Natura Impact Statement of application for continuance of use of a car park at Turnapin Great, Swords Road, Co. Dublin

prepared by OPENFIELD Ecological Services for Mr. Gerard Gannon

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1.0 INTRODUCTION

1.1 About OPENFIELD Ecological Services

OPENFIELD Ecological Services is headed by Pádraic Fogarty who has worked for over 20 years in the environmental field and in 2007 was awarded an MSc from Sligo Institute of Technology for research into Ecological Impact Assessment (EcIA) in Ireland. Pádraic has a primary degree in Analytical Science from DCU, and diplomas in Field Ecology (UCC), Environment and Geography (Open University) and Environmental Protection (IT Sligo). Since its inception in 2007 OPENFIELD has carried out numerous EcIAs for Environmental Impact Assessment (EIA), Appropriate Assessment under the EU Habitats Directive, as well as individual planning applications. Pádraic is a full member of the Institute of Environmental Management.

1.2 Protection of biodiversity

Biodiversity is a contraction of the words 'biological diversity' and describes the enormous variability in species, habitats and genes that exist on Earth. It is an integral component of our heritage while also providing food, building materials, fuel and clothing, maintaining clean air, water, soil fertility and pollinating crops. A study by the Department of Environment, Heritage and Local Government placed the economic value of biodiversity to Ireland at €2.6 billion annually (Bullock et al., 2008) for these 'ecosystem services'.

All life depends on biodiversity and its current global decline is a major challenge facing humanity. In 1992, at the Rio Earth Summit, this challenge was recognised by the United Nations through the Convention on Biological Diversity which has since been ratified by 193 countries, including Ireland. Its goal to significantly slow down the rate of biodiversity loss on Earth has been echoed by the European Union, which set a target date of 2010 for *halting* the decline. This target was not met but in 2010 in Nagoya, Japan, governments from around the world set about redoubling their efforts and issued a strategy for 2020 called 'Living in Harmony with Nature'. In 2011 the Irish Government incorporated the goals set out in this strategy, along with its commitments to the conservation of biodiversity under national and EU law, in the second national biodiversity action plan (Dept. of Arts, Heritage and the Gaeltacht, 2011). A third plan was published in 2017.

In Europe, the main policy instruments for conserving biodiversity have been the Birds Directive of 1979 and the Habitats Directive of 1992, which are transposed into Irish law through the European Union (Natural Habitats) Regulations SI94/1997 (as amended by SI233/1998 & SI378/2005). This legislation requires member states to designate areas of their territory that are important for certain listed habitats and species other than birds in the case of the Habitats Directive, and species or significant gatherings of birds in the case of the Birds Directive. These areas are known as Special Areas of Conservation (SAC) and Special Protection Areas (SPA) respectively. Together SACs and SPAs form the Natura 2000 network of protected sites. Unlike traditional nature reserves or national parks, Natura 2000 areas are not 'fenced-off' from human activity and are frequently in private ownership. It is the responsibility of the competent national authority to ensure that 'favourable conservation status' exists for their SACs and SPAs including that Article 6(3) of the Habitats Directive is met. Article 6(3) requires that an 'appropriate assessment' (AA) be carried out for those areas where projects, plans or proposals are likely to have an

effect. In some cases this is obvious from the start, for instance where a road is to pass through a designated area. However, where this is not the case, a preliminary screening must first be carried out to determine whether or not the full AA is required.

1.3 Purpose of this Report

This document provides the information required to allow the planning authority to carry out a Screening for AA, or full AA if needed, of an application for continuance of use of a car park at Turnapin Great, Swords Road, Co. Dublin, and its potential effects in relation to Natura 2000 sites (SACs and SPAs). This car park was constructed in two phases, beginning in the mid-2000s. The current application does not propose any changes to the layout or use of the car park.

The development will also see the demolition of existing buildings and the construction of a new buildings in its stead. It will also see some changes to the layout of associated surface water drains.

This document will assess whether effects to the Natura 2000 network are likely occur as a result of the operation phase of this project (there will be no construction phase). It will determine whether these effects are likely to be significant, and if so, will recommend appropriate mitigation measures.

1.4 Methodology

The assessment was carried out in accordance with the following methodologies and guidelines:

- 1. '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' (Oxford Brookes, 2001). Annex 2 of this document sets out an assessment template that is used in this report.
- 2. 'Appropriate Assessment of Plans and Projects in Ireland. Guidance for Planning Authorities' (DOEHLG 2009).

Note: Reference from this point forth to the 'site' indicates the development site and not the SAC or SPA.

In accordance with the above-mentioned guidance notes, the following steps are followed:

Step 1: Analysis of the SAC/SPA

This involves assessing the current status of the SAC/SPA and underlying trends affecting it. This is done through a combination of literature review, site survey, and consultation with relevant stakeholders.

<u>Step 2: Analysis of the proposed development</u> Identifying aspects of the plan that may affect the SAC/SPA

Step 3: Analysis of other plans and projects

Identifying aspects of other plans or projects that may act 'in combination' with the proposed development to affect the integrity of the SAC/SPA

Step 4: Determination of significance

Determination whether any of these effects, either alone or in combination with other plans and projects, will be significant.

The AA process is an iterative one where the report actively identifies potential effects, the project is then modified to avoid or mitigate these effects, and then the new project design is re-assessed until such point as no significant effects are predicted to occur. It is important to note that any AA, or screening for AA, is carried out by the competent authority (in this case Fingal Council) and this screening report has been prepared in order to aid that decision.

2.0 Step 1 – Analysis of the Natura 2000 network

2.1 Site location and extent

The development site is located south of Dublin Airport north of the M50 and west of the M1 motorway. This location is shown in figure 1 which also shows its position in relation to nearby water courses.



Figure 1 – Location of development site at Turnapin Great (red circle). (from <u>www.epa.ie</u>)

There is no prescribed radius around a site for determining what Natura 2000 sites should be studied. This is determined by the zone of influence of the project although a preliminary radius of 2km is usually examined (IEA, 1995). Figure 1 shows this approximate area and as can be seen there are no Natura 2000 sites within this radius. Water courses however drain to Baldoyle Bay, which is a SPA and SAC. In additional to these European designations Baldoyle Bay is also recognised as a wetland of international importance under the RAMSAR Convention (site 25/10/88). It is also a proposed Natural Heritage Area, a designation under national legislation.

EPA mapping shows that the Mayne River flows along the southern site boundary and this discharges into Baldoyle Bay along with the Sluice River. The site is in an area that was shown as agricultural land in aerial photography prior to 2000 but has since been developed, albeit some agricultural land remains.

The extent of the car park at Turnapin Great is shown in figure 2.



Figure 2 – Location and extent of the existing Car Park. The boundary of the Baldoyle Bay SAC and SPA is approximately 7km to the east at its nearest point.

2.2 Natura 2000 Sites

The SAC and SPA in Baldoyle are connected to the project via the Mayne River. Wastewater from the development passes to the municipal sewer for Dublin City at Ringsend, and the point of discharge from this facility is also within a SAC and SPA.

2.2.1 Baldoyle Bay SAC (code: 0199)

This SAC is the estuary of the Sluice and the Mayne Rivers that is largely enclosed by a sand spit that stretches from Portmarnock to Howth. At low tide it has large areas of exposed mud and sediment that support rich invertebrate communities. There are a number of habitats here that are listed in the EU's Habitats Directive Annex I while there are two plants recorded from the Bay that are protected under the Flora Protection Order: Borrer's Saltmarsh-grass *Puccinellia fasciculata* and Meadow Barley *Hordeum secalinum*.

The reasons why the bay falls under the SAC designation are set out in the qualifying interests. They are either habitat types listed in Annex I or species listed in Annex II of the Habitats Directive. This information is provided by the National Parks and Wildlife Service (NPWS) and is shown in table 1 below. In this case the SAC is designated only for protected habitat types.

Code	Habitats
1140	Mudflats and sandflats not covered by seawater at low tide
1310	Salicornia and other annuals colonizing mud and sand
1330	Atlantic salt meadows
1410	Mediterranean salt meadows

Table 1 – Qualifying interests for the Baldoyle Bay SAC (from NPWS)

- **Tidal mudflats (1140)**. This is an intertidal habitat characterised by fine silt and sediment. Most of the area in Ireland is of favourable status however water quality and fishing activity, including aquaculture, are negatively affecting some areas.
- Salicornia mudflats (1310): This is a pioneer saltmarsh community and so is associated with intertidal areas. It is dependant upon a supply of fresh, bare mud and can be promoted by damage to other salt marsh habitats. It is chiefly threatened by the advance of the alien invasive Cordgrass *Spartina anglica*. Erosion can be destructive but in many cases this is a natural process.
- Atlantic and Mediterranean salt meadows (1330 & 1410): these are intertidal habitats that differ somewhat in their vegetation composition. They are dynamic habitats that depend upon processes of erosion, sedimentation and colonisation by a typical suite of salt-tolerant organisms. The main pressures are invasion by the non-native *Spartina anglica* and overgrazing by cattle and sheep.

2.2.2 Baldoyle Bay SPA (site codes: 4016)

Estuarine habitats are some of the most productive in the world and the nutrients that are deposited here fuel primary and secondary production (levels in the food chain) that in turn provide food for internationally significant numbers of wintering birds (Little, 2000). It had a mean of 5,780 birds between the winters of 2006/07 and 2010/11 (Crowe et al., 2012). Specifically it has a number of species which are

'features of interest' of the SPA, along with 'wetlands and waterbirds'. Table 2 details these.

Specie	es	Status ¹
Branta bernicula hrota	Light-bellied brent goose	Amber
Charadrius hiaticula	Ringed plover	Green
Limosa lapponica	Bar-tailed godwit	Amber
Pluvialis apricaria	Golden plover	Red
Pluvialis squatarola	Grey plover	Amber
Tadorna tadorna	Shelduck	Amber
Wetlands & Waterbirds		

Table 2 – Features of Interest for the Baldoyle Bay SPA (from NPWS)

- **Light-bellied Brent Goose.** There has been a 67% increase in the distribution of this goose which winters throughout the Irish coast. The light-bellied subspecies found in Ireland breeds predominantly in the Canadian Arctic.
- **Ringed Plover.** This bird is a common sight around the Irish coast where it is resident. They breed on stony beaches but also, more recently, on cut-away bog in the midlands.
- **Bar-tailed Godwit.** These wetland wading birds do not breed in Ireland but are found throughout the littoral zone during winter months. They prefer estuaries where there are areas of soft mud and sediments on which to feed.
- **Golden Plover.** In winter these birds are recorded across the midlands and coastal regions. They breed only in suitable upland habitat in the north-west. Wintering abundance in Ireland has changed little in recent years although it is estimated that half of its breeding range has been lost in the last 40 years.
- **Grey Plover.** These birds do not breed in Ireland but winter throughout coastal estuaries and wetlands. Its population and distribution is considered to be stable.
- **Shelduck.** The largest of our ducks, Shelduck both breed and winter around the coasts with some isolate stations inland. Its population and range is considered stable.

2.2.3 Natura areas in Dublin Bay

The South Dublin Bay and River Tolka Estuary SPA (site code: 4024); and the South Dublin Bay SAC (0210) are considered to fall within the zone of influence as they are within the hydrological catchment of the site. The Poulaphouca Reservoir, from which drinking water supply for this development will originate, is designated as a SPA (site code: 4063). For this reason, it is considered to fall within the zone of influence of this project. These are considered to be the only Natura 2000 areas within the zone of influence of the development as pathways do not exist to other areas.

Table 3 – Features of interest for the South	Dublin Bay & Riv	ver Tolka Estuary S	SPA (EU
code in square parenthesis)	-	-	

South Dublin Bay and Tolka Estuary SPA							
Light-bellied Brent Goose (Branta bernicla hrota) [A046]							
Oystercatcher (Haematopus ostralegus) [A130]							
Ringed Plover (Charadrius hiaticula) [A137]							
Grey Plover (<i>Pluvialis squatarola</i>) [A140]							

¹ Birds of Conservation Concern in Ireland. Colhoun & Cummins, 2013

The **South Dublin Bay and Tolka Estuary SPA** (side code: 4024) is largely coincident with the South Dublin Bay SAC boundary with the exception of the Tolka Estuary. These designations encompass all of the intertidal areas in Dublin Bay from south of Bull Island to the pier in Dun Laoghaire. Wintering birds in particular are attracted to these areas in great number as they shelter from harsh conditions further north and avail of the available food supply within sands and soft sediments. Table 1 lists the features of interest for both of the SPAs.

- Light-bellied Brent Goose. There has been a 67% increase in the distribution of this goose which winters throughout the Irish coast. The light-bellied subspecies found in Ireland breeds predominantly in the Canadian Arctic.
- **Sanderling.** This small bird breeds in the high Arctic and winters in Ireland along sandy beaches and sandbars. Its wintering distribution has increased by 21% in the previous 30 years.
- **Dunlin.** Although widespread and stable in number during the winter season, the Irish breeding population has collapsed by nearly 70% in 40 years. Breeding is now confined to just seven sites in the north and west as habitat in former nesting areas has been degraded.
- **Knot.** These small wading birds do not breed in Ireland but gather in coastal wetlands in winter. Their numbers have increased dramatically since the mid-1990s although the reasons for this are unclear.
- **Black-headed Gull.** Widespread and abundant in winter these gulls are nevertheless considered to be in decline. The reasons behind this are unclear but may relate to the loss of safe nesting sites, drainage, food depletion and increase predation.
- **Ringed Plover.** This bird is a common sight around the Irish coast where it is resident. They breed on stony beaches but also, more recently, on cut-away bog in the midlands.
- **Oystercatcher.** Predominantly coastal in habit Oystercatchers are resident birds whose numbers continue to expand in Ireland.
- **Bar-tailed Godwit.** These wetland wading birds do not breed in Ireland but are found throughout the littoral zone during winter months. They prefer estuaries where there are areas of soft mud and sediments on which to feed.
- **Grey Plover.** These birds do not breed in Ireland but winter throughout coastal estuaries and wetlands. Its population and distribution is considered to be stable.
- **Roseate Tern.** This tern breeds at only a few stations along Ireland's east coast. Most of these are in decline although at Dublin their colony is increasing.

- **Common Tern.** This summer visitor nests along the coast and on islands in the largest lakes. Its breeding range has halved in Ireland since the 1968-1972 period.
- **Arctic Tern.** These long-distance travellers predominantly breed in coastal areas of Ireland. They have suffered from predation by invasive mink and are declining in much of their range.
- **Redshank.** Once common breeders throughout the peatlands and wet grasslands of the midlands Redshanks have undergone a 55% decline in distribution in the past 40 years. Agricultural intensification, drainage of wetlands and predation are the chief drivers of this change.

Bird counts from BirdWatch Ireland are taken from Dublin Bay as a whole and are not specific to any particular portion of the Bay. Dublin Bay is recognised as an internationally important site for water birds as it supports over 20,000 individuals. Table 4 shows the most recent count data available².

Table 4 – Annual count data for Dublin Bay from the Irish Wetland Birds Survey (IWeBS)

Year	2010/11	2011/12	2012/13	2013/14	2014/15	Mean
Count	27,931	30,725	30,021	35,878	33,486	31,608

There were also internationally important populations of particular birds recorded in Dublin Bay (i.e. over 1% of the world population): Light-bellied brent geese *Branta bernicula hrota*; Black-tailed godwit *Limosa limosa*; Knot *Calidris canutus* and Bartailed godwit *L. lapponica*.

The **South Dublin Bay SAC** (side code: 0210) is concentrated on the intertidal area of Sandymount Strand. It has one qualifying interest which is mudflats and sandflats not covered by seawater at low tide. Tidal mudflats (habitat code: 1140) is an intertidal habitat characterised by fine silt and sediment. Most of the area in Ireland is of favourable status however water quality and fishing activity, including aquaculture, are negatively affecting some areas. At a national scale, it is assessed as of 'intermediate' status (NPWS, 2013).

Whether the SACs or SPAs are likely to be affected must be measured against their 'conservation objectives'. Specific conservation objectives have been set for all of these areas. In the SACs the objectives relate to habitat area, community extent, community structure and community distribution within the qualifying interest. There is no objective in relation to water quality (NPWS, 2012a).

For the SPAs the conservations objectives for each bird species relates to maintaining a population trend that is stable or increasing and maintaining the current distribution in time and space (NPWS, 2013).

2.3 Literature Review

As can be seen from figures 1 and 2, the site is not located within or directly adjacent to any area designated for nature conservation. It is situated approximately 7km from the boundary of the Baldoyle Bay SAC and SPA. The site is situated within the catchment of the Mayne River, which flows along the southern boundary of the car park.

² <u>https://f1.caspio.com/dp.asp?AppKey=f4db3000060acbd80db9403f857c</u>

The River Mayne is a relatively short water course that rises to the east of Dublin airport and enters the Irish Sea at Baldoye. The Environmental Protection Agency maintains one monitoring station, at the Wellfield Bridge, and here ecological conditions were most recently (2016) assessed as 'poor'. Under the Water Framework Directive the overall status of the Mayne catchment has been assessed as of 'poor' status. This indicates point or diffuse pollution sources, or other ecological problems such as obstructions. The ecological quality of the transitional water body at Baldoyle Bay has been assessed as 'eutrophic', indicting 'bad' status.

Dublin Bay is currently assessed as 'good status'.

The site was visited for this study on May 3rd 2018. It found that the site is entirely composed of artificial surfaces with native hedgerows along external boundaries. These hedgerows are typically associated with drainage ditches, including the Mayne River, which flows from west to east along the southern boundary. These habitats are not associated with any which are listed on the Habitats Directive and are not suitable for wetland wading birds.

2.4 Consultation

Because of the low ecological sensitivity of this site no third party consultation was carried out.

2.5 Trends affecting the SAC/SPA

There are no management plans for the designated areas in Baldoyle Bay however some work has been done to determine the site-specific trends or threats to their conservation status.

Tables 5 & 6 shows the most recent bird count data from Baldoyle Bay and these show that while numbers fluctuate from one year to the next, positive or negative trends are not clear. These data are likely to mask variations between species present and as table 2 shows there are a number of species here that are of high and medium conservation concern (red and amber lists). However a link between water quality and bird numbers cannot be established. In fact, the discharge of nutrient effluent from artificial fertilisers and poorly treated sewage can promote primary production that in turn provides food for wintering and resident birds in bays and estuaries (Nairn & O'Halloran eds., 2012).

Table 5 ·	- Bird	count	data	from	the	winters	of	2005	/06 –	200)9/10	(Cr	owe	et	al.,	2011	;
Boland 8	Crow	e, 2006	5)														

8,891 6,825 4,290 4,626 4,196 5,927 5,544 5,766 5,	5,884	-

Table 6– Baldyole Bay bird count data (Irish Wetland Bird Survey)

Year	2010/11	2011/12	2012/13	2013/14	2014/15	Mean
Number	N/A	N/A	N/A	6,459	3,994	5,227

The status of features of interest in the Bladoyle Bay SPA has been assessed (NPWS, 2012c). Of those species with unfavourable status in the SPA, Ringed Plover and Bar-tailed Godwit have exhibited losses at Baldoyle Bay while the national population remains stable or has increased. It is therefore reasonable to

assume that local factors are leading to declines. The NPWS list a number of factors that may be contributing to this including human disturbance (walkers with or without dogs) and nutrient enrichment (pollution). The latter effect is exhibited by algal mats, typically Sea-lettuce Ulva sp. which covers the sediment surface at low tide. This is good for those species which feed on Sea-lettuce but bad for those which cannot reach their favoured prey under the mats.

Water quality in the catchment is monitored by the Environmental Protection Agency (EPA) which maintains a regular assessment programme. There are no monitoring points along the Sluice River. At the monitoring point along the Mayne, which also enters Baldoyle Bay, site water quality has most recently been determined to be 'poor status'. Meanwhile the trophic status of Baldoyle Bay has been assessed as 'eutrophic' (from <u>www.epa.ie</u>).

Pollution may be a factor in the poor status of Bar-tailed Godwit and Ringed Plover at Baldoyle Bay due to reasons already described. While definitive evidence for this is lacking the Precautionary Principle dictates that where sufficient doubt persists, there must be a presumption in favour of negative effects.

3.0 Step 2 – Analysis of the Project

This application is for the continued operation of a car park along with all existing associated services as described under section 1.3. It is described thus, as per the planning application:

Planning permission for the permanent continuation of use of the existing long term car park known as Quickpark on lands at Quickpark Car Park, Turnapin Great, Swords Road (Old Airport Road), Santry, Co. Dublin that is currently used for the same purpose under and in accordance with temporary planning permission ABP Ref. 06F.PA0023. Planning permission is also sought for the construction of a new entrance building with associated revised entrance layout resulting in 6,122 long term car parking spaces (reduced from the permitted 6,240 spaces to accommodate a new entrance building). The proposed development of 6,122 long term car parking spaces is provided for under condition no. 23 of the Terminal 2 planning permission Reg. Ref. PL06F.220670 (F06A/1248). The proposed development includes the demolition of the existing single storey office and control building; demolition of existing canopy entrance structure, the relocation of the existing maintenance shed and the construction of a new part three storey entrance building comprising office space with new car park barriers and ticket machines together with premium car parking offer, elevational signage, green roof, landscaping and associated revisions to the entrance layout to accommodate the new building. Permission is also sought for the continued use of existing ancillary infrastructure and facilities including: existing internal circulation road; hard-standing; lighting; boundary fencing; bus shelters; CCTV cameras; signage; existing drainage network including existing surface water attenuation areas, foul water connection, water supply, associated landscaping and all ancillary works necessary to facilitate the development erected under and in accordance with ABP Ref. 06F.PA0023 and Req. Ref.s F99A/0376/PL06F.112955, F02A/1110, F05A/1464 and F06A/1746. The development also includes new ancillary infrastructure and facilities/drainage improvement works including additional filter drains at the new building and swales along new entrance layout. Access to the car park is from the previously permitted signal-controlled junction on the Swords Road (Old Airport Road) with turning lanes and directional signs. Planning permission is also sought to retain existing hard standing service associated with the premium valet offer of the car park. This

application is accompanied by an Environmental Impact Assessment Report and a Natura Impact Statement.

Surface water falling on the car park drains to ditches which pass to the Mayne River. The system which is in place complies with the Greater Dublin Strategic Drainage System (GDSDS) and includes on-site storage with excess discharge via oil/grit interceptors and flow control devices. No impacts to surface water is therefore occurring.

There will be no change to the volumes of wastewater passing to the sewer arising from this project.

Water quality testing has been carried out during 2018 at a number of locations upstream of, within and downstream of the site. These were analysed for a range of standard pollutants. The data showed that no samples exceeded WHO drinking water limits for Total Petroleum Hydrocarbons (TPH), although one sample exceeded the 200ug/l limit set under the Surface Water Regulations 2009. This was from a sampling point upstream of an oil/grit interceptor (test location 6). The Engineering Assessment, prepared by Waterman Moylan, states:

Despite this slightly high result, there does not appear to be an adverse effect to the surrounding water bodies: the petrol interceptor at test location 6 impeded the flow of TPHs beyond the surface water pipeline, ensuring that the downstream ditch was not affected. This is confirmed by the test results from sample 3, taken from the ditch into which testing location 6 feeds. Results from within the ditch indicate that the TPHs are below the drinking water threshold limit.

All samples were below a nominal threshold of 0.5mg/l for detergents. A number of results, indicative of human or animal waste contamination, were found in surface water samples upstream and downstream of the car park. On foot of these results, a thorough foul water cross-connections investigation was conducted by Liffey Developments in August 2018. No cross connections were identified. It has been concluded that the source of the contamination does not originate from the Q-Park site.



Figure 4 – Existing layout of the car park



4.0 Step 3 – Analysis of Other Plans and Projects

Individual impacts from one-off developments or plans may not in themselves be significant. However, these may become significant when combined with similar, multiple impacts elsewhere. These are sometimes known as cumulative impacts but in AA terminology are referred to as 'in combination' effects.

In terms of the conservation objectives of the SACs and SPAs identified in section 2.2, maintaining the extent and condition of important habitats and species populations is vital.

The catchment of the Mayne River has been substantially transformed in the past 15-20 years from farmland to built development. The area is currently a combination of open park spaces, with significant built development including residential and retail uses.

The cumulative effects of this type of urban growth can arise from replacing permeable ground with hard surfaces. This can result in increased risk of flooding and deterioration of water quality, primarily from the run-off of particulate matter and hydrocarbon residues (Mason, 1996). To combat this effect the Greater Dublin Strategic Drainage Study was published in 2005. This aims to ensure that new developments integrate sustainable drainage systems (SUDS) to maintain natural, or 'green field' rates of surface water run-off while also improving water quality in rivers. This development is fully complaint with these SUDS principles.

The first River Basin Management Plan (RBMP) was published under the EU's Water Framework Directive in 2010. This set out to attain 'good ecological status' of all water bodies by 2027 at the latest. It included a 'programme of measures' that was to address point or diffuse pressures on water quality. The Mayne River is currently assessed as 'poor' while Baldoyle Bay is 'eutrophic'. Under the second RBMP 2018-2021 the Mayne River is identified as one of 190 'priority areas for action'.

5.0 Step 4: Determination of Significance

5.1 Impact prediction

Under Article 6 of the Habitats Directive the term 'significance' is taken to mean an effect on the SAC or SPA as measured against the relevant conservation objective. Unlike Environmental Impact Assessment for instance, there are no degrees of significance and where an effect is determined to be significant mitigation or avoidance measures must be considered.

In order for an impact to occur there must be a pathway between the development (the source) and the SAC or SPA (the receptor). Where a pathway does not exist then an impact cannot occur.

The subject site is not located within, or directly adjacent to any SAC or SPA. However a pathway for impacts exists via surface water to the Baldoyle Bay SAC/SPA.

The development will not result in direct impacts to habitats within any designated area, either through habitat removal or disturbance, as no construction phase will occur.

Site specific conservation objectives have been set for the SAC and SPA in both Baldoyle Bay and Dublin Bay. None of these objectives relates to water quality. It is considered that current levels of pollution, via surface or wastewater flows may be impacting negatively upon the conservation objectives for certain features of interest in Baldoyle Bay SPA. Pollution is in any case undesirable and this development should not infringe upon efforts to enhance water quality under the Water Framework Directive.

Following on from steps 1 - 3 of this process a number of specific impacts are considered:

5.1.1 Habitat loss

This development is will not result in the loss of semi-natural habitats connected to Natura 2000 areas.

5.1.2 Habitat disturbance

No habitats will be disturbed within or directly connected to Natura 2000 areas.

Indirect disturbance via amenity pressures on coastal areas is unlikely to arise from this project due to the nature of the works and their distance to Natura areas.

5.1.4 Pollution during normal operation

The use of accepted SUDS techniques in the design of the project will ensured that negative effects to water quality do not arise from surface water run-off. There is no evidence that pollution from the car parking areas, and in particular from hydrocarbons, is occurring. This conclusion is based on a series of on-site water sampling from 2018.

Discharges of wastewater from this project cannot result in significant effects to the SAC or SPA in Baldoyle Bay or Dublin Bay. A thorough investigation of the foul line with the development has found no cross-connections.

6.0 Conclusion and Finding of No Significant Effects

This proposed development is not located within or directly adjacent to any SAC or SPA but pathways do exist to a number of these areas. An assessment of the aspects of this project has shown that significant negative effects are not likely to occur to these areas either alone or in combination with other plans and projects.

This project will not adversely affect the integrity of any Natura 2000 site.

7.0 REFERENCES

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