invertebrate fauna is well-developed, and is characterised by annelids such as Lugworm (*Arenicola marina*), *Nephthys* spp. and Sand Mason (*Lanice conchilega*), and bivalves, especially Cockle (*Cerastoderma edule*) and Baltic Tellin (*Macoma balthica*). The small gastropod Spire Shell (*Hydrobia ulvae*) occurs on the muddy sands off Merrion Gates, along with the crustacean *Corophium volutator*.

Sediments in the Tolka Estuary vary from soft thixotrophic muds with a high organic content in the inner estuary to exposed, well-aerated sands off the Bull Wall. The site includes Booterstown Marsh, an enclosed area of saltmarsh and muds that is cut off from the sea by the Dublin/Wexford railway line, being linked only by a channel to the east, the Nutley stream. Sea water incursions into the marsh occur along this stream at high tide. An area of grassland at Poolbeg, north of Irishtown Nature Park, is also included in the site.

The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species: Light-bellied Brent Goose, Oystercatcher, Ringed Plover, Golden Plover, Grey Plover, Knot, Sanderling, Dunlin, Bar-tailed Godwit, Redshank, Black-headed Gull, Roseate Tern, Common Tern and Arctic Tern. The E.U. Birds Directive pays particular attention to wetlands, and as these form part of the SPA, the site and its associated waterbirds are of special conservation interest for Wetland & Waterbirds.

The site is an important site for wintering waterfowl, being an integral part of the internationally important Dublin Bay complex – all counts for wintering waterbirds are mean peaks for the five year period 1995/96-99/2000. Although birds regularly commute between the south bay and the north bay, recent studies have shown that certain populations which occur in the south bay spend most of their time there. An internationally important population of Light-bellied Brent Goose (525) occurs regularly and newly arrived birds in the autumn feed on the Eelgrass bed at Merrion. Light-bellied Brent Goose is also known to feed on the grassland at Poolbeg.

The site supports nationally important numbers of a further nine species: Oystercatcher (1,263), Ringed Plover (161), Golden Plover (1,452), Grey Plover (183), Knot (1,151), Sanderling (349), Dunlin (2,753), Bar-tailed Godwit (866) and Redshank (713). Other species occurring in smaller numbers include Great Crested Grebe (21), Curlew (397) and Turnstone (75).

South Dublin Bay is a significant site for wintering gulls, especially Black-headed Gull (3,040), but also Common Gull (330) and Herring Gull (348). Mediterranean Gull is also

recorded from here, occurring through much of the year, but especially in late winter/spring and again in late summer into winter. Both Common Tern and Arctic Tern breed in Dublin Docks, on a man-made mooring structure known as the E.S.B. dolphin – this is included within the site. Small numbers of Common Tern and Arctic Tern were recorded nesting on this dolphin in the 1980s. A survey of the dolphin in 1999 recorded Common Tern nesting here in nationally important numbers (194 pairs). This increase was largely due to the ongoing management of the site for breeding terns. More recent data highlights this site as one of the most important Common Tern sites in the country with over 400 pairs recorded here in 2007.

The south bay is an important tern roost in the autumn (mostly late July to September). Birds also use the Dalkey Islands to the south. The origin of many of the birds is likely to be the Dublin breeding sites (Rockabill and the Dublin Docks) though numbers suggest that the site is also used by birds from other sites, perhaps outside the state. More than 10,000 terns have been recorded, consisting of Common, Arctic and Roseate terns. The wintering birds within this site are now well-monitored. More survey, however, is required on the wintering gulls and the autumn terns.

Booterstown Marsh supports an important population of Borrer's Saltmarsh-grass (*Puccinellia fasciculata*), a rare, Red Data Book species that is listed on the Flora (Protection) Order, 1999.

The South Dublin Bay and River Tolka Estuary SPA is of international importance for Lightbellied Brent Goose and of national importance for nine other waterfowl species. As an autumn tern roost, it is also of international importance. Furthermore, the site supports a nationally important colony of Common Tern. All of the tern species using the site are listed on Annex I of the E.U. Birds Directive, as are Bar-tailed Godwit and Mediterranean Gull.

1.5.2008

APPENDIX 3 List of County Development Plan objectives and policies that are relevant to water protection in South Dublin County.

Policy LHA 21 River and Stream Management

It is the policy of the Council to implement a strategy (prepared on a regional basis) for the management of rivers and streams throughout the County.

Policy LHA 22 Watercourses

It is the policy of the Council to protect, maintain, improve and enhance the natural and organic character of the watercourses in the County and to promote access, walkways and other recreational uses of their associated public open space, subject to a defined strategy of nature conservation and flood protection.

2.3.4 Strategy: The strategy of the Council for the development of Water Supply and Drainage in the County is as follows:

• Continue the sustainable development and improvement of the water supply and foul drainage systems throughout the County to meet the anticipated water and drainage requirements of the area.

• Protect surface water catchments and manage catchment areas where appropriate to protect the surface water drainage infrastructure of the County.

• Implement the provisions of national policy and legislation in the control of water pollution.

• *Ensure that existing and proposed developments are not subject to undue risk of flooding.*

• Conserve treated water by active leakage detection, non-domestic metering and development of infrastructure.

• Actively pursue and resolve water leakage.

Policy WD 1 Water Supply and Drainage

It is the policy of the Council to co-operate with adjoining authorities to continue the sustainable development and improvement of the water supply and drainage systems throughout the County to meet the anticipated water and drainage requirements of the area, in accordance with the recommendations set out in the 'Greater Dublin Strategic Water Supply Study' and the 'Greater Dublin Strategic Drainage Study', and the proposed 'Dublin Region Water Services Strategic Plan' when adopted.

Policy WD 2 Wastewater Treatment Plants and Wastewater Collection Systems

It is the policy of the Council that development shall be preceded by sufficient capacity in the public wastewater treatment plants and appropriate extensions in the existing public wastewater collection systems.

Policy WD 3 Quality of Surface Water and Groundwater

It is the policy of the Council that the ongoing development of the County shall be undertaken in such a way as not to compromise the quality of surface water (and associated habitats and species) and groundwater.

Policy WD 4 Soil and Groundwater Contamination

It is the policy of the Council to require adequate and appropriate investigations to be carried out into the nature and extent of any soil and groundwater contamination and the risks associated with site development work, where brownfield development is proposed.

Policy WD 5 Water Quality Management Plans

It is the policy of the Council to promote the implementation of water quality management plans for ground and surface waters in the county as part of the implementation of the EU Water Framework Directive, and in accordance with the policies and objectives and programme of measures of the Eastern River Basin Management Plan and any further amendments.

Policy WD 6 Sustainable Urban Drainage Systems (SuDS)

It is the policy of the Council to ensure that all development proposals incorporate Sustainable Urban Drainage Systems (SuDS).

Policy WD 7 Storm Overflows

It is the policy of the Council to minimise the number and frequency of storm overflows of sewage to watercourses and to establish, in co-operation with the adjoining local authorities, a consistent approach to the design, improvement and management of these intermittent discharges to ensure that the needs of the Region's receiving waters are met in a cost effective manner.

Policy WD 8 Water Pollution Abatement Measures

It is the policy of the Council to implement the provisions of water pollution abatement measures in accordance with National and EU Directives and legislative requirements in conjunction with other agencies as appropriate.

Policy WD 9 Bohernabreena Reservoirs and Catchment Area

It is the policy of the Council to protect the Bohernabreena Reservoirs and catchment area, SAC and buffer zone, in the interests of public health and to restrict development in the catchment.

Policy EE 15 Natural Features in Enterprise Priority Areas

It is the policy of the Council where existing streams, watercourses, are located on land zoned for Enterprise Priority One, Enterprise Priority Two and Enterprise Priority Three purposes they should be protected and incorporated within the overall design for the area, thereby contributing to and connecting into the overall green network policy for the County. Riparian corridors should be kept free from development and be used as amenity for workers and visitors on the site, taking due care to protect and enhance the corridor's native biodiversity resource.

Policy EE 33 Sustainable Development of Agricultural Diversification

It is the policy of the Council to support the sustainable development of agriculture and agriculture diversification, such as organic foods, rural tourism and small to medium-sized enterprises subject to the retention of the holding for primarily agricultural use and the proper planning and sustainable development of the area including protecting and maintaining biodiversity, wildlife habitats, water quality, rural landscape character, scenic amenities and nature conservation.

Policy EE 35 Rural Related Enterprises

It is the policy of the Council to facilitate the development of acceptable rural related enterprises, including equine enterprises, in accordance with the terms of Zoning Objective 'B' (to protect and improve rural amenity and to provide for the development of agriculture) and to minimise pollution from agricultural sources by means of development management and water pollution legislation and regulations.

4.1.2 Additional Protection Measures - Planning Conditions

The Planning Authority has not granted permission for any development within the two SACs. However, in order to ensure that there are no direct, indirect, or cumulative impacts on the SACs and that their conservation status of the protected habitats are maintained and that their listed conservation objectives are adhered to, the following measures will be strictly applied for all planning applications within the sensitive areas above and adjacent to the County's two SACs in the Dublin Mountains.

• All planning applications received by the Planning Authority for these areas will be subject to rigorous Appropriate Assessment screening and full AA investigation

where required. Where impacts are seen to be likely, or where reasonable doubt exists to potential for impact, no application will be allowed to proceed.

- Appropriate Assessments will be based upon contemporary scientific data regarding hydrology and ecology wherever appropriate.
- For any permitted development, strict conditions will apply regarding the type, installation, monitoring, and servicing of all newly-granted waste water treatment systems in the catchment area of the two SACs.

Policy H33 (see Section 4.1) which refers to one-off rural housing in this area, also reinforces the necessity to have due regard in any application in this sensitive area, to the requirements for assessment as demanded under the Habitats Directive.