

- Ordnance Survey Ireland maps;
- OSI, Google & Bing Aerial photography;
- National Biodiversity Data Centre data: <http://www.biodiversityireland.ie/>;
- National Parks and Wildlife Service (NPWS) Mapviewer:
<http://www.npws.ie/en/MapsData/>
 - Designated sites (SACs, SPAs, NHAs);
 - Records of protected species from 10km squares; and
 - Species related publications.

Other environmental information for the area was reviewed, e.g. in relation to soils, geology, hydrology and hydrogeology. Interactions in terms of the chapters on these topics presented in this EIS were important in the determination of source vector pathways and links with potentially hydrogeologically connected areas outside the Proposed Project site.

The second phase of the assessment involved site visits to establish the existing environment in the footprint of the Proposed Project. Areas which are highlighted during the desktop assessment were investigated in closer detail according to the Heritage Council Publication *Best Practice Guidance for Habitat Survey and Mapping* (Smith *et al.*, 2011) which is the agreed national methodology.

Flora and habitats at the site of the Proposed Project were classified according to the Heritage Council publication ‘*A Guide to Habitats in Ireland*’ (Fossitt, 2000). This publication sets out a standard scheme for identifying, describing and classifying wildlife habitats in Ireland according to a hierarchical framework, with Level One habitats representing broad habitat groups, Level Two representing habitat sub-groups and Level Three representing individual habitat types. The Habitat Survey focused on identifying habitats to Level Three of the *Guide to Habitats in Ireland*. The annotation of vegetation occurring within sites was undertaken using the DAFOR scale. This scale refers to plant species in terms of dominance, abundance, frequency, occasional and rare (DAFOR). Species recorded in this report are given in both their Latin and English names. Latin names for plant species follow the nomenclature of Webb’s “An Irish Flora” (Parnell & Curtis, 2012).

Fauna were surveyed in the context of direct and indirect disturbance effects, especially for mammals and birds.

Any mammalian fauna, their tracks etc. observed during the visit were identified, and the potential value of the site to mammals was assessed in terms of potential disturbance, loss of feeding, resting/roosting or breeding habitat.

Birds present on site were recorded while undertaking habitat surveys. Species descriptions are based on BirdWatch Ireland data (www.birdwatchireland.ie/IrelandsBirds) and the Collins Bird Guide App.

Amphibians, reptiles and invertebrates if present were recorded as casual observations.

The final part of the assessment involves an evaluation of the Proposed Project area and determination of the potential impacts of the Proposed Project on the flora and fauna of the area. Habitat evaluation and impact assessment is based on the Chartered Institute of Ecology and Environmental Management’s *Guidelines*

- 004113 Howth Head Coast SPA
- 004117 Ireland's Eye SPA
- 004172 Dalkey Island SPA

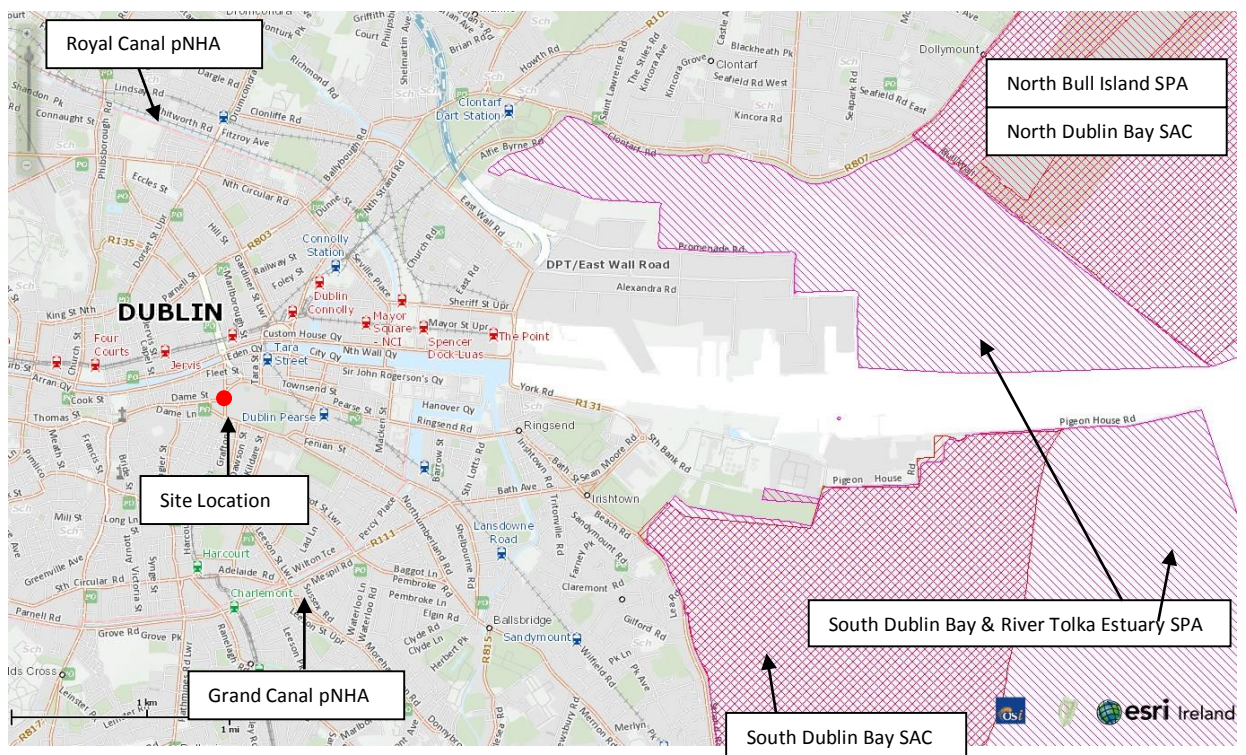
It is determined that there is no potential for significant effect on these sites and they are screened out at this preliminary stage for the following reasons:

- Distance from the Proposed Project site;
- There is no direct connection between the site of the Proposed Project and these three sites; and
- The potential for indirect impacts is unlikely due to distance and lack of connectivity.

The Proposed Project location at College Green is then considered in terms of source-pathway-receptor relationship and proximity to the River Liffey with regards direct ecological and hydrological connectivity to Dublin Bay. There are four Natura 2000 sites located within a potential zone of influence of the Proposed Project:

- 000206 North Dublin Bay SAC
- 000210 South Dublin Bay SAC
- 004006 North Bull Island SPA
- 004024 South Dublin Bay and River Tolka Estuary SPA

The location of the Proposed Project site is presented in **Figure 9.1** below in relation to the Natura 2000 sites considered within the potential zone of influence.



Wyse Jackson, P. and Sheehy Skeffington, M. (1984) *The Flora of Inner Dublin*.
Dublin: Royal Dublin Society.