



Natura Impact Report

Tallaght Town Centre Local Area Plan 2020-2026

September 2019

Natura Impact Report Tallaght Town Centre Local Area Plan 2020 -2026

Document Stage	Date	Prepared by
Final	22 nd March 2019	P Doherty, MSc, MCIEEM
Final	25 th March 2019	Reviewed by R. Minogue,
		MCIEEM
Updated following changes	10 th September 2019	R Minogue MCIEEM
to draft LAP		

This report has been prepared by DEC Ltd. with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is prepared for South Dublin
County Council and we accept no
responsibility to third parties to whom this
report, or any part thereof, is made known.
Any such party relies on the report at their
own risk.

Contents

<u>1.0</u>	INTRODUCTION	<u>5</u>
1.1	SUMMARY OF THE SCREENING FOR APPROPRIATE ASSESSMENT	5
<u>2.0</u>	ASSESSMENT METHODOLOGY	12
2.1	GUIDANCE	12
2.2	BACKGROUND TO HABITATS DIRECTIVE ARTICLE 6 ASSESSMENTS	
2.3	STAGE 2: APPROPRIATE ASSESSMENT STEPS	13
2.4	INFLUENCE OF THE APPROPRIATE ASSESSMENT PROCESS ON THE DRAFT PLAN	
<u>3.0</u>	OVERVIEW OF THE DRAFT PLAN && ELEMENTS THAT COULD GIVE	
RISI	E TO SIGNIFICANT EFFECTS	15
3.1	ELEMENTS OF THE DRAFT PLAN THAT COULD GIVE RISE TO SIGNIFICANT EFFECTS	
3.2	OVERVIEW OF THE BASELINE BIODIVERSITY OF THE DRAFT PLAN AREA	
3.2.1		
3.2.2		
	NON-NATIVE INVASIVE SPECIES	
3.3	EUROPEAN SITES OCCURRING WITHIN THE ZONE OF INFLUENCE OF THE DRAFT PLA	N
3.3.1	GLENASMOLE SAC	20
	North Dublin Bay SAC	
	NORTH BULL ISLAND SPA	
3.5	SOUTH DUBLIN BAY RIVER TOLKA ESTUARY SPA	
4.0	CONSERVATION OBJECTIVES OF EUROPEAN SITES	
<u>5.0</u>	DESCRIPTION OF HOW THE PLAN COULD AFFECT EUROPEAN SITES.	
5.1	STRENGTHENING OF LINKS WITH THE DUBLIN MOUNTAINS	
5.2	WORKS TO THE RIVER PODDLE	
5.3	PROVISION OF TRANSPORT INFRASTRUCTURE WITHIN NEIGHBOURHOODS	
5.4	FACILITATION OF DEVELOPMENT WITHIN NEIGHBOURHOODS	37
5.5	ASSESSMENT OF ECOLOGICAL AFFECTS TO QUALIFYING FEATURE OF INTEREST OF OPEAN SITES	20
	In-Combination Effects	
5.7	ASSESSMENT OF EFFECTS TO CONSERVATION OBJECTIVES	
<u>6.0</u>	MITIGATION MEASURES	
	MITIGATION MEASURES RELATING TO HABITAT DEGRADATION: SURFACE WATER	
	UNDWATER QUALITY MITIGATION MEASURES RELATING TO HABITAT DEGRADATION: INVASIVE SPECIES	
	MITIGATION MEASURES RELATING TO THE STRENGTHENING OF LINKS WITH THE	34
	LIN MOUNTAINS AND POTENTIAL INCREASE IN RECREATIONAL PRESSURE	54
	MITIGATION MEASURES FROM THE SEA	
	MITIGATION MEASURES FROM NATURA IMPACT REPORT	
	EVALUATION OF MITIGATION MEASURES	
	RESPONSIBILITY FOR IMPLEMENTING MITIGATION MEASURES	
	MONITORING OF MITIGATION MEASURES	
9.0		
<u>10.0</u>	CONCLUSION	61

REFERENCESAPPENDIX 1: ASSESSMENT OF POTENTIAL ECOLOGICAL	
APPENDIX 2: ENVIRONMENTAL SAFEGUARDS	

South Dublin County Council Sept 2019 Client: Date: Project Title: Document Issue: Final

1.0 INTRODUCTION

Doherty Environmental Ltd. have been appointed by South Dublin County Council to undertake a Natura Impact Report (NIR) of the draft Tallaght Town Centre Local Area Plan (thereafter called the Draft plan). This NIR has been completed with respect to the requirements outlined in Article 6(3) of the EU Habitats Directive and Section 177U of the Planning and Development Act and has been prepared in order to facilitate South Dublin County Council's requirement for completing an Appropriate Assessment of the proposed plan.

The Draft plan is not directly connected with or necessary for the management of any European Site and hence the requirements of Article 6(3) of the Habitats Directive and Part XAB of the Planning and Development Act 2000, apply. Section 177U(1) of the Planning and Development Act 2000 requires that a screening for appropriate assessment of, inter alia, a land use plan be carried out by a competent authority to assess, in light of best scientific knowledge, whether the proposed Plan, individually or in combination with another plan or project is likely to have a significant effect on a European site. A Screening Report for Appropriate Assessment has been completed and assessed the potential for the plan to result in likely significant effects to European Sites. The location of the proposed plan Lands are shown on Figure 1.1.

1.1 SUMMARY OF THE SCREENING FOR APPROPRIATE ASSESSMENT

A Screening Report for Appropriate Assessment has been completed for the draft plan. This Screening was completed in line with the requirements of Article 6(3) of the EU Habitats Directive, as transposed into Irish law in Part XAB of the Planning and Development Act 2000 (as amended) in relation to land use planning.

The Screening represents the first stage of the Article 6(3) Habitats Directive assessment process and was undertaken to identify whether the plan has the potential to result in likely significant effects to European Sites. All European Sites occurring within a 15km buffer distance of proposed plan boundary were screened for likely significant effects (the location of these sites with respect to proposed plan area are shown on Figure 1.2 & Figure 1.3). No European Sites at a distance greater than 15km were considered during the screening as no source-pathway-receptor relationship occurs between lands subject to the draft plan and European Sites at such distance from the plan area. The European Sites occurring within

15km of the plan area represented a preliminary list of European Sites to be screened for likely significant effects. A total of 9 European Sites were identified in this preliminary list. The next step in the screening was to identify which European Sites occur within the zone of influence of the plan and could be at risk of likely significant effects by virtue of the spatial relationship or pathway connections between lands subject to the proposed Variation and these European Sites. A total of 6 European Sites, Glensamole Valley SAC (Site Code: 0001209); Wicklow Mountains SAC (site code:002122); Wicklow Mountains SPA (site code: 004040); North Dublin Bay SAC (Site Code: 000206); North Bull Island SPA (Site Code: 004006); and South Dublin Bay River Tolka Estuary SPA (Site Code: 4024) were identified as occurring within the zone of influence of the proposed Variation. The South Dublin Bay River Tolka Estuary SPA, North Bull Island SPA, North Dublin Bay SAC were screened in due to the presence of a hydrological pathway linking land use elements of the Draft Plan to these European Sites. The land use elements of the Draft Plan were identified as having the potential to result in negative effects to the water quality of surface watercourses, namely the River Poddle and the Whitetown Stream, both of which are connected via a hydrological pathway to the European Sites at Dublin Bay. The hydrological pathway between the Draft Plan lands and these European Sites are shown in Figure 1.4. A precautionary approach was adopted during the Screening and the potential for downstream impacts to water quality at Dublin Bay was identified as a requiring further consideration as part of a Natura Impact Report.

The Wicklow Mountains SAC, Wicklow Mountains SPA and the Glenasmole Valley SAC were were screened in due to the aim of the Draft Plan to strengthen connections between the plan area and the Dublin Mountains, within which these European Sites are located. The strengthening of such links was identified during the Screening as having the potential to increase human activity, in particular recreational activity, within these European Sites with the potential for consequent pressures to qualifying habitats and species.

Accordingly, this NIR has been prepared to inform the Appropriate Assessment of the proposed Draft Plan's potential to result in significant effects to these 6 European Sites and their qualifying features of interest occurring within the zone of influence of the plan. The remainder of this NIR is structured as follows:

Section 2: Assessment Methodology

Sept 2019

Date:

Document Issue: Final

Client: South Dublin County Council Date: Sept 2019
Project Title: Tallaght Town Centre LAP Document Issue: Final

Section 3: Overview of the Draft Plan & identification of elements that could result in significant effects to European Sites

Section 4: Conservation Objectives for European Sites

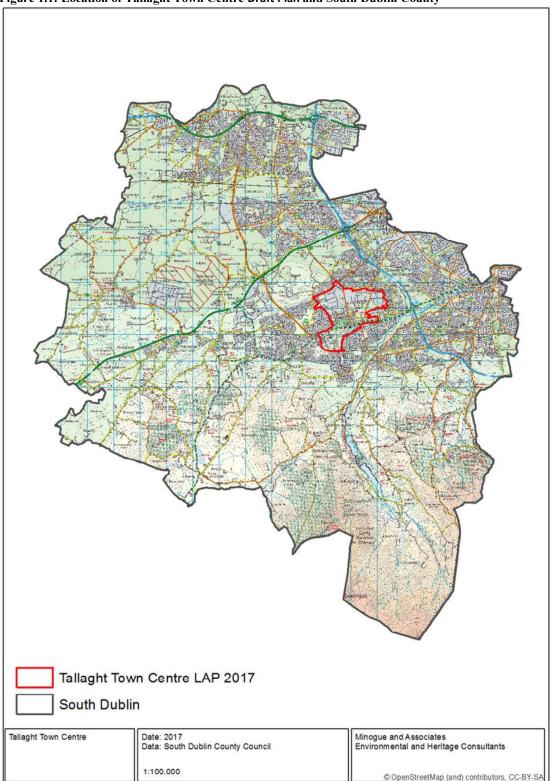
Section 5: Assessment of the Proposed Draft Plan

Section 6: Mitigation

Section 7: Conclusions

11/09/2019

Figure 1.1: Location of Tallaght Town Centre Draft Plan and South Dublin County



11/09/2019

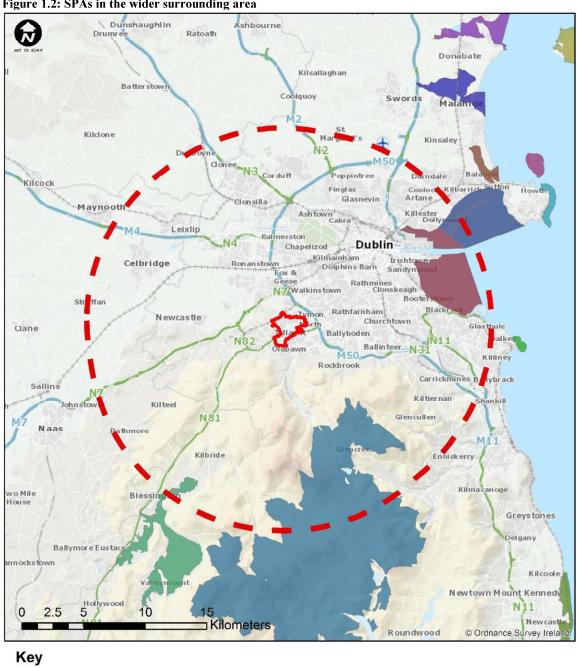
Date:

Document Issue: Final

Sept 2019

Date: Sept 2019 Document Issue: Final

Figure 1.2: SPAs in the wider surrounding area

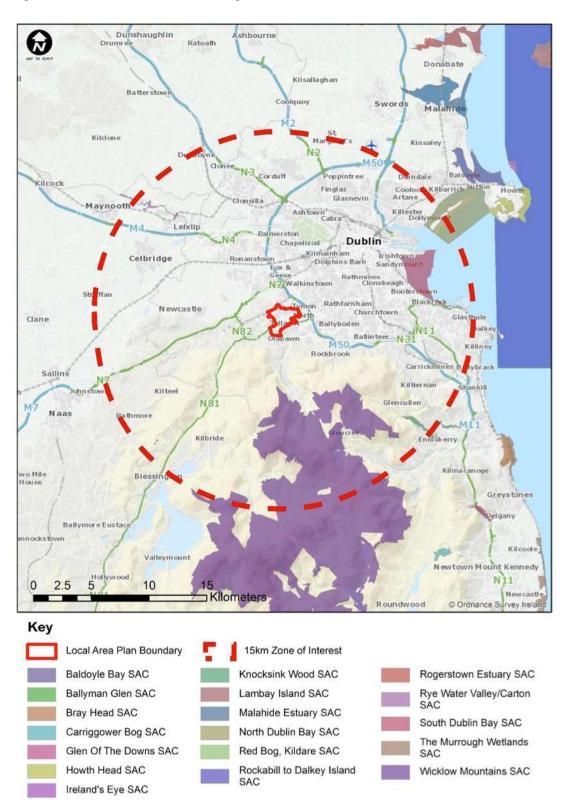




11/09/2019

Date: Sept 2019 Document Issue: Final

Figure 1.3: SACs in the wider surrounding area

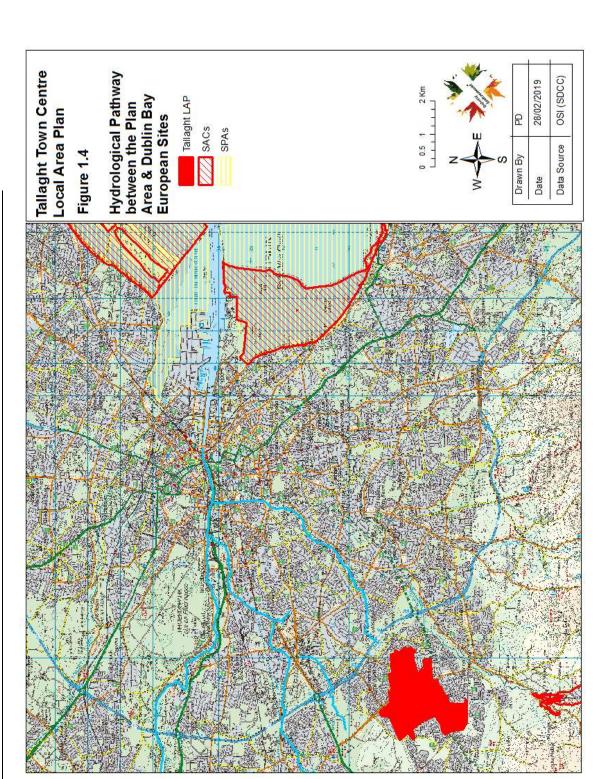


10 11/09/2019

Client: Project Title: Document Title:

South Dublin County Council Tallaght Town Centre LAP NIR

Date: Sept 2019 Document Issue: Final



11/09/2019

Ξ

Client: South Dublin County Council Sept 2019 Date: Project Title: Document Issue: Final

2.0 ASSESSMENT METHODOLOGY

2.1 **GUIDANCE**

This NIR has been undertaken in accordance with National and European guidance documents: Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities (DEHLG 2010) and Assessment of Plans and Projects Significantly Affecting Natura 2000 sites – Methodological Guidance of the Provisions of Article 6(3) and (4) of the Habitats directive 92/43/EEC. The following guidance documents were also of relevance during this the preparation of this NIR:

- A guide for competent authorities. Environment and Heritage Service, Sept 2002. Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities (2010). DEHLG.
- Assessment of Plans and Projects Significantly Affecting Natura 2000 Sites Methodological Guidance of the Provisions of Article 6(3) and (4) of the Habitats Directive 92/42/EED. European Commission (2001).
- Managing Natura 2000 Sites The provisions of Article 6 of the Habitats directive 92/43/EEC. European commission (2018).
- Communication from the Commission on the precautionary principle. European Commission (2000). SEP

2.2 BACKGROUND TO HABITATS DIRECTIVE ARTICLE 6 ASSESSMENTS

The EC (2001) guidelines outline the stages involved in undertaking an assessment of a project under Article 6(3) and 6(4) of the Habitats Directive. The assessment process comprises the four stages outlined below. Stage 1 to 3 form part of the Article 6(3) process, while Stage 4 forms part of the Article 6(4) process. This NIR presents the findings of an assessment for Stage 2 of this assessment process.

- Stage 1 Screening: This stage defines the proposed plan, establishes whether the proposed plan is necessary for the conservation management of the Natura 2000 site and assesses the likelihood of the plan to have a significant effect, alone or in combination with other plans or projects, upon a Natura 2000 site.
- Stage 2 Appropriate Assessment: If a plan or project is likely to have a significant affect an Appropriate Assessment must be undertaken. In this stage the impact of the plan or project to the Conservation Objectives of the Natura

2000 site is assessed. The outcome of this assessment will establish whether

the plan will have an adverse effect upon the integrity of the Natura 2000 site.

Sept 2019

Date:

Document Issue: Final

 Stage 3 – Assessment of Alternative Solutions: If it is concluded that, subsequent to the implementation of mitigation measures, a plan has an adverse impact upon the integrity of a Natura 2000 site it must be objectively concluded that no alternative solutions exist before the plan can proceed.

Stage 4 – Where no alternative solutions exist and where adverse impacts
remain but imperative reasons of overriding public interest (IROPI) exist for
the implementation of a plan or project an assessment of compensatory
measures that will effectively offset the damage to the Natura site 2000 will be
necessary.

2.3 STAGE 2: APPROPRIATE ASSESSMENT STEPS

The EC Guidance Assessment Criteria for Appropriate Assessment seeks the following information:

- 1. A description of the elements of the project that are likely to give rise to significant effects to European Sites;
- 2. The Setting out the Conservation Objectives of the Site;
- 3. A description of how the project will affect key species and key habitats;
- 4. A description of how the integrity of the site (determined by structure and function and conservation objectives) is likely to be affected by the project (e.g. loss of habitat, disturbance, disruption, chemical changes, hydrological changes etc.);
- 5. A description of the mitigation measures that are to be introduced to avoid, reduce or remedy the adverse effects on the integrity of European Sites.

2.4 INFLUENCE OF THE APPROPRIATE ASSESSMENT PROCESS ON THE DRAFT PLAN

The purpose of the Appropriate Assessment of the draft Plan is not only to assess the implications of this Plan on European Sites and their qualifying features of interest occurring within its zone of influence, but also to provide safeguards that aim to minimise the

 Client:
 South Dublin County Council
 Date:
 Sept 2019

 Project Title:
 Tallaght Town Centre LAP
 Document Issue:
 Final

 Document Title:
 NIR

ecological implications of the Plan and avoid likely significant effects to European Sites. This latter element of the Appropriate Assessment process is manifest in the following scenarios:

- Where specific elements of the draft Plan have been identified as having the
 potential to result in negative land use effects that could in turn result in
 impacts to European Sites, the relevant text of the Draft Plan will be revised to
 minimise such effects.
- Where elements of the Draft Plan are of a more general nature that prevented the identification of likely impacts to European Sites, text was provided to ensure that all potential impacts arising out of these elements of the plan are assessed as part of an Appropriate Assessment at the project level.
- Any elements of the draft Plan and the South Dublin CDP that aim to protect
 the natural environment were identified and evaluated for their their role in
 safeguarding European Sites.

14

11/09/2019

3.0 OVERVIEW OF THE DRAFT PLAN && ELEMENTS THAT COULD GIVE RISE TO SIGNIFICANT EFFECTS

Sept 2019

Date:

Document Issue: Final

South Dublin County Council (SDCC) has prepared a draft Local Area Plan for the Tallaght Town Centre. The Proposed Draft Plan seeks to establish South Dublin County Council's vision and ambition for the Tallaght Town Centre within the planning framework of the South Dublin CDP. The vision of this Local Area Plan is for Tallaght to be:

"An inclusive and vibrant Town Centre, a connected and accessible place with an attractive built environment for families of all kinds, workers, visitors and tourists. A place where people can live, work, visit and have fun in lively and liveable spaces."

Section 2.1 of the LAP provides the following Overarching Objectives for the plan:

- To direct land uses and intensity of development in a manner that creates a sustainable urban form, based on the integration of land use and transport planning (Objective UF1);
- To promote a mix of uses in a manner that creates a sustainable and active area (Objective UF2);
- To ensure that development is carried out in a design led manner that prioritises place making and accords with the core principles of urban design and the creation of integrated streets (Objective UF3);
- To ensure that development is laid out in a series of blocks and plots that are legible, permeable and appropriate in land use, scale, building height, street widths, urban grain and street frontages (Objective UF4);
- To upgrade existing and design new streets using an integrated approach to pedestrian, cyclist and vehicular movement and ensure that the movement function of each street is reflected by an appropriate design response and design speed (Objective UF5);
- To provide attractive, interesting and well used public realm and open spaces using place making and urban design principles, creating a pedestrian centred environment with active, inviting public space and parks (Objective UF6); and

Client: South Dublin County Council Date: Sept 2019
Project Title: Tallaght Town Centre LAP Document Issue: Final

• To protect, enhance and develop an interconnected green and blue infrastructure network of parks, open spaces, hedgerows, grasslands, rivers and streams for amenity and recreation, biodiversity protection, flood management and adaptation to climate change (Objective UF7);

The Draft Plan comprises a series of chapters and objectives with landuse zonings unchanged from those within the South Dublin County Development Plan 2016-2022. The chapters are as follows:

Chapter One: Introduction and Context

Chapter Two: Urban Framework

Chapter Three: Neighbourhoods

Chapter Four: Economic Development and Regeneration

Chapter Five: Residential and community

Chapter Six: Heritage and Conservation

Chapter Seven: Climate Change: Mitigation and Adaptation

Chapter Eight: Implementation and Sequencing

Chapter Nine: Tallaght Specific Development Standards

Chapters Three and Four includes a number of measures including the identification of a major residential area of development at Cookstown, zoned Regeneration in the South Dublin CDP 2016-2022 (Sections 3.3 Cookstown and 4.2 Economic Development and Regeneration). Chapter Eight Implementation and Sequencing, identifies a number of key for each neighbourhood, some of which relate to physical infrastructure, whilst others relate to social and community infrastructure. Examples include the following:

- Cookstown Urban Square and Belgard Urban Square (no location as yet)
- Improvements to existing roads for pedestrians and cyclists
- New link Belgard North Link Road, Airton Road Extension

16 11/09/2019

Sept 2019 Date: Document Issue: Final

A new Secondary Route connecting Cookstown Road to Old Belgard Road

A new Secondary Route connecting Cookstown Road to Cookstown Way

3.1 ELEMENTS OF THE DRAFT PLAN THAT COULD GIVE RISE TO SIGNIFICANT EFFECTS

During the screening of the Draft Plan the following elements were identified as requiring further examination for their likelihood to give rise to significant effects to European Sites:

The aim of the Draft Plan to strengthen links between the plan area and the Dublin Mountains, within which are located the Glenasmole Valley SAC and the Wicklow Mountains European Sites;

The objectives of the Draft Plan to undertaken works along existing culverted sections of the River Poddle that is hydrologically connected to European Sites at Dublin Bay;

Land use objectives for neighbourhoods within the plan area that aim to provide transport infrastructure along and over surface watercourses that are hydrologically connected to European Sites at Dublin Bay; and

Land use objectives for neighbourhoods within the plan area that aim to facilitate redevelopment on existing brownfield sites that may, at the project level, present a risk to water quality within receiving watercourses that are in turn hydrologically connected to European Sites at Dublin Bay.

OVERVIEW OF THE BASELINE BIODIVERSITY OF THE DRAFT PLAN 3.2 **AREA**

The land cover within the draft plan lands is largely representative of Built Land and Artificial Surfaces. However two public parks are present Sean Walsh Park and Bancroft Park of which habitat maps have been prepared. In addition, the mature trees and parkland associated with the Priory and IT Tallaght provide local biodiversity resources and connections.

Sept 2019 Date: Project Title: Document Issue: Final

In turn, this makes the areas of open space and watercourses potentially important as green corridors and stepping stones for biodiversity. The surface water bodies occurring within the Variaton Lands are described below.

Surface Waterbodies in the Plan area

The surface watercourses occurring within the draft lands are shown on Figure 1.4.

3.2.1.1 Poddle Stream

The Poddle Stream is currently unclassified (www.catchments.ie) but is an important river of historical significance. It is 10.13km in length and enters the River Liffey at Wellington Quay in Dublin. It is culverted for a lot of its length but is open as it flows through Bancroft Park. It discharges to the Liffey Estuary Upper. The most recent surface water data is from 2007-2009 when it was classified as poor status.

3.2.1.2 Whitestown/Tallaght Stream

The stream is a tributary of the River Dodder (Subcatchment 040) and flows through Sean Walsh Park at the southern boundary of the plan area.

3.2.1.3 Surface Water quality

The plan area is located within the Liffey and Dublin Bay catchment. The River Poddle forms it own sub-catchment and the northern section of the plan area is located within this subcatchment. The Whitestown Stream forms part of the Dodder sub-catchment (code SC 040) and the southern portion of the plan area is located within this sub-catchment. According to the EPA's online Map Viewer, the surface water quality of the River Poddle is classified at poor quality, while the Whitestown Stream is classified at moderate status. Surface water status is classified under the WFD from 'high' to 'bad' status. In measuring this status both ecological and chemical parameters are measured and the overall status is determined by the lower threshold achieved for both ecological and chemical parameters

3.2.2 Groundwater Quality

Groundwater is a further significant resource and refers to water stored underground in saturated rock, sand, gravel, and soil. Surface and groundwater functions are closely related and form part of the hydrological cycle. The protection of groundwater from land uses is a

Project Title:

critical consideration and groundwater vulnerability is becoming an important management tool. The entire island of Ireland has been designated as a Protected Area for Groundwater under the WFD. Groundwater is important as a drinking water supply as well as the supply to surface waters. In addition, groundwater supplies surface waters. Groundwater is exposed to higher concentrations of pollutants that are retained in the layers of rock and soil. The exposure to pollutants lasts much longer as groundwater moves at a slower pace through the aquifer. The quality of our drinking water supply, fisheries and terrestrial based habitats is intrinsically linked with groundwater quality. The Geological Survey of Ireland (GSI) aquifer categories are based on their vulnerability to pollution, i.e. the ease at which it can enter the subsurface layers. The classification of extreme or high vulnerability means that the groundwater in these areas is very vulnerable to contamination due to hydrogeological and soil factors.

The Geological Survey of Ireland's Groundwater Vulnerability Mapping shows the groundwater vulnerability for the area of the draft plan is considered Low to Moderate; with an area in the northern part of the plan area identified as being of Extreme Vulnerability. The groundwater quality of the area is classified as good. The Draft Plan lands are located within the Dublin Urban Waterbody under the Water Framework Directive and overall status of the Groundwater is good; the main risks are from urban derived pressures.

3.2.3 Non-Native Invasive Species

The control of invasive species in Ireland comes under the Wildlife (Amendment) Act 2000 where it states that 'Any person who—[...] plants or otherwise causes to grow in a wild state in any place in the State any species of flora, or the flowers, roots, seeds or spores of flora, ['refers only to exotic species thereof'][...] otherwise than under and in accordance with a licence granted in that behalf by the Minister shall be guilty of an offence.'

Under the European legislation, the Birds and Natural Habitats Regulations 2011 (SI 477 of 2011), Section 49(2) prohibit the introduction and dispersal of species listed in the Third Schedule (including Japanese Knotweed) whereby "any person who plants, disperses, allows or causes to disperse, spreads or otherwise causes to grow [....] shall be guilty of an offence." Table 4.1 below shows identified invasive species from Biodiversity Ireland database. Note some of these are considered greater risk than others, and the potential for water corridors such as the Dodder to be vectors of the dispersal of these species is important; as well as

19

Sept 2019

Date:

Document Issue: Final

accidental transfer or introduction arising from construction activities. Two 2km grid searches were undertaken.

Table 3.1 Recorded Invasive Species in the Plan Area

Species	Invasive Species identified in the following 2km Grid Search: O02Y
Group	O02Y and O02Z
	Name
Plants	Butterfly-bush (Buddleja davidii)
	Sycamore (Acer pseudoplatanus)
	Wild Parsnip (Pastinaca sativa)
Mammal	European Rabbit (Oryctolagus cuniculus)

Sept 2019

Date:

Document Issue: Final

3.3 EUROPEAN SITES OCCURRING WITHIN THE ZONE OF INFLUENCE OF THE DRAFT PLAN

The following sub-sections provide an overview of the three European Sites occurring within the zone of influence of the Draft Plan.

3.3.1 Glenasmole SAC

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 andhas been impounded here to form two reservoirs which supply water to south Dublin. The non-calcareous bedrock of the Glenasmole Valley has been overlain bydeep drift deposits which now line the valley sides. They are partly covered by scruband 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. Qualifying features for which this site has been designated as a SAC are listed in Table 4.2 below. Generic Conservation Objectives are available for this SAC (see NPWS, 2018).

The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SAC are as follows:

20

Human induced changes in hydraulic conditions (high)

Sept 2019

- Forest plantation (medium)
- Fertilisation (medium)
- Non intensive cattle grazing (medium)

Table 3.2: Glenamole Valley SAC Qualifying Features of Interest & Conservation Status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites) [6210	Not establihsed	Bad
Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) [6410]	Not established	Bad
Petrifying springs with tufa formation (Cratoneurion) [7220]	Not established	Inadequate

3.3.2 Wicklow Mountains SAC

Qualifying features for which this site has been designated as a SAC are listed in Table 4.3 below. The distribution of the habitats associated with this SAC are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

Sept 2019 Date: Document Issue: Final

The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SAC are as follows:

- Off-road motorized driving
- Disposal of household / recreational facility waste
- Damage by herbivores (including game species)
- Grazing in forests/ woodland
- Mountaineering, rock climbing, speleology
- Missing or wrongly directed conservation measures
- Walking, horseriding and non-motorised vehicles
- Invasive non-native species
- Erosion
- Grazing
- Wildlife watching
- Trampling, overuse,
- Stock feeding
- Urbanised areas, human habitation
- Hunting and collection of wild animals (terrestrial)
- Collapse of terrain, landslide
- Collection (fungi, lichen, berries etc.)
- Vandalism

- Outdoor sports and leisure activities, recreational activities
 - Tree surgery, felling for public safety, removal of roadside trees

Sept 2019

Date:

Document Issue: Final

- Military manoeuvres
- Burning down
- Paths, tracks, cycling tracks
- Peat extraction
- Taking from nest (falcons)

Table 3.3: Wicklow Mountains SAC Qualifying Features of Interest & Conservation Status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Not Reported	Bad
Natural dystrophic lakes and ponds	Not Reported	unfavourable inadequate
Northern Atlantic wet heaths with Erica tetralix	Not Reported	Bad
European dry heaths	Not Reported	Bad
Alpine and Boreal heaths	Not Reported	Bad

Calaminarian grasslands of the Violetalia calaminariae	Not Reported	unfavourable inadequate
Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe)	Not Reported	Bad
Blanket bogs (* if active bog)	Not Reported	Bad
Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	Not Reported	Inadequate
Calcareous rocky slopes with chasmophytic vegetation	Not Reported	Inadequate
Siliceous rocky slopes with chasmophytic vegetation	Not Reported	Inadequate
Old sessile oak woods with Ilex and Blechnum in the British Isles	Not Reported	Bad
Lutra lutra (Otter)	Not Reported	Good

3.3.3 Wicklow Mountains SPA

Special conservation interests for which this site has been designated as a SPA are listed in Table 4.4 below. The distribution of the habitats associated with this SPA are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

The threats and pressures to this SPA have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

Sept 2019

- Paths, track and cycle ways
- Improved access to site
- Grazing
- Disposal of household and industrial waste
- Tree surgery
- Camping and caravanning
- Wrongly directed conservation measures
- Discharges

Table 3.4: Wicklow Mountains SPA Special Conservation Interests & Conservation Status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Merlin (Falco columbarius)	Not Reported	Amber listed species- Species of medium conservation concern
Peregrine (Falco peregrinus)	Not Reported	Green listed species- Species of low conservation concern

North Dublin Bay SAC 3.3.4

This site covers the inner part of north Dublin Bay, the seaward boundary extending from the Bull Wall lighthouse across to the Martello Tower at Howth Head. The North Bull Island is the focal point of this site. Qualifying features for which this site has been designated as a SAC are listed in Table 4.5 below. The distribution of the habitats associated with this SAC are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

Sept 2019

Date:

Document Issue: Final

The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SAC are as follows:

- Urbanised areas, human habitation
- Walking, horseriding and non-motorised vehicles
- Golf course
- Industrial or commercial areas
- Discharges

Table 3.5 lists each of the qualifying features of interest for this SAC and their conservation status

Table 3.5: North Dublin Bay SAC qualifying features of interest and conservation status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Mudflats and sandflats not covered by seawater at low tide	Favourable	Poor
Annual vegetation of drift lines	Not established	Poor
Salicornia and other annuals colonizing mud and sand	Unfavourable	Poor

 Client:
 South Dublin County Council
 Date:
 Sept 2019

 Project Title:
 Tallaght Town Centre LAP
 Document Issue:
 Final

 Document Title:
 NIR

Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	Poor
Petalwort (Petalophyllum ralfsii)	Not established	Good
Mediterranean salt meadows (Juncetalia maritimi)	Favourable	Poor
Embryonic shifting dunes Shifting dunes along the shoreline with Ammophila arenaria (white dunes)	Unfavourable-inadeqaute	Poor
Fixed coastal dunes with herbaceous vegetation (grey dunes)	Unfavourable-Bad	Bad
Humid dune slacks	Unfavourable-inadeqaute	Bad

3.4 NORTH BULL ISLAND SPA

This site covers all of the inner part of north Dublin Bay, with the seaward boundary extending from the Bull Wall lighthouse across to Drumleck Point at Howth Head. 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, Shelduck, Teal, Pintail, Shoveler, Oystercatcher, Ringed Plover, Golden Plover, Grey Plover, Knot, Sanderling, Dunlin, Black-tailed Godwit, Bar-tailed Godwit, Curlew, Redshank, Turnstone and Black-headed Gull. The site is also of special conservation interest for holding an assemblage of over 20,000 wintering waterbirds. The E.U. Birds Directive pays particular attention to wetlands and, as these form part of this SPA, the site and its associated waterbirds are of special conservation interest for Wetland & Waterbirds.

The qualifying features for which this site has been designated as a SPA are listed in Table 4.6 below. The threats and pressures to this SAC have been documented in the Standard

Sept 2019 Date: Document Issue: Final

Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- Disposal of household / recreational facility waste
- Golf Course
- Industrial or commercial areas
- Walking, horseriding and non-motorised vehicles
- Bridge, viaduct
- Roads, motorways
- Discharges

Table 3.6 lists each of the qualifying features of interest for this SAC and their conservation status

Table 3.6: North Bull Island SPA qualifying features of interest and conservation status

SCIs	Conservation Status
Light-bellied Brent Goose (Branta bernicla hrota)	Amber listed species- Species of medium conservation concern
Shelduck (Tadorna tadorna)	Amber listed species- Species of medium conservation concern
Teal (Anas crecca)	Amber listed species- Species of medium conservation concern
Pintail (Anas acuta)	Red listed species – Species of high conservation concern [†]
Shoveler (Anas clypeata)	Red listed species – Species of high conservation concern [†]

Oystercatcher (Haematopus ostralegus)	Amber listed species- Species of medium conservation concern
Golden Plover (Pluvialis apricaria)	Red listed species – Species of high conservation concern
Grey Plover (Pluvialis squatarola)	Amber listed species- Species of medium conservation concern
Knot (Calidris canutus)	Red listed species – Species of high conservation concern†
Sanderling (Calidris alba)	Green listed species – Species not threatened
Dunlin (Calidris alpina)	Amber listed species- Species of medium conservation concern
Black-tailed Godwit (Limosa limosa)	Amber listed species- Species of medium conservation concern
Bar-tailed Godwit (<i>Limosa</i> lapponica)	Amber listed species- Species of medium conservation concern
Curlew (Numenius arquata)	Red listed species – Species of high conservation concern
Redshank (Tringa totanus)	Red listed species – Species of high conservation concern
Turnstone (Arenaria interpres)	Green listed species – Species not threatened
Black-headed Gull (<i>Larus</i> ridibundus)	Red listed species – Species of high conservation concern
Wetlands & Waterbirds	

Sept 2019

Date:

Document Issue: Final

3.5 SOUTH DUBLIN BAY RIVER TOLKA ESTUARY SPA

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.

Sept 2019

Date:

Document Issue: Final

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

The qualifying features for which this site has been designated as a SPA are listed in Table 4.7 below. The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- Walking, horseriding and non-motorised vehicles
- Reclamation of land from sea, estuary or marsh
- Discharges
- Roads, motorways
- Industrial or commercial areas

Table 3.7 lists each of the qualifying features of interest for this SAC and their conservation status

Table 3.7: South Dublin Bay River Tolka Estuary SPA qualifying features of interest, and conservation status

SCIs	Conservation Status

Light-bellied Brent Goose (Branta bernicla hrota)	Amber listed species- Species of medium conservation concern
Oystercatcher (Haematopus ostralegus)	Amber listed species- Species of medium conservation concern
Ringed Plover (Charadrius hiaticula)	Amber listed species- Species of medium conservation concern
Grey Plover (Pluvialis squatarola)	Amber listed species- Species of medium conservation concern
Knot (Calidris canutus)	Red listed species – Species of high conservation concern [†]
Sanderling (Calidris alba)	Green listed species – Species not threatened
Dunlin (Calidris alpina)	Amber listed species- Species of medium conservation concern
Bar-tailed Godwit (<i>Limosa</i> lapponica)	Amber listed species- Species of medium conservation concern
Redshank (Tringa totanus)	Red listed species – Species of high conservation concern
Black-headed Gull (Croicocephalus ridibundus)	Red listed species – Species of high conservation concern
Roseate Tern (Sterna dougallii)	Green listed species – Species not threatened
Common Tern (Sterna hirundo)	Amber listed species- Species of medium conservation concern
Arctic Tern (Sterna paradisaea)	Amber listed species- Species of medium conservation concern
Wetlands & Waterbirds	

Sept 2019

Date:

Document Issue: Final

4.0 CONSERVATION OBJECTIVES OF EUROPEAN SITES

The NPWS has published generic Conservation Objectives for all European Sites in Ireland and have also published a growing number of Site Specific Conservation Objectives for these sites. The generic Conservation Objectives for European Sites outline the overall aim of the Habitats Directive which is to maintain or restore the favourable conservation status of habitats and species of community interest. The generic Conservation Objectives go on to define in broad times how the favourable conservation status of habitats and species of community importance is achieved.

As per the generic Conservation Objectives for European Sites the favourable conservation status of a habitat is achieved when:

- its natural range, and area it covers within that range, are stable or increasing, and
- the specific structure and functions which are necessary for its long-term maintenance exist and

are likely to continue to exist for the foreseeable future, and

• the conservation status of its typical species is favourable.

The favourable conservation status of a species is achieved 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, and
- 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 probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis.

These generic Conservation Objectives are in place for the Glenasmole Valley SAC and the Wicklow Mountains SPA. However Site Specific Conservation Objectives have been published for the other 4 European Sites occurring within the plan area's zone of influence (see NPWS, 2013; 2015a; 2015b; & 2017). These Site Specific Conservation Objectives are based on the identification of key attributes that underpin the conservation status of

32

Sept 2019

Date:

Document Issue: Final

Sept 2019 Date: Document Issue: Final

qualifying habitats and species. The Site Specific Conservation Objectives set targets for each of these attributes that are used as a measures of the favourable conservation status of these features.

The Site Specific Conservation Objectives for these 4 European Sites are considered in Section 6 of this NIR to assess the potential affect of the draft plan to the qualifying features of interest of these European Sites.

5.0 DESCRIPTION OF HOW THE PLAN COULD AFFECT EUROPEAN SITES The elements of the draft plan identified as requiring further examination for their potential to result in significant effects to European Sites are listed in Section 4.1 above. Each of these elements are examined in the following subsection by providing an assessment of the potential ecological impacts that they pose to relevant European Sites. In advance of this a general discussion of the potential ecological affects associated with the land use elements of the Draft Plan as identified in Secton 4 above is provided.

The land use activities associated with these elements of the Draft Plan will include:

Demolition activities; Construction activities; and Operational activities.

The potential ecological effects of such activities relate to:

- Habitat loss and fragmentation: the direct loss of habitat occurring within the footprint of project sites as result of developments facilitated by the Draft Plan.
- Habitat degradation resulting from emissions to surface water: the construction phase of development projects can result in the discharge of contaminated surface water to receiving watercourses. The operation of developments, if not properly served by a wastewater treatment facility can lead to the discharge of polluting wastewater to receiving waterbodies downstream. Habitat degradation resulting from emissions to groundwater: as above, the development of projects can result in the discharge of polluted waters to groundwaters during the construction phase and operation phase of project.
- Habitat degradation resulting from emissions to air: the construction phase and operation phase of projects can result in the emission of pollutants, such as dust, particulate matter, SOx and NOx to the atmosphere.

Habitat degradation resulting from the spread of non-native invasive species during development works facilitated by the Draft Plan: If present on site development projects can result in the spread of these species; and

Sept 2019

Date:

Document Issue: Final

Disturbance and/or displacement of qualifying species from within or outside European Sites: where development sites are located in close proximity to habitats upon which qualifying species of European Sites rely then they can result in disturbance to these species and where disturbance stimuli persist they can result in displacement of these species from habitats.

Appendix 1 provides a list of the qualifying feature of interest/special conservation interests of the six European Sites occurring within the zone of influence of the Draft Plan and assesses whether each of these features are at risk from the ecological effects listed above. Table 5.1 below provides a summary list of those features which have been identified as being at risk of negative impacts as a result of the ecological effects associated with the land use measures of the Draft Plan.

In advance of Table 5.1, each of the elements of the Draft Plan that have been identified as requiring further examination during the Screening are assessed in the following sub-sections.

5.1 STRENGTHENING OF LINKS WITH THE DUBLIN MOUNTAINS

The strengthening of links between the plan area and the Dublin Mountains could in turn lead to an increase in footfall and recreation within the Dublin Mountains. Much of the Dublin Mountains are designated as part of the Wicklow Mountains European Sites. In addition the Glenasmole Valley SAC is located within the Dublin Mountains region.

As noted in Section 4.3.2 above existing pressures associated with recreational activities have been identified within the Wicklow Mounatains European Sites. These pressures include walking, horseriding, mountaineering etc. An increase in these activities could lead to further pressures on sensitive habitats supported by this SAC and SPA. In addition an increase in the presence of people within these European Sites could also increase the potential for disturbance to senstive species supported by these European Sites. In particular merlin, which is a special conservation interests of the Wicklow Mountains SPA are sensitive to disturbance

from people and an increase in recreational pressure could have negative effects for this species.

Sept 2019

Date:

Document Issue: Final

The Molinia grassland and petrifying spring habitat of the Glenasmole Valley SAC are also sensitive to recreational pressure and these habitats can be easily degraded by ongoing trampling.

Table 5.1 provides an assessment of the potential for additional recreational pressures faciliated by the draft plan to result in negative affects to the Wicklow Mountains SAC and SPA and the Glenasmole Valley SAC.

5.2 WORKS TO THE RIVER PODDLE

The draft plan outlines objectives that aim to enhance the landscape amenity and biodiversity value of existing culverted sections of the River Poddle. The provision of these works will have overall long-term benefits for biodiversity in the plan area but the potential will exist for impacts to the water quality of the river during these works. The works along the River Poddle will be completed over 15km upstream of the European Sites at Dublin Bay.

These works will involve the removal of existing culverts, the realignment of the existing watercourses, where required, and the landscaping of the bankside and riparian area. During such works the prinicipal potential emission to this watercourse will be the mobilisation of silts and their transport downstream along the watercourses. There will also be potential for the accidental emission of hydrocarbons to the watercourses during works. However given the nature of the works that are likely to be undertaken to complete this objective the quantities of hydrocarbons and other potentially polluting materials that are required for the works will be small and should they be emitted to the river, will be diluted and degraded within the river and the Liffey catchment downstream well before reaching Dublin Bay.

In addition, the waters of the River Poddle represent a minor fraction of freshwater inputs to the Liffey estuary. It is noted that there are multiple other sources of freshwater (11 in total, some of which include the River Dodder, Royal Canal, River Cammock etc.) entering the Liffey Estuary. These other sources combine with the River Liffey discharges to further

dilute freshwater discharging from the River Poddle. In light of this any discharges to the River Liffey Estuary during works to the River Poddle, will be thoroughly mixed and imperceptible downstream at Dublin Bay.

Sept 2019

Date:

Document Issue: Final

Given the above the examination of this element of the draft plan has found been that there will be no potential for works associated with this objective to result in significant effects to the conservation status of the European Sites occurring downstream at Dublin Bay.

5.3 **PROVISION** OF TRANSPORT INFRASTRUCTURE WITHIN **NEIGHBOURHOODS**

The draft plan outlines objectives that aim to provde transport infrastructure within the plan area across and adjacent to the Whitestown Stream and the River Poddle. In the main this infrastructure will be in the form of new cycling and pedestrian routes, to be located within existing areas of greenfield land or else along existing road ways. During the construction of these routes there will be potential for emissions of polluting materials such as hydrocarbons and silt-laden waters to these watercourses. The emission of such materials will have the potential to result in negative effects to the water quality of these watercourses. However any water quality effects to these watercourses during works will be limited to the freshwater sections of these watercourses and will not have the potential to result in impacts to water quality approximately 15km downstream at the River Liffey Estuary. The absence of any water quality affects downstream at the estuary is supported by the following:

The volumes of surface water draining lands that are to be subject to new transport infrastructure represent a miniscule fraction of the volumes discharging to the Liffey catchment upstream of the Dublin Bay European Sites. In the event of contaminated waters entering the River Poddle or the Whitetown Stream, these waters and any associated pollutants will be adequately diluted within the freshwater sections of the River Poddle and the River Dodder catchment downstream of the plan area.

The waters of the River Poddle and the Whitestown Stream represent a minor fraction of freshwater inputs to the Liffey estuary. It is noted that there are multiple other sources of freshwater (11 in total, some of which include the River Dodder, Royal Canal, River

Date: Document Issue: Final

Sept 2019

Cammock etc.) entering the Liffey Estuary. These other sources combine with the River Liffey discharges to further dilute freshwater discharging from the River Poddle and Whitestown Stream. In light of this any discharges to the River Liffey Estuary during works associated with transport infrastructure adjacent to the River Poddle and the Whitestown Stream, will be thoroughly mixed and imperceptible downstream at Dublin Bay.

Finally other studies have shown that pollutants in the estuary are rapidly mixed and become diluted within the estuary and Dublin Bay (O'Higgins and Wilson, 2005; Wilson and Jackson, 2011) again indicating that any potential for the release of contaminants to the River Poddle and the Whitestown Stream during works associated with the provision of the infrastructure objectives of the draft plan will not have the potential to result in any perceptible effect to water quality downstream at Dublin Bay.

Given the above the examination of this element of the draft plan, it has been found that there will be no potential for works associated with this objective to result in significant effects to the conservation status of the European Sites occurring downstream at Dublin Bay.

5.4 FACILITATION OF DEVELOPMENT WITHIN NEIGHBOURHOODS

A significant amount of land use change within existing brownfield sites is provided for by the Draft Plan within each of the neighbourhood plans. In particular a significant amount of regeneration within Cookstown will be promoted over the lifetime of the LAP. The land use activities that will be associated with land use changes within existing brownfield sites facilitated by the Draft Plan will include demolition activities; construction activities; and operational activities.

The potential ecological effects of such activities relate to habitat degradation resulting from emissions to surface water: the demolition and construction phase of development projects within brownfield sites can result in the discharge of contaminated surface water to receiving watercourses (i.e. the River Poddle and the Whitestown Stream) and associated negative impacts on water quality within these watercourses. While it is noted in Section 5.2 and 5.3 that there will be no potential for such water quality effects to be apparent downstream at Dublin Bay, a precautionary approach has been adopted to the assessment of development within neighbourhood brownfield sites. This is based on the potential for unknown sources of

37

Date: Document Issue: Final

Sept 2019

contamination that could be associated with historic industrial land use within brownfield sites and the potential for noxious contaminants to be present within these sites. While (for the reasons outlined in Section 6.2 and 6.3) such substances are likely to be diluted within the freshwater sections of the Liffey catchment (which includes the River Poddle, Whitestown Stream and the River Dodder) downstream of the plan area, the precautionary approach is applied, and the potential for water quality effects downstream at Dublin Bay are not ruled out at the Plan stage.

The operation phase of new developments supported by the Draft Plan in neighbourhoods, if not properly served by a wastewater treatment facility, can lead to the discharge of polluting wastewater receiving waterbodies downstream. Ringsend Wastewater Treatment Plant (WWTP), which will receive wastewater from future developments within the Draft Plan area has historically operated at or above capacity, with a total load of 2.19 million P.E. on average, with significant fluctuations from day to day. Loading has increased in recent years with the rise in population recorded in the Dublin local authorities between 2011 and 2016 of approximately 4-6%. The latest information from Irish Water indicates that the plant is currently operating above its capacity of 1.64 million P.E. (Irish Water, 2017), with a current operational loading of 2.19 million P.E.. In 2017 the plant was non-compliant with several parameters as set under the EPA discharge license. Any existing or proposed projects discharging to the plant have the potential to act cumulatively to reduce water quality in Dublin Bay, affecting European Sites therein. Despite Ringsend WWTP historically operating at or above capacity, no significant effects from wastewater discharges arising from developments within the Draft Plan are predicted due to the following:

- The 2017 Annual Environmental Report for the WWTP concluded that the assessments carried out on water quality in transitional and coastal waterbodies did not indicate a significant impact from the specific pollutants listed on the receiving waters outside the near field of the discharge point or in the Liffey and Tolka Estuaries.
- Even in the absence of an upgrade, there was no proven link between WWTW discharges and nutrient enrichment of sediments in Dublin Bay based on analyses of dissolved and particulate nitrogen signatures in research published in 2011 (Wilson and Jackson, 2011);

Client: South Dublin County Council Project Title: Tallaght Town Centre LAP

Document Title: NIR

 Enriched water entering Dublin Bay has been shown to rapidly mix and become diluted such that the plume is often indistinguishable from the rest of bay water (O'Higgins and Wilson, 2005);

Sept 2019

Date:

Document Issue: Final

- Marine modelling for Ringsend WWTP indicates that discharged effluent is rapidly
 mixed and dispersed to low levels via tidal mixing within a short distance of the
 outfall pipe (Dowly & Bedri 2007); and
- Recent modelling of water quality in Dublin Bay for the Ringsend WWTP Upgrade
 Project demonstrates that the effects of nutrients from Ringsend WWTP are largely
 confined to the area between the South Wall and the Tolka Estuary (Irish Water,
 2018).

5.5 ASSESSMENT OF ECOLOGICAL AFFECTS TO QUALIFYING FEATURE OF INTEREST OF EUROPEAN SITES

Appendix 1 lists the qualifying feature of interest/special conservation interests of the six European Sites occurring within the zone of influence of the Draft Plan and assesses whether each of these features are at risk from the ecological effects listed in Section 5 above.

The results of the assessment provided in Appendix 1 show that certain qualifying features of these European Sites could be adversely affected by some of the ecological effects associated with future land use/regeneration developments within existing brownfield lands occurring in the Draft Plan lands and the strengthening of links between the plan area and the Dublin Mountains. Table 6.1 provides a summary list of these features and the ecological effects that have the potential to result in adverse effects.

39

Table 6.1: Summary of Qualifying Features of Interest that Could be Negatively Impacted by Ecological Effects Associated with Land Use Elements of the Draft Plan

Date:

Document Issue: Final

Sept 2019

European Sites	Features at Risk	Type of Ecological Effects
North Dublin Bay SAC	Mudflats and Sandflats	Habitat degradation through the
	Salicornia and other	pollution/contamination to surface
	annuals colonising mud	waters and groundwater and the
	and sand	potential for the spread of non-
	Atlantic salt meadows	native invasive species.
	(Glauco-Puccinellietalia	
	maritimae)	
South Dublin Bay River	All special conservation	Habitat degradation through the
Tolka Estuary SPA	interest bird species and	pollution/contamination to surface
	wetland habitats.	waters and groundwater and the
		potential for the spread of non-
		native invasive species.
North Bull Island SPA	All special conservation	Habitat degradation through the
	interest bird species and	pollution/contamination to surface
	wetland habitats.	waters and groundwater and the
		potential for the spread of non-
		native invasive species.
Wicklow Mountains	All peatland, grassland,	Habitat loss and fragmentation as
SAC	scree and woodland	a result of increased recreational
	habitats	pressure.
	All freshwater habitats	Habitat degradation as a result of
		negative impacts to water quality
		and the spread of non-native
		invasive species as a result of
		increased recreational pressure in
		areas bounding these habitats.
	Otters	Habitat loss and fragmentation,
		habitat degradation as a result of
		perturbations to water quality and

40 11/09/2019

Wicklow Mountains SPA	Peregrine & Merlin	the spread of non-native invasive species and disturbance, all potentially arising as a result of increased recreational pressure. Habitat loss and fragmentation, habitat degradation as a result of the spread of non-native invasive species and disturbance, all potentially arising as a result of increased recreational pressure.
Glenasmole Valley SAC	Semi-natural dry grasslands, Molinia meadows and Petrifying Springs	Habitat loss and fragmentation as a result of increased recreational pressure.

5.6 IN-COMBINATION EFFECTS

All of the streams and rivers in South Dublin County, apart from the Brittas River and the Shinkeen River, drain either northwards into the River Liffey which forms the northern boundary of the County, or they flow north and eastwards through the County into the administrative areas of Dún Laoghaire-Rathdown and Dublin City, before draining directly into Dublin Bay via the Ringsend Basin.

Objectives in the draft plan, particularly around Cookstown Regeneration will facilitate proposals for regeneration projects the draft plan Lands. These projects and any other land use plans and projects occurring within the Liffey catchment that have potential to result in negative effects to water quality could, in theory, result in likely significant effects to the European Sites downstream at Dublin Bay.

Other relevant adopted or proposed land use plans in the surrounding area are listed and assessed for their potential to result in cumulative effects in Table 6.2 below.

41

Table 6.2: Assessment of Potential for Negative Effects with Other Plans & Projects

Date:

Document Issue: Final

Sept 2019

Plan	Comment	Cumulative effects
National	The purpose of the NPF is to provide a focal	A NIR was prepared for
Planning	point for spatial plans throughout the planning	this plan and an
Framework	hierarchy. It will provide a framework for the	Appropriate Assessment
	new Regional Spatial and Economic Strategies	was completed. The
	(RSESs) by the three Regional Assemblies and	Appropriate Assessment
	the associated enhancement of the economic	concluded that, subject
	development focus of local authorities as per the	to mitigation measures
	Local Government Reform Act 2014. The draft	proposed in the NIR,
	NPF will co- ordinate the strategic planning of	there will be no adverse
	urban and rural areas in a regional development	effects to the integrity of
	context to secure overall proper planning and	any European Sites as a
	development as well as co-ordination of the	result of the
	RSES's and city/ county development plans in	implementation of this
	addition to local economic and community plans	Plan.
	and local area plans and other local development.	
Regional	The RSES is a strategic plan which identifies	No in combination
Spatial &	regional assets, opportunities and pressures and	effects are identified.
Economic	provides appropriate policy responses in the form	
Strategy	of Regional Policy Objectives. At this strategic	
	level it provides a framework for investment to	
	better manage spatial planning and economic	
	development throughout the Region	
Dublin	During the formulation of the CCAPs for the	The individual action
Region	Dublin Region, a suite of common thematic	plan for each Local
Climate	actions have been prepared for each of the local	Authority has undergone
Change	authority areas	Habitats Directive
Action Plans		Asssessment and
2019-2024		Strategic Environmental
		Assessment. It has been
		found that by
		implementing the

42 11/09/2019

Plan	Comment	Cumulative effects
		mitigation policies and
		objectives of the
		relevant CDP as
		identified in the NIR
		and SEA ER, effects to
		the environment and
		European Sites are not
		likely to occur
The	This Strategy sets out how transport will be	No in combination
Transport	developed across the region, covering Dublin,	effects are identified.
Strategy for	Meath, Wicklow and Kildare, over the period of	
the Greater	the strategy and was subject to SEA and AA.	
Dublin Area,		
2016-2035		
Water	Ireland's first integrated national plan for the	No in-combination
Services	delivery of water services, the Water Services	impacts were predicted
Strategic	Strategic Plan (WSSP) addresses six key themes	as a result of
Plan	and was adopted in 2015. It was subject to full	implementation of the
	SEA and AA and concluded that Overall, the	Plans
	assessment has identified that the implementation	
	of the draft WSSP is likely to have positive	
	effects on the majority of the SEOs that have	
	been used in the assessment to help characterise	
	the environmental effects of the WSSP and no	
	significant negative effects were identified.	
Neighbouring	These plans were subject to full SEA and AA and	No in-combination
County	concluded that subject to full adherence and	impacts were predicted
Development	implementation of measures likely significant	as a result of
Plans	effects were not identified.	implementation of the
		Plans
River Basin	The National River Basin District Management	No in-combination
District	Plan is now published (2018). The second cycle	impacts are predicted as

Sept 2019

Date:

Document Issue: Final

Plan	Comment	Cumulative effects
Management	River Basin Management Plan aims to build on	a result of
Plans.	the progress made during the first cycle with a	implementation of the
	greater emphasis on ensuring the evidence base is	Plans
	available and the administration supports are	
	fully in place to support key measures. The	
	approach to the plan development involves	
	characterisation of Ireland's water bodies in order	
	to develop a tailored programme of measures to	
	allow for the protection of good status or the	
	restoration of good status for all water bodies.	
	The outcomes are then monitored in order to feed	
	into further characterisation and measures setting	
	as the cycle moves forward. The plan was subject	
	to SEA and Appropriate Assessment.	
CFRAMS	The Eastern CFRAM study has been	No in-combination
Study	commissioned in order to meet the requirements	impacts are predicted as
	of the Floods Directive, as well as to deliver on	a result of
	core components of the 2004 National Flood	implementation of the
	Policy, in the Eastern district.	Plans.
Variation No	This Variation rezones lands east of the Tallaght	No in-combination
3 to South	LAP to Regeneration. This Variation has been	impacts are predicted as
Dublin	subject to SEA and Appropriate Assessment	a result of
County		implementation of the
Development		Plans.
Plan 2016-		
2022		
South Dublin	Plan under review from 2016.	Positive interactions
Heritage		with SEOs in relation to
Plan 2010-		this plan; no adverse
2015		cumulative effects
		identified.
Projects	1	<u>I</u>

Sept 2019

Date:

Document Issue: Final

Client: South Dublin County Council Date: Sept 2019
Project Title: Tallaght Town Centre LAP Document Title: NIR Sept 2019

Plan	Comment	Cumulative effects
Greater	Irish Water made a planning application for	Chapter 23 of the EIAR
Dublin	strategic infrastructure development to An Bord	was reviewed with a
Drainage	Pleanála for the Greater Dublin Drainage Project	focus on the cumulative
	in June 2018. The GDD project proposes a new	impacts,
	regional wastewater treatment facility to be	No in-combination
	located in the townland of Clonshaugh in north	impacts are predicted as
	county Dublin, an underground orbital sewer	a result of
	from Blanchardstown to Clonshaugh, a new	implementation of the
	pumping station at Abbotsown, a partial	Project
	diversion of the north fringe sewer, and an outfall	
	pipeline to return the treated water to the Irish	
	Sea. The project also includes a regional sludge	
	treatment centre at the new GDD facility and an	
	associated biosolids storage facility at Newtown	
	near Kilshane Cross.	
The Greater	The Transport Strategy for the Greater Dublin	Positive effects in
Dublin	Area, 2016-2035 has been prepared and	relation to the
Transport	published by the National Transport Authority. It	prioritisation of public
Strategy	sets out how transport will be developed across	transport modes above
2016-2035	the region, covering Dublin, Meath, Wicklow	private transport.
	and Kildare, over the period of the strategy and	
	has been approved by the Minister for Transport,	
	Tourism and Sport in accordance with the	
	relevant legislation.	
	Luas, heavy rail and orbital bus routes are of	
	particular relevance to the elements of this	
	Strategy and the Variation.	

South Dublin County Council Tallaght Town Centre LAP NIR

Client: Project Title: Document Title: Sept 2019 Date: Document Issue: Final

Plan	Comment	Cumulative effects
Ballymount	New link road though Robinhood from	Identified in the South
Road	Ballymount Avenue to Longmile Road.	Dublin CDP 2016-2022
Extension	To provide improved access to the Ballymount	Table 6.5 this is subject
	and Robinhood employment area	to funding over a six
		year programme. No
		details are available yet.
Greenhill	Upgrade of Greenhills Road from Airton Road to	Identified in the South
Road upgrade	Walkinstown Roundabout with new links to	Dublin CDP 2016-2022
and links	Ballymount Avenue, Limekiln Road and	Table 6.5 this is subject
	Calmount Road.	to funding over a six
	To provide improved access to/between	year programme. No
	employment lands within Tallaght, Ballymount	details are available yet.
	and Robinhood and to provide improved access	
	to and from the Greenpark, Limekiln and	
	Greenhills area.	
Ballymount	Various streets within the Ballymount	Identified as a Medium
Industrial	employment area.	to long term objective in
Estates Street	Formation of a strategic street network within the	Table 6.6 of the South
Network	Ballymount and Robinhood employment areas.	Dublin CDP 2016-2022.
		No additional details
		currently available.
Oak Road	New road linking Oak Road to Robinhood Road.	Identified as a Medium
Extension	To provide improved access between the	to long term objective in
	Ballymount, Robinhood and Fox and Geese	Table 6.6 of the South
	employment areas.	Dublin CDP 2016-2022.
		No additional details
		currently available.

Sept 2019 Date: Document Issue: Final

ASSESSMENT OF EFFECTS TO CONSERVATION OBJECTIVES 5.7

As noted in Section 5 above Site Specific Conservation Objectives have been publised for the three European Sites occurring at Dublin Bay and also for the Wicklow Mountains SAC. Site Specific Conservation Objectives published for the qualifying features of interest of the Glenasmole Valley SAC and the Wicklow Mountains SPA have been sourced from other European Sites.

The qualifying habitats that are at risk of negative effects as a result of the implementation of the Draft Plan are summarised in Table 5.1 above and assessed in full in Appendix 1. The Site Specific Conservation Objectives for these habitats lists attributes such as the extent and distribution of the habitat, the typical species supported by the habitat, the composition of species communities and the presence of any negative indicators. The land use elements of the Draft Plan will have the potential, in the abensce of mitigation measures, to undermine the targets for these attributes. For instance increased recreational pressure within the Wicklow Mountains SAC will have the potential to result in the spread of non-native invasive species or undesirable, negative indicator species within habitas of this SAC. Such an effect will have the potential to undermine the targets for achieving the favourable status of attributes.

Table 5.1 also identifies the potential negative impacts that the Draft Plan could result in to otters, merlin and peregrine falcon. Site Specific Conservation Objective attributes for otters include the availability of an adequate prey resources, the number of holts and couching sites and the extent of freshwater habitats. Site Specific Conservation Objectives attributes for merlin and peregrine include the number of nest sites and adequate nest habitat. Elements of the Draft Plan that could result in an increase in recreational pressure within the Dublin Mountains, which could in turn result in disturbance to and possible abandonment of holt and couch sites and nest sites for merlin and peregrine, thereby undermining the target for these attribute which is no decline in the number of holts/nest sites.

47

Client: South Dublin County Council Sept 2019 Date: Project Title: Document Issue: Final

6.0 MITIGATION MEASURES

Mitigation measures relating to the potential for surface water and groundwater effects, the spread of non-native invasive species and recreational pressures in the Dublin Mountains are outlined in the following sections. It will be a requirement of any future projects within the Draft Plan lands that, where necessary, all relevant mitigation measures outlined in the following sub-sections are implemented.

In addition, other over-arching policies and objectives of the South Dublin CDP which, through their implementation will have the effect of safeguarding the European Sites downstream at Dublin Bay and in the Dublin Mountains are also outlined below in Table 7.1. The full implementation of these measures will ensure that only those projects proposed in the Plan area that do not have the potential to result in likely significant effects to European Sites as a consequence of impacts to surface water, groundwater, the spread of non-native invasive species, or recreational pressures in the Dublin Mountains, will be considered for approval.

Table 6.1: Over-arching Policies and Objectives of the South Dublin CDP that Safeguard European Sites

Policy/Objective	Details	
Heritage,	It is the policy of the Council to support the conservation and	
conservation	improvement of Natura 2000 Sites and to protect the Natura 2000 network	
and landscapes	from any plans and projects that are likely to have a significant effect on	
(HCL) policy 12	the coherence or integrity of a Natura 2000 Site	
natura 2000		
sites		
Heritage,	Natural Heritage Areas It is the policy of the Council to protect the	
conservation	ecological, visual, recreational, environmental and amenity value of the	
and landscapes	County's proposed Natural Heritage Areas and associated habitats.	
(HCL) policy 13		
Heritage,	Non-Designated Areas It is the policy of the Council to protect and	
conservation	promote the conservation of biodiversity outside of designated areas and	
and landscapes	to ensure that species and habitats that are protected under the Wildlife	
(HCL) policy 15		

48

HCL15 objective 1	Acts 1976 and 2000, the Birds Directive 1979 and the Habitats Directive 1992 are adequately protected To ensure that development does not have a significant adverse impact on rare and threatened species, including those protected under the Wildlife
objective 1	Acts 1976 and 2000, the Birds Directive 1979 and the Habitats Directive 1992.
HCL15	To ensure that, where evidence of species that are protected under the
objective 2:	Wildlife Acts 1976 and 2000, the Birds Directive 1979 and the Habitats
	Directive 1992 exists, appropriate avoidance and mitigation measures are
	incorporated into development proposals as part of any ecological impact
	assessment.
HCL15	To protect existing trees, hedgerows, and woodlands which are of amenity
objective 3	or biodiversity value and/ or contribute to landscape character and ensure
	that proper provision is made for their protection and management in
	accordance with Living with Trees: South Dublin County Council's Tree
	Management Policy 2015-2020.

6.1 MITIGATION MEASURES RELATING TO HABITAT DEGRADATION: SURFACE WATER & GROUNDWATER QUALITY

The following Policies and Objectives of the South Dublin CDP outlined in Table 7.2 will be implemented to ensure that any future projects facilitated by the Draft Plan do not result in negative effects to surface water and groundwater quality.

Table 6.2: Policies and Objectives of the South Dublin CDP that Safeguard Surface Water and Groundwaters

Policy/Objective	Details
Infrastructure &	It is the policy of the Council to work in conjunction with Irish Water
environmental	to protect existing water and drainage infrastructure and to promote
quality (IE) policy 1	investment in the water and drainage network to support
water &	environmental protection and facilitate the sustainable growth of the
Wastewater	County.

49

Date:

Document Issue: Final

Sept 2019

To work in conjunction with Irish Water to protect, manage and optimise water supply and foul drainage networks in the County. IE1 objective 2: To work in conjunction with Irish Water to facilitate the timely delivery of ongoing upgrades and the expansion of water supply and wastewater services to meet the future needs of the County and the Region IE2 policy It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To limit surface water run-off from new developments through the use of Sustainable Urban Drainage Systems (SUDS) and avoid the		
To work in conjunction with Irish Water to facilitate the timely delivery of ongoing upgrades and the expansion of water supply and wastewater services to meet the future needs of the County and the Region IE2 policy It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive IE2 objective 1 To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the	IE1 objective 1	To work in conjunction with Irish Water to protect, manage and
delivery of ongoing upgrades and the expansion of water supply and wastewater services to meet the future needs of the County and the Region IE2 policy It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive IE2 objective 1 To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		optimise water supply and foul drainage networks in the County.
Wastewater services to meet the future needs of the County and the Region IE2 policy It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the	IE1 objective 2:	To work in conjunction with Irish Water to facilitate the timely
It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive IE2 objective 1 To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		delivery of ongoing upgrades and the expansion of water supply and
It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive IE2 objective 1 To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		wastewater services to meet the future needs of the County and the
and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive IE2 objective 1 To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the		Region
requirements of the EU Water Framework Directive To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the	IE2 policy	It is the policy of the Council to manage surface water and to protect
To maintain, improve and enhance the environmental and ecological quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the		and enhance ground and surface water quality to meet the
quality of our surface waters and groundwater by implementing the programme of measures set out in the Eastern River Basin District River Basin Management Plan IE2 objective 2 To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		requirements of the EU Water Framework Directive
programme of measures set out in the Eastern River Basin District River Basin Management Plan To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the	IE2 objective 1	To maintain, improve and enhance the environmental and ecological
River Basin Management Plan To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the		quality of our surface waters and groundwater by implementing the
To protect the regionally and locally important aquifers within the County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities To limit surface water run-off from new developments through the		programme of measures set out in the Eastern River Basin District
County from risk of pollution and ensure the satisfactory implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		River Basin Management Plan
implementation of the South Dublin Groundwater Protection Scheme 2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the	IE2 objective 2	To protect the regionally and locally important aquifers within the
2011, and groundwater source protection zones, where data has been made available by the Geological Survey of Ireland IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		County from risk of pollution and ensure the satisfactory
made available by the Geological Survey of Ireland To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		implementation of the South Dublin Groundwater Protection Scheme
IE2 objective 3 To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		2011, and groundwater source protection zones, where data has been
the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		made available by the Geological Survey of Ireland
Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the	IE2 objective 3	To maintain and enhance existing surface water drainage systems in
wetlands, at a local, district and County level, to control surface water outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		the County and promote and facilitate the development of Sustainable
outfall and protect water quality. IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		Urban Drainage Systems (SUDS), including integrated constructed
IE2 objective 4 To incorporate Sustainable Drainage at a site and/or district scale, including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		wetlands, at a local, district and County level, to control surface water
including the potential for wetland facilities IE2 objective 5 To limit surface water run-off from new developments through the		outfall and protect water quality.
IE2 objective 5 To limit surface water run-off from new developments through the	IE2 objective 4	To incorporate Sustainable Drainage at a site and/or district scale,
		including the potential for wetland facilities
use of Sustainable Urban Drainage Systems (SUDS) and avoid the	IE2 objective 5	To limit surface water run-off from new developments through the
		use of Sustainable Urban Drainage Systems (SUDS) and avoid the
use of underground attenuation and storage tanks		use of underground attenuation and storage tanks
IE2 objective 6 To promote and support the retrofitting of Sustainable Urban	IE2 objective 6	To promote and support the retrofitting of Sustainable Urban
Drainage Systems (SUDS) in established urban areas, including		Drainage Systems (SUDS) in established urban areas, including
integrated constructed wetlands		integrated constructed wetlands

Sept 2019

Date:

Document Issue: Final

Sept 2019 Date: Document Issue: Final

	_
IE2 objective 8	To protect salmonid water courses, such as the Liffey and Dodder
	Rivers catchments (including Bohernabreena Reservoir), which are
	recognised to be exceptional in supporting salmonid fish species.
IE2 objective 9:	To protect water bodies and watercourses, including rivers, streams,
	associated undeveloped riparian strips, wetlands and natural
	floodplains, within the County from inappropriate development. This
	will include protection buffers in riverine and wetland areas as
	appropriate. (see also Objective G3 Objective 2 – Biodiversity
	Protection Zone)
IE2 Objective 10:	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, in particular for
	brownfield development.
IE2 objective 11	To protect surface water quality by assessing the impact of domestic
	and industrial misconnections to the drainage network in the County
	and the associated impact on surface water quality, and by
	implementing measures to address same.

Developments on brownfield sites within neighbourhood zones will have the potential to result in negative effects to surface water and groundwater quality where there are links between the project site and surface waterbodies or groundwater bodies and where potential contaminants are identified as being present at the development site. Any future developments on brownfield sites that are connected to surface water and/or groundwater bodies and where potential contaminants are present will be required to undertake an assessment to determine the effect of the development on surface water and groundwater quality. Such an assessment will be required to identify the materials and activities associated with the development that could result in pollution to surface waters, the pathways that could convey surface water from the development site to European Sites and the qualifying features of interest of European Sites that could be at risk of experiencing adverse effects in the event of the release of polluted surface water from the development site.

During the construction phase of developments facilitated by the Draft Plan, where applicable all relevant best practice guidelines shall be adhered to. Examples of these guidelines include: Guidelines on Protection of Fisheries during Construction Works in and Adjacent to Waters (Inland Fisheries Ireland, 2016); sep

Sept 2019

- Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes (National Roads Authority, 2008);
- CIRIAC648: Control of water pollution from linear construction projects: Technical Guidance SEP
- CIRIAC649: Control of water pollution from linear construction projects: Site guide sep

A Pollution Prevention Plan (PPP) and Construction and Environmental Plan (CEMP) will be required to accompany future developments in zones that have been identified as presenting a risk of likely significant effects to European Sites.

Measures will be required to be included in the design of a proposed development that will safeguard water quality from operation phase surface water emissions and wastewater emissions. These design elements will include the inclusion of adequate wastewater treatment facilities/connection to wastewater treatment plants, the implementation of surface water management measures such as swales, interceptors, hydrobrakes and attenuation tanks etc.

With regard to wastewater discharges it is noted that developments within the Plan area will ultimately be serviced by the municipal wastewater treatment plant at Ringsend. Irish Water confirms that there is generally sufficient capacity in the public water services networks in the vicinity of the draft plan lands to connect developer-provided water service infrastructure to their networks (subject to the signing of individual connection agreements with Irish Water). The projected population of the Draft Plan lands have been taken into account in Irish Water's long-term planning for water services capacity in the Greater Dublin Area. A number of major infrastructure projects are being progressed to provide long term capacity to service projected demand into the future through Irish Water's multi annual Investment Programmes.

The proposed scheme is expected to result in an increase in foul loadings being discharged from site of c. 20,000 P.E. Foul water comprising sewage and industrial effluent (and some

52

surface water run-off) from the Dublin area has historically, and will continue to be treated at Ringsend WWTW prior to discharge to Dublin Bay. Ringsend WWTW has historically operated at or above capacity, with a total load of 2.19 million P.E. on average, with significant fluctuations from day to day. Loading has increased in recent years with the rise in population recorded in the Dublin local authorities between 2011 and 2016 of approximately 4-6%¹. The latest information from Irish Water indicates that the plant is currently operating above its capacity of 1.64 million P.E. (Irish Water, 2017), with a current operational loading of 2.19 million P.E.

Sept 2019

Date:

Document Issue: Final

In 2017 the plant was non-compliant with several parameters as set under the EPA discharge license. Any existing or proposed projects discharging to the plant have the potential to act cumulatively to reduce water quality in Dublin Bay, affecting European Sites therein. Despite Ringsend WWTP historically operating at or above capacity, no significant effects from discharge arising from future developments facilitated by the Draft Plan are predicted due to the following:

Irish Water has submitted a planning application for strategic infrastructure development to An Bord Pleanála for a number of upgrade works to Ringsend WWTP. These works are proposed to ensure the plant operates with the highest possible environmental standards into the future. The application seeks permission for works required to facilitate the use of Aerobic Granular Sludge (AGS) technology, to omit the previously permitted long sea outfall tunnel and to upgrade the sludge treatment facilities at Ringsend and to provide for a Regional Biosolids Storage Facility in Newtown, Dublin 11². Aerobic Granular Sludge (AGS) technology allows for faster breakdown of pollutants in water. The upgrade works are planned to proceed in stages to deliver a compliant effluent, at projected increased loads, with the full capacity of 2.4 m population equivalent completed by 2023. There are also plans to construct a new WWTW to the north of Dublin City which will permit flows to be diverted from the Ringsend catchment, thus ensuring that the capacity of Ringsend will be adequate to cater for growth in that catchment well into the future.

 $^{^{1}}$ According to 2016 Census figures available from the Central Statistics Office www.cso.ie (Accessed 25/06/2018)

https://www.water.ie/projects-plans/ringsend/

6.2 MITIGATION MEASURES RELATING TO HABITAT DEGRADATION: INVASIVE SPECIES

Sept 2019

Date:

Document Issue: Final

The following Policies and Objectives of the South Dublin CDP outlined in Table 7.3 will be implemented to ensure that any future projects facilitated by the proposed Variation do not result in the spread of non-native invasive species.

Table 6.3: Policies and Objectives of the South Dublin CDP that aim to prevent the spread of non-native invasive species

Policies/Objectivies	Details
G2 objective 12	To seek to control and manage non-native invasive species and
	to develop strategies with relevant stakeholders to assist in the
	control of these species throughout the County

It keeping with the above Objective, it will be a requirement of any future development application that a survey for the presence or otherwise of invasive species within the development site and areas affected by the development is completed. If invasive species are identified during such surveys, their species will be identified and their location will be mapped. An Invasive species management plan will be required to detail the measures required to ensure that the proposed development does not result in the spread of the invasive species and to ensure that the species is eradicated from the development footprint.

6.3 MITIGATION MEASURES RELATING TO THE STRENGTHENING OF LINKS WITH THE DUBLIN MOUNTAINS AND POTENTIAL INCREASE IN RECREATIONAL PRESSURE

The Draft Plan will aim to strengthen links between the plan area and areas of the Dublin Mountains that are not sensitive to increases in recreational pressures.

The strengthening of links between the plan area and the Dublin Mountains will be underpinned by the following policies and objectives of the South Dublin County Development Plan:

Project Title:

It is the policy of the Council to support and facilitate the development of an integrated network of Greenways and Trails (combined o road cycle and walking routes) along suitable corridors, including natural linear open spaces such as river banks and canals, with local connections, septo villages and attractions and to take account of the environmental sensitivities along these corridors.

Sept 2019

Date:

Document Issue: Final

ET5 Objective 1:

To support the development of tourism infrastructure, attractions, activities and facilities at appropriate locations subject to sensitive design and environmental safeguards.

ET7 Objective 1:

To promote the active use of managed forests for tourism and leisure related activities subject to an appropriate scale of development having regard to the pertaining environmental conditions and sensitivities, scenic amenity and availability of services.

ET7 Objective 3:

To support the development of angling and canoeing/kayaking infrastructure and facilities for tourism in proximity to appropriate water courses or water bodies, subject to an appropriate scale of development having regard to the pertaining environmental conditions and sensitivities, scenic amenity and availability of services.

Words of these policies and objectives of the CDP have been highlighted in bold for emphasis. The strengthening of any links between the plan area and the Dublin Mountains will be underpinned by a sensitive design and environmental safeguards that will be required to be implemented for any land use measures that are facilitated by the Draft Plan's aim to strengthen links. Appendix 2 to this NIR (and presented in Table 6.4 below) provides environmental safeguards that will be required to be implemented during and land use projects that are facilitated by this aim of the Draft Plan.

MITIGATION MEASURES FROM THE SEA 6.4

The following table presents mitigation measures recommended for the Tallaght Town Centre LAP through rewording or additional text. Where new text is proposed it is presented in bold, green font.

South Dublin County Council Tallaght Town Centre LAP Client: Project Title: Document Title:

Date: Sept 2019 Document Issue: Final

Table 6.4: Reworded Text

Reference and Text	Includ
	ed i
	LAP
	Yes/N
	0
1.3.3 Cookstown	
Cookstown, final objective: Utilising location as source of River Poddle,	
incorporating it into public realm and open space and green/blue infrastructure strategies.	
8.2.6 Green Infrastructure Strategy	Yes
Any future developments within Regeneration zones that have been identified as	
having the potential to result in a deterioration to surface or groundwater quality will	
be required to undertake an assessment to determine the effect of the development	
on surface water and groundwater quality. Such an assessment will be required to	
identify the materials and activities associated with the development that could	
result in pollution to surface waters, the pathways that could convey surface water	
from the development site to European Sites and the qualifying features of interest	
of European Sites that could be at risk of experiencing adverse effects in the event of	
the release of polluted surface water from the development site.	
During the construction phase of developments facilitated by the draft plan, where	
applicable all relevant best practice guidelines shall be adhered to. Examples of these	
guidelines include:	
• Guidelines on Protection of Fisheries during Construction Works in and Adjacent to	
Waters (Inland Fisheries Ireland, 2016);	
• Guidelines for the Crossing of Watercourses during the Construction of National	
Road Schemes (National Roads Authority, 2008);	
• CIRIAC648: Control of water pollution from linear construction projects: Technical	
Guidance	
• CIRIAC649: Control of water pollution from linear construction projects: Site guide	
A Pollution Prevention Plan (PPP) and Construction and Environmental Plan (CEMP)	
will be required to accompany future Regeneration developments in zones that have	
been identified as presenting a risk of likely significant effects to European Sites.	
Measures will be required to be included in the design of a proposed development	
that will safeguard water quality from operation phase surface water emissions and	

Client: South Dublin County Council Date: Sept 2019
Project Title: Tallaght Town Centre LAP Document Issue: Final

wastewater emissions. These design elements will include the inclusion of adequate wastewater treatment facilities/connection to wastewater treatment plants, the implementation of surface water management measures such as swales, interceptors, hydrobrakes and attenuation tanks etc.	
	Yes

6.5 MITIGATION MEASURES FROM NATURA IMPACT REPORT

This Natura Impact Report identified the following mitigation measures with regard to the Dublin Mountains. Note, these will be included in the Final LAP.

Where projects that are facilitated by the plan's aim to strengthen links between the Plan area and the Dublin Mountains are proposed within the Dublin Mountains area the following assessments may be required:

Habitat Surveys and Assessment: Identification of habitat at and surrounding the project site and the establishment of the presence of any qualifying habitats of the Wicklow Mountains European Sites or the Glenasmole Valley SAC;

Watercourse Surveys and Assessment: Identification of any links between the project site and watercourses and appropriate surveys to establish the presence of otters and their holts or couches. Bird Surveys: Where project site are located in suitable nesting habitat for merlin or peregrine bird surveys will be required to establish the presence of these species at or in the vicinity of the project site.

The results of surveys and assessment will inform the suitability of projects that aim to strengthen the links between the plan area and Dublin Mountains. Where the findings of surveys and assessment conclude that projects have the potential to result in loss of or significant disturbance to qualifying habitats and/or significant disturbance to qualifying species and their breeding sites, they will not be supported by the Draft Plan.

7.0 EVALUATION OF MITIGATION MEASURES

This section highlights the types of potential likely significant effects that arose during this part of the assessment and how likely significant effects were mitigated to ensure no potential adverse effects on the integrity of European sites would occur.

Impacts on Water quality

Date:

Sept 2019 Document Issue: Final

Potential Likely Significant Effect: Potential for impacts on water quality as a result of inadequate wastewater treatment and surface water management and treatment and discharge with downstream impacts to a receiving watercourse.

How Mitigation Will Ensure Likely Significant Effects Are Avoided: Ensure any future development application is connected to a WWTP with adequate capacity for foul water during operation, or that it is serviced by an on-site treatment system that will ensure no impact to water quality in the area. Require future developments to include surface water management design measures that will aim to ensure only clean surface water is discharged from the proposed development during the construction phase and operation phase.

Impacts on groundwater

Potential Likely Significant Effect: Potential for impacts on the hydrology of groundwaterdependent Qualifying Interests of European sites.

How Mitigation Will Ensure Likely Significant Effects Are Avoided: Ensure any future development application is connected to a WWTP with adequate capacity for foul water during operation, or that it is serviced by an on-site treatment system that will ensure no impact to groundwater quality in the area. Require future developments to include surface water management design measures that will aim to ensure only clean water is discharged from the proposed development during the construction phase and operation phase.

Impacts caused by Invasive Species

Potential Likely Significant Effect: Potential for introduction or spread of aquatic/terrestrial invasive species to European sites.

How Mitigation Will Ensure Likely Significant Effects Are Avoided: An invasive species survey will be required at development sites and where such species are identified a management plan that will outline measures to eradicate the species and avoid its spread will be required.

Impacts on Habitats and Species as a Result of Recreational Pressure

Client: South Dublin County Council Project Title: Tallaght Town Centre LAP

Oocument Title: NIF

Date: Sept 2019
Document Issue: Final

Potential Likely Significant Effect: Potential for impacts on habitats and species as result of increases in recreational pressure could lead to degradation of qualifying habitats within the Wicklow Mountains European Sites and disturbance to otters, merlin and peregrine.

How Mitigation Will Ensure Likely Significant Effects Are Avoided: The policies and objectives of the CDP that aim to provide tourism and recreation related facilities in the Dublin Mountains in a sensitive manner in full consideration of environmental constraints will ensure that links are strengthened with areas of the Dublin Mountains that can absorb any increases in recreational activity. The implementation of the environmental safeguards as outlined in Appendix 2 to this NIR will further ensure that any land use activities facilitated by the Draft Plan's aim to strengthen links with the Dublin Mountains will be fully assessed for their suitability in advance of their implementation and consideration will be given only where it can be demonstrated that they will not result in significant effects to the qualifying habitats and species of the Wicklow Mountains European Sites.

South Dublin County Council Sept 2019 Client: Date: Project Title: Document Issue: Final

8.0 RESPONSIBILITY FOR IMPLEMENTING MITIGATION MEASURES

The responsibility for implementing the Draft Plan lies solely with the Planning Authority through the planning consent process. Applicants who intend to develop within the CDP area are obliged to ensure that their application is consistent with the Objectives and requirements within the Tallaght Town Centre LAP and County Development Plan. The statutory requirement for the Planning Authority to carry out screening for appropriate assessment for all planning applications is not affected by any of the statements in this NIR. All applications must be tested for the potential for likely significant effects. However, such effects are not likely to occur if the Objectives in the CDP and the requirements are adhered to as outlined in Technical Guidance, where appropriate.

Applicants must provide information to allow the Planning Authority to screen the application and decide if an Natura Impact Statement is required.

9.0 MONITORING OF MITIGATION MEASURES

Whilst there is no legal requirement to monitor the outputs of the AA process, there is an obligation to monitor the implementation of the CDP through the E.C. SEA Directive as implemented in Ireland. Contingency measures may have to be applied if there is evidence that Objectives cannot be implemented successfully. The European Communities (Environmental Liability) Regulations 2008 will also apply in the event of any environmental damage to habitats and species both within and outside of the European sites.

60

Sept 2019 Date: Document Issue: Final

10.0 CONCLUSION

This NIR has reviewed the impacts arising from the draft Plan and found that, without the implementation of mitigation measures, the Draft Plan will have the potential to impact upon the Conservation Objectives of 6 European Sites and their relevant qualifying features that occur within the zone of influence of the Plan area.

The potential impacts that could negatively affect these European Sites have been outlined in Section 6 this NIR. Section 7 outlines the environmental safeguards within the Draft Plan that aim to ensure these potential impacts are avoided.

The requirements outlined in Section 7 and evaluated in Section 8 of this NIR will protect these Sites from potential adverse impacts during the lifetime of the Plan.

The measures and the requirements the South Dublin CDP Policy HCL 12 to protect European Sites from all plans or projects with potential to result in likely significant effects to them will ensure adverse impacts to the integrity of the 6 European Sites occurring within the zone of influence of the Draft Plan will be prevented from occurring. The additional safeguards within the CDP and outlined in Section 7 of this NIR for the protection of water quality and the protection against the spread of non-native invasive species will provide a basis for ensuring any future developments that are facilitated by the Draft Plan will not be supported where they present a risk to water quality and the spread of non-native invasive species.

REFERENCES

Department of the Environment Heritage and Local Government (DEHLG) (2010). Appropriate Assessment of Plans and Projects. Guidance for Local Authorities.

Dowly, A. & Bedri, Z. (2007) Modelling of Ringsend Discharge. Report commissioned by EPA in association with IPPC licencing for Ringsend WwTW. [Available online at: http://www.epa.ie/licences/lic eDMS/090151b280269ef8.pdf)

English Nature (1999). Habitats regulations guidance note no. 3 (HRGN No. 3). Determination of Likely Significant Effect under The Conservation (Natural Habitats &c) Regulations 1994.

Sept 2019 Date: Document Issue: Final

European Commission (2000). Managing Natura 2000 sites. The provisions of Article 6 of the Habitats Directive 92/43/EEC. Luxembourg.

European Communities (2001). 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. Luxembourg.

European Commission (1992). EU Habitats Directive.

Irish Water (2017). Annual Environmental Report 2017 for Ringsend Agglomeration.

NPWS (2017) Conservation Objectives: Wicklow Mountains SAC 002122. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs.

O'Higgins T.G. and Wilson J.G. (2005). Impact of the River Liffey discharge on nutrient and chlorophyll concentrations in the Liffey Estuary and Dublin Bay (Irish Sea). Estuarine and Coastal, Shelf Science, 64, 323-334.

Wilson, J.G. and Jackson, A. (2011). Upgrading of Dublin Sewage Treatment Plant: N sources for the macroalga Ectocarpus. Unpublished report to Dublin City Council. Trinity College Dublin.

62

Client: South Dublin
Project Title: Tallaght Town
Document Title: NIR

South Dublin County Council Tallaght Town Centre LAP NIR

Date: Sept 2019 Document Issue: Final

e LAP Document Issue: .

APPENDIX 1: ASSESSMENT OF POTENTIAL ECOLOGICAL

Table 0.1: Potential for Land Use Elements of the Draft Plan to result in Ecological Effects to the Qualifying Features of European Sites

	Fragmentation)				Distant Dance, Dispracement
		Surface Water	Groundwater	Air	Non-native invasive species	
North Dublin Bay SAC						
Mudflats and No.	0.	Yes.	Yes.	No.	Yes.	No.
sandflats not covered Ra	Rationale: The	Rationale: The River	Rationale: The	Rationale: The	Rationale: There is	Rationale: The Plan area is
by seawater at low Va	Variations Lands are	Poddle and	potential for effects	Plan area is	potential for non-	sufficiently buffered from this
tide [1140] loc	located at a remote	Whitestown Stream	to groundwater that	sufficiently	native invasive	habitat to ensure that physical
dis	distance from this	and the River Liffey	drain to the River	buffered from this	species to occur at	disturbance to it will not arise
nb	qualifying habitats and	form a hydrological	Poddle and	habitat to ensure	development site	during developments within
Wİ	will not have the	pathway between the	Whitestown Stream	that projects do not	within the Plan area	the plan lands.
od	potential to result in the	Plan area and this	cannot be ruled out	have the potential	and such species	
10s	loss or fragmentation of	qualifying habitats at	at this stage.	to result in	could be conveyed	
los l	some or all of this	Dublin Bay.		degradation to this	downstream via the	
ha	habitat.			habitat as a result	River Poddle and	
				of emissions to	Whitestown Stream	
				atmosphere.	and the Liffey	
					estuary to this	
					habitat. In addtition	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	Fragmentation	S			M 4.	
		Surface Water	Groundwater	Air	Non-native invasive species	
					earnade avienam	
					while it is	
					acknowledged that	
					this is a coastal	
					habitat and that the	
					Plan area is not	
					likely to support	
					species that can	
					tolerate coastal	
					habitats, a	
					precautionary	
					approach is taken	
					for this assessment	
					and the potential for	
					such spread to this	
					habitat is not ruled	
					out.	
Annual vegetation of	No.	No.	No.	No.	No	No.
drift lines [1210]		Rationale: This habitat			Rationale: there is	
		is not influenced by			no pathway that	
		surface waters and			could link the Plan	
		lotic processes.			area to this habitat	
					to result in the	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
)	Surface Water	Groundwater	Air	Non-native	
					invasive species	
					spread of non-	
					native invasive	
					species.	
Salicornia and other	No.	Yes.	Yes.	No.	Yes.	No.
annuals colonising	Rationale: See rationale	Rationale: The River	Rationale: See	Rationale: See	Rationale: See	
mud and sand [1310]	outlined for Mudflats	Poddle and	rationale outlined for	rationale outlined	rationale outlined	
	and Sandflats above.	Whitestown Stream	Mudflats and	for Mudflats and	for Mudflats and	
		and the River Liffey	Sandflats above.	Sandflats above.	Sandflats above.	
		form a hydrological				
		pathway between the				
		Plan area and this				
		qualifying habitats at				
		Dublin Bay.				
Atlantic salt	No	Yes.		No		No
meadows (Glauco-	Rationale: See rationale	Rationale: the		Rationale: See		Rationale: See rationale
Puccinellietalia	outlined for Mudflats	examples of this		rationale outlined		outlined for Mudflats and
maritimae) [1330]	and Sandflats above.	habitat occurring		for Mudflats and		Sandflats above.
		within this SAC are		Sandflats above.		
		located between the				
Mediterranean salt	No.	No.	No.	No.	No.	No.
meadows (Juncetalia		Rationale: Examples	Rationale: Examples		Rationale:	
maritimi) [1410]		of this habitat are	of this habitat are		Examples of this	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	Fragmentation			-		
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
		restricted to the	restricted to the		habitat are	
		northwestern end of	northwestern end of		restricted to the	
		Bull Island and are	Bull Island and are		northwestern end of	
		considered to lie	considered to lie		Bull Island and are	
		outside the influence	outside the influence		considered to lie	
		of the hydrological	of the hydrological		outside the	
		pathway established	pathway established		influence of the	
		by the Cammock	by the Cammock		hydrological	
		River and the River	River and the River		pathway established	
		Liffey.	Liffey.		by the Cammock	
					River and the River	
					Liffey.	
Embryonic shifting	No	No.	No.	No	No.	No
dunes [2110]	Rationale: See rationale	Rationale: This habitat	Rationale: This	Rationale: See	Rationale: there is	Rationale: See rationale
	outlined for Mudflats	is not influenced by	habitat is not	rationale outlined	no pathway that	outlined for Mudflats and
	and Sandflats above.	surface waters and	influenced by	for Mudflats and	could link the Plan	Sandflats above.
		lotic processes.	surface waters and	Sandflats above.	area to this habitat	
			lotic processes.		to result in the	
					spread of non-	
					native invasive	
					species.	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	D	Surface Water	Groundwater	Air	Non-native	
					invasive species	
Shifting dunes along	No.	No.	No.	No.	Rationale: there is	No.
the shoreline with		Rationale: This habitat			no pathway that	
Ammophila arenaria		is not influenced by			could link the Plan	
(white dunes) [2120]		surface waters and			area to this habitat	
		lotic processes.			to result in the	
					spread of non-	
					native invasive	
					species.	
Fixed coastal dunes	No	No.	No	No Rationale: See	No	No
with herbaceous	Rationale: See rationale	Rationale: This habitat	Rationale: This	rationale outlined	Rationale: there is	Rationale: See rationale
vegetation (grey	outlined for Mudflats	is not influenced by	habitat is not	for Mudflats and	no pathway that	outlined for Mudflats and
dunes) [2130]	and Sandflats above.	surface waters and	influenced by	Sandflats above.	could link the Plan	Sandflats above.
		lotic processes.	surface waters and		area to this habitat	
			lotic processes.		to result in the	
					spread of non-	
					native invasive	
					species.	
Humid dune slacks	No.	No.	No.	No.	No	No.
[2190]		Rationale: This habitat	Rationale: This		Rationale: there is	
		is not influenced by	habitat is not		no pathway that	
		surface waters and	influenced by		could link the Plan	
		lotic processes.			area to this habitat	

Date: Sept 2019 Document Issue: Final

Petalophyllum ralfsii No (Petalwort) [1395] Rationale: See rationale Rationale: This Rationale: Tolka Estuary SPA Light-bellied Brent No. South Dublin Bay & Tolka Estuary SPA Light-bellied Brent No. Goose (Branta Portion) Variations Lands are Doddle and Doctored by Surface Water Rationale: The Processes Indicented by Surface water South Dublin Bay & Tolka Estuary SPA Light-bellied Brent No. South Dublin Bay & Yes. Goose (Branta Portion) Variations Lands are Poddle and potential for Doctored at a remote Whitestown Stream to groundward	Ecological Effect Hal	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
No Rationale: See rationale Rationale: This species is not and Sandflats above. influenced by surface waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream		igmentation					
No Rationale: See rationale and Sandflats above. influenced by surface waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream			Surface Water	Groundwater	Air	Non-native	
No Rationale: See rationale and Sandflats above. and Sandflats above. processes. No. Rationale: The Rationale: The River Variations Lands are No Whitestown Stream						invasive species	
No Rationale: See rationale Rationale: This species is not influenced by surface waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream				surface waters and		to result in the	
No Rationale: See rationale Rationale: This species is not and Sandflats above. influenced by surface waters and lotic processes. No. Yes. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream				lotic processes.		spread of non-	
No Rationale: See rationale Rationale: This outlined for Mudflats species is not influenced by surface waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream						native invasive	
No. Rationale: See rationale Rationale: This outlined for Mudflats species is not influenced by surface waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream						species.	
Rationale: See rationale Rationale: This species is not and Sandflats above. Influenced by surface waters and lotic processes. No. Yes. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream			No.	No.	No Rationale: See	No	No
and Sandflats above. influenced by surface waters and lotic processes. No. Yes. Rationale: The Rationale: The Rationale: The Poddle and located at a remote Whitestown Stream		ionale: See rationale	Rationale: This	Rationale: This	rationale outlined	Rationale: there is	Rationale: See rationale
and Sandflats above. influenced by surface waters and lotic processes. No. Yes. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream	out	lined for Mudflats	species is not	habitat is not	for Mudflats and	no pathway that	outlined for Mudflats and
Waters and lotic processes. No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream	and	Sandflats above.	influenced by surface	influenced by	Sandflats above.	could link the Plan	Sandflats above.
No. Rationale: The Rationale: The Variations Lands are located at a remote Whitestown Stream			waters and lotic	surface waters and		area to this habitat	
No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream			processes.	lotic processes.		to result in the	
No. Rationale: The Rationale: The Variations Lands are located at a remote Whitestown Stream						spread of non-	
No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream						native invasive	
No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream						species.	
No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream	n Dublin Bay &						
No. Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream	Estuary SPA						
Rationale: The Rationale: The River Variations Lands are Poddle and located at a remote Whitestown Stream			Yes.	Yes.	No.	Yes.	No.
Variations Lands are Poddle and located at a remote Whitestown Stream		ionale: The	Rationale: The River	Rationale: The	Rationale: The	Rationale: There is	Rationale: The Plan area is
Whitestown Stream		riations Lands are	Poddle and	potential for effects	Plan area is	potential for non-	sufficiently buffered from this
	100.	ated at a remote	Whitestown Stream	to groundwater that	sufficiently	native invasive	habitat to ensure that physical
distance from the and the River Liffey drain to the F	dist	ance from the	and the River Liffey	drain to the River	buffered from this	species to occur at	disturbance to it will not arise
wetland habitats upon form a hydrological Poddle and	wet	land habitats upon	form a hydrological	Poddle and	habitat to ensure	development site	during developments within
which this species relies pathway between the Whitestown	wh	ich this species relies	pathway between the	Whitestown Stream	that projects do not	within the Plan area	these lands.

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	Fragmentation	Surface Water	Groundwater	Air	Non-native	
					invasive species	
	and will not have the	Plan area and the	cannot be ruled out	have the potential	and such species	
	potential to result in the	wetland habitats at	at this stage.	to result in	could be conveyed	
	loss or fragmentation of	Dublin Bay upon		degradation to this	downstream via the	
	some or all of this	which this species		habitat as a result	River Poddle and	
	habitat.	relies.		of emissions to	Whitestown Stream	
				atmosphere.	and the Liffey	
					estuary to this	
					habitat. In addtition	
					while it is	
					acknowledged that	
					this is a coastal	
					habitat and that the	
					Plan area is not	
					likely to support	
					species that can	
					tolerate coastal	
					habitats, a	
					precautionary	
					approach is taken	
					for this assessment	
					and the potential for	
					such spread to this	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	r i aginentation	, M	-		N	
		Surface Water	Groundwater	Air	Non-native	
					myasive species	
					habitat is not ruled	
					out.	
Oystercatcher	No.	Yes.	Yes.	No.	Yes.	No.
(Haematopus	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
ostralegus)	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Ringed Plover	No.	Yes.	Yes.	No.	Yes.	No.
(Charadrius	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
hiaticula)	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Grey Plover	No.	Yes.	Yes.	No.	Yes.	No.
(Pluvialis squatarola)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for rationale outlined	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Knot (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
canutus)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
						Brent Geese above.

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Sanderling (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
alba)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Dunlin (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
alpina)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Bar-tailed Godwit	No.	Yes.	Yes.	No.	Yes.	No.
(Limosa lapponica)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Redshank (Tringa	No.	Yes.	Yes.	No.	Yes.	No.
totanus)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	,	Surface Water	Groundwater	Air	Non-native	
					invasive species	
Black-headed Gull	No.	Yes.	Yes.	No.	Yes.	No.
(Croicocephalus	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
ridibundus)	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Roseate Tern (Sterna	No.	Yes.	Yes.	No.	Yes.	No.
dougallii)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Common Tern	No.	Yes.	Yes.	No.	Yes.	No.
(Sterna hirundo)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Arctic Tern (Sterna	No.	Yes.	Yes.	No.	Yes.	No.
paradisaea)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
North Bull Island SPA						

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	0	Surface Water	Groundwater	Air	Non-native	
					invasive species	
Light-bellied Brent	No.	Yes.	Yes.	No.	Yes.	No.
Goose (Branta	Rationale: The	Rationale: The River	Rationale: The	Rationale: The	Rationale: There is	Rationale: The Plan area is
bernicla hrota)	Variations Lands are	Poddle and	potential for effects	Plan area is	potential for non-	sufficiently buffered from this
	located at a remote	Whitestown Stream	to groundwater that	sufficiently	native invasive	habitat to ensure that physical
	distance from the	and the River Liffey	drain to the River	buffered from this	species to occur at	disturbance to it will not arise
	wetland habitats upon	form a hydrological	Poddle and	habitat to ensure	development site	during developments within
	which this species relies	pathway between the	Whitestown Stream	that projects do not	within the Plan area	these lands.
	and will not have the	Plan area and the	cannot be ruled out	have the potential	and such species	
	potential to result in the	wetland habitats at	at this stage.	to result in	could be conveyed	
	loss or fragmentation of	Dublin Bay upon		degradation to this	downstream via the	
	some or all of this	which this species		habitat as a result	River Poddle and	
	habitat.	relies.		of emissions to	Whitestown Stream	
				atmosphere.	and the Liffey	
					estuary to this	
					habitat. In addtition	
					while it is	
					acknowledged that	
					this is a coastal	
					habitat and that the	
					Plan area is not	
					likely to support	
					species that can	

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	D	Surface Water	Groundwater	Air	Non-native	
					invasive species	
					tolerate coastal	
					habitats, a	
					precautionary	
					approach is taken	
					for this assessment	
					and the potential for	
					such spread to this	
					habitat is not ruled	
					out.	
Shelduck (Tadorna	No.	Yes.	Yes.	No.	Yes.	No.
tadorna)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Teal (Anas crecca)	No.	Yes.	Yes.	No.	Yes.	No.
	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Pintail (Anas acuta)	No.	Yes.	Yes.	No.	Yes.	No.
	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Rationale: See rationale
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	outlined for Light-bellied
						Brent Geese above.
Shoveler (Anas	No.	Yes.	Yes.	No.	Yes.	No.
clypeata)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Oystercatcher	No.	Yes.	Yes.	No.	Yes.	No.
(Haematopus	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
ostralegus)	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Golden Plover	No.	Yes.	Yes.	No.	Yes.	No.
(Pluvialis apricaria)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Grey Plover	No.	Yes.	Yes.	No.	Yes.	No.
(Pluvialis squatarola)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
						Brent Geese above.

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	9	Surface Water	Groundwater	Air	Non-native	
					invasive species	
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Knot (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
canutus)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Sanderling (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
alba)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Dunlin (Calidris	No.	Yes.	Yes.	No.	Yes.	No.
alpina)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Black-tailed Godwit	No.	Yes.	Yes.	No.	Yes.	No.
(Limosa limosa)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
						Brent Geese above.

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	rragmentation	Surface Water	Groundwater	Air	Non-nafive	
					invasive species	
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Bar-tailed Godwit	No.	Yes.	Yes.	No.	Yes.	No.
(Limosa lapponica)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Curlew (Numenius	No.	Yes.	Yes.	No.	Yes.	No.
arquata)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Redshank (Tringa	No.	Yes.	Yes.	No.	Yes.	No.
totanus)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Turnstone (Arenaria	No.	Yes.	Yes.	No.	Yes.	No.
interpres)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
Black-headed Gull	No.	Yes.	Yes.	No.	Yes.	No.
(Larus ridibundus)	Rationale: See rationale	Rationale: See	Rationale: See	Rationale: See	Rationale: See	Rationale: See rationale
	outlined for Light-	rationale outlined for	rationale outlined for rationale outlined	rationale outlined	rationale outlined	outlined for Light-bellied
	bellied Brent Geese	Light-bellied Brent	Light-bellied Brent	for Light-bellied	for Light-bellied	Brent Geese above.
	above.	Geese above.	Geese above.	Brent Geese above.	Brent Geese above.	
Wicklow Mountains						
SAC						
Oligotrophic waters	No.	Yes. Increased	No.	No.	Yes.	No.
containing very few	Rationale: The	recreational pressure	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
minerals of sandy	strengthening of links	in areas bounding this	recreational will not	Increased	Increased	sufficiently buffered from this
plains (Littorelletalia	between the plan area	habitat could result the	have the potential to	recreational	recreational	habitat to ensure that physical
uniflorae)	and the Dublin	discharge of silt	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains will not	ladens surface water	impacts to	have the potential	the potential to	during developments within
	result in increased	runoff to this habitat	groundwater quality.	to result in	result in the spread	the plan lands.
	pressure to this habitat.	as a result of		negative impacts to	of non-native	
		trampling in peatland		air quality	species within this	
		habitats adjacent to			habitat with	
		this habitat.			potential adverse	
					consequences of	
					vegetation	
					communities that	

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	a .	Surface Water	Groundwater	Air	Non-native	
					invasive species	
					underpin the status	
					of this habitat.	
Natural dystrophic	No.	Yes. Increased	No.	No.	Yes.	No.
lakes and ponds	Rationale: The	recreational pressure	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
	strengthening of links	in areas bounding this	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	habitat could result the	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	discharge of silt	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains will not	ladens surface water	impacts to	have the potential	the potential to	during developments within
	result in increased	runoff to this habitat	groundwater quality.	to result in	result in the spread	the plan lands.
	pressure to this habitat.	as a result of		negative impacts to	of non-native	
		trampling in peatland		air quality	species within this	
		habitats adjacent to			habitat with	
		this habitat.			potential adverse	
					consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Northern Atlantic wet	Yes.	No.	No.	No.	Yes.	No.
heaths with Erica	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
tetralix	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	r agmentanon	Surface Water	Groundwater	Air	Non-native	
					invasive species	
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
European dry heaths	Yes.	No.	No.	No.	Yes.	No.
	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Alpine and Boreal	Yes.	No.	No.	No.	Yes.	No.
heaths	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
Calaminarian	Yes.	No.	No.	No.	Yes.	No.
grasslands of the	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
Violetalia	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
calaminariae	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Species-rich Nardus	Yes.	No.	No.	No.	Yes.	No.
grasslands, on	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
siliceous substrates in	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
mountain areas (and	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
submountain areas, in	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
Continental Europe)	Mountains could result	affected in the event		have the potential	the potential to	

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	0	Surface Water	Groundwater	Air	Non-native	
					invasive species	
	in increased recreational	of perturbations to	impacts to	to result in	result in the spread	during developments within
	activity within the	water quality.	groundwater quality.	negative impacts to	of non-native	the plan lands.
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Blanket bogs (* if	Yes.	No.	No.	No.	Yes.	No.
active bog)	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	D	Surface Water	Groundwater	Air	Non-native	
					invasive species	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Siliceous scree of the	Yes.	No.	No.	No.	Yes.	No.
montane to snow	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
levels	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
(Androsacetalia	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
alpinae and	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
Galeopsietalia ladani)	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Calcareous rocky	Yes.	No.	No.	No.	Yes.	No.
slopes with						

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
	D	Surface Water	Groundwater	Air	Non-native	
					invasive species	
chasmophytic	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
vegetation	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Siliceous rocky	Yes.	No.	No.	No.	Yes.	No.
slopes with	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
chasmophytic	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
vegetation	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational		groundwater quality.	to result in	result in the spread	the plan lands.

Date: Sept 2019 Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
)	Surface Water	Groundwater	Air	Non-native	
					invasive species	
	activity within the	of perturbations to		negative impacts to	of non-native	
	Dublin Mountains and	water quality.		air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	
Old sessile oak	Yes.	No.	No.	No.	Yes.	No.
woods with Ilex and	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
Blechnum in the	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
British Isles	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within the	water quality.		negative impacts to	of non-native	
	Dublin Mountains and			air quality	species within this	
	in examples of this				habitat with	
	qualifying habitats of				potential adverse	
	the SAC.				consequences of	
					vegetation	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss &	Habitat Degradation				Disturbance/Displacement
	r i aginentation	Surface Water	Groundwater	Air	Non-native	
					invasive species	
					communities that	
					underpin the status	
					of this habitat.	
Lutra lutra (Otter)	Yes.	Yes. Rationale: This	No.	No.	Yes.	Yes.
	Rationale: The	species is reliant upon	Rationale: Increased	Rationale:	Rationale:	Rational: Increased
	strengthening of links	surface water quality	recreational will not	Increased	Increased	recreational pressure will have
	between the plan area	and any negative	have the potential to	recreational	recreational	the potential to result in
	and the Dublin	effects to water	result in negative	pressures will not	pressure will have	disturbance to otters,
	Mountains could result	quality as a result of	impacts to	have the potential	the potential to	particular in the event that
	in increased recreational	increased recreational	groundwater quality.	to result in	result in the spread	such increases overlap with
	activity within the	pressure could result		negative impacts to	of non-native	breeding sites.
	Dublin Mountains and	in negative impacts to		air quality	species within	
	result in disturbance to	otters.			watercourses that	
	otters, particular where				are relied upon by	
	such activity overlaps				otters.	
	within otter breeding					
	and resting sites.					
Wicklow Mountains						
SPA						
Merlin	Yes.	No. Rationale: This	No.	No.	Yes.	Yes.
	Rationale: The	species is not reliant	Rationale: Increased	Rationale:	Rationale:	Rational: Increased
	strengthening of links		recreational will not	Increased	Increased	recreational pressure will have

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
	between the plan area	upon surface water	have the potential to	recreational	recreational	the potential to result in
	and the Dublin	quality.	result in negative	pressures will not	pressure will have	disturbance to merlin,
	Mountains could result		impacts to	have the potential	the potential to	particular in the event that
	in increased recreational		groundwater quality.	to result in	result in the spread	such increases overlap with
	activity within the			negative impacts to	of non-native	nesting sites.
	Dublin Mountains and			air quality	species within	
	result in disturbance to				nesting habitats for	
	merlin, particular where				this species.	
	such activity overlaps					
	within merlin nesting					
	sites.					
Peregrine Falcon	Yes.	No. Rationale: This	No.	No.	Yes.	Yes.
	Rationale: The	species is not reliant	Rationale: Increased	Rationale:	Rationale:	Rational: Increased
	strengthening of links	upon surface water	recreational will not	Increased	Increased	recreational pressure will have
	between the plan area	quality.	have the potential to	recreational	recreational	the potential to result in
	and the Dublin		result in negative	pressures will not	pressure will have	disturbance to Peregrine
	Mountains could result		impacts to	have the potential	the potential to	falcon, particular in the event
	in increased recreational		groundwater quality.	to result in	result in the spread	that such increases overlap
	activity within the			negative impacts to	of non-native	with nesting sites.
	Dublin Mountains and			air quality	species within	
	result in disturbance to				nesting habitats for	
	merlin, particular where				this species.	

11/09/2019

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
	such activity overlaps					
	within Peregrine nesting					
	sites.					
Glenasmole Valley						
SAC						
Semi-natural dry	Yes.	No.	No.	No.	Yes.	No.
grasslands and	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
scrubland facies on	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
calcareous substrates	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
(Festuco-Brometalia)	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
(* important orchid	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
sites) [6210	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within this SAC	water quality.		negative impacts to	of non-native	
	and in examples of this			air quality	species within this	
	qualifying habitats.				habitat with	
					potential adverse	
					consequences of	
					vegetation	
					communities that	
					underpin the status	
					of this habitat.	

Date: Sept 2019
Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
)	Surface Water	Groundwater	Air	Non-native	
					invasive species	
Molinia meadows on	Yes.	No.	No.	No.	Yes.	No.
calcareous, peaty or	Rationale: The	Rationale: This habitat	Rationale: Increased	Rationale:	Rationale:	Rationale: The Plan area is
clavev-silt-laden soils	strengthening of links	is not influenced by	recreational will not	Increased	Increased	sufficiently buffered from this
(Molinion caeruleae)	between the plan area	lotic processes and	have the potential to	recreational	recreational	habitat to ensure that physical
[6410]	and the Dublin	will not be negatively	result in negative	pressures will not	pressure will have	disturbance to it will not arise
[]	Mountains could result	affected in the event	impacts to	have the potential	the potential to	during developments within
	in increased recreational	of perturbations to	groundwater quality.	to result in	result in the spread	the plan lands.
	activity within this SAC	water quality.		negative impacts to	of non-native	
	and in examples of this			air quality	species within	
	qualifying habitats.				watercourses that	
					are relied upon by	
					otters.	
Petrifying springs	Yes.	Yes. Increased	No.	No.	Yes.	No.
with tufa formation	Rationale: The	recreational pressure	Rationale: While	Rationale:	Rationale:	Rationale: The Plan area is
(Cratoneurion)	strengthening of links	in areas bounding this	this habitat is	Increased	Increased	sufficiently buffered from this
[7220]	between the plan area	habitat could result the	sensitive to	recreational	recreational	habitat to ensure that physical
	and the Dublin	discharge of silt	perturbations to	pressures will not	pressure will have	disturbance to it will not arise
	Mountains could result	ladens surface water	groundwater,	have the potential	the potential to	during developments within
	in increased recreational	runoff to this habitat	increased	to result in	result in the spread	the plan lands.
	activity within this SAC	as a result of	recreational will not	negative impacts to	of non-native	
	and in examples of this	trampling in peatland	have the potential to	air quality	species within	
	qualifying habitats.		result in negative		watercourses that	

Date: Sept 2019 Document Issue: Final

Document Issue: Final

Ecological Effect	Habitat Loss & Fragmentation	Habitat Degradation				Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native	
					invasive species	
		habitats adjacent to	impacts to		are relied upon by	
		this habitat.	groundwater quality.		otters.	

Date: Sept 2019
Document Issue: Final

APPENDIX 2: ENVIRONMENTAL SAFEGUARDS

Where projects that are facilitated by the plan's aim to strengthen links between the Plan area and the Dublin Mountains are proposed within the Dublin Mountains area the following assessments may be required: Habitat Surveys and Assessment: Identification of habitat at and surrounding the project site and the establishment of the presence of any qualifying habitats of the Wicklow Mountains European Sites or the Glenasmole Valley SAC;

watercourses and appropriate surveys to establish the presence of otters and their holts or Watercourse Surveys and Assessment: Identification of any links between the project site and conches.

bird surveys will be required to establish the presence of these species at or in the vicinity of Bird Surveys: Where project site are located in suitable nesting habitat for merlin or peregrine the project site.

strengthen the links between the plan area and Dublin Mountains. Where the findings of surveys and assessment conclude that projects have the potential to result in loss of or The results of surveys and assessment will inform the suitability of projects that aim to significant disturbance to qualifying habitats and/or significant disturbance to qualifying species and their breeding sites, they will not be supported by the Draft Plan. Where projects that aim to strengthen the links between the plan area and the Dublin Mountains are permitted appropriate monitoring will be undertaken and the results of monitoring will be provided to SDCC.

Where works are undertaken in/adjacent to sensitive environmental receptors all inform them of environmental sensitivities and the best practice to be implemented to avoid construction/maintenance staff will be inducted by means of a "Tool-box Talk" which will disturbance to these receptors

11/09/2019

South Dublin County Council Tallaght Town Centre LAP NIR Document Title: Project Title:

Document Issue: Date:

Sept 2019

All construction and maintenance works will be undertaken in accordance with the following guidance documents:

- Inland Fisheries Ireland's Requirements for the Protection of Fisheries Habitat during Construction and Development Works.
 - CIRIA (Construction Industry Research and Information Association) Guidance Documents
- Control of water pollution from construction sites (C532)
- Control of water pollution from linear construction projects: Technical Guidance
- Control of water pollution from linear construction projects: Site Guide (C649)
- Environmental Good Practice on Site (C692)
- NRA Guidance Documents
- Guidelines for the Crossing of Watercourses during the Construction of National Road
- Guidelines for the Management of Noxious Weeds and Non-Native Invasive Plant Species on National Roads
- Guidelines for the Protection and Preservation of Trees, Hedgerows and Scrub Prior to, during and Post Construction of National Road Schemes

Any excavations and/or vegetation removal will minimised during construction and/or maintenance works.

Excavated material will not be stored immediately adjacent to watercourses.

Disturbance to natural drainage features should be avoided during the construction and/or maintenance of routes.

machinery should not be allowed to access, park or travel over areas outside the footprint of Construction machinery should be restricted to public and or site roads. As a general rule proposed walking/cycling routes. 11/09/2019

Date: Sept 2019
Document Issue: Final

During route maintenance no construction activities should be undertaken at watercourse crossing in wet weather conditions. Suitable prevention measures should be put in place at all times to prevent the release of sediment to drainage waters associated with construction areas and migration to adjacent watercourses. To reduce erosion and silt-laden runoff, create, where possible, natural vegetation buffers and divert runoff from exposed areas, control the volume and velocity of runoff, and convey that runoff away from watercourses. Where necessary drainage waters from construction areas should be managed through a series of treatment stages that may include swales, check dams and detention ponds along with other pollution control measures such as silt fences and silt mats Where vegetation removal associated with treelines, hedgerows, individual mature trees, scrub or woodland is required, this shall only be undertaken outside the breeding bird season, between March and August inclusive. Where extensive areas of ground are to be exposed during route construction or maintenance dust suppression should be undertaken during periods of dry weather.

All chemical substances required during construction and/or maintenance works will be stored in sealed containers. Any refuelling or lubrication of machinery will not be undertaken within 50m of a watercourse

Spill kits will be required on site during construction and/or maintenance works.

Ensure non-native, invasive species do not occur at construction/maintenance areas, or if occurring, are not spread as a results of works. The NRA Guidance on invasive species, 11/09/2019

South Dublin County Council Tallaght Town Centre LAP NIR Document Title: Project Title:

Document Issue: Date:

Sept 2019 Final

outlined above will be adhered to as well as the measures in the South Dublin County Development Plan 2016-2022

Disseminate information on sensitive ecological receptors, such as sensitive habitats, breeding birds etc. occurring adjacent to or in the wider area. This information will aim to educate recreational users on the conservation status and sensitivities of such receptors to encourage responsible usage of routes. Construction Environmental Monitoring Plans (CEMPs) shall be prepared in advance of the physical elements proposed as part of the Tallaght Town Centre LAP as appropriate, and will be implemented throughout. Such plans shall incorporate relevant mitigation measures indicated below. South Dublin County Council will be informed in advance of construction activities in sensitive environmental areas. SDCC will be informed of all proposed construction or maintenance works located within the vicinity of SACs and SPAs or in the vicinity of watercourses linked to these designated conservation areas. Assessments of the implications of these works to the Conservation Objectives of European Sites will be required in advance of their completion.

CEMPs typically provide details of intended construction practice for the proposed development, including:

- location of the sites and materials compound(s) including area(s) identified for the storage of construction refuse
- location of areas for construction site offices and staff facilities
- details of site security fencing and hoardings
- details of on-site car parking facilities for site workers during the course of construction
- details of the timing and routing of construction traffic to and from the construction site and associated directional signage © © © ©
- measures to obviate queuing of construction traffic on the adjoining road network
- measures to prevent the spillage or deposit of clay, rubble or other debris

11/09/2019

Date: Sept 2019
Document Issue: Final

alternative arrangements to be put in place for pedestrians and vehicles in the case of the closure of any public right of way during the course of site development works

- details of appropriate mitigation measures for noise, dust and vibration, and monitoring of such levels
- containment of all construction-related fuel and oil within specially constructed bunds to ensure that fuel spillages are fully contained; such bunds shall be roofed to exclude rainwater
 - disposal of construction/demolition waste and details of how it is proposed to manage excavated soil
- a water and sediment management plan, providing for means to ensure that surface water runoff is controlled such that no silt or other pollutants enter local water courses or drains
 - n) details of a water quality monitoring and sampling plan
- measures adopted during construction to prevent the spread of invasive species (such if peat is encountered - a peat storage, handling and reinstatement management plan
- as Japanese Knotweed)
- Appointment of an ecological clerk of works at site investigation, preparation and construction phases.

11/09/2019

Appropriate Assessment (AA) Determination

The Planning and Development Act 2000 (as amended) Planning and Development Regulations 2001 (as amended)

For: Tallaght Town Centre Local Area Plan 2020

South Dublin County Council has made a Local Area Plan (LAP) for Tallaght Town Centre.

Pursuant to the requirements of the above and of Article 6(3) of the Habitats Directive as to whether or not a plan or project would be likely to result in any significant adverse effects on sites designated under the European Commission's Natura 2000 network of sites (hereafter 'European Sites'), an Appropriate Assessment determination is being made by South Dublin County Council.

In carrying out this Appropriate Assessment, the Council is taking into account the relevant matters specified under Part XAB of the Planning and Development Act 2000 (as amended), including:

- The Draft Tallaght Town Centre Local Area Plan (LAP) and associated documents (including the SEA Environmental Report);
- The Natura Impact Report;
- Amendments to the Draft LAP, including material alterations;
- The SEA and AA Screening of the proposed amendments to the Draft LAP;
- Written submissions made on the Draft LAP and proposed Material Alterations while on public display; and
- The SEA Statement.

The screening for Appropriate Assessment was undertaken by Doherty Environmental Consultants Ltd on behalf of South Dublin County Council. The screening concluded that an Appropriate Assessment of the LAP was required as it could not be excluded, on the basis of objective information, that the Plan, either individually or in combination with other plans or projects, would not have a significant effect on a European site.

Therefore, adopting the precautionary principle, it was concluded that a Natura Impact Report (NIR) should be prepared. A NIR was prepared by Doherty Environmental Consultants Ltd., on behalf of South Dublin County Council, and was made available as part of the public consultation on the Draft LAP; published online and was also available in hard copy.

The protective measures and safeguard requirements outlined in the NIR have been evaluated for their effectiveness to protect the integrity of European Sites from potential adverse impacts during the lifetime of the LAP. These measures have been found to provide sufficient protection to ensure that the implementation of the adopted LAP will not result in significant adverse effects, either individually or in-combination with other plans or projects, to the integrity of any European Site.

It is determined that the risks to the safeguarding and integrity of the qualifying interests, special conservation interests and conservation objectives of relevant European Sites have been addressed by the inclusion of achievable mitigation measures within the Tallaght Town Centre LAP. These prioritise the avoidance of effects in the first place and will reliably mitigate these effects where these cannot be avoided. In addition, any lower level plans and projects arising through the implementation of the LAP will themselves be subject to relevant stages of Appropriate Assessment when further details of design and location are known.

Having incorporated these mitigation commitments, it is considered that the Tallaght Town Centre LAP is not foreseen to have any likely significant effects on the ecological integrity of any European Site.

Order: Taking into account the findings of the Appropriate Assessment process that are detailed in the Natura Impact Report and the AA screening process for the proposed amendments to the Draft LAP, South Dublin County Council hereby determines that the adoption of the Tallaght Town Centre Local Area Plan 2020 will not, either individually or in combination with any other plan or project, result in significant adverse effects to the integrity of any European Site.

Jason Frehill

Senior Planner

Tallaght Town Centre Local Area Plan

Appropriate Assessment (AA) Determination under:

The Planning and Development Act 2000 (as amended)

Planning and Development Regulations 2001-2019

For: Proposed Material Alterations to the Tallaght Town Centre Draft Local Area Plan

Pursuant to the requirements of the above, an Appropriate Assessment (AA) Screening determination has been made by South Dublin County Council regarding the Proposed Material Alterations to the Draft Tallaght Town Centre Local Area Plan 2020 (Draft LAP) in accordance with the EU's Habitats Directive 6 (3) and Section 177U of the Planning and Development Act 2000 (as amended).

Section 20(3)(f) of the Planning and Development Act 2000 (as amended), requires, inter alia, a determination to be made as to whether an appropriate assessment is or are required to be carried out as respects one or more than one of the Proposed Material Alterations of the Draft Local Area Plan.

The Draft LAP sets out the vision and direction for the future development of the Tallaght Town Centre area. Proposed landuse plans must undergo a formal test or screening to ascertain whether they are likely to result in any significant adverse effects on specific sites designated for their nature conservation importance. These sites are those designated under the European Commission's Natura 2000 network of sites (hereafter 'European Sites'). The Habitats Directive requires the screening of plans and projects. If the screening process results in a judgement that likely significant effects may occur or cannot be ruled out, then a more detailed assessment is required.

The AA Screening process for the Proposed Material Alterations to the Draft LAP has found that the material alterations do not require any further assessment to demonstrate compliance with the Directive in accordance with the methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC.

Order: Taking into account the findings of the AA process that are detailed in the AA Screening report that accompanies this determination, South Dublin County Council hereby determines that the Proposed Material Alterations to the Draft LAP, either independently or in combination, will not result in any effects on European Sites and consequently Stage 2 AA is not required.

Jason Frehill

Senior Planner

12/2/20 Date