

Environmental Report

Strategic Environmental Assessment (SEA)

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Section 1 Introduction

1.1 Introduction and Terms of Reference

This document is the Environmental Report detailing the Strategic Environmental Assessment undertaken for the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 and the required subsequent Proposed Variation to the Wicklow County Development Plan 2010-2016. The purpose of this Environmental Report is to provide a clear understanding of the likely environmental consequences of decisions regarding the future accommodation of development and growth within the Plan area.

The SEA is being carried out in order to comply with the provisions of the SEA Regulations and in order to improve planning and environmental management in the plan area. This report should be read in conjunction with the Draft Greystones-Delgany and Kilcoole LAP and the Proposed Variation No.3 to the Wicklow County Development Plan 2010-2016.¹

1.2 Local Context – The Draft Greystones–Delgany and Kilcoole Local Area Plan 2013-2019

The Draft Greystones –Delgany and Kilcoole Local Area Plan has been prepared by Wicklow County Council under the provisions of the Planning and Development Act 2000 (as amended). Under Section 19 the Planning Authority must prepare a Local Area Plan for an area that:

- Is designated a town in the most recent census of population, other than a town designated as a suburb or environs in that census;
- Has a population in excess of 5,000, and
- Is situated in the functional area of the Planning Authority.

The Plan will be the guiding statutory document for the proper planning and sustainable development of the plan area. The plan, and any subsequent amendments will remain place for a period of six years from the date of its adoption, unless otherwise revoked or the preparation of a new Local Area Plan is deferred under the provisions of the Act. The plan will supersede the Greystones-Delgany Local Area Plan 2006-2012 and the Kilcoole Local Area Plan 2008-2014. Even though the Kilcoole plan has another two years to run, the Council has determined that there would be benefits in reviewing the Kilcoole plan now ahead of schedule and preparing a single plan for the wider area which would include all areas encompassed in the two existing plans.

The Plan has two main purposes, first to provide a framework of acceptable uses within the plan area, defining acceptable forms of development and where they should be directed; and secondly to provide a detailed basis for the promotion and management of development. The objectives set out in the plan accord with the objectives set out in each of the higher tier policy documents. The higher tier documents are contained in Appendix 4 of this report.

The Local Area Plan sets out the overall strategy for the proper planning and sustainable development of the area and consists of a written statement and plan indicating the development objectives for the area. The overall strategy for the plan area is set out in Section 2 of the Greystones –Delgany and Kilcoole LAP.

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¹ This point forward referred to as the Plan.



Figure 1.1 Map of Greystones-Delgany and Kilcoole LAP Boundary 2013-2019

1.3 Proposed Variation No. 3 to the Wicklow County Development Plan 2010 -2016

The knock on effect of the proposed Draft Local Area Plan requires a number of minor variations to the Wicklow County Development Plan. These Variations shall run concurrently with the Draft Local Area Plan and shall be carried out in accordance with Section 13 of the Planning and Development Act 2000 (as amended). The purpose of these variations is to

ensure consistency between the County Development Plan 2010-2016 and the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019.

1.4 SEA Definition

Strategic Environmental Assessment (SEA) is the formal, systematic evaluation of the likely significant effects of implementing a plan or programme. It is undertaken during the preparation period of the plan or programme, and before a decision is made to formally adopt it. The SEA process thereby assists in, and improves the quality of the plan-making process by including the following:

- Facilitating the identification and appraisal of alternative plan strategies;
- Raising awareness of the environmental impacts of the Plan's implementation; and
- Encouraging the inclusion of measurable targets and indicators.

The structure of this Environmental Report which is the result of the Strategic Environmental Assessment is in accordance with Article 1 of the Directive which provides a broad basis for the content of the Environmental Report. This Report therefore identifies, describes and evaluates the likely significant effects on the environment of implementing the Plan's objectives and policies. In accordance with the Directive, this Environmental Report provides the following:

- An outline of the content and main objectives of the Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 and the relationship between these and other relevant plans or programmes;
- The environmental characteristics of the area affected by the Plan;
- Any existing environmental problems which are relevant to the Plan including, in particular, those relating to any areas of particular environmental importance, such as areas designated pursuant to Directives 79/409/EEC (Directive for the Conservation of Wild Birds) and 92/43/EEC (Conservation of Natural Habitats and of Wild Fauna and Flora):
- The environmental protection objectives, established at International, Community or Member State level, which are relevant to the Plan and the way those objectives and any environmental considerations have been taken into account during its preparation:
- The likely significant effects on the environment, including issues such as biodiversity, fauna, flora; population and human health; soil and geology; water, air and climatic factors; material assets; cultural heritage including architectural and archaeological heritage; and landscape;
- The measures envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the Plan
- An outline of the alternatives dealt with, and a description of how the assessment was undertaken including any difficulties (such as technical deficiencies or lack of knowhow) encountered in compiling the required information;
- A description of the measures envisaged concerning monitoring in accordance with Article 10:
- An Appendix (2) outlining the assessment of the subsequent proposed variation to the Wicklow County Development Plan 2010-2016 within the Environmental Report;
- A non-technical summary of the information provided under the above headings.

Note: Throughout the SEA process all submissions received during consultation were taken into consideration and incorporated into the SEA Environmental Report and the Non-Technical Summary, where appropriate.

1.5 Legislative Context - EU Directive on SEA (Directive 2001/42/EC)

The EU Directive on Strategic Environmental Assessment or SEA (Directive 2001/42/EC) came into force in July 2001 and requires EU Member States to assess the likely significant environmental effects of plans and programmes prior to their adoption.

Article 1 of the SEA Directive states:

"The objective of this Directive is to provide for a high level of protection of the environment and to contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to promoting sustainable development, by ensuring that, in accordance with this directive, an environmental assessment is carried out of certain plans and programmes which are likely to have significant effects on the environment."

The Directive came into effect in an Irish context in July 2004 and was subsequently transposed into Irish law through the Planning and Development (Strategic Environmental Assessment) Regulations 2004, S.I. No. 436 and the European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004, S.I. No. 435. A Strategic Environmental Assessment of the Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 (from hence referred to as "the Plan") is a mandatory requirement and is being carried out in accordance with the provisions of the SEA Directive and Regulations. While this Environmental Report and the Plan are two separate documents they should be read in conjunction with each other. Additional reference to the potential effects and protection of Natura 2000 sites can be found within the Habitats Directive Assessment for Greystones-Delgany and Kilcoole. This Habitats Directive Assessment has highlighted the potential effects that the Plan's implementation may have on any Natura 2000 site (designated on ecological grounds and including Special Areas of Conservation and Special Protection Areas). This Report is provided as a separate document titled 'Habitat Directive Assessment (Natura Impact Assessment) for the Greystones-Delgany and Kilcoole Local Area Plan 2013-2019'.

2.1 Introduction

The methodology used to carry out the Strategic Environmental Assessment (SEA) of the Plan reflects the requirements of the SEA Directive and other SEA guidance documentation such as "Implementation of SEA Directive (2001/42/EC): Assessment of the Effects of Certain Plans and Programmes on the Environment – Guidelines for Regional Authorities and Planning Authorities" published by the Department of the Environment, Heritage and Local Government and "Development of Strategic Environmental Assessment (SEA) Methodologies for Plans and Programmes in Ireland – Synthesis Report" published by the EPA in 2003. Moreover, the Directive was transposed into Irish law through the Planning and Development (Strategic Environmental Assessment) Regulations 2004, S.I. No. 436 and the European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004, S.I. No. 435. This section outlines the key stages in the development of the assessment in accordance with the Directive and the aforementioned Regulations. The process is currently at the fifth stage in the process as indicated in the following steps below.

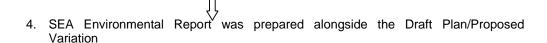
1. Preparation of the Greystones-Delgany & Kilcoole Local Area Plan Began



2. SEA was determined as being mandatory



Scoping and Consultations were carried out for the SEA



- 5. Draft Local Area Plan and Environmental Report (ER) go on public display
- 6. Elected Members consider the Draft Plan/Proposed Variation, ER and Manager's Report on submissions and observations



- 7. Elected members may decide to make the plan or propose amendments to the Draft Plan/Proposed Variation \Box
- 8. Environmental considerations of the proposed amendments are taken into account with an addendum to the ER



9. Proposed amendments and addendum to the ER go on public display



10. Elected members consider the proposed amendments, addendum to the ER and Manager's Report on submissions and observations



11. Elected members make the plan with or without proposed amendments subject to modifications to the Amendments



- 12. A final ER is prepared which consolidates the original ER which was placed on public display with the Addendum $_{\ \square}$
- 13. The SEA Statement is published

2.2 Screening

The screening process is the first stage of the Strategic Environmental Assessment. Screening assesses the need to undertake a Strategic Environmental Assessment of a plan or programme. It was determined that the Plan warranted a Strategic Environmental Assessment due to the extent of the area and the size of the resident population.

2.3 Scoping

Wicklow County Council carried out a scoping exercise to establish the scope and extent of the Environmental Report and to list environmental issues which would require further consideration during the SEA process. Scoping helped the SEA to become focused upon the important issues, such as those relating to existing and potential environmental issues and environmental problems². The scoping exercise was undertaken in June 2012 and the statutory consultees were invited over a four-week period, to make a submission or observation. In line with best practice, a Scoping Report was prepared by the Planning Authority to facilitate the consultation process. The statutory consultees are:

- the Environmental Protection Agency;
- the Department of Agriculture, Marine and Food;
- the Department of Arts, Heritage and the Gaeltacht;
- the Department of Communications, Energy and Natural Resources;
- · the Department of the Environment, Community and Local Government;
- the Inland Fisheries Ireland.

Submissions in respect to the scoping process were received from the EPA, Inland Fisheries Ireland and the Department of Arts, Heritage and the Gaeltacht. Key observations made in these submissions include the following:

² Annex 1 of the SEA Directive requires that information is provided on "any existing environmental problems which are relevant to the plan or programme", thus, helping to ensure that the proposed strategic action does not make existing environmental problems worse. Environmental problems arise where there is a conflict between current environmental conditions and ideal targets. If environmental problems are identified at the offset they can help focus attention on important issues and geographical areas where environmental effects of the plan or programme may be likely.

- Draft Local Area Plan should include objectives which ensure that a safe, reliable and effective water infrastructure is put in place to service the existing future development needs of the settlement
- Draft Local Area Plan should include objectives which contribute to the achievement of objectives as set out in the "Eastern River Basin District Management Plan 2009-2015".
- Draft Local Area Plan should include a natural heritage section; all designated sites should be listed and mapped.
- Flood risk assessment should be carried out in accordance with the Guidelines for Flood Risk Management(DoEHLG And OPW, 2009)
- An Appropriate Assessment screening exercise should be carried out, and
- The Draft local area plan should include objectives for the protection for the riparian habitats, particularly along the Three Trout River.

The submission from the EPA and the Department of Arts, Heritage and the Gaeltacht also included recommendations regarding the preparation of Strategic Environmental Objectives (SEOs) for the Environmental Report. Key recommendations in this regard include the following:

- Biodiversity SEO should relate to habitats and species both within and outside designated sites and should aim to achieve relevant biodiversity targets; and
- Water SEOs should have regard to the objectives of the "Eastern River Basin District Management Plan 2009-2015" and should ensure the protection of protected species.

In the framing of the Environmental Report the matters raised in the above submissions have been incorporated in the preparation of the Draft LAP and associated Environmental Report. Accordingly, the objectives of the Draft LAP and the SEOs of the Environmental Report have been prepared in accordance with the above recommendations.

2.4 Environmental Baseline Data and other Strategic Actions:

The SEA process is led by the environmental baseline (i.e. the current state of the environment-flora and fauna, soil, water, cultural heritage etc.) to facilitate the identification, evaluation and subsequent monitoring of the effects of the plan area. Data was collected to describe the environmental baseline and its likely evolution without implementation of the local area plan.

The SEA Directive requires that information on the baseline environment be focused upon the relevant aspects of the environmental characteristics which are likely to be affected by the implementation of the plan. The SEA of the Plan focuses on the significant issues, disregarding the less significant ones. In addition, the SEA Directive aims to avoid duplication of the assessment whereby a strategic action forms part of a hierarchy. In order to describe the baseline - the current state of the environment – data was collated from currently available, relevant environmental sources.

2.5 Alternatives

The SEA Directive requires that reasonable alternatives (taking into account the objectives and the geographical scope of the plan or programme) are identified, described and evaluated for their likely significant effects of the environment. Taking into account the objectives and the geographical scope of the plan, alternatives were formulated alongside the plan-making team.

2.6 The Environmental Report

In this Environmental Report, which has been prepared alongside the Draft LAP/Proposed Variation, the likely environmental effects of the LAP/Proposed Variation and the alternatives are predicted and their significance evaluated while having regard to the environmental baseline. The Environmental Report provides the decision makers, who decide to adopt the plan/proposed variation, with a clear understanding of the likely environmental consequences of decisions regarding the future accommodation of development within the plan area. Mitigation measures prevent or reduce the significant adverse effects that are posed by the plan/proposed variation, and in some instances these mitigation measures maximise the benefits that arise from the implementation of the plan.

The Environmental Report will be required to be altered should amendments be proposed to the plan/proposed variation or should a Plan, which includes elements which have not been evaluated by the SEA and which maybe likely to have significant environmental effects, be adopted.

2.7 The SEA Statement

When the Plan is adopted a document referred to as the 'SEA statement' must be made public. This is required to include information on the following:

- How environmental considerations have been integrated into the Plan highlighting the main changes to the Plan which resulted from the SEA process;
- How the Environmental Report and consultations have been taken into account summarising the key issues raised in consultations and in the Environmental Report and consultations that have been taken into account;
- Summarising the key issues raised in consultations and in the Environmental Report indicating what action, if any, was taken in response;

The reasons for choosing the plan in the light of alternatives, identifying the other alternatives considered, commenting on their potential effects and explaining why the Plan was selected.

2.8 Legislative Conformance

This report complies with the provisions of the SEA Regulations and is written in accordance with Schedule 2B of the Planning and Development (Strategic Environmental Assessment) Regulations 2004(SI No.436 of 2004) as amended.

Table 2.1³ (below) is a reproduction of the checklist of the information to be contained in the Environmental Report (DEHLG, 2004) and includes the relevant sections of this report, which deals with the above requirements

2.9 Difficulties Encountered

The lack of a centralised data source in relating to environmental baseline data for the county posed a challenge to the SEA process.

This difficulty is one, which is encountered at local authorities across the country and is being overcome by investing in the collection of data from various sources and through the use of Geographical Information Systems.

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³ DEHLG(2004) Implementation of SEA Directive (2001/42/EC): Guidelines for Regional Authorities and Planning Authorities Dublin: Government of Ireland

Table 2.1: Checklist of information included in this environmental report

Information required to be included in the Environmental Report	Corresponding section of this report
(A) Outline of the contents and main objectives of the plan, and of its relationship with other relevant plans and programmes	Section 5
(B) Description of relevant aspects of the current state of the environment and the evolution of that environment without implementation of the plan	Section 3
(C) Description of the environmental characteristics of areas likely to be significantly affected	Section 3,7 and 8
(D) Identification of any existing environmental problems which are relevant to the plan, particularly those relating to European protected sites	Section 3
E) List strategic environmental objectives, established at international, EU or national level, which are relevant to the plan and describe how those objectives and any environmental considerations have been taken into account when preparing the plan	Section 4,7 and 8
(F) Describe the likely significant effects on the environment	Section 7 and 8
(G) Describe any measures envisaged to prevent, reduce and as fully as possible offset any significant adverse environmental effects of implementing the plan	Section 9
(H) Give an outline of the reasons for selecting the alternatives considered, and a description of how the assessment was undertaken (including any difficulties)	Section 2 and 6
(I) A description of proposed monitoring measures	Section 10
(J) A non-technical summary of the above information	Appendix 3
(K) Interrelationships between each environmental topic	Addressed as it arises within each section

Section 3 Baseline Environment for the Plan Area

3.1 Introduction

This section will provide a description of the environmental characteristics of the plan area. The baseline, together with the Strategic Environmental Objectives (SEOs), which are outlined in Section 4, is used in order to identify, describe and evaluate the likely significant environmental effects of implementing the Plan and in order to determine appropriate monitoring measures. The purpose of this section is to provide enough environmental baseline data to:

- 1. Allow for the identification of environmental problems
- 2. Allow for the process of assessing the environmental effects
- 3. Provide a baseline against which future monitoring data can be compared

The following sections provide information on the following environmental parameters

- Soil and Geology
- Biodiversity-Flora and Fauna
- Population and Human Health
- Climate and Air Quality
- Material Assets
- Cultural Assets
- Landscape(incl. Landscape category, views, prospects and trees)
- Interrelationship between these parameters.

While the SEA Regulations lists "Water" as a fundamental parameter, it is considered that it has been adequately addressed in the "Material Assets" as outlined above.

Whilst all environmental parameters are described, certain parameters are identified as being of greater significance and maybe subject to greater impacts associated with the implementation of the Plan. In addition, certain parameters and key elements of same were identified in the scoping submissions of meriting particular scrutiny; therefore the focus on this section reflects the comments from the prescribed bodies.

In addition to above an overview of the overall level of environmental sensitivity of the plan area is provided in a Cumulative Environment Assessment. This section also sets out the "donothing" scenario, which is an indication of how current environmental conditions would change over time without the implementation of the plan.

3.2 Description of Greystones-Delgany and Kilcoole

Currently there are two separate plans in place for Greystones-Delgany and Kilcoole, however after public consultation it was determined appropriate that the two plans would be amalgamated and that there would be the one plan for the area. The following is a brief synopsis of the two plan areas; a further detailed account of these areas is contained within the draft LAP.

3.2.1 Geographical location and physical characteristics of Greystones:

Greystones/Delgany is strategically located on the N11 national route which links Dublin to Rosslare Europort and the towns of Wicklow, Arklow, Gorey, Enniscorthy and Wexford. The M50 motorway provides a continuous dual carriageway/motorway link for Greystones/Delgany to Dublin Airport and via the M1 to Dundalk and the N7 to Portlaoise. The R761 county road connects Greystones/Delgany to Bray and to the settlements of Kilcoole and Newcastle to the south. Greystones is the last stop for the DART, and there is a

continuous single track from Greystones to Rosslare for commuter trains. Greystones is a coastal settlement in north County Wicklow, enclosed by higher ground to the north and west - to the north by the backdrop of Bray Head, to the northwest by the Little Sugar Loaf and to the west by the rolling wooded slopes of Bellevue Demesne and Kindlestown Wood. To the south of the settlement, the lands undulate towards Kilcoole and Kilquade. The coastal zone from Bray Head to the harbour (North Beach) is a pebble and shingle beach with crumbling clay cliffs. The South Beach is a sandy pebble beach with a rugged rocky foreshore that begins at the railway station car-park and extends southwards beyond the LAP boundary.

3.2.2 Geographical location and physical characteristics of Kilcoole:

Kilcoole is situated in the north of the County approximately c. 5km south of Greystones. The settlement is located between the national route N11 (c. 3km to the west) and the coast (c. 1.5km east of the Main Street), to which it is linked by local secondary road L-5046 (the "Sea Road"). The single track coastal train route from Dublin to Rosslare has a halt at Kilcoole. The town is also linked to the west to Newtownmountkennedy (4km) by local primary road L-1048. The village of Kilcoole consists of a radial street pattern, radiating from the junction of Main Street, Lott Lane and the Sea Road; with the commercial town centre in linear form along Main Street, which is also the regional road R761 extending to Greystones to the north and Newcastle to the south. The town is surrounded by several housing developments, which have been constructed in the last number of years, Kilcoole is also surrounded by agricultural lands on all sides, with the coast and associated wetlands located c. 1km to the east. The topography of Kilcoole rises towards the north of the village and falls away to the east and is more level to the south of the village.

3.2.3 Relationship of the plan area with the Wicklow County Development Plan 2010-2016

Under the County Wicklow Settlement Hierarchy 2010-2016, Greystones-Delgany is designated a 'Large Growth Town 2' and Kilcoole is designated a 'Small Growth Town'. In accordance with this Hierarchy, a 'Large Growth Town 2' should accommodate a large amount of population growth, and have a high level of infrastructure, services and employment. 'Small Growth Towns' should provide for a lower level of growth and employment, and provide mainly for the local service needs of the settlement and its hinterland

The amalgamation of the two existing Local Area Plans for Greystones and Kilcoole also requires a number of variations to the Wicklow County Development Plan as set out in Variation no. 3 (which should be read in conjunction with the Draft Local Area Plan). The assessment of these variations has run concurrently with the environmental assessment of the Draft Local Area Plan with Appendix 2 of this document highlighting how the knock on effects of the Draft Local Area Plan have been assessed within the environmental report.

3.3 Soil and Geology

A non-renewable resource is a natural resource which cannot be reproduced, grown, generated, or used on a scale which can sustain its consumption rate, once depleted there is no more available for future needs. The natural environment, with soil can be referred to as a renewable resource, as long as it is adequately monitored, protected and conserved.

It is an extremely complex, variable and living medium and performs many vital functions including: food and other biomass production, storage, filtration and transformation of many substances including water, carbon and nitrogen. Impacts on soil can occur through erosion, loss of organic matter, contamination, industrial pollution and agriculture. The distribution and type of soils influences the diversity of flora and fauna as well as the type and extent of agricultural land uses.

Soil composition is influenced greatly by underlying bedrock geology. The Geographical Survey of Ireland (GSI) provides information on bedrock, subsoil, aquifer classifications and vulnerability.

3.3.1 Key environmental problems for Soil and Geology:

The main pressures on soil (as identified nationally by the EPA) include construction, agricultural, and, forestry activities, as well as extractive industries, industrial, commercial and road projects and other major infrastructural projects. The loss of soil through development and its encasement under artificial surfaces impacts upon many of its wider environmental functions, while surface soil erosion impacts on water quality.

Such activities can contribute to soil degradation including loss of organic matter, declining soil fertility, loss of soil stability, soil compaction, contamination, loss of biodiversity and loss of soil to buildings and infrastructure. Due to the complex interrelationship between water, air and soil, declining soil quality can contribute to negative or declining water or air quality and function.

Figure 3.1 illustrates the soil map for the area around the plan area. The principal soil types in the area consist of man-made soils and brown/grey podozilic soils. The area along the coastline consists mainly of beach/sand and gravel alluvium soils. With regard to bedrock, the majority of the Plan area is composed of Greywacke and Quartzite(as illustrated on figure 3.2) with some localised individual bands of quartzite.

3.3.2 Evolution of soil and geology in the absence of the Plan:

The rehabilitation of brown field sites within the plan area would reduce the depletion of greenfield sites. In the absence of a LAP, there would be no framework for the direction of growth towards brownfield sites in the plan area here such direction is appropriate. As a result greenfield development would be likely to occur on an increased basis and would result in the building upon and thereby sealing off the non-renewable subsoil and soil resources. In the absence of policies regarding water management and land use objectives, adequate protection would not be given to groundwater protection and associated impacts on soil quality.

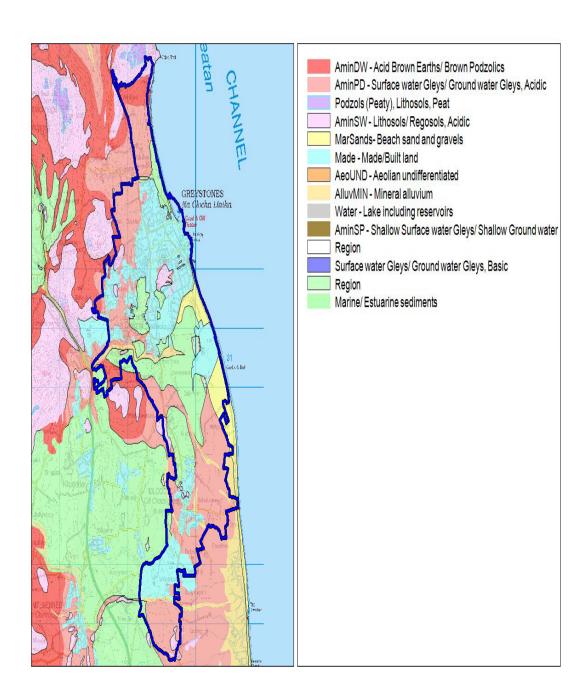


Figure 3.1 Soil Map (Source: EPA)



Figure 3.2 Geology (Source WCC Layers)

3.4 Biodiversity, Flora and Fauna

3.4.1 Introduction

The Plan area is located to the east of the county and includes urban settlements, as designated in the Wicklow County Development Plan 2010-2016. The settlement of Greystones extends along the coast while the remaining plan area, including the settlements of Delgany and Kilcoole stretch up to 3 km further inland. The Plan area comprises a mixture of high, medium and low density housing. A Local Biodiversity Study of the Greystones-Delgany Area, carried out in 2006 provides baseline information about the locally important habitats present which includes the Three Trout Stream, the coastal strip and areas of trees, hedgerows and old buildings. Consultation with the Department of Arts, Heritage and the Gaeltacht has advised on the scope of the SEA to include the following:

- All sites with nature conservation designations
- Available information on habitats and habitat indicator mapping
- Ecological networks
- All watercourse, surface water bodies and associated wetlands including floodplains and flood risk areas
- · Other sites of high biodiversity value
- Local Biodiversity areas

3.4.2 Natura 2000 Sites

The study area includes one Natura 2000 site (i.e. Bray Head Special Area of Conservation (SACs)⁴; there are a number of Natura 2000 sites outside the plan area (i.e. Murrough Special Protection Area (SPA)⁵/SAC & Glen of Downs SAC). The Habitats Directive Assessment assesses in more detail potential impacts of this Plan on Natura 2000 sites (SACs and SPAs under the EU Habitats Directive). The following two tables identify the Natura 2000 sites within the plan boundaries and the Natura 2000 sites outside the plan boundaries respectively:

⁵ Special Protection Areas (SPAs) are sites designated under the EC Directive 79/409/EEC, known as the "Birds Directive", to conserve the habitats of certain migratory or rare birds.

⁴ Special Areas of Conservation (SACs) are sites designated under EC Directive 92/42/EEC known as "Habitats Directive". This requires the conservation of important, rare or threatened habitats and species (not birds, which are protected by Special Protection Areas) across Europe.

Table 3.1: Natura 2000 sites within the Greystones-Delgany and Kilcoole LAP Boundary

Natura 2000 sites within plan boundary	1 Summary			
Bray Head	The southerly extension of the Bray Head SAC extends into the northern aspect of Greystones LAP boundary. This area includes the eroding boulder clay/alluvial deposit cliffs in which sand martins nest each summer. Bray Head is of high conservation importance as it has two habitats listed on Annex I of the EU Habitats Directive (sea cliffs and dry heath). It also supports a number of rare plant species and has ornithological importance. This coastal site is situated in north-east Co. Wicklow between the towns of Bray and Greystones. Bedrock geology comprises Cambrian quartzites and shales with mudstones and greywackes. Bray Head consists of a plateau of high ground, with five prominent quartzite knolls and has a maximum height of 241 m. The more exposed higher ground has a covering of shallow acidic soils, with protruding bedrock and scree. Elsewhere, deeper soils are formed by drift deposits and are calcareous in character. The dominant habitat on this site is a mosaic of dry heath and dry calcareous and neutral grassland. Typical species present are Ling Heather, Bell Heather and both Common and Western Gorse. In between the shrubs, species such as Tormentil, Milkwort, Heath Bedstraw and a variety of grasses (e.g. Early Hairgrass, Common Bent, Wavy Hair-grass) are common. Main Conservation Objectives To maintain the Annex I habitats for which the cSAC has been selected at favourable conservation status; European dry heaths (54% area of the site) and Vegetated sea cliffs of the Atlantic and Baltic coasts (6% area of the site) To maintain the extent, biodiversity and species richness of the site To establish effective liaison and co-operation with landowners, legal users and relevant authorities			

6 National Parks and Wildlife (2005) Site Synopsis for Bray Head Special Area of Conservation (000714) Dublin: Government of Ireland

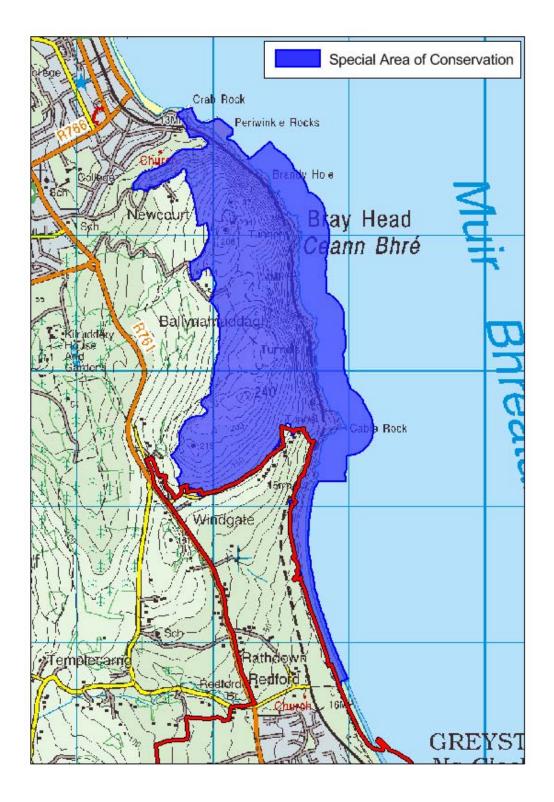


Figure 3.3 Natura 2000 sites within plan boundary

Table 3.2: Natura 2000 sites outside the Greystones-Delgany and Kilcoole LAP Boundaries					
outside boundary					
The Murrough SPA	The Murrough SPA is a coastal wetland complex, supporting a number of habitats listed in Annex 1 of the EU Habitats Directive and number of bird species listed in Annex 1 of the EU Habitats Directive, as well as a wide range of important migratory birds. There are also many rare plants in the site. This site is of importance as it is the largest coastal wetland complex on the east coast of Ireland. Although much affected by drainage, it still contains a wide range of coastal and freshwater habitats including five listed on Annex I of the EU Habitats Directive, some of which contain threatened plants. Areas on the site contain a rich invertebrate fauna, including several rarities. It is an important site for both wintering and breeding birds and supports a wide variety of species listed on Annex I of EU Birds Directive. The shingle ridge at Kilcoole is a traditional nesting area for little Tern, and the site now supports one of the largest colonies in the country.				
	The regular occurrence of Red-throated Diver, Little Egret, Whooper Swan, Greenland White-fronted Goose, Golden Plover, Little Tern, Sandwhich Tern. Shorteared Owl and Kingfisher is of note as these species are listed on Annex I of the E.U. Birds Directive. The site also supports a typical diversity of birds associated with reed swamp, including Reed Warbler, a much localised species in Ireland.				
The Murrough Wetlands SAC	The Murrough is a coastal wetland complex which stretches for 15km from Ballygannon (Kilcoole) to north of Wicklow town, and in parts extends inland for up to 1km. The site supports a number of habitats listed on Annex I of the EU Habitats Directive and a number of bird species listed on Annex I of the EU Birds Directive, as well as a wide range of important migratory birds. There are also many rare plants in the site. Low sand hills occur at Kilcoole, with Marram (Ammophila arenaria) and Lyme Grass (Leymus arenarius). In other areas and further inland a rich grassy sward, which is most extensive in the south end of the site, has developed. Typical species include Sweet Vernal-grass (Anthoxanthum odoratum), Crested Dog's-tail (Cynosurus cristatus), Common Bird's-foot-trefoil (Lotus corniculatus), Burnet Rose (Rosa pimpinellifolia) and Pyramidal Orchid (Anacamptis pyramidalis). A community dominated by Silverweed (Potentilla anserina) and Strawberry Clover (Trifolium fragiferum) occurs in some of the wetter, grassy areas. In some places, particularly at the south of the site, a Gorse (Ulex) heath has developed on the stony ridge. The Murrough is an important site for wintering waterfowl and breeding birds. Annex I bird species present include Red-throated Diver, Little Egret, Bewick's Swan, Whooper Swan, Greenland White-fronted Goose, Golden Plover, Kingfisher, Sandwich Tern and Little Tern. Average peak winter counts from 1994/95 - 1997/98 showed the site to have an internationally important population of Brent Geese (1,318, which is much higher than it was in the early 90s), nationally important populations of Wigeon (1,518), Teal (772), Common Scoter (103) and Lapwing (3,140) and regionally or locally important populations of Whooper Swan (80), Little Grebe (22), Shelduck (95), Gadwall (9), Mallard (391), Shoveler (22), Golden Plover (615), Curlew (605) and Redshank (181). Greylag Geese numbers have dropped off. The average peak is now 213. Little Tern breed on the shingle beach near The Breaches and this is				

⁷ National Parks and Wildlife (2005) Site Synopsis for the Murrough Wetlands Special Area Conservation (002249)

Dublin: Government of Ireland

and quality of the wetlands habitats - the area between Kilcoole and Newcastle is particularly affected. This site is of importance as it is the largest coastal wetland complex on the east coast of Ireland. Although much affected by drainage, it still contains a wide range of coastal and freshwater habitats including five listed on Annex I of the EU Habitats

Directive, some of which contain threatened plants. Areas on the site contain a rich invertebrate fauna, including several rarities. It is an important site for both wintering and breeding birds and supports a wide variety of species listed on Annex I of the EU Birds Directive.

Glen of the Downs SAC

This site is a semi-natural Oak wood situated within an impressive glacial overflow channel. It is located on the Dublin-Wexford road about 7 km south of Bray, Co. Wicklow. The underlying rock is mostly quartzite and it outcrops in a few places. The soil is a sandy loam, Brown Earth to Brown Podzolic, and is very dry over much of the site. Most of the site has been a Nature Reserve since 1980.

Much of the site comprises Sessile Oak (*Quercus petraea*) woodland referable to the Blechno-Quercetum petraeae association. Sessile Oak is especially dominant on the mid to upper slopes. The quality of the Oak-dominated areas is variable – the association is well developed and especially pure on the western side, while in some places it occurs as coppice scrub. The shrub layer is sparse but Holly (*Ilex aquilinum*) is locally common. On the ground, Great Wood-rush (*Luzula sylvatica*) forms a dense carpet over much of the area, with other species such as Bilberry (*Vaccinium myrtillus*), Heather (*Calluna vulgaris*) and Wood Sage (*Teucrium scorodonia*) occurring occasionally. Brambles (*Rubus fruticosus* agg.) and ferns such as Soft Shield-fern (*Polystichum setiferum*) are abundant in places, especially on the southwestern slopes. The site includes some areas of mixed woodland, in which Beech (*Fagus sylvatica*), Sycamore (*Acer pseudoplatanus*), Scot's Pine (*Pinus sylvestris*) and other exotics occur. Bryophytes are notably scarce within the valley and may reflect the dryness of the site, however, some rare species have been recorded.

A narrow band of alluvium associated with a small stream occurs on the valley floor. There, the woodland is dominated by Ash (*Fraxinus excelsior*) and Hazel (*Corylus avellana*), with a species-rich herb layer that includes Ramsons (*Allium ursinum*), Dog Violet (*Viola riviniana*) and Bluebells (*Hyacinthoides non-scripta*). A breeding bird census carried out in 1990 recorded a total of 21 species holding territory. Wren, Robin, Blue Tit, Chaffinch and Great Tit were the most abundant

species. Blackcap and Jay also breed, and the rare Wood Warbler has been recorded. Grey Wagtail breeds along the stream. The site is notable for the presence of the rare bryophytes, *Cephaloziella turneri*,

Pterigynandrum filiforme and Plagiothecium curvifolium, the last named in its only Irish site, as well as for several rare or scarce Myxomycete fungi, namely Echinostelium colliculosum, Licea marginata, L. perexigua, Perichaena vermicularis, Comatricha ellae (only known Irish site), Diderma chondrioderma and Didymium crustaceum.

Glen of the Downs is also notable for some rare invertebrates, including *Mycetobia obscura* (Diptera) which is found in only one other locality in Britain and Ireland. The glacial overflow channel is the largest example of such a feature in the country. Although exploited heavily in the past, this woodland is well developed, rich in species and one of high conservation significance. The site supports Oak woodland of a type that is listed on Annex II of the EU Habitats Directive.



Figure 3.4 Natura 2000 sites outside plan boundary

Natural Heritage Areas (NHAs)

The basic designation for wildlife is the Natural Heritage Area (NHA)⁸. This is an area considered important for the habitats present or which holds species of plants and animals

⁸ All Natural Heritage Areas (NHAs) in County Wicklow are "proposed" and are protected through the planning legislation and the Wildlife Acts.

whose habitat needs protection. NHAs within the county represent a significant biodiversity resource and again, the range of habitats and species found in these sites vary considerably.

Table 3.3: p NHA within the plan boundary:

•	Summary
boundary	
Bray Head(pNHA)	The NHA designation is the basis for the protection of Irish natural habitats and is a national designation. NHAs include the best of Ireland's remaining natural habitats and encompass 1,246 sites. The NHA designation evolved from the Area of Scientific Interest (ASI) designation. NHAs have statutory protection under The Wildlife (Amendment) Act 2000. The statutory body with responsibility for NHAs is the Department of Environment, Community and Local Government. The southerly extension of the Bray Head SAC extends into the northern aspect of Greystones LAP boundary. The properties of the p NHA are similar to that of the Bray Head SAC as outlined above

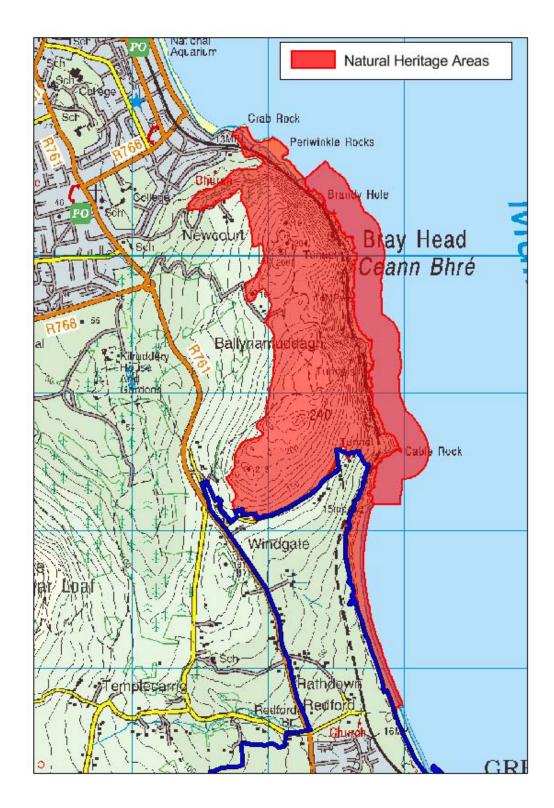


Figure 3.5 NHAs within plan boundary

Table 3.4: p NHA outside the plan boundary

NHAs outside	plan	Summary
boundary		
Murrough (p NHA)		The Murrough Wetlands p NHA runs along the coastline in Kilcoole. The properties of the p NHA are similar to that of the SAC as outlined above. ⁹



Figure 3.6 NHAs outside plan boundary

⁹ National Parks and Wildlife (2005) *Site Synopsis for the Murrough Wetlands proposed Natural Heritage Area(000730)*Dublin: Government of Ireland

3.4.3 Habitats, Habitat Indicator Mapping and Ecological Networks

Figure 3.7 illustrates the Corine Land use classification for Greystones-Delgany and Kilcoole. Corine Land Cover mapping classifies land cover under a number of headings. The Local Biodiversity Areas study 2006¹⁰ identifies a number of locally important habitats in the Greystones-Delgany settlement area, while a Countywide Wetland Survey carried out in 2011 further identifies wetland habitats and potential wetland habitats which were based on underlying soil and desk top research.

The key habitat types in the Plan area are outlined as follows:

- The Coast: The coastal strip of the plan area stretches from north of Greystones Harbour, south to Charlesland. The boundary of the Greystones-Delgany settlement includes part of Bray Head SAC and finishes approximately 2km north of 'The Murrough' Natura 2000 site. The Kilcoole settlement is connected to the coast and 'The Murrough' via Sea Road. Taken as a whole, the coastal strip in the Plan area provides connectivity between The Murrough and Bray Head Natura 2000 sites. The habitats along the coastal strip include Shingle and Gravel Banks, Sedimentary Cliffs, Dry Siliceous Heath, Exposed Rocky Shores, Sandy Beach, Dry Meadows and Grassy Verges. Seabirds such as Oystercatcher and Turnstones have been recorded here, along with Brent Goose, Sand Martin, Peregrine Falcon and Kestrel, while and Grey Seals are known to frequent the sea in this area. Man made habitats along the coast support less species diversity and include the Sea Walls, Piers and Jetties along with Earth Banks, Stonewalls, Spoil and Bare Ground.
- The Three Trout River This river stretches from the Glen of the Downs cSAC to the sea, making this a very important ecological network. It contains a good variety of habitats including Wet Grassland; Marsh; Scrub; Recolonising Bare Ground; Oak Birch Holly Woodland; Tree lines; Amenity Grassland; Eroding Upland Rivers; Depositing Lowland Rivers; Stone Walls and other Stonework and Hedgerows. The habitats associated with this area support a good species diversity that includes Sea Trout, Common Eel, Common Frog, birds such as Dipper and Heron and trees such as Oak, Birch, Holly, and Willow. The stream is extremely vulnerable to human based pressure and the presence of wet grassland and marsh in areas along the Three Trout River would indicate that areas adjacent to this stream are liable to flooding.
- Old buildings/ stone walls: Ruined and older buildings within the Plan area are known
 to provide habitats for bat species and for Barn Owl. The stone walls associated with
 the old graveyards and church ruins at Kilcoole and Delgany and the site of St
 Crispin's Cell, Greystones provide a good habitat for mosses, lichens and a variety of
 plants and animals. The biodiversity value of these areas is enhanced by having
 associated trees, scrub and unimproved grassland habitats in their vicinities.
- Agricultural Fields: There are areas of agricultural grassland within the Plan area,
 most notably on the lower slopes of Bray Head and around Kilcoole Convent farm
 and close to Sea Road. Unimproved grassland can provide a species rich diversity of
 wild plants. Areas of arable land within the Plan area provide habitats for flora and
 invertebrates in the field margins. The presence of hedgerows between fields greatly
 increases the biodiversity value of these areas, providing ecological corridors for
 migration of plant and animal species throughout the plan area and the wider
 countryside.
- Wooded areas; There are several trees within the Plan area that are included in the Wicklow County Development Plan 2010-2016 as 'worthy of preservation', while mature trees at Kindlestown Rise are subject to a Tree Preservation Orders. Many of the mature trees in the Plan area occur within private gardens and, in the case of

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¹⁰ The Local Biodiversity Areas Study 2006, commissioned by Wicklow County Council.

Greystones, as street trees along Church Road. These are generally mixed native and non native species including Oak, Lime, Hornbeam, Horse Chestnut, Beech, Scots Pine and Corsican Pine. Other species such as Ash, Sycamore, Rowan and birch are more common in hedgerows.

- Wetland sites: Wetlands include both natural and man made areas where biogeochemical functions depend on periodic and/or constant inundation or saturation by water. Wetlands provide a variety of essential ecosystem services including flood abatement and control, sequestering and removing pollutants and sediments in water and supporting biodiversity. The Three Trout River, The Redford River, Kilcoole River and the Newtownmountkennedy River along with their associated riparian habitats occur within the Plan area. The Murrough Wetlands is a Natura 2000 site which adjoins the Kilcoole settlement boundary.
- Amenity grassland: This type of species is of poor improved grassland and is used for playing fields and open spaces around the Plan area. These grasslands have been reseeded and are regularly mown to maintain very short swards.

3.4.4 Ecological Networks

The various habitats in the County form part of an "ecological network" that facilitates the movement of species between areas and ensures the effective functioning and survival of the diverse range of habitats and species. As per Article 10 of the Habitats Directive, the Plan has a role to play in improving the ecological coherence of the Natura 20000 network through the management of landscape features which are of major importance for wild flora and fauna. The maintenance and enhancement through land use planning and development policies, of the features and habitats as set out above, has the potential to enhance greatly the ecological coherence of Bray Head, Glen of the Downs and The Murrough Natura 2000 sites.

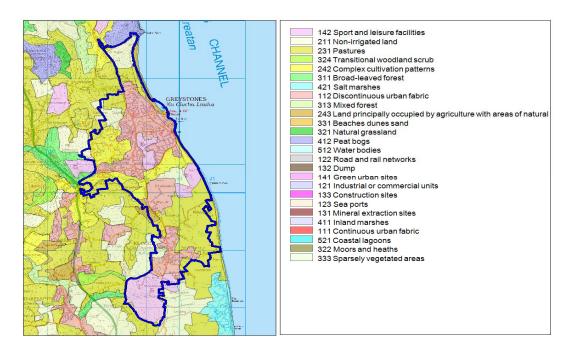


Figure 3.7 Corine Land Cover

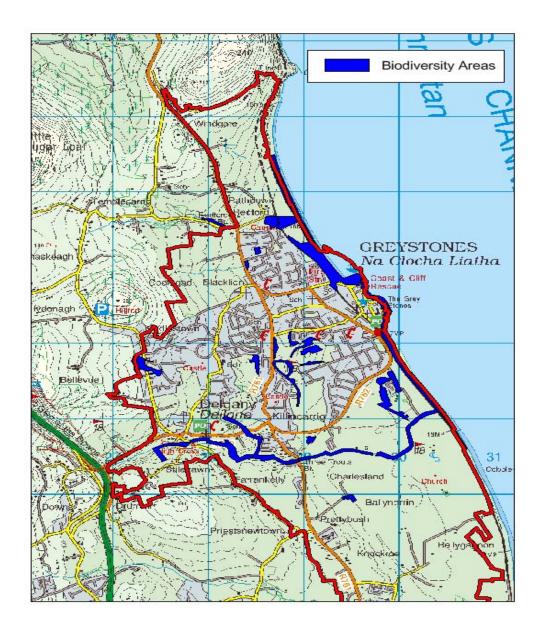


Figure 3.8 Local Biodiversity Area

3.4.5 Existing Environmental Problems

- Designated Sites and Connectivity as set out above there are a number of ecological networks throughout the plan area. Increased development pressures as a result of the growth projections on the plan areas may result in the development of the town on greenfield lands and / or the removal of trees / hedgerows which may impact on these networks and the integrity of the designated areas. Ecological networks have been adversely impacted upon by the development of infrastructure such as roads which result in the habitat fragmentation as well as development of housing which results in the removal of hedgerows.
- Terrestrial Biodiversity, Flora and Fauna over time ongoing road and building developments within the study area have impacted upon diversity, flora and fauna with

semi-natural habitats replaced by artificial surfaces as indicated by the discontinuous urban fabric shown on Figure 3.8. With regard to terrestrial flora and fauna, all greenfield development in the area causes an impact –the replacement of natural and semi-natural habitats with artificial surfaces results in loss of flora and fauna and therefore adversely impacts upon this environmental component. The significance of the impact of greenfield development depends on whether individual greenfield developments result in the loss of habitats or species of importance together with the cumulative amount of habitats and species lost and fragmented as a result of all greenfield developments. It is noted that development of brownfield sites and re-development can also have impacts on terrestrial flora and fauna.

While data is generally lacking on the presence of invasive species within the Plan area, ongoing vigilance is required in this regard given the potential threat of these species to biodiversity, public health and economic assets. Local authorities and others have an obligation under the European Communities (Birds and Natural Habitats) Regulations 2011 to ensure that these species are not introduced or dispersed, whether intentionally or accidentally through their activities. The transportation and reuse of vector material in the form of soil and spoil which is contaminated by invasive Knotweed species is one of the main causes of dispersal.

3.4.6 Evolution of Biodiversity, Flora & Fauna in the absence of the Plan:

In the absence of a local area plan for Greystones -Delgany and Kilcoole development would have no guidance as to where to be directed and planning applications would be assessed on an individual basis with flora and fauna, habitats and ecological connectivity protected under international, national and county objectives. The evolution of biodiversity and flora would be dependant on the rate and extent of any such developments which would take place and these developments would be considered with regard to the County Development Plan 2010-2016.

3.5 Population and Human Heath

3.5.1 Population

Greystones-Delgany is designated a 'Large Growth Town 2' and Kilcoole is designated a 'Small Growth Town' in the Wicklow County Development Plan 2010-2016.

Table 3.5 and 3.6 sets out below the past population trends and future population targets for the settlements of Greystones-Delgany and Kilcoole. In considering these figures, it should be noted that the boundaries used by the Census differ to the settlement boundaries of the Greystones-Delgany Local Area Plan (LAP) 2006-2012 and the Kilcoole Local Area Plan (LAP) 2008-2014. The table includes a re-calculation of the population of the two settlements, having regard to the boundaries as set out in the current Local Area Plans. This re-calculation indicates that the 2011 population of the Greystones-Delgany and Kilcoole settlements are 17,208 and 4,063 respectively. As per the strategy, the population of Greystones-Delgany is to grow to a target population of 21,000 by 2016 and 24,000 by 2022. Likewise the population of Kilcoole is to grow to a target population of 4,500 by 2016 and 5,000 by 2022.

Table 3.5: Greystones-Delgany & Kilcoole

Year	Source	Greystones-Delgany	Kilcoole
2002	2002 Census	11,913	2,826
2006	2006 Census	14,569	3252
2011	2006 Census	17,468	4,049

Table 3.6: LAP Population Figures

Year	Source	Greystones-Delgany	Kilcoole
2011	2011 Settlement Boundary(Greystones- Delgany LAP 2006- 2012,Kilcoole LAP 2008-2014	17,208	4063
2016	CDP Indicative Target Population(CDP 2010- 2016)	21,000	4,500
2016	CDP Indicative Target population(CDP 2010-2016	24,000	5,000

As set out in Section 2 of the LAP, there is a need for 3765 residential units in Greystones-Delgany and 775 residential units in Kilcoole up to 2022. Although the proposed new plan will have a lifespan up to 2019 it is considered appropriate to plan for the future growth of the plan area up to 2022.

3.5.2 Employment

In relation to the employment potential of Greystones-Delgany and Kilcoole, from analysis undertaken there is a total requirement within the two plan areas of 7,000 jobs by 2022.

3.5.3 Human Health

As health is influenced by many factors in the social and built environment including housing, employment status and transport, as well as the impacts of air quality, water quality, flooding and access to green space; good planning can play an important role in promoting a healthy society. Greystones-Delgany and Kilcoole has a wide variety of housing types, employment sectors, good transport links, good air quality and water quality and access to green space. In addition, the population has access to a range of health facilities which improve the overall health and well being of the population. Of vital importance to health is the level of green space and access to the natural environment. Open space provision can improve level of exercise in a community which can impact on obesity and can improve social interaction and community activities which can contribute to reducing stress-related problems

These factors have been considered with regard to the description of: the baseline of each environmental component, and; the identification and evaluation of the likely significant environmental effects of implementing the plan and alternatives.

3.5.4 Existing Environmental Problems

While the majority of the residential units in Greystones-Delgany and Kilcoole are connected to the waste water treatment systems there are a number of properties in Delgany that are served by septic tanks. Such systems require continual maintenance in order to avoid pollution of groundwater. Untreated waste water from inefficient septic tanks may have significant negative effects on human health, due to pollution of wells.

3.5.5 Evolution of Populations and Human Health in the absence of the Plan

The County Development Plan Core Strategy has identified a target population growth for Greystones-Delgany and Kilcoole. Given the growth patterns in both plan areas, ensuring appropriate, sustainable settlement patterns including the provision of the necessary planning framework to accommodate educational, community, leisure and recreational facilities to

satisfactorily match the level of population growth is a key planning issue for the future of the plan areas. In the absence of a LAP there would be no framework directing developments to appropriate locations and this would have the potential to result in adverse impacts upon environmental components which would negatively affect human health.

In the absence of a Local Area Plan the provision of transport links and identification of appropriate lands for open space/playgrounds would be limited, which would have a direct impact on the health of the local residents.

3.6 Climate and Air Quality

3.6.1 Introduction

Ireland has an abundance of rainfall with low evapo-transpiration, high humidity, mild winters (4.5 degrees) and cool summers (15.5 degrees) (IFA, 2004). A recent publication from the EPA (2009) "Climate Change-Refining the Impacts for Ireland" outlines predictions in relation to Irish climate and conditions to the end of this century. Climate Change refers to changes in climatic conditions whether through natural variations or as a result of anthropogenic influences. It is expected that temperature in Ireland will rise, with drier summers, wetter winters and more variable precipitation patterns and temperature in the coming years. It is explained that the changes likely to be experienced are due to increasing amounts of CO2 and other greenhouse gases in the atmosphere which are continually rising. It is estimated that global temperature change by 2100 will be 1.8 degrees-4 degrees. Mean annual temperatures in Ireland rose by 0.7 degrees over the past century. It is expected that mean temperatures will rise by 1.4-1.8 degrees by 2050 and by over 2 degrees by 2100. Summer and autumn temperatures will warm more quickly than winter and spring.

Winter rainfall is projected to increase by 10% by 2050 and 11-17% by 2080. Reductions in summer rainfall of 12-17% by 2050 and 20-28% by 2080 are expected and there will be a likelihood of longer heat waves, fewer days of frost, longer rainfall events

All developments, agriculture, energy generation, industry and commercial activity and waste generation contribute emissions to air and greenhouses gas (GHG) emissions; however the emissions of pollutants from vehicles is one of the main threats to air quality in Ireland and contributes significantly to the increase of green house gases. Under the Kyoto Protocol Ireland agreed to a target of limiting its greenhouse gas emissions to 13% above 1990 levels by the first commitment period 2008-2012 as part of its contributions to the overall EU target. The "National Climate Change Strategy 2007-2012" builds on the Government's commitment to sustainable development as outlined in "Towards 2016" and the "National Development Plan 2007-2013" and is one of a number of inter-related Government initiatives that will address energy and climate change issues. It sets out targets in relation to: energy supply; transport; residential; industry, commercial and services; agriculture, land-use and forestry, waste, public sector; cross sectoral, adaption to climate change; and implementation, reporting and review.

The National Climate Change Strategy states that "Local authorities can have a significant influence over emissions in their local areas, both directly in relation to reducing emissions through their own energy use and procurement activities, in raising awareness and stimulating action in local communities, and indirectly through the exercise of their housing, planning and other statutory functions".

In order to protect human health, vegetation and ecosystems, EU Directives set down air quality standards in Ireland and the other Member States for a wide variety of pollutants. These pollutants are generated through fuel combustion, in space heating, traffic, electricity generation and industry and in sufficient amounts could affect the well being of the areas inhabitants. The EU Directives includes details regarding how ambient air quality should be monitored, assessed and managed.

The principles to this European approach are set out under the Air Quality Framework Directive 1996 as transposed into Irish law under the Environment Protection Agency Act 1992 (Ambient Air Quality Assessment and Management) Regulations 1999 (SI No.33 of 1999).

Four Daughter Directives lay down limits or thresholds for specific pollutants. The first two of these directives cover sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead; and carbon monoxide and benzene. Two further daughter directives deal with ozone; and polyaromatic hydrocarbons, arsenic, nickel, cadium and mercury in ambient air.

In order to comply with these directives, the EPA measures the levels of a number of atmospheric pollutants. For the purposes of monitoring in Ireland, four zones are defined in the Air Quality Standards Regulations 2002(SI No.271 of 2002). The main areas defined in each zone are:

Zone A: Dublin Conurbation
Zone B: Cork Conurbation

Zone C: Other cities and large town comprising Galway, Limerick, Waterford,

Clonmel, Kilkenny, Sligo, Drogheda, Wexford, Athlone, Ennis, Wicklow,

Naas, Carlow, Tralee and Dundalk

Zone D: Rural Ireland, i.e. the remainder of the State - small towns and rural areas of

the country - excluding Zones A, B and C.

The Plan area is located in Zone D.

There is currently no ambient air quality monitoring in the plan area with past monitoring stations in Bray.

While Air Quality within the general study area is not considered to be a significant issue it is noted that the traffic generated due to its urban location contributes to higher emission readings.



Figure 3.9 Air Quality

3.6.2 Noise

Noise is unwanted sound. It can seriously harm human health and interfere with daily activities at school, at work, at home and during leisure time. The main health risks of noise identified by the WHO include: pain and hearing fatigue; hearing impairment, annoyance,

interferences with social behaviour, interference with speech communication; sleep disturbance and all its consequences; and performance at work and school. Within the proposed plan area the places most commonly affected by noise is within the built up area of the two towns and along the heavy trafficked roadways

The over-riding noise source within the plan area is from traffic. The existing town and village centres within the two plan areas have high traffic counts as well as enclosing main street buildings which are likely to have elevated levels of air pollution and noise due to traffic congestion.

3.6.3 Potential Effects of Climate Change

The EPA's "Climate Change: Regional CLIMATE Model Predictions for Ireland" (2005) report ¹¹provides an analysis of future Irish climate conditions for the period 2012-2060 based on the outputs from a new regional climate modelling facility located in Met Eireann.

As increased temperatures will lead to greater amounts of water vapour in the atmosphere and an accelerated global water cycle, it is reasonable to expect the local river systems will be exposed to a greater risk of flooding. The increase in winter precipitation will be likely to produce a significant increase in the more intense discharge episodes, raising the risk of future flooding.

3.6.4 Existing Air and Climate Problems

The town and village centres of the plan areas are likely to have elevated levels of air pollution and noise due to traffic congestion. Greystones-Delgany and Kilcoole's location within the commuter belt for Dublin results in a large quantity of traffic movements in and around these towns. A positive approach would be to reduce private car trips. Reductions in private car movements will result in a reduction in emission such as PM10 and NOx.

Localised air pollution incidence with regard to PM10 and PM2.5 and noise pollution are both likely to occur when demolition/construction takes place - especially in relation to PM10 if suppression techniques are not introduced.

Irelands current emissions are exceeding targets agreed in the peer review of Ireland 2006 submission to the United Nations Framework Convention on Climate Change. It would appear that Ireland will not meet these targets and it is likely therefore that financial penalties will be incurred.

Changes in the sea level and/or changes in the occurrence of severe rainfall events as a result of climate change could adversely impact upon the areas human beings, its biodiversity and its economy

3.6.5 Evolution of Climate and Air Factors in the absence of the Plan

In the absence of a LAP there would be no framework for the location of new development and as a consequence development would be likely to occur in a piecemeal fashion, spread out across wider areas than otherwise may be the case. This would result in significant increases in travel related emissions to air.

While increases in the use of catalytic convertors, cleaner fuels, better engine technology and maintenance is generally reducing the pollution emitted per motor vehicle, this reduction is

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¹¹ Climate Change: Regional Climate Model Predictions for Ireland ERTDI Report 36 - Mc Grath et al. An analysis of future Irish climate conditions for 2021–2060, based on outputs from a new regional climate modelling facility in Met Éireann

more than likely offset by the increase in the number of cars as well as the increase in the volume and incidences of traffic congestion. Increases in the number of cars as well as the increase in volume and increases of traffic congestion may lead to increases in air and noise pollution in the future.

In the absence of a LAP, the realisation of objectives relating to energy efficiency, renewable energy and a reduction in transport related emissions contained within the Local Area Plan would be made more difficult. If new development or an intensification of existing land uses were to occur in the plan area adverse impacts upon air quality and noise levels, and resultant impacts on human health, would likely to arise if unmitigated.

3.7 Material Assets

3.7.1 Water Resources

The water resources of the region comprise surface waters including rivers, lakes, transitional and coastal water, and ground water. These resources are utilised for a wide range of uses including potable water, industry, amenity, agriculture and in the substance of ecosystems. Consequently water is an extremely important resource and needs to be managed appropriately to ensure that its quality is maintained and its availability is not compromised.

The Plan area falls within the catchment of the Eastern River Basin District (ERBD) and as such, much information regarding this environmental baseline is derived from the Eastern River Basin Management Plan (ERBMP)¹² and from the Environmental Section of Wicklow County Council.

The Eastern RBMP takes into account lakes, rivers, groundwater, transitional and coastal waters. Information on the status and pressures on water bodies can be derived from the ERBD data base.

The following water bodies are of relevance to the plan area-

- The Three Trout River water body (EA_10_1461 Delgany), which is of "Moderate" ecological status. The RBMP includes an objective to improve this status by 2021.
- There is one coastal water body within in the plan area (south-western Irish Sea -Killiney Bay) which is of "High" ecological status. The RBMP includes an objective to maintain this status.
- There are 2 ground water bodies in the Greystones-Delgany area: Greystones Urban (EA_G_032) – and Wicklow East PP (EA G 004) which is of "Good Status". The RBMP includes an objective to protect this status.
- There are 2 ground water bodies in the Kilcoole area: Kilcoole S&G (IE_EA_G_036) and the Wicklow East (IE_EA_G_004) which are of "Good Status". The RBMP
 includes an objective to protect this status.

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¹² The Eastern River Basin District Management Plan 2009-2015 is a plan for the implementation of the EU Water Framework Directive, which commits all member states to preventing deterioration and achieving at least good status in our rivers, lakes, estuaries, coastal and ground waters by the year 2015. The Plan describes actions that are proposed to ensure the necessary protection of waters over the coming years. It sets out how the aims and objectives of improving and protecting water quality and ecology in the waters of each river basin district could be achieved, by means of a Programme of Measures.

The Kilcoole Marsh (IE_EA_120_0100) is a Transitional (Estuarine) Waterbody¹³. It is at "Moderate Status". The RBMP includes an objective to improve this status by

¹³ Transitional waters are bodies of surface waters in the vicinity of river mouths which are partly saline in character as a result of their proximity to coastal waters but which are substantially influenced by freshwater flows.



Figure 3.10 Water Bodies in the plan area.

3.7.2 Groundwater

Groundwater is a 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 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 Water Framework Directive (WFD) Groundwater is important as a drinking water supply as well as the supply to surface waters across the Region. Groundwater is exposed to higher concentrations of pollutants that are retained in the layers of rock and soil (Todd, 1980). The exposure to pollutants lasts much longer as groundwater moves at a slower pace through the aquifer. The quality of drinking water supply, fisheries and terrestrial based habitats is intrinsically linked with ground water quality. The Geological Survey of Ireland aquifer categories are based on their vulnerability to pollution i.e. the ease of which it can enter the subsurface layers. Aquifers described with "good development potential" are more sensitive to pollution than aquifers with "poor development potential". Similarly aquifers of "high or extreme vulnerability" are more sensitive to pollution.

The WFD identifies much of the groundwater within the plan area as 'Moderate' to 'Good' water status.

3.7.3 Drinking Water Supply

Greystones-Delgany and Kilcoole are served by the Vartry Waterworks at Roundwood (owned and managed by Dublin City Council). Whilst most of Greystones is served by the Drummin Reservoir, the Charlesland area is served from a combination of the Drummin and Priestsnewtown Reservoir, which also serves Kilcoole. The Kindlestown Hill area of Delgany cannot be gravity fed from the Drummin Reservoir due to height constraints and is therefore fed by a direct connection from the Dublin City Council trunk main. There are a number of properties in the Kindelstown area that have their own private water supply. In general it is considered that there is an adequate supply of water to provide for the needs of the targeted population of the area up to 2022.

3.7.4 EPA REMEDIAL Action List

As part of its supervisory role under the 2007 Drinking Water Regulations, the EPA prepares a list of public water supplies where remedial action or management action is required to ensure compliance with the requirements of these Regulations into the future. This list is called the Remedial Action List for Public Drinking Water Supplies (RAL).

The most recent report¹⁴ on the provision and quality of drinking water indicates that the Greystones-Delgany and Kilcoole is included on the Remedial Action List (RAL) due to levels of THMs (trihalomethanes), which are above the limits set out by the EC (Drinking Water) (No.2) Regulations 2007. Trihalomethanes are formed as a by-product predominantly when chlorine is used to disinfect water for drinking.

3.7.5 Drinking Water Conservation

Wicklow County Council is involved in the Dublin Region Water Conservation Project, which aims to conserve the regions scarce water resources through measures focused on reducing leakage in the system.

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¹⁴ "The Provision and Quality of Drinking Water in Ireland-A report for the year 2010" (EPA 2011).

3.7.6 Waste Water Treatment and Disposal

Wastewater in the Greystones-Delgany area is currently treated at the Greystones Waste Water Treatment Plant (WWTP) at Woodlands, Greystones. This treatment plant receives wastewater from Greystones and its environs including Delgany, Rathdown, Kilcoole and Newtownmountkennedy. The plant was designed with a nominal wastewater treatment capacity of 30,000 p.e. (population equivalent). Works commenced on the 3rd October 2011 to upgrade the treatment capacity of the plant to 40,020 p.e. These works are due for completion by March 2013. It should be noted that large sections of low density residential areas in the Kindlestown and Blackberry Lane areas of Delgany are served by private wastewater treatment plants. In the future it would be desirable to limit the further development of private wastewater treatment plants and to facilitate the connection of unsewered areas to existing and planned sewer connections, where possible.

The wastewater in the Kilcoole and environs agglomeration is served by a secondary waste water treatment plant located off Sea Road, Kilcoole, to the south-east of Kilcoole village. The plant treats all waste waters arising in the north and middle of the village with all other areas in the village being collected in a separate foul sewer system and conveyed to the Greystones WWTP for treatment as outlined above. This treatment plant is designed to treat a population equivalent of 3,000 p.e. The plant requires upgrading in order to meet the conditions of its licence. Until these upgrades are completed, the ability of the plant to accept the wastewater from any additional development is severely restricted. While it is most desirable that waste waters arising from the north and middle of the village area served by the Kilcoole WWTP, in certain cases, subject to the agreement of the Water Services Section of the Council, waste water from these lands can be pumped to the Greystones WWTP. While it is most desirable that waste waters arising from the north and middle of the village area served by the Kilcoole WWTP, in certain cases, subject to the agreement of the Water Services Section of the Council, waste water from these lands can be pumped to the Greystones WWTP.

Wicklow County Council has developed a proposal for the construction of a new 22,000 p.e WWTP at Leamore, Co. Wicklow (which is south of Kilcoole) and associated sewer network and connections. It is expected that this plant will eventually treat all waste waters arising in the villages of Newcastle, Newtownmountkennedy, Kilpedder and Kilcoole. This proposal shall be completed in phases, with the final phase being the construction of the new WWTP at Leamore and connection of the sewer network. It is not however envisaged that this WWTP will be constructed in the short to medium term.

It is considered that there is sufficient capacity in the wastewater treatment systems in the area to be provide for the needs of the targeted population of the area up to 2022.

3.7.7 Transportation Infrastructure

Greystones/Delgany is strategically located on the N11 national route which links Dublin to Rosslare Europort and the towns of Wicklow, Arklow, Gorey, Enniscorthy and Wexford. With the M50 motorway, the route provides a continuous dual carriageway/motorway link for Greystones/Delgany to Dublin Airport and via the M1 to Dundalk and the N7 to Portlaoise. The interchange of the Farankelly Road from Charlesland to the N11 provides a regional link for Greystones/Delgany and in turn eases congestion in Delgany and other parts of the settlement. The R761 county road connects Greystones/Delgany to Bray and to the settlements of Kilcoole and Newcastle to the south.

Greystones is serviced by the suburban rail and the DART services and in addition the Dublin – Rosslare Europort train stops at Greystones. There are a number of bus routes that operate between Dublin and Greystones with Delgany being served with a number of bus routes which pass on the N11. Kilcoole is also served on a number of bus routes and is a stop for the commuter train along the Dublin –Rosslare line.

3.7.8 Flood and Coastal Defences

In order to 'militate' against risk posed from flooding, alleviation works have been undertaken in the plan area. A number of culverts have been upgraded. As a measure to mitigate against the effects of costal erosion, rock armour protection has taken place along the Greystones shoreline.

Flooding

In accordance with the Floods Directive 2007/60/EU, the Department of Environment, Heritage and Local Government and the Office of Public Works (OPW) published "The Planning System and Flood Risk Management Guidelines for Planning Authorities" (November 2009). As part of the preparation of the Draft Regional Planning Guidelines 2010-2022, a Regional Flood Risk Appraisal was prepared in order to:

- Identify strategic flood risk and spatial planning issues for the area covered by the RPGs;
- Set out a policy framework for development plans and local area plans of planning authorities to address the flood risk issues arising at a regional level, and
- Outline with due consideration of the national flood risk assessment and management planning programme, any further requirements for flood risk assessments and/or studies.

To comply with the EU Floods Directive introduced in November 2007, and in line with the Guidelines for Planning Authorities "The Planning System and Flood Risk Management" an assessment of flood risk is to be undertaken as part of the preparation the plan, which is to incorporate an approach that aims to avoid development in areas at risk of flooding, and where development on floodplains cannot be avoided., to take a sequential approach to flood risk management based on reduction and mitigation of risk.

The Office of Public Works (OPW) National Flood Hazard mapping project provides information on records of flooding in the area. The following map illustrates the Flood Extents within the Plan Area. In accordance with the Flood Risk Management Guidelines (2009) the two flood extents illustrated in Figure 3.11 are the 1 in 100 and 1 in 1000 year flood event for the plan area.



Figure 3.11 Flooding Extents in Greystones-Delgany and Kilcoole

3.8 Key Environmental Problems for Material Assets

Potential issues with regard to material assets within the plan area are centered mainly on the maintenance of water quality and improving ground water supplies. Flooding has been an issue within certain areas of the plan over the years.

3.9 Evolution of Material Assets in the absence of the Plan

In the absence of a LAP there would be no framework directing developments to appropriate locations in and around the plan area. In particular there is need to monitor the wastewater treatment capacity to ensure it is properly managed and controlled and therefore would be much weaker if there was no plan in place. The existing plan area has good public transport links particularly via the railway system, improvements where necessary in the road network and public transport would assist in addressing traffic densities and localised air quality within the town core, therefore in the absence of a LAP this improvement in transport links would be curtailed. In the absence of a LAP, the implementation of the Flood Risk Guidelines would not occur.

3.10 Cultural Assets

3.10.1 Introduction

Heritage by definition, means inherited properties, inherited characteristics and anything transmitted by past ages and ancestors. It covers everything from objects and buildings, to the environment. Cultural Heritage includes physical buildings, structures and objects complete or in part, which have been left on the landscape by previous and indeed current generations.

The Wicklow County Development Plan 2010-2016, in line with the Planning and Development Act 2000 (as amended) and Government policy seeks to protect and conserve buildings, areas, structures and features of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest.

The most important items of archaeological and architectural heritage in the Greystones-Delgany and Kilcoole plan areas are set out in Chapter 16 of the Wicklow County Development Plan 2010-2016.

3.10.2 Archaeological Heritage

Archaeology is the study of past societies through the material remains left by those societies and the evidence of their environment. Archaeological heritage consists of such material remains (whether in the form of sites and monuments or artefacts in the sense of moveable objects) and environmental evidence. As archaeological heritage can be used to gain knowledge and understanding of the past it is of great cultural and scientific importance.

Archaeological sites and monuments vary greatly in form and date; examples include earthworks of different types and periods, (e.g. early historic ring forts and prehistoric burial mounds), megalithic tombs from the prehistoric period, medieval buildings, urban archaeological deposits and underwater features such as wrecks. Archaeological sites may have no visible surface features; the surface features of an archaeological site may have decayed completely or deliberately removed but archaeological deposits and features may survive beneath the surface. Such sites may sometimes be detected as crop-marks visible from the air or have their presence indicated by the occurrence of artefact scatters in ploughed land, but in other cases may remain invisible unless uncovered through ground disturbance.

Archaeology in Ireland is protected under the National Monuments Acts 1930 to 2004. The following table indicates the sites on the Sites and Monuments Recorded for the functional area of the plan and Figure 3.12 illustrate the location of these sites.

Table 3.7: Site and Monuments Recorded for the Plan Area

		Location
WI02147	Burnt spread	KILLINCARRIG
	Enclosure	BALLYNERRIN (Newcastle
WI00598		By., Kilcoole ED)
WI00372	Redundant record	RATHDOWN UPPER
WI00393	Redundant record	RATHDOWN LOWER
WI00394	Redundant record	RATHDOWN LOWER
WI00376	Castle – unclassified	RATHDOWN UPPER
WI00377	Field system	RATHDOWN UPPER
WI00378	Church	RATHDOWN UPPER
WI00379	Graveyard	RATHDOWN UPPER
WI00391	Castle - hall-house	KINDLESTOWN UPPER
WI00392	Ringfort – unclassified	RATHDOWN LOWER
WI00587	Church	DELGANY
WI00588	Graveyard	DELGANY
WI00589	Cross - High cross	DELGANY
WI00590	Font	DELGANY
	House - 16th/17th	
WI00591	century	KILLINCARRIG
		BALLYNERRIN (Newcastle
WI00599	Church	By., Kilcoole ED)
		BALLYNERRIN (Newcastle
WI00600	Stone sculpture	By., Kilcoole ED)
WI00592	Enclosure	CHARLESLAND
WI00593	Enclosure	CHARLESLAND
WI00627	Redundant record	WOODSTOCK DEMESNE
WI00594	Enclosure	CHARLESLAND
WI00595	Enclosure	CHARLESLAND
WI00596	Redundant record	KILLINCARRIG
		BALLYNERRIN (Newcastle
WI00597	Enclosure	By., Kilcoole ED)
WI00613	Redundant record	CHARLESLAND
WI00614	Redundant record	CHARLESLAND
WI00621	Church	KILCOOLE
WI00622	Graveyard	KILCOOLE
WI00623	Font	KILCOOLE
WI00624	Ritual site - holy well	KILCOOLE
WI02080	Bullaun stone	DELGANY
WI02077	Enclosure	COOLAGAD
WI02031	location)	KILCOOLE
WI02032	Redundant record	KILCOOLE
WI02033	Redundant record	KILCOOLE
	Entity ID	WI02147 Burnt spread

2333 WI02034 Redundant record KILCOOLE 2337 WI02040 Redundant record KILCOOLE 2338 WI02041 Redundant record KILCOOLE 2335 WI02085 Fulacht fia RATHDOWN UPPER 2361 WI02107 Moated site RATHDOWN UPPER 2363 WI02110 Bawn KILCOOLE 2377 WI02144 Cross-slab KILCOOLE 2379 WI02641 Fulacht fia KILLINCARRIG 649 WI02641 Fulacht fia KILLINCARRIG 649 WI02641 Fulacht fia KILLINCARRIG 659 WI02652 Fulacht fia CHARLESLAND 2660 WI02653 Enclosure CHARLESLAND 2661 WI02654 miscellaneous KILLINCARRIG 2662 WI02655 Habitation site FARRANKELLY 2663 WI02656 Fulacht fia KILLINCARRIG 2665 WI02657 Habitation site CHARLESLAND 2666 WI02658 </th <th></th> <th></th> <th></th> <th></th>				
2338 Wi02041 Redundant record KILCOOLE 2355 Wi02085 Fulacht fia RATHDOWN UPPER 2361 Wi02107 Moated site RATHDOWN UPPER 2363 Wi02110 Bawn KINDLESTOWN UPPER 2377 Wi02144 Cross-slab KILCOOLE 2379 Wi02146 Burnt spread KILLINCARRIG 2649 Wi02641 Fulacht fia KILLINCARRIG 2649 Wi02649 miscellaneous RATHDOWN UPPER 2650 Wi02659 Fulacht fia CHARLESLAND 2659 Wi02652 Fulacht fia CHARLESLAND 2660 Wi02653 Enclosure CHARLESLAND 2661 Wi02654 miscellaneous KILLINCARRIG 2662 Wi02655 Habitation site FARRANKELLY 2663 Wi02656 Fulacht fia KILLINCARRIG 2665 Wi02657 Habitation site CHARLESLAND 2666 Wi02659 Ring-ditch CHARLESLAND 2667 <	2333	WI02034	Redundant record	KILCOOLE
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2377 WI02144 Cross-slab KILCOOLE	2361	WI02107	Moated site	RATHDOWN UPPER
2379 WI02146 Burnt spread KILLINCARRIG	2363	WI02110	Bawn	KINDLESTOWN UPPER
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2659 WI02652 Fulacht fia CHARLESLAND 2660 WI02653 Enclosure CHARLESLAND 2661 WI02654 Excavation — 2662 WI02655 Habitation site FARRANKELLY 2663 WI02656 Fulacht fia KILLINCARRIG 2665 WI02657 Habitation site CHARLESLAND 2666 WI02658 Habitation site CHARLESLAND 2667 WI02659 Ring-ditch CHARLESLAND 2668 WI02660 Habitation site CHARLESLAND 2673 WI02661 Fulacht fia CHARLESLAND 2674 WI02662 Habitation site CHARLESLAND 2690 WI02668 Road - hollow-way DELGANY 2696 WI02694 Burnt mound KILLINCARRIG 2697 WI02695 Burnt mound CHARLESLAND 2749 WI02797 Fulacht fia KILLINCARRIG 2750 WI02806 Furnace KILCOOLE 2768 WI02817			Excavation –	
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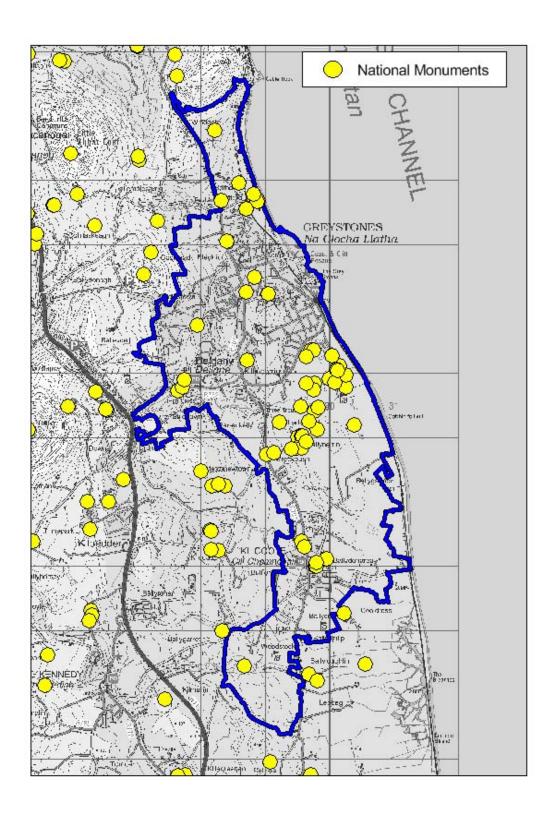


Figure 3.12 Recorded Monuments in Greystones-Delgany and Kilcoole

3.10.3 Architectural Heritage

The Planning and Development Act 2000(as amended) allows for the listing of important structures in the County Development Plan in order to provide protection to these structures which must be of special architectural, historical, archaeological, artistic, social or technical interest.

Details of the protected structures are entered by the authority in its Record of Protected Structures which is part of the Development Plan. Figure 3.13 illustrates the protected structures within the plan area. There is wealth of protected structures located within the plan area.

Table 3.8: Record of Protected Structures

RPS Number	Structures	Location
THE STREET	Structure	
08-03	Entrance gates	Bellevue
08-07	Dwelling House	Cherry House Killincarrig Delgany
08-08	Ruined church and graveyard	Delgany Old Graveyard
08-09	Dwelling house	Delgany Health Centre
08-10	Public house	Delgany Inn
08-11	School	Delgany Old School House
08-12	Hand pump	Delgany
08-13	Public house	Delgany Main Street Wicklow Arms
08-14	House	Delgany Main Street Arts and Crafts house
08-15	House and monastery	Delgany Carmelite Monastery
08-16	Church	Delgany, Christchurch Church of Ireland
08-18	Dwelling House	Delgany, Old Rectory,
08-19	Dwelling House	Malvern, Delgany.
08-20	Thatched house	Thatched house, Delgany (On the West side of the road up the East side of the Belleview demesne)
08-21	17th century house	Kindlestown Castle
08-22	Pillar Box	Greystones. Whitshed Road
08-23	Dwelling House	Greystones Pavilion Road The Shrubberies
08-24	Library	Greystones Public library
08-25	Pillar box	Greystones Portland Road
08-26	House and shopfront	Greystones Killincarrig Road 'Nature's Gold'
08-27	House and shopfront	Greystones Killincarrig Road 'Ireton'
08-28	Dwelling house	Greystones. Whiteshed Road Moorlands
08-29	17th century house	Killincarrig Castle Greystones
08-30	Mill buildings	Killincarrig Farm House Greystones
08-31	Post box	Rath Delgany Road
08-32	Pillar box	Greystones Killincarrig Road Letter box
08-35	Church	Greystones, Blacklion St.Kilian's Catholic church
08-36	Pillar box	Greystones Blacklion

08-37	Terrace House	Greystones Bayswater
		Terrace Harbour Lodge
08-38	Semi-detached house	Greystones, Victoria Road, Duncairn
08-39	Cottage	Greystones Trafalgar Road Emily Lodge
08-40	Semi-detached house	Greystones Trafalgar Road No 1 Emily House
08-41	Semi-detached house	GreystonesTrafalgar Road No 2 Emily House
08-42	Semi-detached house	Greystones Trafalgar No 3 Emily House
08-43	Terrace House	Greystones Cliff Road Cliff House
08-44	Dwelling house	Greystones Cliff Road Carrig House
08-45	Coastguard station	Greystones Lifeboat houses
08-46	Church	Greystones Trafalgar Road Presbyterian church
08-47	Church	Greystones La Touche Road Catholic church
08-48	Semi-detached House and shop	Greystones Trafalgar Road 'R.J.Mooney'
08-49	Semi-detached House and shop	Greystones Trafalgar Road 'Sommerville' formerly 'S.Ferns'
08-51	Public House	Greystones, Harbour, 'The Beach House'.
08-52	Semi-detached house	Greystones, Trafalgar Road No1 (Triton House)
08-53	Semi-detached house	Greystones, Trafalgar Road No 2 (Triton House)
08-54	House	Greystones, Trafalgar Road No 3 Bethel
08-55	Terrace house	Greystones, Bayswater Terrace, Sharavogue
08-56	Terrace House	Greystones, Bayswater Terrace, Slievemore
08-57	Terrace House	Greystones, Bayswater Terrace Bayview
08-58	Terrace House	Greystones, Cliff Road Wavecrest
08-59	Letter box	Greystones, Victoria Road, Letter Box
08-60	Semi-detached house	Greystones, Victoria Road, Burlington
08-61	Coastguard station	Greystones. Garda Station and former Coastguard cottages.
08-62	Church	Greystones. Church Lane Church of Ireland
08-63	Railway station	Greystones. Church Road Railway Station
08-64	Dwelling House	Greystones, Cliff Road, Nutley
08-65	Terrace House	Greystones. Cliff Road Wavecrest
08-66	Dwelling house.	Greystones

08-67	Ruined church	Greystones, Cell of St Crispin
08-68	House and farm buildings	Greystones Captain Tarrant's
		Farmhouse
08-73	House	Stylebawn, Delgany
08-74	House	"Mancos", New Road.,
		Greystones
Kilcoole		
13-06	Cottage	Kilcoole Main Street
13-07	Terrace	Kilcoole Terrace of Council
		Houses
13-08	Country House	Kilcoole Holy Faith Convent
13-21	Country House	Ballydonera House,
		Newcastle

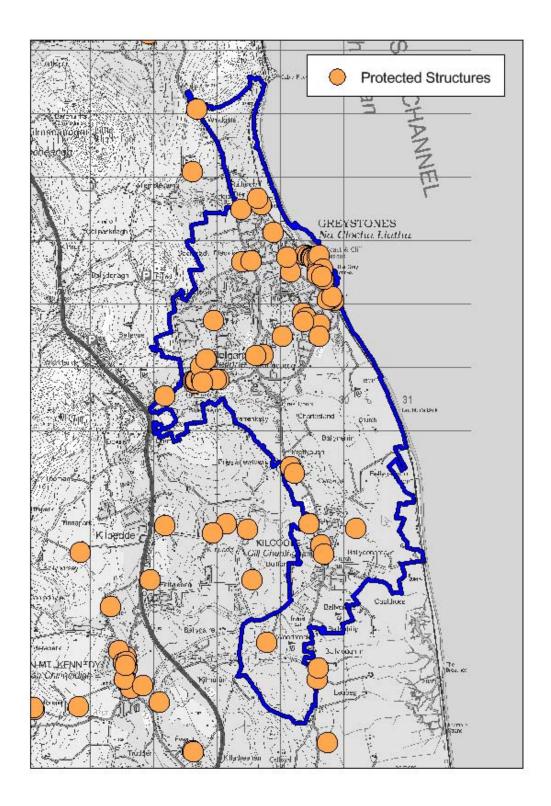


Figure 3.13 Protected Structures Greystones-Delgany and Kilcoole

3.10.4 Architectural Conservation Areas (ACA)

Legislation is provided for Architectural Conservation Areas (ACA). Figure 3.14 illustrates the ACAs within the plan area. ACAs maybe used to protect the following:

- · Groups of structures of distinctiveness or visual richness or historical importance;
- The setting and exterior appearance of structures that are of special interest, but the interiors of which do not merit protection
- The setting of a Protected Structure which in some instances can be greater than its curtilage
- Designed landscapes where these contain groups of structures as in, for example, urban parks, the former demesnes of country houses and groupings of archaeological or industrial remains
- Groups of structures which form dispersed but unified entries but which are not within the attendant grounds of a single dominant Protected Structure.

There are already five designated areas of architectural conservation within the Greystones/Delgany area and there are currently no conservation areas within the Kilcoole plan area. Works materially affecting the character of a protected structure or to the exterior of a building/structure within an ACA require planning permission



Figure 3.14 ACA-The Burnaby ACA, Killincarrig ACA, Delgany ACA, Church Road ACA, Blacklion ACA and the Harbour ACA

3.10.5 Key Environmental Problems

Archeology

The archaeological of the area is afforded protection through legislation. However the cultural heritage of the plan area can still be impacted upon through development. Development on sites or land adjacent to protected sites can impact upon the context, if not mitigated. Previously unknown archaeology can be damaged as a result of development.

Architectural Heritage

The setting of ACAs and protected structures is another consideration and insensitive or inappropriate developments that negatively impact on these resources may be another potential threat.

3.10.6 Evolution of Cultural Heritage in the absence of the Plan

In the absence of a LAP, development would have no guidance as to where to be directed and planning applications would continue to be assessed on an individual basis with cultural heritage protected under a number of strategic actions relating to archaeological and architectural protection. Cultural heritage would be impacted upon by the nature of permitted applications.

3.11 Landscapes

Landscapes are made up of a number of layers: landform, which results from geological; and geomorpholigical history; landcover, which includes vegetation, water, human settlements, and; human values which are a result of historical, cultural, religious and other understandings and interactions with landform and land cover.

Greystones-Delgany and Kilcoole are located in the north-east of the county, this area of the county is a particularly vulnerable to development pressure, which has the potential to threaten its intrinsic character. Within the Wicklow County Development Plan 2010-2016 there are various landscape categories with an associated vulnerability rating. The settlement area of Greystones-Delgany and is defined as "Urban Area" and the settlement area of Kilcoole is defined as Urban Area, Corridor Area and Coastal Area of Outstanding Natural Beauty. South of this point to the northern boundary of the Kilcoole settlement plan the landscape is defined as an area of Corridor Area and Coastal Area of AONB.

Within the hinterland of the plan area the Great and Little Sugar Loaf and the coastline along the plan area are categorised as Areas of Outstanding Natural Beauty. The Area of Outstanding Natural Beauty designation encompasses areas that are seen to be vulnerable, sensitive and of greatest scenic value. The coastal area category covers for the most part, the area of land between the sea and the road nearest the coastline.

The lands located in Corridor Area, are recognised as being under intensive pressure from residential and other sporadic development, and are attributed a medium vulnerability rating.

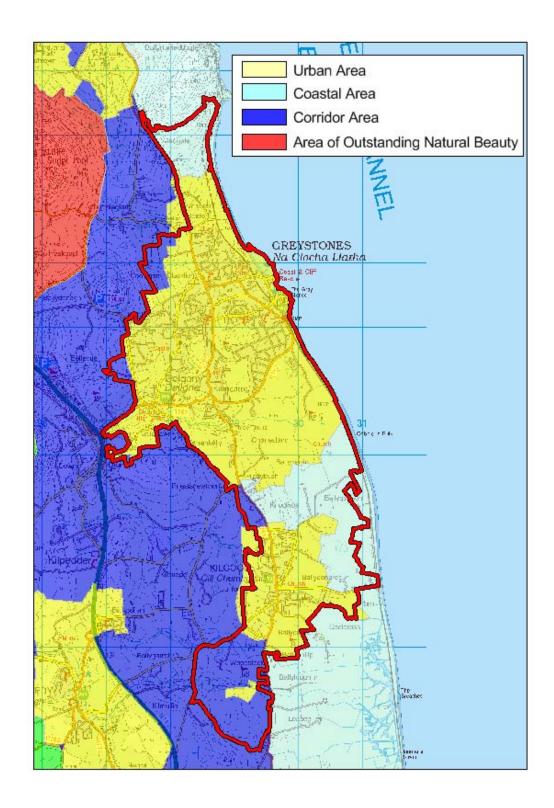


Figure 3.15 Landscape Category

3.11.1 Coastal Zone Management

There are Coastal Management objectives which set out objectives for the proper planning and development of the coastal "cells" along the coast.

There are four cells that are relevant to the plan area, these cells are as follows:

Cell 3 Bray Head to Greystones (Rathdown)

This cell is bounded by the Bray Head SAAO to the north and partially to the east, the R761 to the west and the northern boundary of the Greystones - Delgany Local Area Plan 2006 - 2012 to the south.

Cell 4 Greystones Town

This coastal cell comprises the coastal area between the northern and southern boundaries of the Greystones - Delgany Local Area Plan 2006. This zone is not uniform, with farmlands bounded by cliffs to the north, the harbour and north beach action plan area and the Victorian seafront area in the central area and the south beach and Charlesland golf club area to the south.

Cell 5 Greystones to Kilcoole (Ballynerrin)

This cell consists of the coastal strip between the R761 and the coast between the southern boundary of the Greystones-Delgany LAP and the northern boundary of the Kilcoole LAP (excluding those lands designated "The Murrough" c SAC). This area is intensively used for agricultural purposes and includes three principal pockets of rural housing – at Knockroe, near the Greystones boundary, at Ballygannon near Glenroe Open Farm and near the train station.

This area is characterised by a soft shore line, which has implications for both the existing railway line and the development of new dwellings. Coastal protection works have been carried out by larnrod Eireann to protect the railway line, particularly the installation of rock armour on the seaward side of the line.

Cell 6 Kilcoole - Wicklow Town

The cell consists of the coastal area between the R761 and the coast from the southern boundary of the Kilcoole LAP and the northern boundary of the Wicklow-Rathnew LAP, excluding the settlement of Newcastle (as defined by the boundaries of the adopted town plan for Newcastle). This is by far the largest single definable cell along the coast being 1,925 hectares in extent. This cell is dominated by The Murrough cSAC, which occupies 25% of the area.

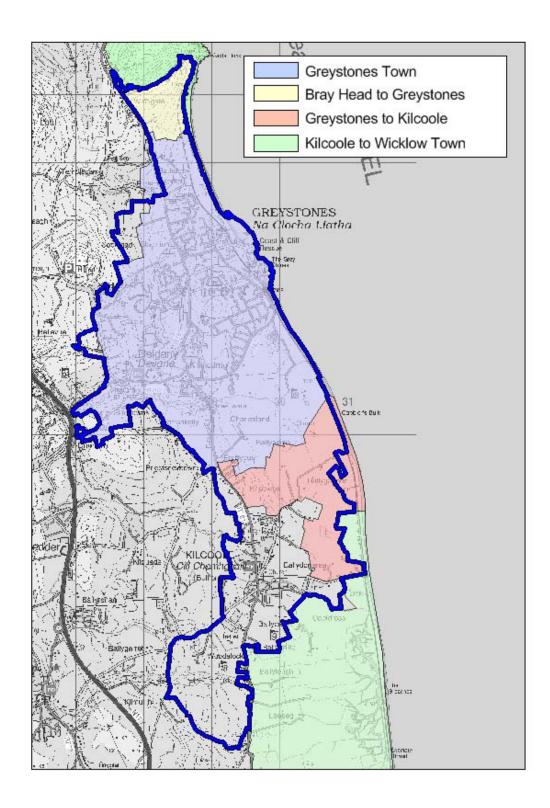


Figure 3.16 Coastal Cells

3.11.2 Views and Prospects

There are six listed views and four listed prospects within the plan area. There is one prospect extending the entire length of the coastline from Greystones to Wicklow which takes in the extremities of the Kilcoole LAP boundary. These views/prospects are considered to be of the highest amenity value within the plan area. Some views/prospects will form a cohesive set, such as the coastal drive along the Greystones and Kilcoole coastline. Some of the views and prospects are intermittent in nature and appear through gaps in vegetation or buildings. Figures 3.17 illustrate the views and prospects within the plan area.

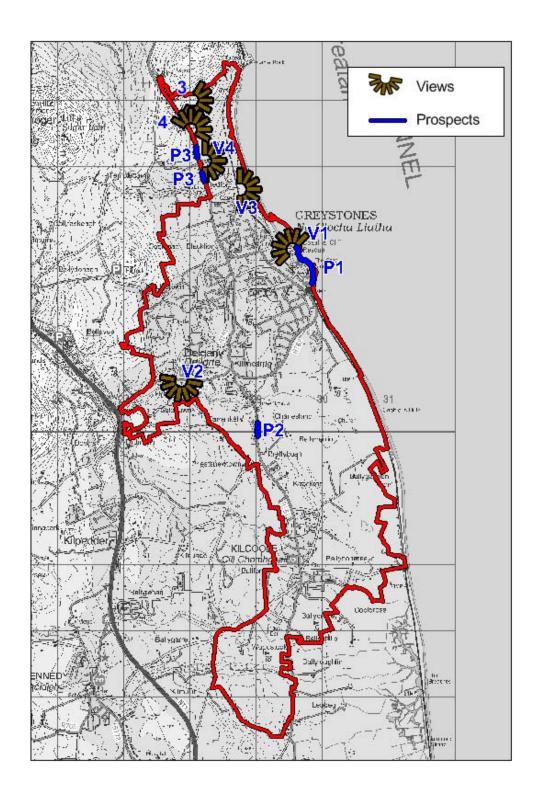


Figure 3.17 Views and Prospects

3.11.3 Tree Protection

Woodlands, trees and hedgerows are important natural habitats and groups and lines of trees/hedgerows are important wildlife corridors. Woodlands and trees have an amenity function, providing not only important recreational areas but also adding to the overall beauty of the settlement. Trees provide a rich source of an amenity value. The following tabled depict the different categories of trees that are within the plan area:

Table 3.9: Tree Protection Orders(CDP2010-2016):

TPO1	The Oak trees at Quarry Road, Killincarrig, Greystones.
TPO2	Oak, Pine Ornamental, and boundary trees at Kindlestown Rise, Kindlestown Upper,
	Delgany.
TPO3	Roadside Beech trees at Holy Faith Convent

Table 3.10: Tree Objectives

Table 3	.10: Tree Objectives
T01	Coolagad, Trees in vicinity of farmstead
T02	Delgany, Bellevue Demesne
T03	Delgany Village, western end of village, including Stylebawn House and Hillside
	House
T04	Delgany Village, trees on ground of 'Glenair'
T05	Delgany Village, the Old Rectory
T06	Delgany, Farrankelly, line of Scots Pine trees
T07	Delgany, Stilebawn
T08	Greystones, Burnaby Park
T09	Greystones, Church Road, trees in soft verge
T10	Greystones, Church Lane; mature conifers in large private gardens
T11	Greystones, The Mill, Mill Road
T12	Greystones, Mill Road, group of Scots Pine in vicinity of GAA grounds
T13	Greystones, Mill Road, group of Scots Pine on grounds of Rugby Club
T14	Greystones, Portland Road
T15	Greystones, Quarry Road
T16	Greystones, St. Vincent Road
T17	Greystones, Whitshed Road
T18	Greystones, Burnaby, group of mature trees in private garden
T19	Killincarrig, Treeline of Scots Pine
T20	Killincarrig, trees on grounds of private dwelling
T21	Killincarrig, group of trees to edge of open space
T22	Killincarrig Village, trees on grounds of private dwelling
T23	Killincarrig, group of Scot's Pine to the west of the park and ride facility
T24	Killincarrig, treeline of Scots Pine and Ash; running from Mill Road southwards to the
	Sewage Treatment Works
T25	Kindlestown Road, hedgerows and trees lining edges of road
T26	Kendalstown Rise, clumps of mature mixed woodland in open space and on private
	gardens
T27	Kindlestown, Glencarrig, groups of mature broadleaf trees on the grounds of private
	dwellings.
T28	Greystones Golf Club, group of mature Beech, Chestnut
T29	Line of trees, Drummin East
T30	Line of Scots pine on hill east of Drummin

Table 3.11: Trees Considered For Preservation (CDP 2010-2016)

TCP01	Mature deciduous trees to the rear and side of convent ground Kilcoole
TCP02	Mature deciduous trees to the front of the Catholic church, Kilcoole

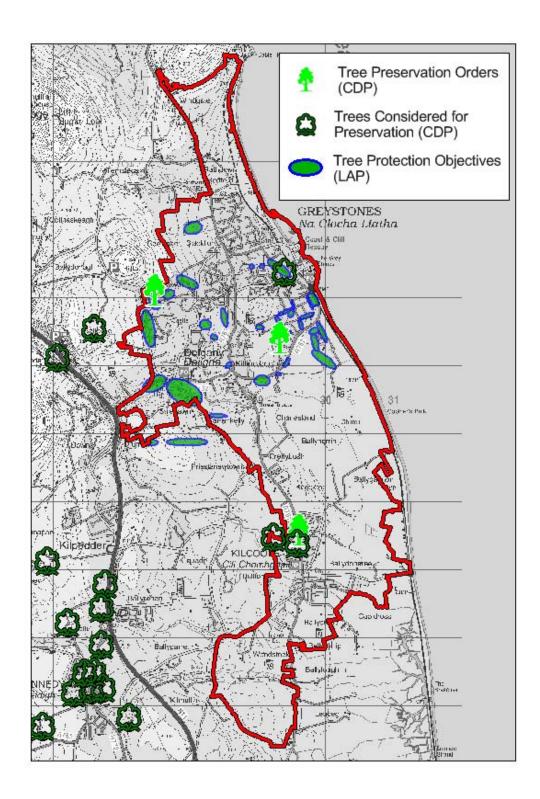


Figure 3.18 TPOs, Trees Considered for Preservation and Tree Protection Objectives

3.12 Key Environmental Problems for Landscape

Potential issues with regard to the landscape in the settlement plan include developments which may not reflect the local landscape character and the relationship of the ACAs with the surrounding area. Uncoordinated expansion of urban fringe could result in declining landscape quality.

3.13 Evolution of Landscape in the absence of the Plan

In the absence of a LAP there would be no framework directing development to appropriate locations in and around the settlement area. In addition, the policies around cultural heritage, landuse and urban design in the new LAP contribute to an overall enhancement and stronger protection of the landscape resources around the plan area.

3.14 Cumulative Environmental Assessment

In order to identify where most sensitivities in the plan area occur, the environmental sensitivities described above were weighed and mapped overlaying each other. Where the mapping shows a concentration of environmental sensitivities there is an increased likelihood that development will conflict with these sensitivities and cause environmental deterioration.

A Risk weighting system applied through Geographical Information Systems (GIS) software was used in order to calculate the sensitivity of all parts of the study area. The following table sets out the values placed on the landscape categories within and surrounding the plan area.

Table 3.12: Landscape Category Weightings

Landscape Category	Sensitivity/vulnerability	Risk Weighting
Urban Area	Low	5
AONB	High	9
Corridor Area	Medium	5

Table 3.13 below provides details of further risk weighting applied to relevant environmental components located within the plan area such as ecological designations, surface waters at significant risk, groundwater, entries to the Record of Protected Structures and Architectural Conservation Areas. While there are elements of unavoidable subjectivity inherent to the selection and weighting of environmental sensitivities, the SEA and plan making team worked closely in order to minimise such subjectivity. The map was creating using Geographical Information Systems (GIS), in layering the environmental sensitivities; regard was paid to the degree of vulnerability attributed to the varying environmental characteristics. The more sensitive the environmental component was deemed to be the higher the risk weighting that was applied e.g. SACs are given a risk weighting of 10 as these habitats would be highly sensitive to development and therefore at a higher risk. After all layers were overlain, each site was attributed with a cumulative score, reflecting the combined total of all weightings of the site. This combined weighting indicates the overall level of sensitivity of a particular parameter within the plan area.

Table 3.13: Environmental Baseline Weighting

Weightings Range from 1-10 1 = Low 10 = high	
	stones- Weighting
Delgany	
Designated Site Bray Head SAC	10
Bray Head pNHA	8
Local Biodiversity Areas	4
Bray Head SAAO	7
Monuments	6
Landscape Category-Urban Area	5
Protected Structures	6

Flood Risk Areas (from OPW)	5
TPOs	4
Trees considered for preservation	3
Views and Prospects	6
Architectural Conservation Area	4
National Inventory of Architectural Heritage	3
National Inventory of Architectural Heritage	3
Data from Eastern River Basin Management Plan /EPA/WCC	
All rivers	5
Three Trout River - Moderate Status	5
Southwestern Irish Sea - Killiney Bay Coastal Water body with High Status	2
Greystones Urban (EA_G_032) Ground Water body with Good Status	3
Wicklow East PP(EA_G_004)Ground Water	3
body with Good Status	3
Water Framework Directive Register of	
Protected Areas	
- Greystones Urban (EA G O 32) Ground Water body with Good Status	3
-Wicklow East(EA_G_004) Ground Water body with Good Status	3
-SAC-Bray Head	5
- Recreational Beach	5
Environmental Baseline Kilcoole	Weighting
Designated Sites(SPA/SAC-Murrough)	10
Natural Heritage Area-Murrough	8
Monuments and Places	6
Landscape Category-Coastal	6
Landscape Category-Coastar Landscape Category-Corridor Area	4
Protected Structures	6
Flood Risk Area's from OPW	5
TPO's	4
Trees considered for preservation	3
Views and Prospects	6
National Inventory of Architectural Heritage	3
Data from Eastern River Basin Management Plan/EPA/WCC	
All Rivers	5
Ballyronan River with Poor Status	7
Newtown River(EA-10-1575) with Moderate Status	5
Kilcoole River	5
Kilcoole S & G Groundwater body (EA –G-036) with Good Status	3
With Good Status Wicklow East Groundwater body (EA –G-004) with Good Status	3
Southwestern Irish Sea - Killiney Bay Coastal	2
Water body with High Status Kilcoole Marsh(EA 120-0100)(Transitional	5
(Estaurine Waterbody) with Moderate Status	
Water Framework Directive Register of Protected Areas	
Newtown River(EA-10-1575) with Moderate	5
Status Kilcoole S & G Groundwater body (EA –G-036)	5

Wicklow East Groundwater body (EA –G-004) 5 with Good Status	5
Kilcoole Marsh(EA 120-0100)(Transitional 5 (Estaurine Waterbody) with Moderate Status 5 -SPA(The Murrough) 5 -SAC(The Murrough Wetlands) 5	5 5 5

3.15 Limitations

It should be noted that the map created on the basis of this assessment is based on certain assumptions regarding vulnerability and levels of risk, and assumes the reliability of spatial data. It is recommended that this assessment should be used for strategic level and general guidance purposes only.

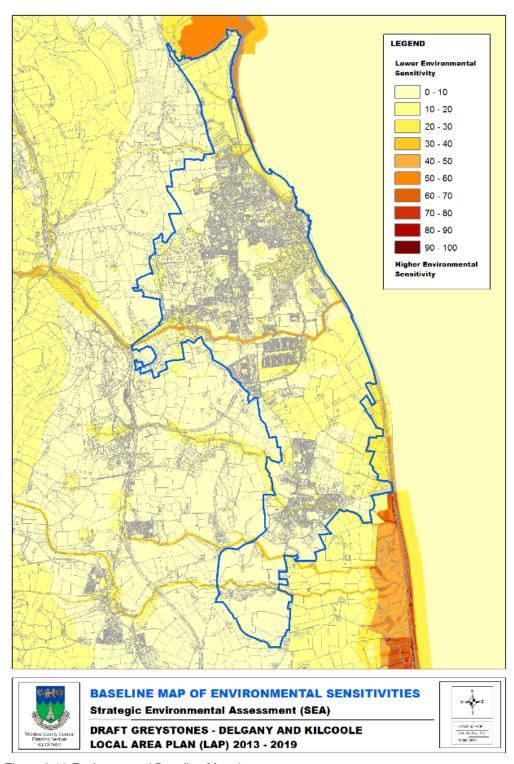


Figure 3.19 Environmental Baseline Mapping

Figure 3.19 overleaf indicates that the following areas have environmental characteristics that are particularly vulnerable:

- Lands adjoining the Bray Head are highly sensitive in recognition of a number of environmental designations in this area, including Natura 2000 sites, SAAO, pNHAs, listed prospects/views and national monuments.
- Greystones-Delgany and Kilcoole town centres have a higher sensitivity rating which
 can be attributed to the designations including the Architectural Conservation Area
 and protected structures/archaeological monuments within the plan area
- Lands in proximity to rivers have a higher sensitivity rating which can be attributed to
 the vulnerability of the water bodies and risk posed by flooding. Lands adjoining the
 Three Trouts River are sensitive due to its recognition of a number of environmental
 sensitivities in the area.
- Lands to the west of Kilcoole are identified as being vulnerable, having regard to the close proximity to the Murrough SAC and pNHA

As a result of the above sensitivities regard is to be paid to the above areas and the reasons affecting their vulnerability, in the preparation of the draft local area plan.

3.16 Evolution of Environmental Baseline in the absence of the Plan

This would represent a continuation of present trends, without any policy changes or infrastructural improvements, which may be proposed in the draft local area plan. It forms the basis of comparison against the environmental effects of the local area plan which can be measured. It is important to note that the "do –Nothing" scenario is not reasonable alternative, which is required to be considered under the SEA Directive, nor would it necessarily be in keeping with the fundamental principle of sustainable development.

Section 4 Strategic Environmental Objectives

4.1 Introduction

SEA uses a combination of objectives, targets and indicators to predict impacts, and describe and monitor change resulting from proposed plans and programmes on the environment (Therivel, 2004). Strategic Environmental Objectives (SEOs) and targets set aims and thresholds that should be taken into account when assessing the impact of proposed plans and programmes on the environment. Allied to the development of the SEOs are environmental indicators and targets. Indicators facilitate the monitoring aspect of the SEA, while targets provide a realistic and achievable target to which the local authority can work towards. Indicators are used to illustrate and communicate impacts in a simple and effective manner. Indicators can also be used to form the basis of a monitoring programme for the Plan, the results of which will inform the next Plan review and other studies.

4.2 Objective of the Environmental Report

The primary objective of this report is to provide for a high level of environmental protection and to contribute to the integration of environmental considerations into the preparation and adoption of the Local Area Plan. It will do this by assessing the Plan in terms of its overall environmental impact and following this indicating where necessary how improvements can be incorporated into the plan to improve its environmental performance and/or mitigation and monitoring.

The SEA Directive and Regulations require that evaluation be focused upon relevant aspects of environmental parameters likely to be significantly affected. In compliance with this requirement, SEOs have been developed for the environment parameters which are likely to be impacted as a result of the implementation of the plan.

Furthermore monitoring is based upon the indicators which allow for quantitative measure of progress over time relating to the SEOs used in the evaluation. Focus is given to indicators which are relevant to the likely significant environmental effects of implementing the plan and existing monitoring arrangements will be used to monitor the selected indicators. Each indicator to be monitored will be accompanied by the relevant target(s). The indicators and targets are discussed in more detail in Section 9 on Monitoring.

4.3 Development of Strategic Environmental Objectives for Greystones-Delgany and Kilcoole

Strategic Environmental Objectives (SEOs) are methodological measures against which the environmental effects of the plan can be tested. If complied in full, SEOs would result in an environmentally neutral impact from implementation of the plan. The SEOs are set out under a range of topics and are used as standards against which the provisions of the plan can be evaluated in order to help identify areas in which significant adverse impacts are likely to occur, if unmitigated.

SEOs are distinct from the objectives of the Plan - although they will often overlap - and are developed from international, national and regional policies, which generally govern environmentally protection objectives. Such policies include those of various European Directives, which have been transposed into Irish law, all of which are intended to be implemented at a local level within the plan area. The information provided in the fourth column, relating to "responsible authority/information source", pertains to details required for the monitoring of the final Development Plan. The monitoring programme is set out in section 9.

Table 4.1: Soils: Maintain quality of soils

Environmental Objectives	Target	Indicator	Responsible Authority
SEO SOIL1: Maximise the sustainable re-use of brownfield sites and maximise the use of the existing built environment	Development of brownfield sites during lifetime of the plan	Number of new developments on brownfield sites	Geological Survey of Ireland/EPA & WCC
SEO SOIL2: To prevent pollution and/or contamination of soil within the plan area	No significant instances of pollution and/or contamination of soil	Number of instances of pollution and/or contamination	Geological Survey of Ireland/EPA & WCC

Table 4.2: Biodiversity, Flora and Fauna: Maintain and enhance biodiversity

Environmental Objectives	Target	Indicator	Responsible Authority
SEO B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	conservation status for all habitats and species protected under national and	habitats and species as assessed under Article	NPWS/WCC

Table 4.3: Population and Human Health: To provide for population growth on appropriate lands within a healthy, high quality environment

Environmental Objectives	Target	Indicator	Responsible
			Authority
SEO PHH1: Create a healthy environment	No spatial concentrations of health problems arising from environmental factors as a result of implementing the plan.	Occurrence of a spatially concentrated deterioration in human health arising from environmental factors as identified by the Health Service Executive(HSE) and Environmental Protection Agency(EPA)	WCC/HSE
SEO PHH2: Promote a high quality living environment	Create a settlement pattern/sustainable mixed use development pattern Increase modal shift to public transport, walking and cycling Access to health and education facilities Access to employment	Amount of mixed use developments Amount of cycleways and pathways Regularity of trains The number of schools and health care facilities Amount of jobs	WCC/CSO/De partment of Education and Skills/HSE/De partment of Jobs, Enterprise and Innovation/Liv e Register/NTA

Table 4.4: Climatic and Air Factors: To achieve good air quality and

Environmental Objectives	Target	Indicator	Responsible Authority
SEO AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	An increase in the percentage of the population travelling to work or school by public transport or non-mechanical means	Percentage of population within the plan area travelling to work or school by public transport or non-mechanical means	NTA/WCC & EPA
	AQ1(2) A decrease in the average distance travelled to work to work or by school by the population of the plan area	AQ1(2) Average distance travelled to work or school by the population of the plan area	
SEOAQ2:Achieve Environmentally friendly building designs	Compliance with Part L(Amendment) of the Building Energy Regulations S.I.No.259 of 2008	Amount of properties meeting targets.	WCC

Table 4.5: Water Resources: Achieve a Good Quality status in all water bodies within the plan area, in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.

2015.			
Environmental Objectives	Target	Indicator	Responsible Authority
SEO W-S: To maintain and improve, where possible, the quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	To achieve/maintain good status in all bodies of surface waters by 2015 and to not knowingly allow deterioration in the status of any surface water.	Classification of Overall Status (comprised of ecological and chemical status under the European Communities Environmental Objectives (Surface Waters) Regulations 2009(SI No.272 of 2009).	EPA, WCC, Eastern River Basin District Protect
SEO W-G: To prevent pollution and contamination of ground waters	Compliance with Groundwater Quality Standards and Threshold Values under 2006/118/EC	Groundwater Quality standards and Thresholds Values under Directive 2006/11/ec	EPA, WCC, Eastern River Basin District Protect
SEO W-F: To prevent development on lands which pose —or are likely to pose in the future-a significant flood risk	(1). Minimize developments granted permission on lands which pose-or are likely to pose in the future —a significant flood risk in compliance with the Planning System And Flood Risk Management Guidelines for Planning Authorities. (2). All new developments to incorporate SUDS design	(1). Number of developments granted planning permission on lands which pose or are likely to pose in the future a significant flood risk. (2). Provision of SUDS Compliant drainage plans for proposed developments in study area	(1). EPA, WCC, Eastern River Basin District Protect. (2). OPW/WCC

Table 4.6: Material Assets: Make most efficient use of the existing Infrastructure, Wastewater and Water Infrastructure

Environmental Objectives	Target	Indicator	Responsible Authority
SEO MAT 1: To make best use of existing water services infrastructure	Promoting development at locations served by existing water services infrastructure	The percentage of houses connected to the main infrastructure systems and the percentage of houses served by septic tank.	Community and Local
SEO MAT 2: Make the best use of existing road and transportation infrastructure	Promoting development at locations served by existing road and transportation infrastructure	Amount of new developments located along existing roads and located within reach of high quality public transport links.	WCC/NTA

Table 4.7: Cultural Heritage-Protection and conservation of architectural and archaeological heritage

Environmental Objectives	Target	Indicator	Responsible Authority
SEO AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places and in the context of their surrounding landscapes where relevant	Protect entries to the Record of Monuments and Places(and in the context of their surrounding landscapes where relevant)	The number of deletions from the RMP during the plan period.	WCC/Department of Arts, Heritage and the Gaeltacht
SEO AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and their context within the surrounding landscape where relevant	Protect entries to the Record of Protected Structures and/or their context within the surrounding landscapes where relevant.	The number of deletions from the RPS during the plan period.	WCC/Department of Arts, Heritage and the Gaeltacht

Table 4.8: Protect scenic landscapes

Environmental Objectives	Target	Indicator	Responsible Authority
SEO L1: To protect and avoid significant adverse impacts on the landscape of the plan area	No significant disruption of the landscape resulting from development which is granted permission under the plan.	received from statutory	WCC
SEO L2 The protection of listed views and prospects	No significant disruption of designated views and prospects		WCC

Section 5 Context for the Local Area Plan

5.1 Legislative Context

The Greystones-Delgany and Kilcoole Local Area Plan will be made in accordance with the requirements for Local Area Plans as set out within the Planning and Development Act 2000 (as amended). The Act introduced a tiered and plan led system, setting out the framework for the provision of Local Area Plans to give more detailed and localised effect to the policies and objectives of the County Development Plan.

Section 19(2) of the Planning and Development Act 2000(as amended) sets out that:

"a local area plan shall be consistent with the objectives of the development plan, its core strategy and any regional planning guidelines that apply to the area of the Plan and shall consist of a written statement and a plan or plans which may include:

(a) Objectives for the zoning of land for the use or primarily of particular areas for particular purposes

or

(b) Such other objectives in such detail as maybe determined by the planning authority for the proper planning and sustainable development of the area to which it applies, including the objective if development of land on a phased basis and detail on community facilities and amenities and on standards for the design of developments and structures".

In addition to compliance with the Planning and Development Acts and the Wicklow County Development Plan 2010-2016; the Greystones-Delgany and Kilcoole Local Area Plan 2012-2019 is also prepared in compliance with the objectives of the Regional Planning Guidelines for the Greater Dublin Area 2010-2022¹⁵, in particular relating to its assigned population targets as well as with relevant national legislation and planning guidelines with regard to the proper planning and sustainable development of the plan area.

This LAP complies with the requirements of the Strategic Environmental Assessment, Habitats, Water Framework and Floods Directive as appropriate. All developments proposals must be consistent with the objectives of these higher level plans, programmes, strategic plans and guidelines.

5.2 Structure of the Plan

The Local Area Plan consists of written statement and an Appendix (as detailed below), with accompanying maps. The maps give a graphic representation of the objectives of the Plan, indicating the land use and other control standards together of the Council.

The written statement comprises of 11 sections and an appendix providing details of the calculations for the plan, the content of which are briefly outlined below:

1. Statutory & Contextual Background

This section sets out the legislative background to the plan, the overall context of the plan area and the vision of the plan.

2. Overall Vision and Development Strategy

Sets out the vision for the plan area in line with the parameters of the two settlements as set out in the Wicklow County Development Plan 2010-2016

1

¹⁵ Implementation of Regional Planning Guidelines: Best Practice Guidnace(DoEHLG,2010).

3. Population & Housing

This chapter sets out the settlement the population, housing and objectives for the plan area.

4. Retail

This section sets out the strategy for retailing within the plan area and also and also identifies key opportunities sites with the plan area.

5. Employment & Economic Development

This sets out the economic strategy for the plan area relating to the location of employment and types of employment to be permitted etc.

6. Tourism

This chapter sets out the strategy for tourism within the plan area

7. Social Infrastructure

This chapter sets out the educational, open space and recreational needs of the projected population is set out in this chapter

8. Transport & Service Infrastructure

This section relates to Transport, Water and Sewage, telecommunication, energy infrastructure within the plan area.

9. Natural & Built Heritage

This section relates to all aspects of the Natural environment all living and non-living things occurring naturally and are not primarily or solely of human creation, in contrast to the built environment individual or group of buildings, structures, monuments, or installations, or remains which are associated with architectural, cultural, social, political, economic, or military history.

10. Action Area Plans

Action plan areas are areas that are designated for comprehensive (not piecemeal) integrated schemes of development that allow for the sustainable, phased and managed development of the area during the plan period.

11. Zoning

This chapter sets out the zoning objectives for the plan area outlining the council's intentions for all land within the plan area.

5.3 Vision Statement

Following a public consultation process a number of key themes emerged regarding the future development of the plan area. These themes have been amalgamated and expressed in the vision below

To build on the dynamism between the settlements of Greystones-Delgany and Kilcoole, so that the area develops in a mutually dependent and complementary manner as a prosperous and growing community. Each settlement shall have a distinct identity and shall perform a function in sustaining its own local community and in providing enhanced opportunities for the creation of new local enterprise. The area shall be a high quality, attractive and sustainable place to live, visit and conduct business. The combined area shall maximize the potential opportunities associated with its strategic location at the edge of the Dublin Metropolitan Area

The key elements of the vision for Greystones-Delgany and Kilcoole are to:

 Improve the quality of life of the resident population of Greystones-Delgany and Kilcoole by planning for and encouraging the provision of high quality housing and

- employment, social and community facilities and a range of recreational options, in a quality environment;
- Regulate pressures from urban and rural development, in particular sporadic development in rural areas and development pressure emanating within the plan area and from south Dublin by providing a sustainable settlement and growth strategy to create a compact urban form and to enhance the physical, economic and social profile of the plan area.

This will be achieved by:

- The retention of a suitable greenbelt buffer between Greystones-Delgany and Kilcoole.
- Reinforcing and improving the visual appearance of the central area of the town with particular attention on the Architectural Conservation Areas
- Greystones is to develop in a sustainable manner at a relatively large-scale in accordance with its role as a county significant 'growth' town.
- The identity of Kilcoole as a separate stand alone entity in the wider area shall be reenforced by protecting its distinct character and by encouraging its continued growth as a small, locally important commercial town
- The role of Delgany as a village, to serve the day-to-day service and social needs of its local population, shall be strengthened.

5.4 Interactions of the Plan with other relevant planning policy

The draft Greystones-Delgany & Kilcoole Local Area Plan 2013-2019 sits within a hierarchy of International, European, National and local planning policies and statutory instruments. These policies and instruments are required to be taken into account in the development of objectives for the draft local area plan and Environmental Strategic Objectives for the Environmental Report.

It is not intended to provide an exhaustive list of these polices and instruments given the local planning level of this plan which is required to be consistent with the objectives of the County Development Plan, its Core Strategy and any Regional Planning Guidelines. In this regard the following sets out the relationship of the plan at a Regional and County level.

5.4.1 Regional Planning Guidelines for the Greater Dublin Area 2010-2022

The Greater Dublin Area incorporates the Dublin Regional Authority and the Mid-East Regional Authority being the geographical and administrative areas of Dublin City, Dun Laoighaire-Rathdown, Fingal, South Dublin, Wicklow, Meath and Kildare. The Regional Planning Guidelines (RPG) is a policy document which aims to direct the future growth of the Greater Dublin Area over the medium to long term and works to implement the strategic planning framework as set out in the National Spatial Strategy (NSS) published in 2002. The RPGs inform and direct the City and County Development Plans for each of the Councils in the Greater Dublin Area. They provide a clear policy link between national policies –the National Development Plan and the National Spatial Strategy and other national policy documents and guidance; and local Authority planning policies and decisions.

5.4.2 Local Framework

The Wicklow County Development Plan 2010-2016

The Wicklow County Development Plan addresses the issue set out in Section 10 of the Planning and Development Act 2000. Under the County Wicklow Settlement Hierarchy 2010-2016, Greystones-Delgany is designated a 'Large Growth Town 2' and Kilcoole is designated a 'Small Growth Town'. In accordance with this hierarchy, a 'Large Growth Town 2' should accommodate a large amount of population growth, and have a high level of infrastructure, services and employment. 'Small Growth Towns' should provide for a lower level of growth

and employment, and provide mainly for the local service needs of the settlement and its hinterland.

5.5 Strategic Environmental Objectives

The Draft LAP is subject to a number of high level national, international and regional environmental protection policies and objectives, including those, which have been identified as Strategic Environmental Objectives in section 4.

Examples of SEO objectives include the aim of the EU Habitats Directive – which is to contribute towards ensuring biodiversity through the conservation of natural habitats and of wild fauna and flora in the European territory of Member States - and the purpose of the Water Framework Directive - which is to establish a framework for the protection of inland surface waters, transitional waters, coastal waters and groundwater which, among other things, prevents deterioration in status of all water bodies and protects, enhances and restores all waters with the aim of maintaining and achieving a good status by 2015.

5.6 Alternatives

Section 6 & 7 of this report identifies and evaluates the 3 alternative development scenarios for the Plan, taking into account the relevant land use strategic actions, the SEOs identified in section 4 as well as the geographical scope of the functional area of the plan area. The evaluation of the alternatives results in the identification of potential environmental effects. These environmental effects are considered alongside planning –social and economic-effects leading to the emergence of the preferred alternative.

Section 6 Consideration of Development Plan Alternatives

6.1 Introduction

One of the critical roles of a SEA is to facilitate an evaluation of the likely environmental consequences of a range of alternative strategies for accommodating the future development of the plan area within the constraints imposed by intrinsic environmental conditions. The alternatives arose during the early stages of the plan making.

The SEA Directive requires that reasonable alternatives, taking into account the objectives and the geographical scope of the plan or programme, are identified, described and evaluated for their likely significant effects on the environment. Alternatives were formulated through consultation with the plan making team of Wicklow County Council.

Later sections of this report identify, describe and evaluate different alternatives how to achieve the overall strategy-taking into account the relevant land use strategic actions and the SEOs identified previously, as well as the geographical scope of the Local Area Plan. The evaluation of alternatives results in the identification of a preferred alternative which will be submitted to the Elected Members of Wicklow County Council along with this report for consideration.

6.2 Identification and Description of Alternative Plan Scenarios:

A range of three potential scenarios for the types of planning strategies that could be adopted are described in this section, they represent increasingly intensive and extensive development. A number of features are core to all scenarios, namely the location, extent and use of lands adjoining the Natura 2000 sites and the identification of suitable lands for housing. As a result, the following are the key components of the alternatives:

- It is estimated that there is a need for 3765 residential units in the Greystones-Delgany area up to 2022 and 775 residential units in the Kilcoole area up to 2022;
- The retention of a suitable greenbelt buffer between Greystones-Delgany and Kilcoole;
- The retention of "Open Space" lands within established residential areas;
- Sufficient employment lands to be provided to allow Greystones to function as a "Large Growth Town 2' and Kilcoole to function 'Small Growth Town' in accordance with the Wicklow County Development Plan 2010-2016;
- Sufficient retail lands to be provided to allow Greystones function as a "Level 3
 Town/District Centre" and Kilcoole to function as a "Level 4 Small Town" in
 accordance with the Wicklow County Development Plan 2010-2016;
- New residential development to be located in proximity to community facilities, educational facilities and local services:
- The natural and built heritage of the plan area should be protected and enhanced where possible;
- The identity of Kilcoole as a stand alone entity within the plan shall be reinforced.

6.2.1 Alternative 1: Most Environmental Friendly Option

This alternative sets out a development strategy that aims to achieve a high level of protection to the environment. This alternative is illustrated in Figure 6.1 and key components of it are:

The greenbelt has been expanded on lands at the edges of the plan area. These
greenbelt areas reflect land of which are elevated in the landscape, land of key

- importance in the protection of listed prospects/views, lands with rivers and flood prone areas, lands that act as buffer to Natura 2000 sites and lands that act as a buffer from the edge of the settlement plan to virgin/rural lands;
- In order to protect riparian habitats a 50metre buffer has been introduced along all rivers where possible, a 60m buffer is introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers have been zoned "Open Space";
- In order to protect urban biodiversity and to preserve public open space areas, the green areas within established residential areas have been zoned "open space;
- The existing Local Character Area in Greystones is designated a ACA;
- Lands that are undeveloped and that are affected by views and prospects are zoned "open space" where possible:
- The lands north and south of the Charlesland Estate are identified as "Parkland", a walking route will be created linking these parklands and will be further expanded into the Kilcoole plan area;
- Lands zoned for high density residential development are centrally located and in close proximity to the town centre of Greystones and Kilcoole;
- Lands zoned medium density residential development are centrally located and in close proximity to neighbourhood centres.

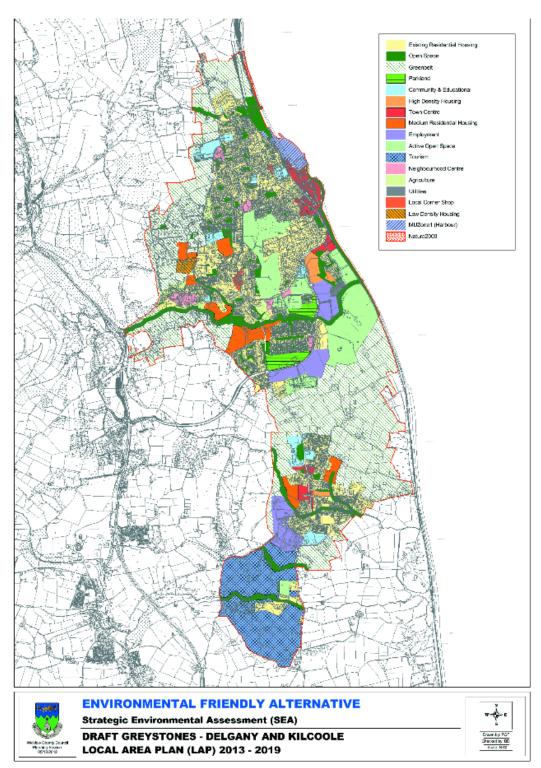


Figure 6.1 Environmental Friendly Option

6.2.2 Alternative 2: Concentric & Compact Option

This alternative sets out a development strategy that aims to achieve a concentric and compact settlement form. This alternative is illustrated in Figure 6.2 and its key components are:

- The concentric model is based on urban form whereby urban expansion extends in a radial pattern outwardly from the centre;
- In order to protect riparian habitats a 30metre buffer has been introduced along all rivers where possible. A 40m buffer was introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers are indicated as "Open Space" zone;
- The Greystones Golf Club lands have been zoned a mixture of high density residential development and medium density residential development
- Lands zoned for high density residential development are centrally located in close proximity to the town centre and transport links;
- Infill Residential Development to be encouraged on underutilised lands in established residential areas;
- In order to protect urban biodiversity and to preserve public open space areas, public open space in housing estates has been zoned "open space";
- Lands at the outer edges of the boundaries of the plan area are considered to be less suitable for development and the majority of these areas have been zoned agriculture to further protect the lands along the edge of the plan areas;
- This alternative consolidates the land use pattern of the settlement, resulting
 in a more compact form which encourages the efficient use of land, the
 development of mixed use and walkable neighbourhoods and a reduction in
 the need for additional infrastructure.

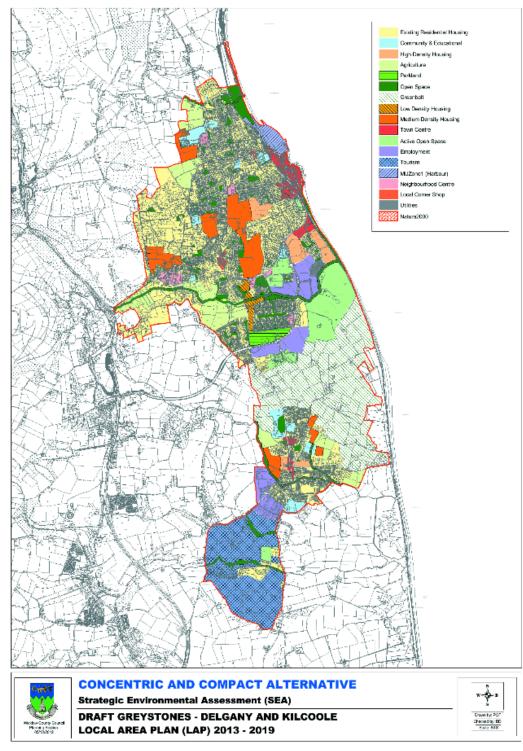


Figure 6.2 Concentric and Compact Option

6.2.3 Alternative 3: Expansion Option

This alternative sets out a development strategy that results in an urban sprawl. This alternative is illustrated in Figure 6.3 and its key components are:

- The vast majority of new development required in this option is occurring outside of the existing "built envelope" of the towns i.e. new housing proposed occurring at low-medium densities on greenfield lands rather than on brownfield or infill sites;
- In this option there is minimal new residential development in the two centres:
- In order to protect riparian habitats a 20metre buffer has been introduced along all rivers where possible, a 30m buffer has been introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers are indicated as "Open Space" zone;
- New residential developments occurring on the periphery of the towns are located where infrastructural services can be accessed and accommodated;
- This alternative allows for the expansion of the plan area which results in a more sporadic pattern of development with the least sustainable transport pattern.

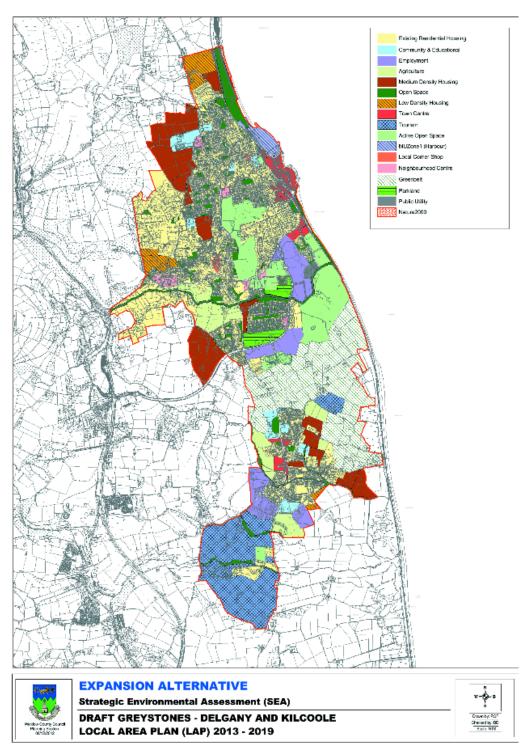


Figure 6.3 Expansion Option

Section 7 Evaluation of Alternative Plan Scenarios

7.1 Introduction

The objective of this section is to determine the relative merits of a range of alternative scenarios under a range of types of plan regimes. This determination seeks to understand whether each alternative is likely to improve conflict or have a neutral interaction with the provisions of the plan. A series of Strategic Environmental Objectives were developed based on an understanding of the existing and emerging environmental conditions facing the plan area. The SEOs and the Scenarios are then arrayed against each other to identify which interactions if any could result in impacts on specific components of the environment.

7.1.1 Evaluation of Alternatives

The alternatives as outlined in Section 6 have been evaluated at a strategic level, through an assessment that measures the compatibility of each alternative with the environmental goals. The findings of this assessment are summarised in Table 7.1 and is described as follows:

Table 7.1: Compatibility of Alternatives with SEA Environmental Goals

Alternative	Soil	Biodiversity,Flora and Fauna	Population and Human Health	Climatic and Air Factors	Water Resources	Material Assets	Cultural Assets	Landscapes
1. The								
Environmental								
Option								
2. The								
Concentric								
and Compact								
Option								
3.The								
Expansion								
Option								

Alternative is consistent with environment goal
Alternative is in conflict with environmental goal
Neutral/Uncertain

From a strategic environmental perspective, Alternative 1-"The Environmental Option" and Alternative 2 "The Concentric and Compact Option" are considered to be most beneficial to the protection of the environmental integrity of the plan area.

As such the "preferred strategy" for the Draft local area plan is likely to reflect a combination of the different segments of the alternatives, rather than strict adherence to one.

The preparation of a draft local area plan with the most beneficial effect on the environment should incorporate the best aspects of the three alternatives. In order to achieve the environmental goals, the draft local area plan should incorporate the following combinations of the various alternatives:

7.1.2 Soil

Alternative 1 and 2 have a positive impact in terms of maintaining the quality of soils in the area, these alternatives make the maximum use of brownfield/infill areas and has the least environmental impact on greenfield lands. Alternative 1 is the Environmental option which makes a significant contribution to the protection and enhancement of soils, in this alternative there is a high level of protection that conserves biodiversity which consequently impacts positively on the quality of soils.

Alternative 2 promotes a compact urban form and sustainable land use pattern. This approach maximises the use of the existing built environment and in combination with objectives that protect designated and non-designated sites it has an overall effect of positively contributing to the quality of soils in the plan area.

The Expansion Option (Alternative 3) promotes the spread of development on undeveloped lands which compromises the soil quality and uses up this non-renewable resource. This option has also an impact on the levels of run-off/flooding etc when the lands are developed.

7.1.3 Biodiversity, Flora and Fauna

Although each alternative would result in a sufficient degree of maintenance and enhancement of biodiversity, the environmental option has been prepared in strict adherence to environmental goals and as such results in the highest degree of environmental protection. This alternative affords strict protection to designated and non-designated sites, including Natura 2000 sites, urban habitats and riparian habitats and introduces green belt along the fringes of the plan area. In the three alternatives the green areas within established residential areas are designated public open spaces. In relation to the third alternative the Expansion Option it is clear that this alternative would have a negative impact on the biodiversity of the plan area mainly due to the expansion of development into rural/virgin lands.

In relation to the three alternatives the Environmental Option would provide for better achievement of this environment goal, and as far as possible, the proposals in this alternative for the protection of biodiversity, flora and fauna should be carried forward to the draft local area plan.

7.1.4 Population and Human Health

To achieve the goal to provide for population growth on appropriate lands within a healthy and high quality environment, the strategy proposed in any one of the alternatives could be adopted. In strategic terms, each of the alternatives provides sufficient land to provide for the future growth of the settlement but option 3 is most unhealthy with regard to dependency on the car for access with resulting less use of healthy movement options.

7.1.5 Climatic and Air Factors

Alternatives 1 and 2 provide measures which aim to minimize greenhouse gas emissions. The Environmental option maintains and enhances biodiversity within the settlement. Having regard to the neutralising effects that trees and plants have on CO2 emissions, it is likely that this alternative would make a positive contribution to the reduction of CO2 levels, which is a significant contributor to green house gas levels. There is a significant link between the goal to achieve good air quality and the goal to minimize greenhouse gases. The Concentric and Compact settlement form promotes a compact urban form which reduces the need for vehicular travel, thereby resulting in a reduction of harmful vehicle based emissions. The measures which contribute to the achievement of this goal should, where possible, be incorporated in the Draft local area plan.

7.1.6 Water Resources

All of the three alternatives contain measures to achieve and maintain "Good" quality status in water bodies in accordance with the Eastern River Basin Management Plan 2009-20115. These measures include the introduction of a buffer area along all river systems; these areas are zoned "Open Space". Depending on the alternative there is a wider buffer provided for the environmental option to that provided for the Expansion option. Where possible a high level of protection should be carried forward to the draft local area plan. The alternatives have regard to the Planning System and Flood Risk Guidelines 2009. In certain instances lands likely to pose a flood risk have been designated for open space purposes. Where possible the Draft local area plan should be prepared in accordance with the elements of this alternative which aim to reduce and mitigate flood risk.

7.1.7 Material Assets

A goal of this Draft local area plan is to maximise the use of existing infrastructure, particularly transportation and services infrastructure. Alternatives 1 and 2 have been prepared in strict accordance with this goal in that future development is centered in close proximity to town centres and neighbourhood centres. Alternative 3 promotes development on the fringes of the plan area which would result in greater car journey with increased emissions which would have a negative environmental impact. The draft LAP should be prepared in accordance with the elements of the Alternatives which would contribute to the achievement of this goal, namely the zoning of land which can be supplied by waste water services and public transport links.

7.1.8 Cultural Assets

There is no significant difference between alternatives in terms of the degree to which architectural and archaeological heritage is protected and conserved. As such, the adoption of any alternative could achieve this goal, subject to objectives being included in the written statement for the protection and conservation of architectural and archaeological heritage.

7.1.9 Landscapes

There is a significant variation between the alternatives in terms of the degree to which landscapes are protected and conserved. The environmental option promotes a high level of protection to the scenic landscape and the concentric and compact option has a neutral effect. In the environmental option lands have been further zoned greenbelt on the fringes of the plan area which provides a greater protection of the landscape. In the case of the concentric and compact option this alterative is neutral in that there is not a significant impact on the landscape. In the case of Alternative 3 due to the expansion of lands into the rural area this option would be in conflict with the environmental SEOs of protecting landscapes.

7.1.10 Cumulative Environmental Assessment of Alternatives

In order to aid in the assessment of how the alternatives may impact on the environment of the plan area, a cumulative environmental assessment has been undertaken using Geographical Information Systems. The cumulative environmental assessment is a measure of the likely effect on the environmental sensitivity of a particular site multiplied by the likely effect of the type of development permitted by virtue of a zoning objective. The assessment is a useful tool for undertaking comparisons between the environmental effects of alternatives and in highlighting areas that require mitigation measures.

To carry out this assessment, it is necessary to assign each land use type with a weighting. This weighting system is outlined in Table 7.2 below and is based on the level of potential impact that each type of land use is perceived to generally have on the receiving environment. As shown on the below table, zonings with a weighting of 1 include land uses with objective that aim to prevent interferences with the natural landscapes while zonings with a weighting of 6 include land uses that are intense in nature and which are likely to have the highest impact on the environment.

Table 7.2: Weighting According to Perceived Impact on Environment of Zoning

Zoning	g to Perceived Impact on Environment of Zoning Weighting
9	
Active Open Space	2
Agriculture	2
Community & Educational	3
Employment	5
Existing Residential	4
Development	
Greenbelt	2
High Density Housing	4
Local Corner Shop	6
Low Density Housing	4
Medium Residential	4
Development	
MUZone1	6
Natura2000	1
Neighbourhood Centre	6
Open Space	2
Parkland	2
Tourism	5
Town Centre	6
Public Utilities	4

- 1- Low Impact
- 6- High Impact

In addition to the weightings attached to the zonings, the assessment involves the use of the baseline map of environmental sensitivities. This map attached a weighting ranging from 0 to 100 to each piece of land in the plan area, whereby 0 represents a low environmental sensitivity and 100 represents a high environmental sensitivity.

A Geographical Information System (GIS) application was then used to overlay the land use maps set out in the alternative on top of the baseline map of environmental sensitivities. For each pixel of land in the plan area, the GIS system multiplied the weighting attached to the baseline map by the weighting attached to the zoning map. The final score represents the likely impact on the environment of implementing a plan alternative. The results of this cumulative assessment are graphically illustrated on the maps set out in Figures 7.1, 7.2 & 7.3.

The cumulative environmental assessment is based on assumptions regarding the impact on the environment with a low or medium level of mitigation. This ensures an extremely high level of environmental protection within the plan area. As the cumulative environmental assessment is based on assumptions regarding impact on the environment it should be noted that this assessment should only be used to enable a strategic overview of the environmental impact of the varying alternatives rather than a definitive assessment.

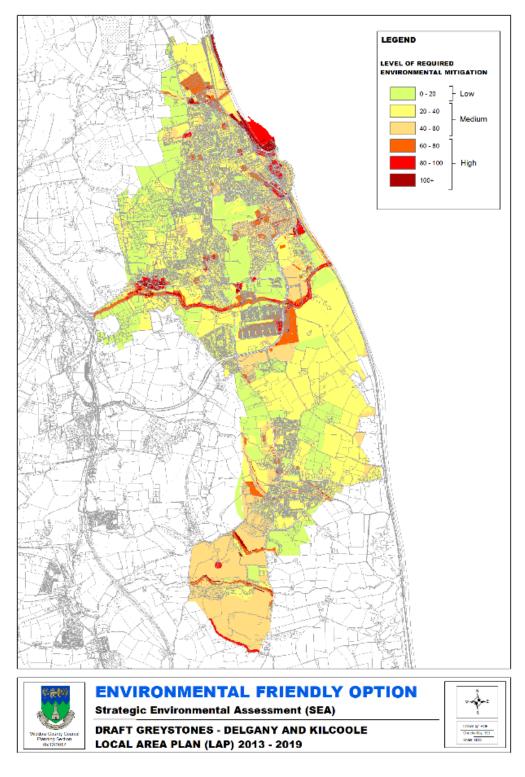


Figure 7.1 Environmental Friendly Option

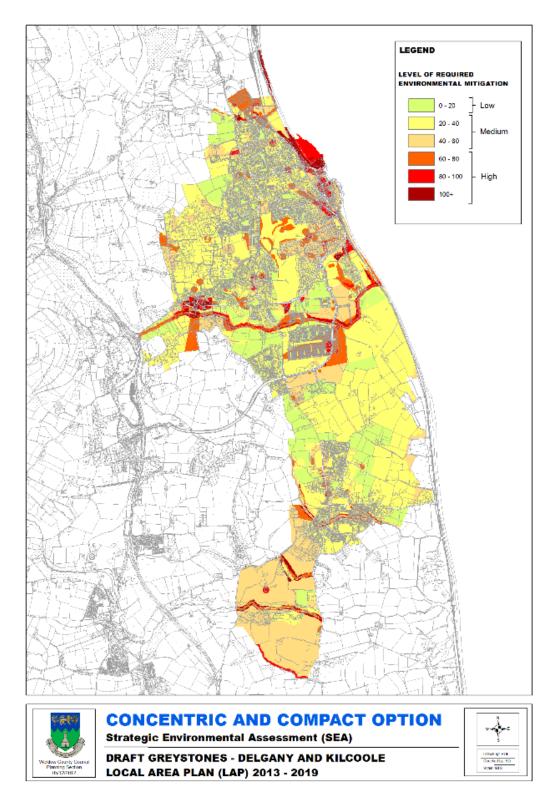


Figure 7.2 Concentric and Compact Option

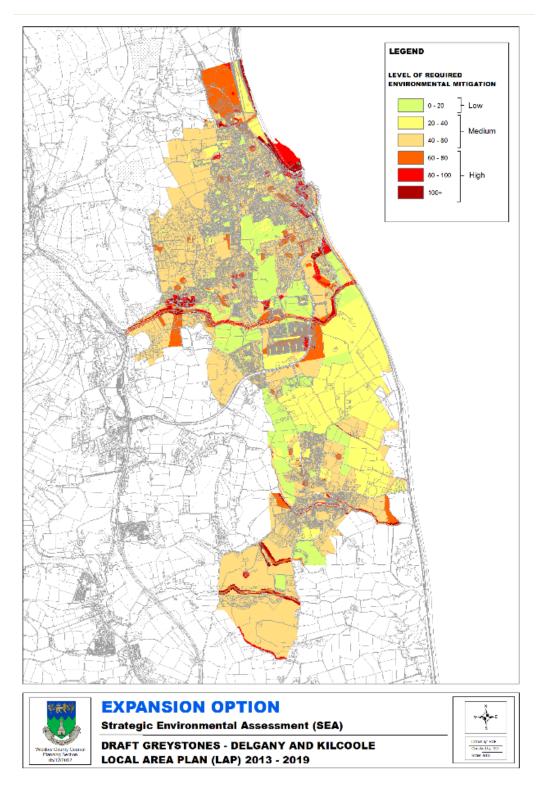


Figure 7.3 Expansion Option

The results of the assessment indicate that subject to minor variations, there is no significant difference between the site specific environmental impacts of the alternatives. The results indicate a degree of conformity across the alternatives whereby each alternative highlighted

the same sites that have characteristics and proposed zonings that are likely to result in higher environmental consequences. At these locations it is essential that mitigation policies are introduced to avoid offset or reduce any potential negative effects on the environment. A description of these locations is included below:

Greystones and Kilcoole Town Centre

On each alternative the core retail area of the plan area is shown to be an area that requires a high level of environmental mitigation. This is a consequence of the intensive nature of town centre zoning objective and the large number of environmental sensitivities in this area, namely the ACA and protected structures. The harbour area (Action Area Plan 1) due to the level of intensification of development would require mitigation measures to be implemented. It should however be noted that the AAP1,draft plan and the CDP 2010-2016 contains objectives that have included appropriate mitigation measures in order to facilitate the Harbour development. Alternative 2 promotes compact urban form and sustainable transportation and land use pattern, which reduces the need to travel and which provides access to housing, employment, health, educational and amenity space. This development pattern consequently promotes a healthy and high quality living environment.

Rivers

In all alternatives, the river systems of the area are shown to require a higher level of mitigation. Where possible, it is essential that the Draft LAP includes open space/river buffers in order to safeguard as much as possible these systems from possible sources of pollution arising from run off and discharges from developments located in close proximity. In existing built up areas, mitigation objectives are required to be included to appropriately deal with run off. The introduction of objectives to promote Sustainable Urban Drainage Systems (SUDS) is particularly important in this regard.

Flooding

In all of the alternatives, areas which are prone to flood risk require a high level of mitigation. In this regard all of the alternatives have regard to the "Guidelines on the Planning System and Flood Risk Management" (DoEHLG/OPW, 2009).

Lands affected by Listed Prospects and Views

The Environmental option aims to prohibit development in the immediate foreground of the view and prospects through the introduction of an Open Space/Greenbelt zoning objectives. In the remaining two options there is not the same level of protection afforded hence higher level of mitigation is required. It is essential that the LAP includes objectives to ensure that listed prospects and views are protected.

Housing

In all of the alternatives there is a requirement to zone enough land to accommodate the expected growth of the plan area as a result there are lands zoned on the peripheral of the plan area to accommodate the necessary growth (Blacklion, East Kilcoole, North Greystones). It is essential that the draft LAP includes objectives that ensure the protection of the lands required to accommodate this growth.

Built and Natural Heritage

In all of the alternatives, the built and natural heritage requires a high level of mitigation. The harbour area of Greystones has been designated an Architectural Conservation Area (ACA) which increases its protection. With all three alternatives there is a clear recognition of the importance of archaeological sites, record of protected structures, trees and local biodiversity areas. It is essential that the draft local area plan includes objectives to ensure that the built and natural heritage is protected

7.2 Difficulties encountered in the consideration of alternatives

The SEA Regulations require a consideration of the difficulties encountered in the consideration of alternatives. There were no significant difficulties faced in the compilation of information required to undertake the SEA assessment, or in the technical expertise of the

review team. Notwithstanding this, the lack of local level spatial quantitative data for some baseline indicators, including for example, population, health, climate and air, has reduced the reliability and validity of results relating to the assessment.

7.3 The preferred Alternative:

On the basis of the above analysis Scenario 1 and Scenario 2 would be likely to improve the status of a number of the SEOs and as a result these two alternatives emerge as the most environmentally sustainable options. If unmitigated, Scenario 3 would be likely to result in a number of adverse environmental impacts. Having regard to the aspiration of providing a balanced approach between Social, Economic and Environmental considerations, it was deemed necessary to integrate some of the elements of these alternatives in the framing of the plan. For example the plan provides for the zoning of residential development to the north of the plan area (Blacklion) although the zoning of these lands conflicts with a number of SEOs however the environmental objectives can largely be offset by appropriate mitigation measures as indicated in section 9 to follow. Taking into consideration the requirements of higher order plans (RPG's 2010 – 2022 and CDP population targets) it was considered appropriate to zone these lands as they were situated in close proximity to existing community and educational facilities.

The key areas identified as requiring mitigation relate to lands adjoining the Tree Trouts Stream, Lands zoned for Employment to the south of the plan, Local Biodiversity Areas within the plan area, the town centre area which includes the Architectural Conservation Area and the existing protected buildings structures and monuments within this area.

The Draft Local Area Plan for Greystones Delgany and Kilcoole: The Draft Local Area Plan that has emerged from the Plan preparation corresponds most closely to the concentric and compact settlement pattern but also includes key sections of the other alternatives assessed

8.1 Introduction

This section of the Environmental Report is an assessment of the "likely significant" effects of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019/Proposed Variation on the environment. This assessment has been undertaken through a determination of the "likely significant" impact of the objectives of the draft local area plan on the Strategic Environmental Objective (SEOs) set out in the Environmental Report. The interactions between the SEOs and the provisions of the plan determine the likely significant effects of implementing the plan. These effects include secondary, cumulative, synergistic, short, medium and long term permanent and temporary, positive and negative effects.

The assessment carried out was primarily qualitative in nature, based on the expert judgment of the SEA/AA and plan-making team. A precautionary approach was adopted in undertaking the assessment, whereby, in the absence of scientific certainty, a prudent approach to be taken in the protection of the environment. The methodology for the carrying out of this assessment is in accordance with the 'Implementation of SEA Directive: Assessment of the Effects of Certain Plans and Programmes on the Environment: Guidelines for Planning Authorities' (DoEHLG, 2004). An SEA Assessment Matrix is set out in the attached Appendix (1), on which the Draft local area plan's development objectives are listed on one axis and the Strategic Environmental Objectives (SEOs) are listed on the other axis. Potential effects of the Draft local area plan on the SEOs are determined as follows:

	Significance of Impact	
	Positive ¹⁶	
	Negative ¹⁷	
	Negative Impact mitigated	
	No significance relationship/neutral/uncertain	
С	Cumulative ¹⁸ –Impact that is ameliorated by other impacts	

The SEA Assessment Matrix includes a column headed "comments", which describes the reasons why a negative impact has been identified and an additional column to identify the environmental objectives that mitigate the negative impacts.

A summary of the findings of the SEA Assessment Matrix is set out in the following section. While the majority of impacts were found to be either positive or neutral, particular attention has been paid to the identification of the draft local area plan objectives that conflict with some of the SEOs of the Environmental Report and the measures that have been adopted to mitigate or offset these effects.

8.2 Soil

Overall the SEA matrix indicates that the plan has a neutral or beneficial impact on the SEO to maintain the quality of soils. The LAP promotes a compact urban form and sustainable land use pattern. This approach maximises the use of the existing built environment and in combination with objectives that protect designated and non-designated sites it has an overall effect of positively contributing to the quality of soils in the plan area. Objective EMP3

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¹⁶ A positive impact improves the quality of the environment

¹⁷ A negative impact diminishes the quality of the environment

Cumulative impacts are considered to be any impacts that expand and compound over time, e.g. the improvement of water quality over time would have a cumulative and positive impact on biodiversity as ecosystems improve which could also have a cumulative effect on landscape.

encourages the redevelopment of already developed or brownfield lands which would have a positive impact on the protection of soils.

The SEA assessment did identify the following objectives could be detrimental to the achievement of the SEO:

- Objectives for the development of new and improved road infrastructure can result in the compaction of soil which reduces soil quality
- Development of greenfield sites is likely to result in the development of virgin greenfield sites, which may compromise soil quality

The above potentially harmful effects are mitigated by the environmental objectives SG1-6 and Chapter 17 of the County Development Plan 2012-2016.

8.3 Biodiversity, Flora and Fauna

One of the most important Environmental Protection Objective is that which relates to the protection of biodiversity. Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEO B1. The following objectives of the draft local area plan are particularly important in the achievement of this objective:

- The greenbelt zoning to the north of Greystones provides a buffer to the Bray Head SAC. The greenbelt zoning between the settlements of Greystones-Delgany and Kilcoole provides a greater protection of the rural area between the two settlement areas. Objective HER10 ensures the protection of these areas.
- Non-designated sites, including urban habitats and public open space areas have been zoned Open Space, where possible
- Objectives are included to protect other natural heritage features including trees, wildlife corridors, hedgerows, natural boundaries etc.
- New protection in the form of a buffer zone has been provided for riparian habitats along the main water bodies within the plan area. The main water bodies within the plan area include, Three Trout Stream, the Newtown River from Newtown to Murrough SAC, Kilcoole Stream (from Kilpedder to Kilcoole feeding to Murrough SAC). These buffer areas have been zoned "open space" where possible which will provide greater protection and enhancement of the quality of the water entering the Murrough SAC.

Notwithstanding the above, it should be noted that a significant number of the LAP objectives were found to conflict with the SEO B1 to maintain and enhance biodiversity. These effects and the mitigation measure introduced the SEA processes are described below:

- Section 5 of the LAP sets out objectives for the promotion of employment and economic development. In general industrial activities can result in emissions which can have an adverse impact on air, water and land, which can have a cumulative impact on biodiversity. Employment Objectives conflict with SEO objective B1, however it is considered that these effects can be successfully mitigated through the environmental objective.
- Objectives for the promotion of tourism and recreation activities (coastal walkway) and for the promotion of sustainable energy forms could have damaging effects on natural heritage. However these effects can be successfully mitigated through the environmental objectives set out in the draft local area plan and CDP 2010-2016.
- Objectives for the development of new roads can be detrimental to natural heritage, both in a direct and cumulative manner (whereby increased car usage results in emissions harmful to natural heritage.) It is difficult to mitigate the harmful effect of new roads on non-designated sites; however the requirements of the Habitats Directive will safeguard the protection of Natura 2000 sites.

The draft LAP includes a significant number of environmental protection objectives that mitigate successfully any potential harmful effects. These objectives include the following:

8.4 Population and Human Health

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEO to provide for population growth on appropriate lands within a healthy and high quality environment. Of key importance to the achievement of this objective is the fact that the Draft Local Area Plan provides enough zoned land to meet the needs of projected population targets for the lifetime of the current plan and these lands can be easily served with the necessary services infrastructure (water and wastes infrastructure). The lands projected for development are in close proximity to the town centre or neighbourhood centres and are also located within close proximity to public transport links (The Dart, Commuter train line and buses) and the road network. In addition, the strategic location of Greystones and Kilcoole within close proximity to the Dublin metropolitan area and the key public transport links would support the expected growth levels in the population/housing which have been outlined in the draft LAP. The land-use pattern that is proposed within the LAP results in the promotion of a compact urban form and sustainable transportation and land use pattern, which reduces the need to travel and which provides access to housing, employment, health, educational, amenity space and greenbelts. This development pattern consequently promotes a healthy and high quality living environment.

Any negative impacts on the SEOs relate to the development of new roads within the plan area, however the improvement of the road networks are necessary for the sustainable development of the area and will enhance the quality of the environment within the plan area. The development of roads infrastructure generally promotes car based travel. This conflicts with the target to promote a modal shift to public transport, walking and cycling and is likely to increase noise and air pollution which maybe contrary to the objective to create a healthy environment. Notwithstanding this, it is noted that the these potential adverse effects are offset by the fact the draft LAP includes a large number of objectives for the development of walking and cycling routes, the creation of walkable neighbourhoods and the greater use of public transport. These objectives include the following: TOUR 2-TOUR3, TS7-TS12.

8.5 Climatic and Air Factors

Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to minimize greenhouse gas emissions. Notwithstanding this, the SEA assessment did identify that objectives for the development of new roads and transportation infrastructure is likely to have combined effects of increasing private vehicular use which consequently increases greenhouse gas emissions. No environmental objective can mitigate these effects. The draft LAP promotes a compact urban form which facilitates mixed use neighbourhoods with increased promotion of public transport, walking and cycling facilities. This land use pattern reduces dependency on private vehicular use and contributes to the reduction in greenhouse gases

Notwithstanding the above, objectives for the development of employment and enterprise (EMP1-EMP4) promotes industrial activities that could result in noxious emissions. The development of roads can result in increased level of car based journeys which results in higher levels of greenhouse emissions which has a negative impact on the quality of air. It is difficult to mitigate against the construction/improvements of the road network where it is required however the Local Area Plan is promoting a sustainable land use pattern with compact urban form and walkable neighbourhoods.

The Draft LAP includes environmental objectives which successfully mitigate potentially damaging effects on the environment. Key objectives in this regard include: AE 1-3, Chapter 13 of the Wicklow County Development Plan 2010-2016

8.6 Water Resources

Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to achieve and maintain a "good" quality status in all water bodies within the plan area, in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015. In relation to flooding the SEA matrix indicates that the draft LAP has a positive or neutral impact on the SEO to reduce and mitigate flood risk. In accordance with the "Flood Risk Management Guidelines for Planning Authorities" (DOEHLG, OPW, 2009), a Flood Risk Assessment (FRA) of the draft LAP has been prepared. This assessment has ensured that inappropriate development has been avoided in areas that are at risk of flooding.

The following objectives of the Draft LAP are particularly important in the achievement of the SEOs:

- Strong protection is afforded to the Three Trouts River through the designation of an Open Space area that provides a buffer along the length of the river system that is within the plan area:
- Land adjoining the remaining rivers systems within the plan area has been re-zoned open space where possible providing an ecological buffer to these river systems
- The groundwater bodies are a protected drinking water supply. It is considered that the greatest threat to this groundwater body is the development of private on-site wastewater treatment and disposal systems. Having regard to the fact that the plan area is served by the public mains system, objectives have been included in the Draft local area plan through the SEA process to ensure that the use of the public mains is prioritised with permission for private on-site waste waster and disposal systems restricted to exceptional circumstances only. Likewise the integrity of groundwater can be compromised by private water abstractions. Objectives have been introduced to the draft local area plan through the SEA process to ensure that the use of the public mains system is prioritised(TS2), with permission for private abstractions systems restricted to exceptional circumstances only;
- The zoning of "open space" along the rivers which feed into the coastal water bodies will improve the water quality to ensure the retention of the "Blue flag status" of the south beach in Greystones;
- Undeveloped land adjoining the Kilcoole river system south of Kilcoole town has been rezoned from residential to open space;
- Employment lands situated in the Bulford Business Park south of the Kilcoole Stream have been rezoned from employment to open space;
- Lands to the north of the Kilcoole Stream and located in AP9 have been rezoned to open space;
- Lands to the east of AP10 have been rezoned open space;
- Flood Risk areas in the town centre and harbour area have passed the justification test for flooding.

The following Draft local area plan objectives were found to conflict with the SEOs to achieve and maintain a "good water quality status" in all water bodies within the plan area, in line with the targets set out in the Eastern River Basin Management Plan 2009-2015:

- The promotion of employment and economic uses could result in pollution risk to the water bodies within the plan area;
- Objectives for tourism and recreation generally promotes greater use and access to rivers, ports harbour and coastal areas, thereby increasing the potential for pollution of these water bodies;
- Objective R13 for the improvement to the existing road network over the Three Trouts River could have potential harmful effects:
- Objectives RES9 & RES10 promote residential development some of which may require private waster water treatment systems which could potentially have a negative effect to the quality of the groundwater.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

TS1-TS3, HER 5, Chapter 12 & 17 of the Wicklow County Development Plan 2010-2016

8.7 Material Assets

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to make the most efficient use of existing water services and transportation infrastructure. A particularly significant SEO is to make the most efficient use of existing water services infrastructure.

All of the draft LAP objectives have an either neutral or beneficial impact on the SEOs to make the best use of the existing road and transportation infrastructure. In this regard the draft local area plan is successful in directing development to locations served by existing road and transportation infrastructure. It is noted that the Draft LAP includes objectives for new roads within the plan area and the upgrade of certain roads. It is considered that these new roads will enhance the efficiency of existing roads, through the provision of important links to the key through roads in the area.

The objectives relating to the construction of new roads are materially inconsistent with SEO MAT 2 which promotes the best use of the existing road network notwithstanding this the draft plan promotes the concept of sustainable land-use patterns which conforms to sustainable planning and development of the area. The draft plan promotes the best use of the road infrastructure by appropriately zoning land for a range of land uses located along the main transport routes and promotes the "walkable neighbourhoods" concept.

8.8 Cultural Assets

Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to protect and conserve architectural and archaeological heritage.

The following objectives of the LAP are particularly important in the achievement of the SEOs:

- The designation of a new Architectural Conservation Area within the Greystones Harbour Area;
- The designation of a "Local Character Area" in Kilcoole;
- The protection of the built and natural heritage of the Rathdown Heritage area which facilitates the development of this area as a heritage park.

Notwithstanding this the SEA assessment did identify that the following objectives that could be detrimental to the achievement of the SEOs:

- Objectives that relate to the Greystones and Kilcoole town centre that encourages infill and backland development of properties that could be detrimental to the integrity of archaeological sites;
- Objectives for the promotion of increased tourism and recreation can result in damaging effects on natural and built heritage;
- The development of the Charlesland Action Plan(AP7) may compromise archaeological heritage at this location;
- Objectives that relate to employment uses can result in potential damage to built heritage. The development of the E1 lands at Charlesland (EMP 4) may compromise the integrity of archaeological sites.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

HER 1-14 Chapter 16 of the Wicklow County Development Plan 2010-2016.

8.9 Landscapes

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to protect scenic landscapes. It should be noted that the landscape of the Bray Head area is considered to be adequately protected by virtue of the strong environmental objectives in the area and the green belt zoning of the said landscapes.

It should be noted that the length of prospect no.2 has been reduced slightly to ensure no conflict with the development of zoned land at Charlesland occurs. The development of these lands is regarded as sustainable as it is considered that these lands are a natural expansion of the Charlesland development and are located in close proximity to community facilities. The amended prospect is reflective of the most scenic part of the original prospect, ensuring that the visual amenity of this area is safeguarded.

The amended prospect is reflective of the most scenic part of the original prospect, ensuring that the visual amenity of this area is safeguarded.

The SEA process identified that the following objectives of the Draft LAP required mitigation in order to ensure achievement of the SEOs:

- Increased levels of tourism may compromise the landscape quality of the plan area
- The promotion of the coastal walkway (TOUR3) may compromise the landscape quality of the plan area
- The construction of roads may have a significant impact on the landscape quality of the plan area.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

HER 1-14 Chapter 16 of the Wicklow County Development Plan 2010-2016

8.10 Assessment of the likely Environmental Effect of the Draft Plan

Taking account of the above assessment, it is concluded that the overall effect of the Draft Greystones-Delgany & Kilcoole Local Area Plan 2013-2019 on the environment is likely to be beneficial or neutral. Any likely significant adverse effects on the environment have been prevented, reduced or offset.

Section 9 Mitigation

9.1 Introduction

Mitigation measures include environmental objectives that aim to prevent or reduce, as fully as possible, the significant adverse impacts on the environment of implementing the Draft Greystones-Delgany and Kilcoole LAP 2013-2019.

The environmental assessment process was completely iterative between the plan making team and the environmental team (SEA/ Appropriate Assessment screening). As a consequence, policies and recommendations were re-worded and changed where necessary to accommodate mitigation of environmental impacts. All mitigation objectives are highlighted in light green in the SEA Assessment Matrix.

The following sections set out the environmental objectives that are key objectives for the mitigation of the potential significant adverse effects on the environment of the plan area:

9.2 Population

RES1: To adhere to the objectives of the Wicklow County Development Plan 2010-2016 in regard to population and housing as are applicable to the plan area. In the assessment of development proposals, regard shall be paid to the Guidelines for Planning Authorities on Sustainable Residential Development in Urban Areas (Cities, Towns and Villages), (DoEHLG, 2009).

RES2: Notwithstanding the zoning of land for residential purposes, the development management process shall monitor and implement the population targets for Greystones-Delgany and Kilcoole as set out in the Wicklow County Development Plan 2010-2016, and shall phase and restrict, where necessary, the granting of residential planning permissions to ensure these targets are not exceeded.

RES3: The development of zoned land should generally be phased in accordance with the sequential approach:

- Development should extend outwards from centres with undeveloped land closest to the core and public transport routes being give preference, i.e. 'leapfrogging' to peripheral areas should be avoided;
- A strong emphasis should be placed on encouraging infill opportunities and better use of under-utilised lands; and
- Areas to be developed should be contiguous to existing developed areas.

Only in exceptional circumstances should be above principles be contravened, for example, where a barrier to development is involved. Any exceptions must be clearly justified by local circumstances and such justification must be set out in any planning proposal.

RES7: Notwithstanding the zoning objectives set out within this plan, lower density residential developments may be required at certain locations; where by virtue of environmental, typographical and service constraints, including lack of public mains infrastructure, poor road access, steep gradients, flooding issues and significant coverage of natural biodiversity; a lower density of development is preferable. Having regard to these type of constraints, the planning authority will limit growth in the amount of housing, on lands zoned 'R2.5: Residential (2.5/ha)' and 'R5: Residential (5/ha)' along Blackberry Lane, Delgany and lands zoned RE: Existing Residential at Kindlestown Upper and Bellevue Demesne. In these areas housing shall generally be restricted to the development of low density single housing, subject to all matters being addressed to the satisfaction of the planning authority.

9.3 Tourism

TOUR1: To promote and facilitate the development of tourism and recreational related development within the overall plan area. Tourism and recreational related development shall be located on suitably zoned land within the settlement boundaries of Greystones/Delgany and Kilcoole. Applications for tourism and recreational related developments on zoned land (e.g. Greenbelt lands), outside the settlement boundaries shall be determined on the basis of policies that apply to the rural area, as set out in the Wicklow County Development Plan, 2010-2016, and in particular, TR4 of the CDP.

TOUR2: To promote the development of tourism and recreational related developments in a sustainable manner at suitable locations, that are of an appropriate scale and design. It is an objective of the Council to particularly promote tourism and recreational related developments that are associated with/ which provides access to/ which increase awareness of the following tourism products or themes: (i) the area's coastal amenity, including the existing cliff walk, Greystones harbour and marina, the former medieval settlement at Rathdown, and Kilcoole marshes linking the Murrough and the East Coast Nature Reserve near Newcastle, (ii) Kindlestown Wood and local recreational trails linking it with Glen of the Downs Nature Reserve, (iii) Delgany Heritage Trail, (iv) early Christian, Medieval, Victorian and Edwardian built heritage, (v) golfing, and (vi) entertainment/ cultural venues, e.g. restaurants, craft shops, art galleries, family entertainment venues etc.

9.4 Social Infrastructure

SOC1: Social infrastructure shall be progressed in tandem with residential development and the latter will only be permitted on the basis of satisfactory provision of land and/or facilities for the former.

SOC8: Protect and improve public and private open space and recreation provision.

SOC9: Public open space within residential housing estates shall be preserved and enhanced. No development shall be permitted that would compromise the integrity of these spaces. In particular, residential development shall not be permitted on designated public open space within these areas.

SOC10: To provide for the development of active open space to meet the needs of the current and future population of the plan area.

SOC11: The redevelopment for alternative uses of recreational lands whether owned by private recreational clubs or publicly owned, will normally be resisted by the Council unless suitable alternative recreational facilities can be provided in a convenient location.

9.5 Services

TS1: Ensure that a reliable and effective water services, drainage, energy, waste management, recycling and communications infrastructure is put in place to service the existing and future development needs of the settlement, in a manner that protects the quality of the environment, and to allow for the improvement of public services and public utility installations.

TS2: All new development shall be required to connect to the public mains systems for water supply and waste water collection and disposal. Permission for the connection of single houses to private waste water systems and water supply systems will only be granted in exceptional circumstances, where there is no adverse effect on the environmental integrity of the area and in accordance with the proper planning and sustainable development of the area.

TS3: To encourage and facilitate the connection of unsewered areas, including individual properties serviced by septic tanks, to existing and planned public mains systems.

9.6 Flooding

TS4: To implement flood management objectives as set out in the Wicklow County Development Plan 2010-2016 and to implement the 'Guidelines on the Planning System and Flood Risk Management' (DoEHLG/OPW, 2009).

TS5: To restrict the types of development permitted in Flood Zone A and Flood Zone B to the uses that are 'appropriate' to each flood zone, as set out in Table 3.2 of the Guidelines for Flood Risk Management (DoEHLG/OPW, 2009). Developments that are an 'inappropriate' use for a flood zone area, as set out in Table 3.2 of the Guidelines, will not be permitted, except where a proposal complies with the Justification Test for Development Managements, as set out in Box 5.1 of the Guidelines. Flood Risk Assessments shall be in accordance with the requirements set out in the Guidelines.

TS6: Notwithstanding the identification of an area as being at low or no risk of flooding, where the planning authority is of the opinion that flood risk may arise or new information has come to light that may alter the flood designation of the land, an appropriate flood risk assessment may be required to be submitted by an applicant for planning permission.

9.7 Roads and Transportation

TS7: Promote the development of safe and accessible pedestrian and traffic routes.

TS9: To facilitate the introduction of traffic management, calming and reduction measures throughout the plan area.

TS10: Development of any road, with the exception of minor access roads, over the lower slopes of Bray Head within the LAP boundary will not be permitted.

TS11: To provide for the development of sustainable modes of transportation within the plan area including public transport, walking and cycling, in particular to provide high quality pedestrian and bicycle links between residential areas and retail, recreational and educational facilities. The Council will facilitate the following:

- Any works required to upgrade the frequency and capacity of existing DART services.
- Any works required to upgrade Kilcoole Train Station.
- The continued operation of Greystones park and ride.

TS12: To develop the 'greenroute' network for pedestrian and/or cycling facilities. The proposed indicative 'greenroute' network is indicated on Map B. Green routes should be developed with a common scheme of signage and/or markings. Where feasible, proposals for development should provide for the development of these green routes.

While certain parts of the 'greenroute' network are likely to be implemented in the short term, certain parts are considered to be a more long term aspiration. Implementation of 'green routes' is subject to the available funding and further design and feasibility studies. Some sections may also be delivered as part of proposals for the development of zoned land.

9.8 Heritage

HER1: Protect and enhance the character, setting and environmental quality of natural, architectural and archaeological heritage, and in particular those features of the natural landscape and built structures that contribute to its special interest. The natural, architectural and archaeological heritage of the area shall be protected in accordance with the objectives set out in the Wicklow County Development Plan 2010-2016.

HER2: To preserve and improve the integrity of Natura 2000 sites and to prohibit development that adversely affects the integrity of any Natura 2000 site, in light of the site's conservation objectives. Development proposals shall comply with the following:

- Any proposed development with potential to impact upon a Natura 2000 site shall be subject to the requirements relating to Appropriate Assessment as set out in the Part XAB of the Planning and Development Act 2000 (as amended) and in accordance with 'Appropriate Assessment of plans and projects in Ireland-Guidance for Planning Authorities' (DoEHLG, 2009).
- Avoid encroachment on a Natura 2000 site and implement an appropriate buffer zone
 on adjacent sites, as required, where feasible or as determined following consultation
 with NPWS or other relevant body.
- Ensure that recreational use is directed away from sensitive areas within the Natura 2000 site, in consultation with National Parks and Wildlife Service (NPWS).

In order to ensure the protection of the integrity of Natura 2000 sites, the planning authority is not limited to the implementation of the above objectives, and shall implement all other relevant objectives of the CDP as it sees fit.

HER3: To protect wherever possible wildlife habitats that are located outside protected and designated areas, including the coast, cliffs, dunes, trees, hedgerows, drainage ditches, scrub, woodland, rock outcrops, watercourses, stone walls and other features of the natural landscape that provide wildlife corridors and which contribute to the biodiversity of the area. In the assessment of planning applications, the Council may require that such features are retained and incorporated into future development. In considering proposals for development, regard shall be paid to the Greystones-Delgany Local Biodiversity Area Study (2006). Recommendations set out in this study shall be implemented, as deemed appropriate, by the planning authority.

HER4: To protect and retain trees which contribute to the biodiversity value and the character and amenity of the area. This objective applies to the list of trees indicated in Appendix C and Map B. The list includes trees that are protected under this plan and the Wicklow CDP 2010-2016 including trees that are the subject of Tree Preservation Orders and Trees Considered for Preservation.

HER5: To protect the biodiversity value and associated habitats of water bodies within the plan area in accordance with the objectives as set out in the Wicklow County Development Plan 2010-2016 and Eastern River Basin District Management Plan 2009-2015. In considering proposals for development, regard shall be paid to the recommendations set out in Greystones-Delgany Local Biodiversity Area Study (2006). In particular, recommendations relating to the Three Trouts Stream shall be implemented, as deemed appropriate, by the planning authority. Water bodies within the plan area include the Three Trouts Stream, the Newtown River from Newtown to Kilcoole Marsh via Druids Glen Golf Course, Kilcoole Stream (from Kilpedder to Kilcoole feeding to Kilcoole Marsh), Kilcoole Marsh (a transitional estuarine water body), the Southwestern Irish Sea-Killiney Bay (coastal water body) and a number of groundwater bodies.

HER6: To maintain and protect the coastal and marine character of the area and to provide for its enjoyment as a recreational and natural asset.

HER7: To support the implementation of Bray Head as a Special Amenity Area Order (SAAO).

HER8: To maintain and enhance the 'cliff walk' from Bray to Greystones, including the development of services and facilities for visitors such as car parking, signage, information boards, footpath surfaces, and public toilets, while preserving its rugged and natural character and its biodiversity value. It is a particular objective of the Council to provide for the development of public toilet facilities at the harbour end of the 'cliff walk'.

HER9: To facilitate the undertaking of works required for (i) the protection of the coastline from erosion and (ii) the maintenance of the 'Blue Flag' status on South Beach, Greystones

HER10: Within Greenbelt areas, it is the objective of the Council to generally protect the open nature and landscape quality of lands, to protect and enhance local biodiversity, and to maintain the primary use of the land for agricultural purposes. The following objectives shall apply to the greenbelt areas:

- Greenbelt areas form part of the rural area. As such, the rural development objectives
 and standards of the Wicklow County Development Plan 2010-2016 shall apply as
 appropriate. Rural housing may be permitted subject to compliance with the rural
 development objectives and standards of the CDP. The Coastal Zone Management
 Plan objectives, as set out in Chapter 18 of the CDP shall apply to areas designated
 a 'coastal cell'.
- Protect the integrity of Natura 2000 sites in accordance with objective HER2.
- Protect listed views/prospects and other features of natural and built heritage
- Provide for the development of green routes in the area. In particular, facilitate the
 development of (i) a pedestrian/cycling route between Lott Lane, Kilcoole and
 Shoreline Sports Park, Charlesland, and (ii) a coastal walk, having due regard to
 environmental designations and compliance with the EU Habitats Directive, and to
 restrict development that interferes with the achievement of this objective.

HER11: To protect the views and prospects as set out in the Wicklow County Development Plan 2010-2016 and this plan. Protected views and prospects within the plan area are indicated in Appendix B and Map B.

HER12: To preserve the character of Architectural Conservation Area's (ACAs), in accordance with Appendix B. The following objectives shall apply to ACAs:

- Development will be controlled in order to protect, safeguard and enhance the special character and environmental quality of ACAs.
- The buildings, spaces, archaeological sites, trees, views and other aspects of the environment that form an essential part of the character of an ACA will be protected.
- The design of any development in an ACA, including any changes of use of an existing building, shall preserve and/or enhance the character and appearance of the ACA as a whole.
- Schemes for the conservation and enhancement of the character and appearance of an ACA will be promoted.
- Planning permission will be required for extensions to residential dwellings within an ACA.
- The character and appearance of the urban public domain within an ACA shall be protected and enhanced. The Council will seek to work in partnership with local community and business groups to implement environmental improvements within ACAs.
- Within the Church Road ACA, alterations to the front boundaries to accommodate offstreet car parking will not normally be permitted.
- Historic items of street furniture and paving within ACAs shall be retained, restored and repaired.
- All electricity, telephone and television cables within ACAs shall be placed underground where possible.

It should be noted that the designation of an Architectural Conservation Area does not prejudice innovative and contemporary design. The principle of a contemporary and minimalist design style will be encouraged within ACAs, provided it does not detract from the character of the area. It is considered that new buildings should be of their own time in appearance and should not replicate the style and detailing of heritage buildings. The replication of historic architectural styles is considered to be counter productive to heritage conservation in principle as it blurs the distinction between what is historic and what is contemporary and can lead to the emergence of poorly considered and inauthentic buildings.

HER13: It is Council policy to protect the historic and traditional rural character of the 'Kilcoole Town Centre Character Area'.

The Main Street of Kilcoole retains a traditional provincial town character that is worthy of conservation. This character is represented by the presence simple shop fronts and a good mixture of nineteenth century houses all fronting onto the main street.

The objective relating to the Kilcoole Town Centre Character Area aims to promote the protection of the distinct identity of Kilcoole as a unique and differentiated settlement within the plan area. This 'Kilcoole Town Centre Character Area' is indicated on Map B.

The following objectives shall apply within this area:

- Provide a high standard of urban design that is reflective of its historic and traditional rural character. Particular attention shall be paid to ensuring that the character and setting of the terrace of protected structures along Main Street is protected.
- In order to maximise the efficient use of town centre zoned lands, buildings in Kilcoole should be generally aim to be approximately two storeys in height, subject to the proper planning and sustainable development of the area.
- To reinforce and improve the visual appearance of this area, in particular the west side of Main Street and encourage development that will enhance the vitality and vibrancy of this area.

In determining future planning applications, the Council will carefully consider to what degree proposals for development are sympathetic to the character of this area and the setting of protected structures. In assessing proposals for development the planning authority will have careful regard to the impacts on non-protected structures that contribute to the character of this area.

It should be noted that the designation of the Kilcoole Town Centre Character Area does not prejudice innovative and contemporary design, nor does it prejudice the demolition/improvement or replacement of buildings, as determined appropriate, by the planning authority.

HER14: To protect the natural and built heritage of the Rathdown Heritage Area and to facilitate the development of this area as a heritage park for public amenity and education purposes, in accordance with the objectives for Zone 3 of AP3: Greystones Harbour and North Beach Action Plan.

9.9 Wicklow CDP 2010-2016

As all objectives of the Wicklow County Development Plan 2010-2016 apply to the plan area, the following mitigation objectives as set out in the CDP apply in addition to objectives set out above:

Wicklow County Development Plan 2010-2016 Mitigation Measures

Mitigation Measure Topic	Provisions Integrating Considerations into the Plan			
Designated Ecological Sites	Objectives: BD1, BD2, BD8 and BD7			
Ecological Connectivity	Objectives: BD3, BD4, BD5, BD6 and BD9			
Human Health	Objectives: AE1, AE2, AE3, NP1, NP2, NP3, NP4 and EMP 14			
	Also see measures related to water quality, flooding, waste water treatment and drinking water supply and quality.			
Brownfield Development	Provisions of Chapter 4 Population, Housing and Settlement, Provisions of Chapter 5 Urban Development and Objectives EMP8, RUR4 and RW4			
Status of Surface and Groundwaters	Objectives: RH3, AGR1, AGR4, FTY2, FSH1, WW3, WT1, WT2, WT3, WT4, WT5 and WT6			
Flooding	Goals 7 and 10 and Objectives FL1, FL2, FL3, FL4, FL5 and FL6			
Water Services (Waste Water and Drinking Water)	Objectives: WS1, WS2, WS3, WS4, WS5, WW1, WW2, WW3, WW5, WW7 and WW8			
Greenhouse gas emissions and car dependency	Objectives: PT1, PT2, PT3, PT4, PT5, PT6, PT7, PT8, PT9, CW1, CW2, CW3, CW4, CW5, TE1 and TE2			
Archaeological Heritage	Objectives: AR1, AR2, AR3, AR4, AR5 and AR6			
Architectural Heritage	Objectives: AH1, RPS1, RPS2, RPS3, RPS4, RPS5, VA1, VA2, VA3, ACA1, ACA2, ACA3, ACA4 and ACA5			
Landscape	Objectives: LA1, LA2, LA3 and VP1			

Source: Table 2.1: Mitigation Measures, SEA Statement of the Wicklow County Development Plan 2010-2016

WW2 of Chapter 12 of CDP 2010-2016: "To ensure that all foul water generated is collected and discharged after treatment in a safe and sustainable manner, having regard to the standards and requirements set out in EU and national legislation and guidance documents. The Planning Authority will continue to monitor the cumulative effect of grants of planning permission on available waste water treatment capacity under the terms of the relevant Waste Water Discharge Licence. Where there is inadequate capacity within a Waste Water Treatment Plant to accommodate new development or where the Waste Water Treatment Plant does not meet the terms of the relevant Waste Water Discharge License to the Planning Authority will:

- (a) Refuse planning permission for the development, or
- (b) Consider granting permission with conditions limiting the commencement of development until facilities are suitably upgraded, so long as this is planned to occur within a reasonable timeframe (not more than 3 years) in accordance with the Local Authority's Water Services Investment Programme."

WT1 of Chapter 17 of CDP 2010-2016: "To implement the *EU Water Framework Directive* and associated River Basin and Sub-Basin Management Plans and the EU Groundwater Directive to ensure the protection, improvement and sustainable use of all waters in the County, including rivers, lakes, ground water, coastal and estuarine waters, and to restrict development likely to lead to a deterioration in water quality."

WT3 of Chapter 17 of CDP 2010-2016: "To prevent development that would pollute water bodies and in particular, to regulate the installation of effluent disposal systems in the vicinity of water bodies that provide drinking water or development that would exacerbate existing underlying water contamination."

WT4 of Chapter 17 of CDP 2010-2016: "To minimise alterations or interference with river/stream beds, banks and channels, except for reasons of overriding public health and safety (e.g. to reduce risk of flooding); a buffer of 10m along watercourses should be provided free of built development, with riparian vegetation generally being retained in as natural a state as possible. In all cases where works are being carried out, to have regard to Regional Fisheries Board 'Requirements for the protection of fisheries habitat during the construction and development works at river sites'."

FL9 of Chapter 12 of CDP 2010-2016: "For developments adjacent to all watercourses of a significant conveyance capacity or where it is necessary to maintain the ecological or environmental quality of the watercourse, any structures (including hard landscaping) must be set back from the edge of the watercourse to allow access for channel clearing/maintenance/vegetation. A minimum setback of up to 10-15m will be required either side depending on the width of the watercourse"

FL7 of Chapter 12 of CDP: "To require all new developments to include proposals to deal with rain and surface water collected on site and where deemed necessary, to integrate attenuation and SUDS measures."

AE1-AE3 of Chapter 13 of CDP:

AE1: To regulate and control activities likely to give rise to emissions to air (other than those activities which are regulated by the EPA).

AE2: To require proposals for new developments with the potential for the accidental release of chemicals or dust generation, to submit and have approved by the Local Authority construction and/or operation management plans to control such emissions.

AE3: To require activities likely to give rise to air emissions to implement measures to control such emissions, to install air quality monitors and to provide an annual air quality audit.

SG1-SG6 of Chapter 17 of CDP:

SG1 Geological and soil mapping where available shall be utilised to inform planning decisions relating to settlement, excavation, flooding, food production value and carbon sequestration, to identify prime agricultural lands (for food production), degraded/contaminated lands (which may have implications for water quality, health, fauna), lands with unstable soils / geology or at risk of landslides, and those which are essential for habitat protection, or have geological significance.

SG2 'Sites of Geological Importance' will be protected from inappropriate development at or in the vicinity of the site, such that would adversely affect their existence, or interpretation

SG3 The Council will consult with the Geological Survey of Ireland as it deems necessary, when dealing with any proposals for major developments, which will entail 'significant' ground excavation, such as quarrying, road cuttings, tunnels, major drainage works, and foundations for industrial or large buildings and complexes.

SG4 To facilitate public access to 'Sites of Geological Importance', on the principle of "agreed access" subject to appropriate measures being put in place to ensure public health and safety

SG5 The Council will support efforts by the Geological Survey of Ireland, and other interested bodies regarding promotion of the interpretation of geological heritage in Wicklow, and will encourage the development of a "Wicklow Rock Trail", Geopark or other similar geo-tourism initiatives.

SG6 To facilitate the exploitation of mineral resources, in an environmentally sensitive manner, in accordance with the policies and control measures set out in Chapter 8.

Section 10-Monitoring

10.1 Introduction

The SEA Directive requires that the significant environmental effects of the implementation of Local Area Plans are monitored. Monitoring enables, at an early stage, the identification of unforeseen adverse effects and the undertaking of appropriate remedial action. In addition, monitoring can also play an important role in assessing whether the LAP is achieving its environmental objectives and targets – measures which the LAP can help work towards – whether these need to be re-examined and whether the proposed mitigation measures are being implemented. Monitoring is based on the SEO indicators and targets. These indicators enable quantitative measurement of trends over time.

10.2 Indicators and Targets

Monitoring is based around the indicators, which were chosen earlier in the process. These indicators allow quantitative measures of trends and progress over time relating to the Strategic Environmental Objectives used in the evaluation. Focus will be given to indicators, which are relevant to the likely significant environmental effects of implementing the LAP and primarily to existing monitoring arrangements in order to monitor the selected indicators. Each indicator to be monitored will be accompanied by the relevant target(s) - measures which the LAP can help work towards - which were identified with regard to the relevant legislation.

10.3 Sources

In compliance with the SEA Directive and the DEHLG Guidelines, measurements for indicators come from existing monitoring sources and no new monitoring should be required to take place. Existing monitoring sources exist for many of the indicators and include those maintained by the Greystones Area Office and Wicklow County Council and the relevant authorities e.g. the Environmental Protection Agency, the National Parks and Wildlife Service and the Central Statistics Office. The Development Management Process in Wicklow County Council will provide additional monitoring of certain indicators and targets on an application by application basis. Where significant adverse effects - including positive, negative, cumulative and indirect - are likely to occur upon, for example, entries to the RMP, entries to the RPS or ecological networks as a result of the undertaking of individual projects or multiple individual projects such instances will be identified and recorded and will feed into the monitoring evaluation.

10.4 Reporting

The ongoing monitoring of the Greystones-Delgany and Kilcoole Local Area Plan and its implications on the environment is paramount to ensure that the environment of the Plan area is not adversely affected by the implementation of the Plan. A coordinated approach from all relevant sections within Wicklow County Council will be used to gather data for future plan reviews and the associated SEA process. Indicators, targets and corrective and remedial actions will be reviewed during the preparation of the preliminary monitoring evaluation report.

10.5 Responsibility

Wicklow County Council are responsible for collating existing relevant monitored data, the preparation of a monitoring report, the publication of this report and, if necessary, the carrying out of corrective action.

10.6 Thresholds

Thresholds at which corrective action will be considered by the relevant authority are as follows:

_ Fish kills;

- _ Court cases taken by the DEHLG regarding impacts upon archaeological heritage including entries to the Record of Monuments and Places; and, _ Complaints received from statutory consultees regarding avoidable impacts resulting from development, which is granted permission under the CDP. _ Boil notices on drinking water;

Appendix 1

SEA Assessment Matrix

					Strategic Environmental Objective					
	Soils	Biodiversity, Flora and Fauna	Population and Human Health	Climatic and Air Factors	Water Resources	Material Assets	Cultural Heritage	Protect Scenic Landscapes	Comment	Key Mitigation Objectives
SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015. W-G: To prevent pollution and contamination of ground waters W-F: To prevent development on lands which pose —or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area L2:The protection of listed views and prospects		
Section 3: Population and Housing										
RES1: To adhere to the objectives of the Wicklow County Development Plan 2010- 2016 in regard to population and housing as are applicable to the plan area. In the assessment of development proposals, regard shall be paid to the Guidelines for Planning Authorities on Sustainable Residential Development in Urban Areas (Cities, Towns and Villages), (DoEHLG, 2009).										
RES2: Notwithstanding the zoning of land for residential purposes, the development management process shall monitor and implement the population targets for Greystones-Delgany and Kilcoole as set out in the Wicklow County Development Plan 2010-2016, and shall phase and restrict, where necessary, the granting of residential planning permissions to ensure these targets are not exceeded.										
RES3: The development of zoned land should generally be phased in accordance with the sequential approach: • Development should extend outwards from centres with undeveloped land closest to the centres and public transport routes being give preference, i.e. 'leapfrogging' to peripheral areas should be avoided; • A strong emphasis should be placed on encouraging infill opportunities and better use of under-utilised lands; and • Areas to be developed should be contiguous to existing developed areas. Only in exceptional circumstances should be above principles be contravened, for example, where a barrier to development is involved. Any exceptions must be clearly justified by local circumstances and such justification must be set out in any planning proposal.			С	С						
RES4: Where a housing development is adjoining future development lands or provides the only possible access route to other lands, new roads will be required to be designed to ensure that future access to other lands can be facilitated. This objective shall be applied to zoned lands at Kindlestown Upper. An indicative through access route is indicated on Map A.										
RES5: On undeveloped residentially zoned land, it is an objective of the Council to provide for the development of sustainable residential communities up to a maximum density, as prescribed by the land use zoning objectives indicated on Map A and described in 'Table 11.1: Zoning Matrix'. In existing residential areas, infill development shall be at a density that is appropriate to the established character of the area in which it is located, subject to the protection of the residential amenity of adjoining properties. Apartments generally will only be permitted within Greystones Town Centre, Kilcoole Town Centre, Delgany Village Centre, Neighbourhood Centres, Small Local Centres, Greystones Harbour and North Beach Action Plan, South Beach Action Plan and within 10 minutes walking distance of Greystones DART station. Within existing residential areas, regard shall be paid at all times to the overriding objective of the Council to protect the residential amenity of these areas and to only allow infill residential development where this reflects the character of the existing residential area. Apartments will not normally be permitted o			с	С		c c				
RES6: Purpose built apartments will not be permitted in the Old Burnaby.										
RES7: Notwithstanding the zoning objectives set out within this plan, lower density residential developments may be required at certain locations; where by virtue of environmental, topographical and service constraints, including lack of public mains infrastructure, poor road access, steep gradients, flooding issues and significant coverage of natural biodiversity; a lower density of development is preferable. Having regard to these type of constraints, the planning authority will limit growth in the amount of housing, on lands zoned 'R2.5: Residential (2.5/ha)' and 'R5: Residential (5/ha)' along Blackberry Lane, Delgany and lands zoned RE: Existing Residential at Kindlestown Upper and Bellevue Demesne. In these areas housing shall generally be restricted to the development of low density single housing, subject to all matters being addressed to the satisfaction of the planning authority.										
RES8: No upward limit on housing density is set out for centres. The quantum of development on any site will be guided by adherence to appropriate standards set out in the Wicklow County Development Plan 2010-2016, i.e. standards relating to massing, height, design, fit with fabric of the area, plot ratio, car parking, open space etc., and the protection of residential amenity.			c	С						

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SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of sol within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose —or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the contey of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects		
RES9: To provide for residential development for a maximum of 3 additional units, with no restrictions on purchasing and occupation at Bellevue Demesne (as zoned 'Special R-A' on Map A), subject to all matters pertaining to the proper planning and sustainable development of the site/ area being satisfied.																	Development at this location likely to require septic tank - potentially damaging to groundwater quality.	Water: TS1-TS3, Chp12CDP
RES10: To provide for residential development for a maximum of 4 additional units, with no restrictions on purchasing and occupation at the grounds of Delgany Golf Club, Bellevue Demesne (as zoned 'Special R-B' on Map A), subject to all matters pertaining to the proper planning and sustainable development of the site/ area being satisfied.																	Development at this location likely to require septic tank - potentially damaging to groundwater quality.	Water: TS1-TS3, Chp12CDP
RES11: To provide for an especially high quality, discreetly designed, 40 unit low density golf resort related residential development on lands zoned 'Special R-C' on Map A. Development on this site shall be effectively and permanently screened from an early date from public view (including from the R761 on the east side and from Kilmullin Lane on the west).																	green and a quality.	
RES12: There is a particular need to ensure that there is a mix in the type, size and tenure of housing available in Kilcoole. As such, the planning authority shall ensure that all developments include an appropriate mix of units to cater for all sectors of the population, and in particular to ensure an appropriate balance between the amount of social, affordable and private tenure.																		
RES13: There is a shortfall of affordable family-type homes (e.g. three to four bedroom houses on small to medium sized plots, generally semi-detached in nature, typically not more than 125m² in floor area) within the Greystones-Delgany area. As such, there shall be a preference for the development of these types of housing units within this plan area.																		
RES14: To facilitate the development of housing options for older people within the plan area.																		
RES15: To provide for a mixed housing development, including a range of tenure types (e.g. social, affordable and private housing) and community facilities (as determined by the planning authority, in conjunction with the Community and Enterprise section of the Council) in the MU mixed use zone, subject to the agreement of a Master Plan for the entire zone. An equipped playground of c.200m² shall be provided within this zone. This land may also be suitable for the development of a community building. Section 4: Retail											С	C						
RT1: To ensure that all new applications for retail development accord with the provisions of the Retail Planning Guidelines for Planning Authorities (DoECLG, 2012), the County Wicklow Retail Strategy, the Retail Strategy for the Greater Dublin Area 2008-2016 and the strategy as set out in this plan.																		
RT2: To provide for the development of a mix of uses within Greystones town centre, including retail, service and commercial outlets, and complementary leisure, entertainment, cultural and community facilities, to a degree that is akin to its designation as a Level 3 town centre status.				С		С					С	С						
RT3: To promote the development of retailing in the Core Retail Area of Greystones town centre (as indicated on Map A). A broad range of retail formats shall be promoted in Greystones town centre, including higher, middle and lower order comparison, super-store and super-market retail format. The planning authority shall not permit retail development in other locations, unless it is satisfied that there will be no adverse effect on the vitality and viability of the retail core. Development proposals not according with the objective to support the vitality and viability of the Core Retail Area must demonstrate compliance with the sequential approach. The order of priority for large scale retail developments shall be: 1. Core Retail Area 2. Other TC zoned sites 3. Zone 1 of the Greystones Harbour and North Beach Action Plan and neighbourhood/ village centres 4. Edge of town centre sites 5. Out of centre sites . Large scale retail development shall not be permitted on lands zoned 'Small Local Centre'.				С		c					с	c						
RT4: To provide for the development of a mix of uses within Kilcoole town centre, including retail, service and commercial outlets and leisure and community facilities, to a degree that is akin to its designation as a Level 4 Small Town Centre status, so that the centre provides for the day-to-day needs of its population and its hinterland.				с		С					С	С						
RT5: To promote the vitality and viability of Kilcoole's town centre and to promote retailing as the core function of the town centre. Retail uses shall include a range of lower order comparison and super market retail formats.																		

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose –or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects	
RT6: New town centre developments, in particular developments on the west side of Main Street, shall incorporate new 'streets' where possible, and developers of new town centre areas shall co-operate with each other in order to provide a new network of street and squares and to minimize duplication of car parks and vehicular access points on the Main Street.																	
RT7: A new 'town square' shall be provided west of the Main Street – Sea Road junction, in accordance with the criteria set out for 'AP9: Bullford Action Plan'.																	
RT8: To provide for the development of a mix of uses within Delgany village centre, which provide for the day-to-day needs of its local community, including local retail, service and commercial outlets and leisure and community facilities, to a degree that is akin to its designation as a Level 4 Centre.				С		с					с	с					
RT9: To provide for the development of a mix of uses within the neighbourhood centres of Blacklion, Bellevue Road, Mill Road (spread over two sites) and Charlesland., which provide for the day-to-day needs of the local community, to a degree that is akin to their designation as a Level 4 Centre.				С		С					С	С					
RT10: To provide for the development of a mix of uses within the small local centres of Killincarrig village, Victoria Road and Eden Gate, which provide for the day-to-day needs of the local community, to a degree that is akin to their designation as a small Level 4 Centre (normally between approximately three and five retail / retail service units), subject to no supermarkets or premises with gross floor area greater than approximately 150m² being permitted on these sites.				С		с					С	с					
RT11: To give consideration to the development of local corner shops on residential zoned land, where there is a clear deficiency of retail provision and subject to the protection of residential amenity. The planning authority shall not permit the development of a local corner shop unless it is satisfied that there will be no adverse effect on the vitality and viability of any of the designated centres. When evaluating proposals for such a use, the Council will have regard to the distance from the proposed development to existing shopping facilities and to its impact on the amenity of adjoining dwellings. Local corner shops shall not have a floorspace greater than 100m² net and new local corner shops shall not be permitted within a 5 minute walking catchment of a designated centre.				С		c											
RT12: It is the Council to generally not permit the development of retail warehousing in the plan area, except where evidence in the form of a Retail Impact Study is provided to demonstrate that there is a proven need for retail warehousing within this area and subject to compliance with the Wicklow County Development Plan 2010-2016, Retail Strategy for the Greater Dublin Area 2008-2016 and the Retail Planning Guidelines for Planning Authorities (DoECLG, 2012). Subject to this objective, retail warehousing shall be not normally permitted but open for consideration within E, E1 and TC zones. It shall not be permitted at any other location.																	
RT13: To encourage and facilitate the sustainable re-use and regeneration of brownfield land and buildings in all centres and to promote the development of opportunity sites in accordance with the specific criteria set out for each area as set out in 'Section 4.3: Opportunity Sites'.																	
RT14: Within all designated centres, it is the policy of the Council to:• generally restrict the development of non-retail uses at ground floor level in the principal shopping areas, and• provide for the development of residential uses within all centres, in 'Living over the Shop' schemes and on backland sites.				С		с											
RT15: To preserve and enhance the amenity of the public realm.Development proposals shall contribute to the improvement of the environmental amenity of all public areas in the plan area through the following ways: • The creation of quality space and an enhanced public realm, through improvements to public spaces including improved paving, signage, lighting, street furnishings, tree planting and landscaping of car parking areas. The palate of paving material, lighting, signage and furniture fittings for use should be chosen with regard to the particular identity of each centre, so that enhancements can, as a whole, be visually coherent. • Priority of movement for pedestrians, cyclists and public transport should be ensured, so that the impact of the private car is moderated. In particular, the Council will promote the development of wide footpaths throughout the plan area. • Promote the development of quality shopfronts, and in particular promote the development of traditional shopfronts which contribute to the distinctive character of the centres.																	

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose –or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects		
 Placing underground of overhead power lines where possible. The protection of natural and built heritage. The development of public toilets and public information boards at appropriate locations, particularly in the vicinity of the Harbour. Appropriate controlling of advertising and signage in the interests of protecting the visual amenity of the area and ensuring the safety of the public. The promotion of high quality urban and architectural design. 																		
Section 5: Employment and Economic Development																		
EMP1: To facilitate the development of employment generating activities on suitably zoned lands within Greystones-Delgany and Kilcoole, in accordance with the employment strategy of this local area plan and in accordance with the objectives and development standards set out in the Wicklow County Development Plan 2010-2016. EMP2: To protect employment zoned land from inappropriate development that	5																Industrial activities can result in emissions with significant adverse environmental impacts on air, water and land. Industrial activities can result in emissions	Biodiversity: HER1-HER5, Chp17CDP; Air: AE1-3 Chp13CDP; Water: TS1-TS3,HER5, Chp12,17CDP
would undermine future economic activity or the sustainable development of such areas.																	with significant adverse environmental impacts on air, water and land.	Biodiversity: HER1-HER5, Chp17CDP; Air: AE1-3 Chp13CDP; Water: TS1-TS3,HER5, Chp12,17CDP
EMP3: To encourage the redevelopment of already developed or brownfield employment / mixed use lands for enterprise and employment creation throughout the settlement, subject to the proper planning and sustainable development of the area and compliance with all other objectives of this plan.	t																Industrial activities can result in emissions with significant adverse environmental impacts on air, water and land.	Biodiversity: HER1-HER5, Chp17CDP; Air: AE1-3 Chp13CDP; Water: TS1-TS3,HER5, Chp12,17CDP
EMP4: To promote and facilitate the development of lands zoned for employment development ('E1' zone) adjoining Mill Road / Charlesland Road in accordance with the following requirements:																	Industrial activities can result in emissions with significant adverse environmental impacts on air, water and land. Development on E1 site may compromise integrity of archaeological sites.	Biodiversity: HER1-HER5, Chp17CDP; Air: AE1-3 Chp13CDP; Water: TS1-TS3,HER5, Chp12,17CDP; Built Heritage: HER1 Chp16CDP
Zone 1 shall be developed as an extremely high quality, primarily office based employment zone. In this area, a reasonably high intensity of development will be required, and in particular, development should attain a plot ratio of not less than 0.75 and may be up to 3-storeys in height. Given the proximity of the lands to high quality transport links and the town centre, flexibility shall be afforded to the application of car parking standards and the majority of undeveloped lands shall be given over to high quality hard and soft landscaping. The design and format of this area shall address AP4: South Beach Action Plan, such that there is an easy transition between the two areas, with strong pedestrian links. The height, massing and finishes of the development shall be appropriate to the nature and scale of																		
existing and proposed developments in the vicinity, including the Burnaby ACA and the South Beach Action Area. Buildings shall generally be designed around civic spaces / public squares. Zone 2 shall be developed for a mix of employment facilities, and may be more					-						_	-						
appropriate for product based employment facilities. The following uses shall not normally be considered but shall be open for consideration, subject first and foremost to compliance with objective RT3 (sequential test) and RT12 (retail warehousing), and to the following (a) Retail warehousing may be considered in Zone 2 in conjunction only with the substantial development of Zone 1 (which is taken to mean a minimum of 10,000sqm high																		
employment density floorspace) and in particular, the development of the roadside frontage of Zone 1 along Mill Road and Charlesland Road (b) 'Town centre' type retailing i.e. individual shops offering both convenience and comparisons goods and retail services may be considered in Zone 1 strictly only where it forms part of a integrated development proposal with lands zoned TC to the immediate east of the site. In no circumstances will any such retail use be permitted in advance of the commencement of similar development on the adjacent TC lands in order to ensure																		
that development occurs in an orderly and sequential fashion. Mature trees along the eastern boundary of the site shall be retained, to provide a buffer to the residential area of Woodlands. This site is appropriate for the development of hotel. Development on this land shall be subject to the agreement of a Master Plan.	_																	
Section 6: Tourism TOUR1: To promote and facilitate the development of tourism and recreational related development within the overall plan area. Tourism and recreational related development shall be located on suitably zoned land within the settlement boundaries of Greystones/Delgany and Kilcoole. Applications for tourism and recreational related developments on zoned land (e.g. Greenbelt lands), outside the settlement boundaries shall be determined on the basis of policies that apply to the rural area, as set out in the Wicklow County Development Plan, 2010-2016, and in particular, TR4 of the CDP.				C		С					С	C						

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose –or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects		HER1-HER14, TS1-TS3, Chapter 9,12, 13,14, 16, 17, 18 CDP
TOUR2: To promote the development of tourism and recreational related developments in a sustainable manner at suitable locations, that are of an appropriate scale and design. It is an objective of the Council to particularly promote tourism and recreational related developments that are associated with/which provides access to/ which increase awareness of the following tourism products or themes: (i) the area's coastal amenity, including the existing cliff walk, Greystones harbour and marina, the former medieval settlement at Rathdown, and Kilcoole marshes linking the Murrough and the East Coast Nature Reserve near Newcastle, (ii) Kindlestown Wood and local recreational trails linking it with Glen of the Downs Nature Reserve, (iii) Delgany Heritage Trail, (iv) early Christian, Medieval, Victorian and Edwardian built heritage, (v) golfing, and (vi) entertainment/cultural venues, e.g. restaurants, craft shops, art galleries, family entertainment venues etc. TOUR3: To support and facilitate, in co-operation with the relevant bodies, the formalisation of a coastal walkway between Greystones-Delgany and Kilcoole and the development of a coastal cycle route. Any such proposal would be subject to appropriate assessment requirements in accordance with the Habitats Directive. No development shall be permitted that would have adverse impacts (directly, indirectly or cumulatively) on the conservation objectives of Natura 2000 sites				С		G											Increased tourism may compromise the quality of the natural environment, water, built heritage and landscapes.	HER1-HER11 Chapter 17, 18 CDP, TOUR3
TOUR4: To improve tourist accommodation offer within this area and in particular to facilitate the development of a hotel in the plan area, particularly within the settlement of Greystones/Delgany.																		
TOUR5: To provide for the development of agri-tourism uses at Glenroe Open Farm.																	Increased tourism may compromise the quality of the natural environment, water and landscapes.	HER1-11, Chp 12,13,14,16,17,18, 9
TOUR6: To provide for the development of an Integrated Tourism/Leisure/Recreational Complex at Druids Glen Golf Course, Woodstock Demesne, in accordance with the objectives set out for ITLRCs in the Wicklow County Development Plan, 2010-2016, and to promote the development of linkages between the settlement of Kilcoole and this tourist facility.																		HER1-HER14, TS1-TS3, Chapter 9,12, 13,14, 16, 17, 18 CDP
Section 7: Social Infrastructure SOC1: Social infrastructure shall be progressed in tandem with residential development and the latter will only be permitted on the basis of satisfactory provision of land and/or facilities for the former. SOC2: To co-operate with the Department of Education and Skills, the Vocational Education Committee for County Wicklow, school management boards and any other education providers, in the provision of school places and adult education facilities, where a need is identified.																		
SOC3: One new site (suitable for a 16-classroom school) shall be reserved for primary school development – to the north of the Holy Faith Convent, Kilcoole. The development of a school on this site shall not prejudice the long term objective for the reservation of a link road at this location as shown on Map A.																		
SOC4: Land of c.1.6ha shall be reserved adjacent to Colaiste Chraobh Abhann for future school expansion. In the event that it is determined that this land is not needed for this school, this site shall be reserved as an alternative primary school location (suitable for 16-classroom school). SOC5: A minimum of 18 acres (7.28ha) shall be provided at Blacklion, in																		
accordance with the agreed Blacklion Action Plan, for the development of education facilities including primary and post-primary schools. SOC6: To provide for the development of a 16-classroom primary school and one post-primary secondary school on lands at Charlesland, to be provided as part of APT: Charlesland Action Plan.																	Development on this site may compromise integrity of archaeological heritage.	HER1, Chp16 CDP
SOC7: To provide for the extension of all existing schools, subject to the proper planning and sustainable development of areas.																	g.ny or aronadological nottage.	
SOC8: Protect and improve public and private open space and recreation provision. SOC9: Public open space within residential housing estates shall be preserved and enhanced. No development shall be permitted that would compromise the integrity of these spaces. In particular, residential development shall not be permitted on designated public open space within these areas. SOC10: To provide for the development of active open space to meet the needs of the current and future population of the plan area.								с с	c c	c c								
SOC11: The redevelopment for alternative uses of recreational lands whether owned by private recreational clubs or publicly owned, will normally be resisted by the Council unless suitable alternative recreational facilities can be provided in a convenient location.								С	С	c								
SOC12: It is a long term objective of the Council to provide for the development of a neighbourhood park at an appropriate location within the plan area.								c Ar	pendix 1	c								

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SOC13: Allow for the development of new and improved community services, for health, welfare, community, education, civic and institutional uses including schools, childcare, nursing homes, community buildings, churches, Garda station, health centre etc. on suitably zoned lands. A site shall be reserved at Charlesland for a new Garda station (see AP7: Charlesland Action Plan).																	
SOC14: Any large scale developments in Kilcoole town centre shall be required to provide appropriate community facilities, which can be determined by the planning authority, in consultation with the Community and Enterprise Section of Wicklow County Council.																	
SOC15: Any development in AP9: Bullford Action Plan shall make provision for the development of appropriate community facilities, as determined by the planning authority, in consultation with the Community and Enterprise Section of the Council.																	
SOC16: A new community building/ facility shall be provided within AP1: Coolagad Action Plan. The size/configuration shall be determined in consultation with the Community and Enterprise Section of the Council.																	
SOC17: To facilitate the development of allotments / community gardens in all locations within the plan area subject to:• such development not undermining the zoning objective for that land use zone,• the development not being located on lands permitted or identified as public open space, and• normal planning, environmental and safety considerations.								с	С	С							
Section 8: Transport and Service Infrastructure TS1: Ensure that a reliable and effective water services, drainage, energy, waste management, recycling and communications infrastructure is put in place to service the existing and future development needs of the settlement, in a manner that protects the quality of the environment, and to allow for the improvement of public services and public utility installations.			С														
TS2: All new development shall be required to connect to the public mains systems for water supply and waste water collection and disposal. Permission for the connection of single houses to private waste water systems and water supply systems will only be granted in exceptional circumstances, where there is no adverse effect on the environmental integrity of the area and in accordance with the proper planning and sustainable development of the area.			c														
TS3: To encourage and facilitate the connection of unsewered areas, including individual properties serviced by septic tanks, to existing and planned public mains systems. TS4: To implement flood management objectives as set out in the Wicklow County			С														
Development Plan 2010-2016 and to implement the 'Guidelines on the Planning System and Flood Risk Management' (DoEHLG/OPW, 2009).			С														
TSS: To restrict the types of development permitted in Flood Zone A and Flood Zone B to the uses that are 'appropriate' to each flood zone, as set out in Table 3.2 of the Guidelines for Flood Risk Management (DoEHLG/OPW, 2009). Developments that are an 'inappropriate' use for a flood zone area, as set out in Table 3.2 of the Guidelines, will not be permitted, except where a proposal complies with the Justification Test for Development Managements, as set out in Box 5.1 of the Guidelines. Flood Risk Assessments shall be in accordance with the requirements set out in the Guidelines.			c														
TS6: Notwithstanding the identification of an area as being at low or no risk of flooding, where the planning authority is of the opinion that flood risk may arise or new information has come to light that may alter the flood designation of the land, an appropriate flood risk assessment may be required to be submitted by an applicant for planning permission.			С														
TS7: Promote the development of safe and accessible pedestrian and traffic routes.																	
TS8: To implement the objectives as set out in Table 7.1, for: (i) the development of new roads within the lifetime of the plan (indicated in purple on Map A), (ii) the development of new roads beyond the lifetime of the plan (indicated in pink on Map A), and (iii) the improvement/upgrading of existing roads, including for example new footpaths/cycleways, public lighting, road realignments/ widening, re-surfacing etc., within the lifetime of the plan (indicated in peach on Map A)																	
RO1: Provide a new road from the R761 at Sea View to lands within AP1:Coolagad Action Plan. The new road shall provide local access to zoned lands within the lifetime of the plan and shall, in the long term provide a northern access route from Greystones to the N11.																	Soil: SG1-6Chp17 CDP; Biodiversity: HER1- HER5, Chp17CDP

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RO2: Completion of the new road from the R761 at Blacklion to Chapel Road, with an upgraded road continuing southwards to link up with the alignment of road objective RO3.																	Road construction causes significant compation of soil. Detrimental to biodiversity. Facilitates increase in car trips/ greenhouse gases.	Soil: SG1-6Chp17 CDP;Biodiversity: HER1- HER5, Chp17CDP
RO3: Realignment of Chapel Road in the vicinity of St. Laurence's School as necessary, to provide a more direct and efficient route to Blacklion from Delgany.																	Facilitates increase in car trips/ greenhouse gases.	
RO4: Road improvements to facilitate the development of AP5: Killincarrig Action Plan and improvements as required to Convent Road.																	Facilitates increase in car trips/ greenhouse gases.	
RO5: Improve the pedestrian and traffic safety of the R761 junction and the entrance to Burnaby Heights																	Facilitates increase in car trips/ greenhouse gases.	
RO6: Provision of a long term road objective to provide for an alternative road around Killincarrig Village through Greystones Golf Club, or improving the R761 for pedestrians, cars and cyclists.																	Road construction causes significant compaction of soil. Detrimental to biodiversity Facilitates increase in car trips/ greenhouse gases.	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP
RO7: Provide for a local access road to facilitate the development of zoned lands, incorporating the possibility of a future bridge over the Three Trouts Stream to allow for linkage from Mill Road to the R761.																	Road construction causes significant compaction of soil. Detrimental to biodiversity Facilitates increase in car trips/ greenhouse gases. May be detrimental to quality of Three Trouts Stream	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP; Water: HER5, Chp12, 17CDP
RO8: Provide for a local access road to facilitate the development of zoned lands and to provide for the development of a through road from Priory Road to R761 and linkage to Mill Road (RO7) and Eden Gate.																	Road construction causes significant compaction of soil. Detrimental to biodiversity Facilitates increase in car trips/ greenhouse gases.	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP
RO9: To provide for the development of a Western Distributor Road to bypass Kilcoole. The southern section of the route shall be developed according to one of the following two options: (i) southern junction of the new road shall be provided at the intersection with Kilcoole Industrial Estate, Creowen and route to extend northwards, or (ii) southern junction of the new road to be provided at the current entrance of Bullford Business Campus and road to extend northwards through the Business Park, including necessary upgrades and widening of the current estate road. As option (ii) poses constraints regarding road alignment and standards of design, option (i) is the preferred option. The development of the road according to option (ii) is subject to the agreement of the planning authority, in conjunction with the Roads Section, pending the preparation of a traffic analysis and design study.																	Road construction causes significant compaction of soil. Detrimental to biodiversity Facilitiates increase in car trips/greenhouse gases. May comprise landscape quality. Significant new road materially inconsistent with SEO to utilise existing infrastructure.	Soil: SG1-6Chp17CDP; Biodiversity: HER1-HER5, Chp17CDP
The northern section of the route shall be developed, in the long term, according to one of the following two options: (i) linkage to the R761 at Farrankelly, or (ii) linkage to Priory Road to the west of Eden Wood/ Farrankelly Close. It is a long term objective to develop an additional link between R761 intersection with Lott Lane and the Western Distributor Road. To provide for the development of a local access road in conjunction with the development of zoned lands at AP9: Bullford Action Plan and to provide for the development of a through link road from Main Street to the Western Distributor Road. This section of the route is necessary for the opening up of zoned lands (AP9 and E lands at Bullford Farm). Only 50% of development on these lands shall be permitted before the southern part of this road is completed.																		
R10: Provision of a local access road to facilitate the development of zoned lands at AP8: Ballydonarea Action Plan, in the form of a link road between Sea Road and Lott Lane																	Road construction causes significant compation of soil. Detrimental to biodiversity. Facilitates increase in car trips/ greenhouse gases.	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP
R11: Improvement of Bellevue Hill Road, to include a footpath. R12: Upgrading of Priory Road, including the development of a footpath																		
R13: Upgrading of Three Trouts Bridge, including widening of bridge and development of footpath. R14: Upgrading of Lott Lane, Kilcoole																		
R15: Improvement of Sea Road, Kilcoole, including the development of a footpath from Main Street to Kilcoole Train Station.																		
R16: Improvement of the R761, from Kilcoole GAA Club to Kilcoole town centre, to include a footpath.																		
R17: To improve, subject to further feasibility studies, detail design and traffic impact assessment, the capacity of the R761/new Blacklion junction.																	Facilitates increase in car trips.	
TS9: To facilitate the introduction of traffic management, calming and reduction measures throughout the plan area.								Δn	nondiy 1									

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TS10: Development of any road, with the exception of minor access roads, over the lower slopes of Bray Head within the LAP boundary will not be permitted. Any proposal for a minor access road is subject to normal appropriate assessment requirements in accordance with the Habitats Directive. No development shall be permitted that would have adverse impacts (directly, indirectly or cumulatively) on the conservation objectives of Natura 2000 sites.																		
TS11: To provide for the development of sustainable modes of transportation within the plan area including public transport, walking and cycling, in particular to provide high quality pedestrian and bicycle links between residential areas and retail, recreational and educational facilities. The Council will facilitate the following: Any works required to upgrade the frequency and capacity of existing DART services. Any works required to upgrade Kilcoole Train Station. The continued operation of Greystones park and ride.																		Biodiversity: HER1-HER5, Chp17CDP,
TS12: To develop the 'greenroute' network for pedestrian and/or cycling facilities. The proposed indicative 'greenroute' network is indicated on Map B. Greenroutes should be developed with a common scheme of signage and/or markings. Where feasible, proposals for development should provide for the development of these greenroutes. Proposals for the development of 'greenroutes' shall be subject to appropriate assessment requirements in accordance with the Habitats Directive. No development shall be permitted that would have adverse impacts (directly, indirectly or cumulatively) on the conservation objectives of Natura 2000 sites.																	Greenroutes in proximity to Natura 2000 sites may compromise integrity.	TS12
TS13: Lands being developed at the periphery of the developed part of zoned lands should provide for corridors, to ensure lands that could be required to facilitate future population increases in future LAPs are not landlocked and can be effectively and efficiently accessed.																		
Section 9: Natural and Built Heritage HER1: Protect and enhance the character, setting and environmental quality of natural, architectural and archaeological heritage, and in particular those features of the natural landscape and built structures that contribute to its special interest. The natural, architectural and archaeological heritage of the area shall be protected in accordance with the objectives set out in the Wicklow County Development Plan 2010-2016.								С	С	С								
HER2: To preserve and improve the integrity of Natura 2000 sites and to prohibit development that adversely affects the integrity of any Natura 2000 site, in light of the site's conservation objectives. Development proposals shall comply with the following. Any proposed development with potential to impact upon a Natura 2000 site shall be subject to the requirements relating to Appropriate Assessment as set out in the Part XAB of the Planning and Development Act 2000 (as amended) and in accordance with 'Appropriate Assessment of plans and projects in Ireland-Guidance for Planning Authorities' (DoEHLG, 2009). Avoid encroachment on a Natura 2000 site and implement an appropriate buffer zone on adjacent sites, as required, where feasible or as determined following consultation with NPWS or other relevant body. Ensure that recreational use is directed away from sensitive areas within the Natura 2000 site, in consultation with National Parks and Wildlife Service (NPWS). In order to ensure the protection of the integrity of Natura 2000 sites, the planning authority is not limited to the implementation of the above objective								с	С	С								
HER3: To protect wherever possible wildlife habitats that are located outside protected and designated areas, including the coast, cliffs, dunes, trees, hedgerows, drainage ditches, scrub, woodland, rock outcrops, watercourses, stone walls and other features of the natural landscape that provide wildlife corridors and which contribute to the biodiversity of the area. In the assessment of planning applications, the Council may require that such features are retained and incorporated into future development. In considering proposals for development, regard shall be paid to the Greystones-Delgany Local Biodiversity Area Study (2006). Recommendations set out in this study shall be implemented, as deemed appropriate, by the planning authority.								c	С	С								
HER4: To protect and retain trees which contribute to the biodiversity value and the character and amenity of the area. This objective applies to the list of trees indicated in Appendix B and Map B.								С	С	С								

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOLL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose —or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects	
HER5: To protect the biodiversity value and associated habitats of water bodies within the plan area in accordance with the objectives as set out in the Wicklow County Development Plan 2010-2016 and Eastern River Basin District Management Plan 2009-2015. In considering proposals for development, regard shall be paid to the recommendations set out in Greystones-Delgany Local Biodiversity Area Study (2006). In particular, recommendations relating to the Three Trouts Stream shall be implemented, as deemed appropriate, by the planning authority. Water bodies within the plan area include the Three Trouts Stream, the Newtown River from Newtown to Kilcoole Marsh via Druids Glen Golf Course, Kilcoole Stream (from Kilpedder to Kilcoole feeding to Kilcoole Marsh), Kilcoole Marsh (a transitional estuarine water body), the Southwestern Irish Sea-Killiney Bay (coastal water body) and a number of groundwater bodies.								с	С	С							
HER6: To maintain and protect the coastal and marine character of the Greystones and Kilcoole area and to provide for its enjoyment as a recreational and natural asset.								с		с							
HER7: To support the implementation of Bray Head as a Special Amenity Area Order (SAAO). HER8: To maintain and enhance the 'cliff walk' from Bray to Greystones, including the development of services and facilities for visitors such as car parking, signage, information boards, footpath surfaces, and public toilets, while preserving its rugged and natural character and its biodiversity value. It is a particular objective of the Council to provide for the development of public toilet facilities at the harbour end of the 'cliff walk'.								С	С	c							
HER9: To facilitate the undertaking of works required for (i) the protection of the coastline from erosion and (ii) the maintenance of the 'Blue Flag' status on South Beach, Greystones			С					с		С							
HER10: Within Greenbelt areas, it is the objective of the Council to generally protect the open nature and landscape quality of lands, to protect and enhance local biodiversity, and to maintain the primary use of the land for agricultural purposes. The following objectives shall apply to the greenbelt areas:• Greenbelt areas form part of the rural area. As such, the rural development objectives and standards of the Wicklow County Development Plan 2010-2016 shall apply as appropriate. Rural housing may be permitted subject to compliance with the rural development objectives and standards of the CDP. The Coastal Zone Management Plan objectives, as set out in Chapter 18 of the CDP shall apply to areas designated a 'coastal cell'. • Protect the integrity of Natura 2000 sites in accordance with objective HER2. • Protect listed views/prospects and other features of natural and built heritage • Provide for the development of greenroutes in the area. In particular, facilitate the development of (i) a pedestrian/cycling route between Lott Lane, Kilcoole and Shoreline Sports Park, Charlesland, and (ii) a coastal walk, having due in								С	С	С							
HER11: To protect the views and prospects as set out in the Wicklow County Development Plan 2010-2016 and this plan. Protected views and prospects within the plan area are indicated in Appendix B and Map B.																	
HER12: To preserve the character of Architectural Conservation Area's (ACAs), in accordance with Appendix B. The following objectives shall apply to ACAs: Development will be controlled in order to protect, safeguard and enhance the special character and environmental quality of ACAs. The buildings, spaces, archaeological sites, trees, views and other aspects of the environment that form an essential part of the character of an ACA will be protected.			-		-			-		-							
existing building, shall preserve and/or enhance the character and appearance of the ACA as a whole. Schemes for the conservation and enhancement of the character and appearance																	
of an ACA will be promoted. The character and appearance of the urban public domain within an ACA shall be protected and enhanced. The Council will seek to work in partnership with local community and business groups to implement environmental improvements within ACAs. Within the Church Road ACA, alterations to the front boundaries to accommodate					-												
off-street car parking, will not normally be permitted. Historic items of street furniture and paving within ACAs shall be retained, restored and repaired.													-		-		
All electricity, telephone and television cables within ACAs shall be placed underground where possible. • The placing of satellite dishes, television aerials, solar panels, telecommunications antennae and alarm boxes on front elevations or above the ridge lines of buildings or structures will generally be discouraged within Architectural Conservation Areas, except where the character of the ACA is not compromised.								Ар	pendix 1								

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It should be noted that the designation of an Architectural Conservation Area does not prejudice innovative and contemporary design. The principle of a contemporary and minimalist design style will be encouraged within ACAs, provided it does not detract from the character of the area. It is considered that new buildings should be of their own time in appearance and should not replicate the style and detailing of heritage buildings. The replication of historic architectural styles is considered to be counter productive to heritage conservation in principle as it blurs the distinction between what is historic and what is contemporary and can lead to the emergence of poorly considered and inauthentic buildings.	/ t e f																	
HER13: It is Council policy to protect the historic and traditional rural character of																		
the 'Kilcoole Town Centre Character Area'. HER14: To protect the natural and built heritage of the Rathdown Heritage Area																		
and to facilitate the development of this area as a heritage park for public amenity and education purposes, in accordance with the objectives for Zone 3 of AP3: Greystones Harbour and North Beach Action Plan.								С	С	С								
Section 10: Action Plans																		
AP1: Coolagad Action Plan This Action Area is located at Templecarrig Lower, Coolagad and Kindlestown Upper, on a site approximately 36ha in size. This area shall be developed for a mix of uses including residential, community and open space, in accordance with the following: c.31ha for the development of residential units.																		
A minimum of 4ha of land shall be provided for active open space including public																		
park, MUGA and playground, in accordance with the requirements of the Community and Enterprise Section of the Council.								С	С	С								
A community centre and/or other community facility/facilities shall be provided to serve the communities of this area. In determining requirements for community facilities, a community services audit shall be carried out and consultation shall be undertaken with the Community and Enterprise Section of the Council.																		Soil: SG1-6Chp17 CDP; Biodiversity: HER1-
A new road shall be provided for local access to zoned lands and shall be designed to facilitate the achievement of the long term objective to provide a northern access route from Greystones to the N11, in accordance with roads objective RO1, 'Section 7: Transport and Service Infrastructure' of this plan.																	Road construction causes significant compaction of soil. May interfere with ecological quality. Facilitiates increase in car trips/greenhouse gases. May comprise landscape quality. Significant new road materially inconsistent with SEO to utilise existing infrastructure.	HER5, Chp17CDP
Greenroutes shall be provided throughout the area to link residential areas with community infrastructure, schools, adjoining housing lands and the Blacklion neighbourhood centre.																		
The residential amenity of existing and future adjoining properties shall be protected.																		
Protection of natural and built heritage, including rivers and trees.								С	С	С								
In designing the development of this area attention shall be paid to reducing the visual impact of the development on views towards Kindlestown Hill, from the R761. In particular, development on lands to the west of the Blacklion Action Plan shall be of a design and layout that is appropriate to the typography of the site and the necessity to ensure there is a visual transition between these developed lands and the unzoned agricultural lands / Kindlestown Hill to the rear of the site. Regard shall be paid to ensuring appropriate links and transition of scale, design																		
and layout of housing, with lands adjoining the boundary of the Action Plan, including lands within AP2: Blacklion Action Plan and lands zoned for housing to the south at Kindlestown Upper.																		
Phasing shall be as follows: Phase 1: 200 units and completion of road, Phase 2: 150 units and provision of open space (AOS and OS),Phase 3, 150 units and community centre/facility, Phase 4: remainder of units. AP2: Blacklion Action Plan																		
This Action Area is located at Blacklion on a site approximately 16.5ha in size. The Action Plan, dated 26 th March 2007, has been agreed by Wicklow County Council. The agreed Action Plan provides for the development of a mix of private and social and affordable housing and schools. In summary, this action plan provides for the following: 18 acre (7.28ha) site for the development of primary and secondary																		
schools. • 11.5 (4.65ha) acre site for private housing development						C												
3 acre (1.21ha) site for social and affordable housing development						С		SEA Ass	pendix 1	Nantaire								

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOLL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose -or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects	
Development in two phases The development of the Blacklion Link Road from R761 to the southern																	
boundary of the site.																	
The development of a green corridor/ greenroute through the site.																	
Current development on site includes two primary schools – Gaelscoil na gCloch Liath and Greystones Educate Together.Development on this site shall be in accordance with the agreed action plan for this area, dated 26th March 2007. AP3: Greystones Harbour and North Beach Action Plan																	
To provide a high quality integrated harbour/marina mixed development linked to a linear coastal public park and any future heritage park. The development shall provide leisure, recreational, open space and marine facilities, and mixed form residential, commercial, civic and social amenities, centred around the harbour and marina. Optimisation of the use of natural daylight and views, conservation of energy and environmental sustainability should be key elements of the conceptual proposals for the development. The development shall provide a link to the coastline with public access and coastal protection works provided to preserve the landscape from further erosion in the future. In relation to the development, due regard shall be given to the general development standards and other general provisions of this plan. However, in the event of inconsistency between these general provisions and the objectives of the Greystones Harbour and North Beach Action Plan, the latter shall take precedence, in order to facilitate its successful implementation.																	
Zone 1 – Development Area																	
Harbour and Marina Integrated harbour and marina comprising:																	
Marina basin with potential for circa 230 yachting berths Leisure harbour with easy access to the sea Harbour entrance with wave absorbing basin Rubble mound groyne to create sheltered sandy beach The provision of marine based community clubs and facilities in a waterside location with direct access to a launching beach and slipways. The facilities should provide appropriate clubhouse and boatyard facilities. Provision of the harbour and marina would involve marine construction, dredging and land reclamation works above and below high water mark.				_													
Residential and Non-Residential Provide for mixed residential, commercial, recreational, cultural and social																	
development subject to the following standards and limitations: Provision of a good built environment which is responsive to the site and its setting Utilisation of sound design principles and variety in built form to create a sense of place with its own identity	-		-	-	-		-	_			-		-		-		
Contemporary architecture and layout with mixed tenure and appropriate urban design principles legibility and where appropriate enclosure to promote permeability through the	-		-														
development.	_		-					-									
Minimisation of impact of development on coastal views towards Bray Head and Little Sugar Loaf from Greystones harbour																	
Up to 375 residential units Variety and choice of residential unit type to meet a wide range of social and living needs								-									
No more than 6,500m2 mixed use commercial, cultural, community and tourist residential waterfront space																	
The prime waterfront space may be used primarily for commercial use (including leisure/retail/office/cultural/or community use), or tourist residential use, or as a combination of both. The idea of future live/work/leisure space within a single integrated sustainable environment is encouraged. Zone 2 – Public Park	3					С											
Creation of an attractive linear coastal public park to include: Provision of new landscaped public park for passive recreation and some appropriate sporting uses, incorporating Wicklow Coastal Walk and access to any future Heritage Park at the site of medieval Rathdown Appropriate planting, walkways, signage and seating to form a pleasant and	/ -																
Appropriate planting, walkways, signage and seating to form a pleasant and successful outdoor public open space Capping and landscaping of the old dump, with planting to form an integral part or					_												
the park Creation of a sandy cove at the north end of the proposed development with good																	
beach access from adjacent public car parking									nendix 1								

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Provision of road access and public car parking with suitably located toilet and washroom facilities Provision of coastal protection from the harbour/marina to at least 250m past the		0) \$				9 8		0 2 12 2	> >	> 0	= .≒	2 5	0 = 0	40001	- 5		
Gap Bridge. Cliffs to be re-graded and high level and low level walks with occasional access to the beach provided with appropriate planting on the slopes and sides of the walkways. Zone 3 – Heritage Park								С	С	с							
Preservation of land and natural landscape for future archaeological study. Promotion by the Council of future development of a Heritage Park at the site of medieval Rathdown.																	
AP4: South Beach Action Plan								C	C	C							
AP4: South Beach Action Plan An Action Plan is proposed for an area in the vicinity of South Beach. The lands are zoned for town centre uses. The objective of the Action Plan will be to generate a framework for the re-development of the area, incorporating the transport interchange function and 'park and ride' facilities. Key considerations in preparing the Action Plan will be: Development of lands as an extension to the established town centre with a mix of retail, offices and public buildings, with residential uses interspersed to command public spaces and the South Beach. Provision of active frontage to Mill Road. Maximise views from the development of the coast and sea.																	
Improvements of the security and amenity of pedestrian access to South Beach Provision of the majority of car-parking in underground or part underground, under podium or multi-storey format.								-		-				-			
Provision of a 'park-and-ride' site of an appropriate scale.			-														
Any development proposal shall include a public playground and outdoor adult gymnasium, of appropriate size, in consultation with the Community and Enterprise Section of the Council. These facilities shall be located within reasonable access of South Beach.																	
Any proposal shall have regard to the objectives set out for the adjoining E1 site and shall include proposals for pedestrian/transportation linkages between the sites, and share a common design principle in terms of mass, bulk, orientation etc of buildings.																	
AP5: Killincarrig Action Plan An Action Plan is proposed for an 11.5 hectare site in Killincarrig, incorporating a backland site, St. Laurence's School and an area of public open space. The site is bounded by residential development to the north namely Kenmare Heights and Kindlestown Park. The eastern boundary is defined by the rear gardens of dwellings fronting the R761. To the south and west the site backs onto Delgany Glen housing development. To the west the site adjoins a collection of single dwellings on large plots.																	
Having regard to the location of the site between the built up parts of Delgany and Killincarrig, improved road links in this area, the availability of services and the potential planning gain to the community through the delivery of the improved educational and community sports facilities in conjunction with the delivery of residential units, residential development at reasonably high density is considered appropriate and consistent with the principles of sustainable development.																	
This action area shall be developed as a phased residential, public open space, community and recreational facilities zone in accordance with the following criteria and indicative layout / phasing map:																	
 Provide for enhancement and expansion of St. Laurence's School and associated facilities inclusive of childcare, in particular to provide a new car park of at least 60 spaces and provide direct access from the school grounds to the community sports facilities; 																	
Deliver expanded and improved sports and recreational facilities and public green space. Sports facilities proposed shall be available for use by the general public and St. Laurence's School. Sports facilities shall at a minimum consist of an all weather pitch (suitable for soccer / hockey etc) and a Mixed Use Games Area (MUGA) and a public car parking area (unless the required new school car park can be shown to be suitable / available for this function).								с	С	С							
Provide greenroutes across the site, linking Killincarrig, Kindlestown and																	
Protect existing treeline of mature Scots Pine and provide for enhancement of tree planting insofar as is consistent with providing maximum passive surveillance of the open areas from surrounding residences.								С	С	С							
 Suitably re-contour and landscape the lands at the north-east part of the site to render these lands open to maximum passive supervision from surrounding residential areas, or other alternatives that would achieve similar objectives. 								С	С	С							

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 Allow for new residential development on a maximum area of 6ha (average density of 22/ha), including single storey dwellings. Such units shall be so located within the Action Area to maximize overlooking of public green spaces, greenroutes and sports facilities. 	l																	
 Access to a limited number of units to be provided via Delgany Glen. The number of units allowable shall be determined following detailed traffic and junctior analysis taking into account other zoned lands that may be accessed through this route. 	n en																	
 Access to the remainder of the Action Area to be provided from Local Primary Road L-1027 (Delgany – Blacklion), through the provision of new junction south o St. Laurence's NS, accompanied by associated road improvements (including widening and traffic calming measures) either side of the new junction, in particular linking the new junction to the Delgany Wood by-pass. 	f I																	
To make a special contribution to recent existing road improvements in the area)																	
The development of this Action Area shall be phased such that the improved educational / community / open space facilities and special contribution to recent existing road improvements in the area shall be delivered in Phase 1, with a maximum of 60 residential units.	t																	
AP6: Farrankelly Action Plan																		
This action plan is located at Farrankelly, on a site approximately 24ha in size. This are shall be developed for a mix of uses including residential and active open space, in accordance with the following:																		
Approximately 17ha to be developed for residential use. Approximately 4.5ha of land shall be provided for active open space.								C	С	С								
Lands identified at risk of flooding (under the FRA) shall be reserved as open space.								С	С								Road construction causes significant compaction of soil. Detrimental to biodiversity.	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP
Roads shall be provided in accordance with RO8, Section 7 of this plan.																	Facilitates increase in car trips/ greenhouse gases.	
The residential amenity of existing adjoining properties shall be protected. Protection of natural and built heritage, including rivers and trees.								C	С	С								
AP7: Charlesland Action Plan This action plan is located at Charlesland, on a site approximately 29ha in size. This are shall be developed for a mix of uses including residential, employment and sabcole in accordance with																		
schools, in accordance with the following: Approximately 16ha to be developed for residential use.						С											Development may comprise archaeological heritage at this location.	HER1, Chp16 CDP
The reservation of 1.6ha for a new primary school and 4.86ha for a new post primary school. The land take for the school development shall be subject to the agreement of the Department of Education and Skills. A reduced land take for schools could be accommodated, subject to the agreement of the Department.																	Development may comprise archaeological heritage at this location.	HER1, Chp16 CDP
At least 6.61ha to be provided for employment uses. Subject to there being a need for a site for a new Garda station at Charlesland, a site shall be reserved for a Garda station, to be provided in consultation with the Department of Justice, Equality and Defence.																	Development may comprise archaeological heritage at this location. Industrial activities can result in emissions with significant adverse environmental impacts on air, water and land. Development may comprise archaeological heritage at this location.	Biodiversity: HER1-HER5, Chp17CDP; Air: AE1-3 Chp13CDP; Water: TS1-TS3,HER5, Chp12,17CDP; HER1, Chp16 CDP HER1, Chp16 CDP
A community enterprise centre of c.8,000m², which shall include a start up facility of c.2,800m² which shall be handed over to an appropriate community enterprise organisation.																	Development may comprise archaeological heritage at this location.	HER1, Chp16 CDP
Land zoned AOS to the east shall not be landlocked. New roads shall be designed to ensure possible future access to these lands is not obstructed.																		
AP8: Ballydonarea Action Plan																		
This action plan is located on a site of c.12ha, on lands east of Lott Lane, immediately north of Wellfield housing development, within the townland of Ballydonarea, as shown on Map A. The action plan for this area was agreed on 14 th January 2010. This agreed action plan provides for a mixed use development including residential, community and open space uses. In summary, this action plan provides for the following:																		
C.7. 8ha of residential zoning, with approximately 2ha reserved for medium density development (c.10/15/ha).								Δ.	pendix 1									

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SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose—or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the contex of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects		
c.1.2ha of community and education and institutional zoning																		
c. 3ha of active open space								С	С	С								
Development in three phases																	Road construction causes significant	Soil: SG1-6Chp17CDP; Biodiversity: HER1-
Development of link road between Sea Road and Lott Lane. Development on this site shall be in accordance with the action plan for this area, agreed on 14 th January 2010, unless an alternative plan is agreed with the planning authority and landowners.																	compation of soil. Detrimental to biodiversity. Facilitates increase in car trips/ greenhouse gases.	HER5, Chp17CDP
Apartments/duplexes shall not be permitted in this area. Dwellings shall be positioned and oriented to provide maximum passive surveillance of open space. Development proposals shall have regard to the setting and curtilage of Ballydonarea House, a protected structure. AP9: Bullford Action Plan																		
This action plan is located to the west of Main Street, in the townlands of Kilcoole and Bullford, as shown on Map 1. This Action Area measures c. 10ha and includes residential (c. 6.7ha), town centre (c. 2.9ha) zonings.																		
This Action Area shall be developed as a town centre, residential and community zone in accordance with the following criteria:																		
Vehicular access shall be provided from the proposed western distributor road, and the east-west linkage to Main Street. Only 50% of development shall be completed before the entire link between Main Street and the Newtownmountkennedy Road has been completed																	Road construction causes significant compaction of soil. Detrimental to biodiversity. Facilitiates increase in car trips/greenhouse gases. May comprise landscape quality. Significant new road materially inconsistent with SEO to utilise existing infrastructure.	Soil: SG1-6Chp17CDP; Biodiversity: HER1- HER5, Chp17CDP
Derelict buildings adjoining Main Street shall be removed and a new town square provided. New buildings shall be designed to enclose the new square. An																	May compromise integrity of streetscape.	HER13 Chp16CDP
indicative layout of the new town square is indicated in Figure 10.1. • A town car park shall be provided at an easily accessible and convenient																	Facilitates increase in car trips/greenhouse	
The streetscape south of 'The Breeches' pub shall be reinstated with the provision of a suitable new two storay development.																	gases.	
provision of a suitable new two-storey development. New residential areas shall be developed to the highest standard of design and layout and shall provide for a range of unit types and sizes.																		
Denser development may be considered in the area zoned TC, subject to a high quality design and respect for the scale and proportions of existing buildings on the Main Street																		
 Any development proposals for this Action Area shall include proposals for community uses, as determined through the preparation of a community facilities audit and consultation with the Community and Enterprise Section of the Council 																		
 A public riverine park shall be provided along the existing stream on the western boundary of the Action Area. This public park shall be designated a public park, not exclusive to the residents of the development and shall be maintained open at all times. The appropriate layout, design and landscaping of this park shall be determined following consultation with the DoEHLG and Eastern Regional Fisheries Board and in particular, landscaping should incorporate native species planting, any proposed paths should be suitably set back from the riverbank and left unmown so as not to interfere with the riparian zone and night lighting shall not be provided. AP10: Sea Road Action Plan 								c	C	С								
This action plan area is located east of Lott Lane and south of the Wellfield housing development, in the townland of Kilcoole, as shown on Map A. This Action Area measures c. 2ha. The action plan for this area was agreed on 8 th November 2012. In summary, this action plan provides for the following:																		
 A public park of not less than 0.4ha shall be provided. This park shall be located on the northern side of the action area. This public park shall include a playground area. These lands shall be transferred to Wicklow County Council) for use as a public park, prior to the construction of any dwelling (s) within the action area lands. 								c	С	С								
 The remainder may be developed for housing. The optimal location and configuration of this housing area shall be determined following an archaeological assessment of the action area. Furthermore, the design and orientation of the houses shall reflect the setting of the existing church ruin and the future park and in particular, houses shall not back onto the church site, the park or Sea Road. 																		
Lands at risk of flooding can be used as private open space.			С					c An	rendix 1									

SEA ASSESSMENT MATRIX DRAFT GREYSTONES-DELGNAY AND KILCOOLE LAP 2013-2019	SOIL1: Maximise the sustainable re-use of Brownfield sites and maximise the use of the existing built environment	SOIL2: To prevent pollution and/or contamination of soil within the plan area	B1: To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive	PHH1: Create a healthy environment	PHH2: Promote a high quality living environment	AQ1: To reduce travel related greenhouse emissions and other noxious emissions to air	AQ2: Achieve Environmentally friendly building designs	quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.	W-G: To prevent pollution and contamination of ground waters	W-F: To prevent development on lands which pose -or are likely to pose in the future-a significant flood risk	MAT 1:To make best use of existing water services infrastructure	MAT 2: Make the best use of existing road and transportation infrastructure	AH1: To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places-and in the context of their surrounding landscapes where relevant	AH2: To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and ACAs and their context within the surrounding landscape where relevant	L1: To protect and avoid significant adverse impacts on the landscape of the plan area	L2:The protection of listed views and prospects	
Access to be provided from Lott Lane and/or Sea Road A buffer zone shall be maintained around the existing church site and this																	
A buffer zone shall be maintained around the existing church site and this area shall be designated a heritage park.								С	С	С							



Proposed Variation No.3 to Wicklow County Development Plan 2010-2016

(linked to Draft Greystones-Delgany and Kilcoole Local Area Plan 2010-2016)

Appendix 2Extract from Environmental Assessment of Proposed Variation No. 3 to the Wicklow County Development Plan 2010 – 2016

1.0 Introduction

Wicklow County Council, being the Planning Authority for the area, is proposing making the following variations to the Wicklow County Development Plan 2010-2016.

The purpose of these variations is to ensure consistency between the County Development Plan 2010-2016 and the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019.

In accordance with Section 13 of the Planning and Development Act 2000 (as amended) the proposed variations will be on display for a period of not less than 4 weeks during which time written submissions or observations with respect to the proposed variations may be made to the Planning Authority, which will be taken into consideration before the making of the variation.

2.0 Purpose of Appendix 2:

As set out in the main body of the Environmental Report the Draft Local Area Plan for the area has a number of knock on effects on the County Development Plan 2010 – 2016. This appendix specifically highlights for convenience purposes the areas of the environmental report where these knock on effects have been assessed.

3.0 Synopsis of the Assessment of Proposed Variations in the Environmental Report:

Proposed variation 3.1

(a) Deletion of Objective RZ1 from Section 6.3.3 of Chapter 6 of the County Development Plan (b) Delete Map 06.05A

(a) Deletion of Objective RZ1

- **RZ1** To provide for rural residential development, with no restrictions on purchasing and occupation at the following location:
 - Grounds of Delgany Golf Club (as shown on Map 06.05A) for a maximum of 4 units

Reason for proposed variation: As this provisions is being carried forward in the Greystones-Delgany and Kilcoole Local Area Plan 2013-0219 (as 'Special Residential Zoning – Special R-B'), it is considered unnecessary and potentially confusing to maintain this zoning in the County Development Plan. Furthermore, local plans are considered the most appropriate vehicle for local zoning provisions.

Environmental Assessment: The assessment of the environmental impact on this land has been included with the Environmental report of the LAP 2013-2019. As can been seen from the Baseline map of Environmental Sensitivities this area has a low environmental sensitivity with the provision of residential development having a weighting impact of 4. This equates to a low environmental impact for this zoning with the overall evaluation of this zoning (SEA Assessment Matrix) indicating that the provision of a limited number of residential units in this area will overall have a neutral impact with impacts on groundwater being mitigated through the provision of objectives TS1 and TS3 of Chapter 12 of the County Development Plan 2010 – 2016.

Proposed variation 3.2

(a) Amend Table 10.2 of the County Development Plan (b) Amend Section 10.3.4 (c) of the County Development Plan

Description: This variation relates to the retail hierarchy of the Wicklow County Development Plan 2010 – 2016 and proposes to amend Table 10.2 to include the following wording (marked red) within the Greystones Area under the heading Neighbourhood Centres.

Greystones Area: Delgany Village, Blacklion, Charlesland, Bellevue Road, Mill Road, Killincarrig*, Victoria Road*, Eden Gate*

* These centres shall provide the same function as a Neighbourhood Centre, with the exception that they are not appropriate for the provision of a supermarket. They will normally have between approximately three and five retail / retail service units, depending on the characteristics of the particular area, with units generally limited to a maximum of c. 150m² gross floor area. For this reasons they shall be known in the Local Area Plan as 'Small Local Centres' to distinguish them from the larger 'neighbourhood centres'.

Reason for proposed variation: Following detailed local analysis of retailing provision and needs, revisions to the status of various retailing centres in the LAP area is recommended and is set on in the draft LAP. The purpose of the proposed variation is to ensure that the LAP and the County Development Plan are consistent.

Environmental Assessment: The assessment of the environmental impact on this land has been included with the Environmental report of the LAP 2013-2019. The variations to this section of the County Development Plan have been assessed in the SEA Matrix under objectives RT9 and RT10 and have been shown to be consistent or have a neutral impact with the Strategic Environmental Objectives.

Proposed variation 3.3

(a) Amend Table 16.1 of the County Development Plan (b) Amend Map 16.03B of the County Development Plan

Description: This variation proposes to designate the area of land at Greystones Harbour as an Architectural Conservation Area (ACA). The designation of ACA's within the plan area aims to safeguard and enhance the special character and environmental quality of certain areas within the plan.

Reason for variation: To add the proposed 'Greystones Harbour' ACA to the County Development Plan

Environmental Assessment: The assessment of the environmental impact of this variation has been included with the Environmental report of the LAP 2013-2019. This variation to the County Development Plan has been assessed in the SEA Matrix under objective HER12 and has been shown to be consistent or have a neutral impact with the Strategic Environmental Objectives.

Proposed variation 3.4

(a) Amend Schedule 17.6 of the County Development Plan (b) Amend Map 17.06

Reason for proposed variation:

The draft Greystones - Delgany and Kilcoole LAP identifies 2 categories of trees worthy of protection:

- (a) Trees that are subject of Tree Protection Orders (TPO)
- (b) Trees that are subject to 'Tree Protection Objectives' of the draft LAP

A number of the trees in category (b) are also identified in the County Development Plan as 'Trees to be considered for TPO'. It is considered unnecessary and potentially confusing for some trees to have multiple designations in the CDP and the LAP. Local plans are considered the most appropriate vehicle for local objectives.

Environmental Assessment: This proposed variation aims to provide consistency between the proposed Local Area Plan, does not alter or reduce the protection afforded to this group of trees and is therefore considered to have a neutral impact with the Strategic Environmental Objectives of the SEA of the Wicklow County Development Plan and ER of the Local Area Plan.

Proposed variation 3.5

(a) Amend Schedule 17.8 of the County Development Plan (b) Amend Map 17.10 of the County Development Plan

Reason for proposed variation: The draft LAP identifies views that are to be protected. A number of these views are also listed for protection in the County Development Plan (Schedule 17.8). While there is no

conflict in this regard, it is considered clearer to identify these views in one plan only. Local plans are considered the most appropriate vehicle for local objectives.

Environmental Assessment: This proposed variation aims to provide consistency between the proposed Local Area Plan, does not alter or reduce the protection afforded to these views and is therefore considered to have a neutral impact with the Strategic Environmental Objectives of the SEA of the Wicklow County Development Plan and ER of the Local Area Plan.

Proposed variation 3.6 Amend Map 17.09B (Landscape Characterisation Map) of the County Development Plan

Reason for proposed variation: The draft Greystones-Delgany and Kilcoole LAP makes provision for the zoning of additional lands for development outside of the previous LAP boundaries. Some of these lands are currently identified as being in the 'corridor' and 'area of outstanding natural beauty' landscape zones in the County Development Plan, rather than the 'urban area' landscape zone, as set out on Map 17.09B of the County Development Plan. This map change would reflect the new settlement boundary provisions of the new (draft) LAP.

Environmental Assessment: As set out above the purpose of this variation is to ensure that there is consistency between the LAP and the Wicklow County Development Plan recognizing the revised settlement boundaries for both Greystones-Delgany and Kilcoole. The proposed revised settlement boundaries are considered to have a neutral or positive impact on the Strategic Environmental Objectives relating to landscape with the area of land to the north of the Greystones settlement Boundary and an area North and East of the Kilcoole settlement Boundary now being included within the Coastal Area (Area of outstanding Natural Beauty) instead of the Urban Area.

This variation also provides minor extensions and retractions to the Corridor Area that area also considered to have a neutral or positive impact on the Strategic Environmental Objectives relating to landscape

Proposed variation 3.7 Amend Rathdown No. 2 District Plan Map

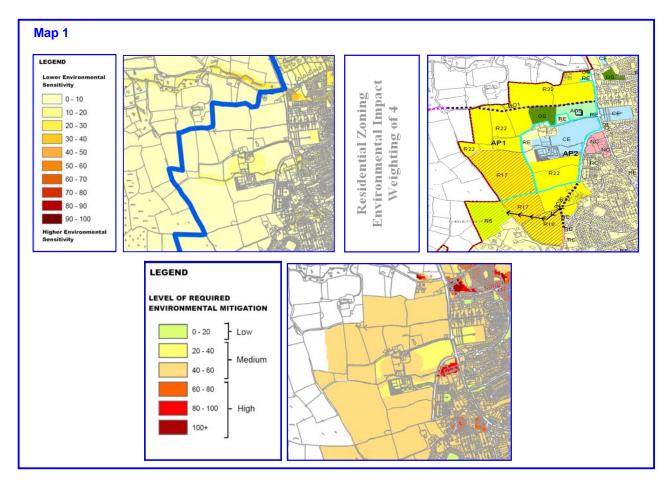
Reason for proposed variation: The draft Greystones-Delgany and Kilcoole LAP makes provision for the zoning of additional lands for development outside of the previous LAP boundaries. Some of these lands are currently identified as being in the 'GB – greenbelt' zone in the Rathdown No. 2 District Plan, which forms part of the County Development Plan, rather than the 'LAP area' zone, as set out on Map 1 of the Rathdown No. 2 District Plan map of the County Development Plan. This map change would reflect the new settlement boundary provisions of the new (draft) LAP.

Environmental Assessment: As set out above the purpose of this variation is to ensure that there is consistency between the LAP and the Rathdown No. 2 Plan which forms part of the Wicklow County Development Plan recognizing the revised settlement boundaries for both Greystones-Delgany and Kilcoole.

The Variation proposed reduces the extent of the Green Belt Zoning within the Rathdown No.2 Plan with these lands now falling within the overall LAP boundary now. The effect of this variation on lands to the north of the Greystones settlement boundary is considered to be neutral as these lands will maintain there zoning as green belt within the LAP. The revised Greystones settlement boundary does however reduce the extent of the Green Belt zoning along the western boundary of the plan area with lands now being zoned for 1) residential development to the north west and 2) a low density residential zoning as set out in Variation no. 3.1 above.

1) The new residential development to the north west

The baseline mapping of the ER of the LAP indicates that these lands have a low environmental sensitivity (as shown in Map 1 below) while residential zoning having a mid to high environmental impact of 4. This indicates that a medium level of environmental protection is required with this zoning with the Environmental Assessment Matrix indicating that the provision of new residential development within the plan area being consistent with or having a neutral impact on the strategic environmental objectives set out in the ER.



Proposed variation 3.8

(a) Amend Chapter 18 'Coastal Zone Management' (b) Amend map

Reason for proposed variation: The alteration to the LAP and 'settlement boundaries' may conflict with the 'coastal cells' as delineated in Chapter 18 of the County Development Plan. This text and map change would reflect the new LAP and 'settlement boundary' provisions of the new (draft) LAP.

Environmental Assessment: As set out above the purpose of this variation is to ensure that there is consistency between the LAP and the Wicklow County Development Plan recognizing the revised settlement boundaries for both Greystones-Delgany and Kilcoole. The alterations do not change the underlying provisions of the Coastal Cells as set out in the County Development in anyway. The proposed revisions to the coastal cell boundaries are considered to have a neutral or positive impact on the Strategic Environmental Objectives relating to landscape and biodiversity.

5.0. Conclusion

SEA is not mandatory in this instance as it is a variation of the Wicklow County Development Plan 2010-2016 however the proposed variations in essence form part of the overall plan area and therefore have been assessed under the Strategic Environmental Report of the local area plan which has concluded that, subject to the integration of mitigation measures already included in the County Development Plan and those proposed in the draft local area plan any potential adverse environmental effects can be avoided, reduced or off set.

The Variations to the Wicklow County Development Plan 2010 -2016 involve minor alterations to settlement, Landscape category and coastal cell boundaries and the reclassification of land uses that will if adopted fall within the settlement boundary for Greystones/Delgany. The variation also proposes the deletion of a group of trees and views from the Wicklow County Development Plan in order to avoid duplication with the Draft Local Area Plan. It is not considered that these proposed variations are likely to have any significant environmental effect.

The likely significant environmental effects of the proposed altered land use designations and objectives relevant to the above variations have been considered under the ER of the local area plan, and it is concluded that subject to the integration of mitigation policies of the ER, any potential adverse environmental effect that could arise as a result of implementing these variations can be avoided, reduced or offset.

6.0. Recommendation

Based on the above it is the determination of Wicklow County Council that the above environmental assessment alongside the Strategic Environmental Assessment of the Greystones-Delgany and Kilcoole Local area plan is sufficient.

Appendix 3 Non-Technical Summary

Appendix 3

Non-Technical Summary Report of the Environmental Report of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 and the required subsequent Proposed Variation to the Wicklow County Development Plan 2010-2016 Strategic Environmental Assessment(SEA).

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1.1 Introduction:

This is the Non-Technical Summary of the Environmental Report of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 and the required subsequent Proposed Variation to the Wicklow County Development Plan 2010-2016 Strategic Environmental Assessment (SEA). The purpose of the Environmental Report is to provide a clear understanding of the likely environmental consequences of implementing a particular development strategy for the area.

1.2 What is an SEA?

SEA is a systematic process of predicting and evaluating the likely environmental effects of implementing a proposed plan, or other strategic action, in order to ensure that these effects are appropriately addressed at the earliest appropriate stage of decision-making on a par with economic and social considerations.

1.3 Why is it needed?

The SEA is being carried out in order to comply with the provisions of the SEA Regulations and in order to improve planning and environmental management within the Plan area. The output of the process will be an Environmental Report, which should be read in conjunction with the plan.

1.4 How does it work?

All of the main environmental issues within Greystones-Delgany and Kilcoole are assembled and presented to the team who are preparing the new Plan. This helps them to devise a plan that protects whatever is sensitive in the environment. It also helps to identify wherever there are environmental problems in the area - so that these won't get any worse - and ideally the plan tries to improve these.

To decide how best to make a plan that protects the environment as much as possible the planners examined possible alternative versions of the plan. This helps to determine what plan strategy is least likely to harm the environment.

1.5 Proposed Variation No. 3 to the Wicklow County Development Plan 2010 -2016

The knock on effect of the proposed Draft Local Area Plan requires a number of minor variations to the Wicklow County Development Plan. These Variations shall run concurrently with the Draft Local Area Plan and shall be carried out in accordance with Section 13 of the Planning and Development Act 2000 (as amended). The purpose of these variations is to ensure consistency between the County Development Plan 2010-2016 and the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019.

1.6 What is included in the Environmental Report, which accompanies the Local Area Plan? The Environmental Report contains the following information:

- A description of the environment and the key environmental issues;
- A description and assessment of alternatives for the Plan;
- An assessment of the plan and its policies and objectives; and,
- Mitigation measures which will aid compliance with important environmental protection legislation - e.g. the Water Framework Directive, the Habitats Directive - and which will avoid/reduce the environmental effects of implementing the Plan,
- An Appendix outlining the assessment of the subsequent proposed variation to the Wicklow County Development Plan 2010-2016 within the Environmental Report.

1.7 What happens at the end of the process?

When the Local Area Plan/variation is adopted a document must be made public, referred to as the SEA Statement. The SEA Statement must include information on how environmental considerations have been integrated into the plan/variation and why the preferred alternative was chosen for the plan in light of the other alternatives, this introduces accountability, credibility and transparency into the plan making process.

2.1 Introduction

The plan will supersede the Greystones-Delgany Local Area Plan 2006-2012 and the Kilcoole Local Area Plan 2008-2014. Even though the Kilcoole plan has another two years to run, the Council has determined that there would be benefits in reviewing the Kilcoole plan now ahead of schedule and preparing a single plan for the wider area which would include all areas encompassed in the two existing plans

2.2 Hierarchy of Plans

The Draft Greystones-Delgany and Kilcoole Local Area Plan exists in a hierarchy of plans flowing from national level (National Spatial Strategy 2002-2020) to regional level (Regional Planning Guidelines for the Greater Dublin Area 2010-2022), to County level (Wicklow County Development Plan 2010-2016). It is through the County Development Plan that these higher order strategies, as well as other national and regional policies (e.g. relating to transportation and the environment) are translated to a 'local level'.

2.3 Vision for Greystones-Delgany and Kilcoole

A key aim of the Draft Local Area Plan is to set out a vision and overall strategy for the future development of the settlement and from this vision, all policies and objectives can be developed and implemented with the overall aim of achieving this vision.

To build on the dynamism between the settlements of Greystones-Delgany and Kilcoole, so that the area develops in a mutually dependent and complementary manner as a prosperous and growing community. Each settlement shall have a distinct identity and shall perform a function in sustaining its own local community and in providing enhanced opportunities for the creation of new local enterprise. The area shall be a high quality, attractive and sustainable place to live, visit and conduct business. The combined area shall maximize the potential opportunities associated with its strategic location at the edge of the Dublin Metropolitan Area

The key elements of the vision for Greystones-Delgany and Kilcoole are to:

- Improve the quality of life of the resident population of Greystones-Delgany and Kilcoole by planning for and encouraging the provision of high quality housing and employment, social and community facilities and a range of recreational options, in a quality environment;
- Regulate pressures from urban and rural development, in particular sporadic development in rural areas and development pressure emanating within the plan area and from south Dublin by providing a sustainable settlement and growth strategy to create a compact urban form and to enhance the physical, economic and social profile of the plan area.

This will be achieved by:

- The retention of a suitable greenbelt buffer between Greystones-Delgany and Kilcoole.
- Reinforcing and improving the visual appearance of the central area of the town with particular attention on the Architectural Conservation Areas
- Greystones is to develop in a sustainable manner at a relatively large-scale in accordance with its role as a county significant 'growth' town.
- The identity of Kilcoole as a separate stand alone entity in the wider area shall be reenforced by protecting its distinct character and by encouraging its continued growth as a small, locally important commercial town
- The role of Delgany as a village, to serve the day-to-day service and social needs of its local population, shall be strengthened.

The above vision must be implemented in a manner capable of achieving the projected growth in residential units for the plan area of 3765 residential units in Greystones-Delgany and 775 residential units in Kilcoole up to 2022.

3.0 Summary of Baseline Environment/Existing Environmental Problems facing the plan area

3.1 Introduction

The Environmental Report contains a range of baseline information under key environmental headings relevant to the plan area such as Soil and Geology, Biodiversity (Flora and Fauna), Population and Human Health, Climate and Air Quality, Material Assets, Cultural Assets and Landscape.

Each of the above key environmental headings was assessed in the context of the plan area in order to establish an overall picture of the current state of the environment. This information was collated and Geographical Information Systems were used in order to produce a baseline environment map which highlighted areas within the proposed plan boundary that would be most sensitive. In order to produce this map all relevant components of the baseline environment were assigned a weighting based on there status e.g. Natura 2000 sites were given a weighting of 10 while the Architectural Conservation Area within the Town Centre was assigned a weighting of 4. This Baseline Map is reproduced in Figure 3.1 below.

3.2 Description of the Baseline Map Produced

The baseline map below in figure 3.1 helped identify the key areas within the plan boundary that were most sensitive to development. As can be seen from this map the most sensitive area identified to future development was to the north of Greystones due to the designation of the Bray Head SAC and SAAO and to the east of the Kilcoole plan area due to the designation of the Murrough SAC/pNHA.

The other most notably sensitive areas included the area along the Three Trouts River and local biodiversity areas. The sensitivity of the town centres are also noted in recognition of the designation as an Architectural Conservation Area, this is particular the case in Greystones, the existing protected buildings within this area and the level of intensification of development within the town centres. Issues relating to flooding were also highlighted along the main river systems within the plan area, namely the Three Trouts Stream, the Newtown River and the Kilcoole Stream.

3.3 Summary of Environmental Problems identified

The most prominent environmental problems facing the plan area were identified as being:

- Lands adjoining the Bray Head are highly sensitive in recognition of a number of environmental designations in this area, including Natura 2000 sites, SAAO, pNHAs, listed prospects/views and national monuments.
- Greystones-Delgany and Kilcoole town centres have a higher sensitivity rating which
 can be attributed to the designations including the Architectural Conservation Area
 and protected structures/archaeological monuments within the plan area
- Lands in proximity to rivers have a higher sensitivity rating which can be attributed to
 the vulnerability of the water bodies and risk posed by flooding. Lands adjoining the
 Three Trouts River are sensitive due to the recognition of the number of
 environmental sensitivities in the area.
- Lands to the East of Kilcoole are identified as being vulnerable, having regard to the close proximity to the Murrough SAC and p NHAs

Page 66 of the Environmental Reports provides a detailed description of the findings of the Baseline Map as shown below in figure 3.1. The areas of land and issues identified as being problematic within the plan area were then used in order to identify the most suitable lands for the required land uses of the plan. Where land uses where proposed that had the potential to conflict with the protection of sensitive lands, mitigation measures were developed in order to protect these lands or guide development on these lands in an appropriate manner. This was carried out through the introduction of a number of objectives/mitigation measures as set out in section 9 of the plan.

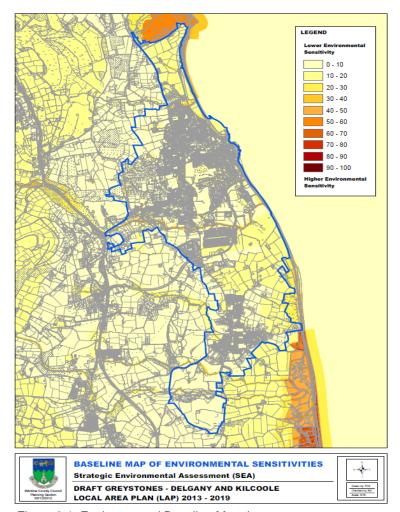


Figure 3.1: Environmental Baseline Mapping

4.0 Strategic Environmental Objectives

The Local Area Plan is subject to a number of high level national, international and regional environmental protection policies and objectives. A series of Strategic Environmental Objectives (SEOs), see table below, have been derived from these sources, which cover the range of environmental aspects and reflect a local dimension.

Examples of Strategic Environmental Objectives include the aim of the EU Habitats Directive which is to contribute towards ensuring bio-diversity through the conservation of natural habitats and of wild fauna and flora in the European territory of Member States — and the purpose of the Water Framework Directive - which is to establish a framework for the protection of inland surface waters, transitional waters, coastal waters and groundwater. The strategy and policies in the Local Area Plan must be consistent with these objectives and the Plan must be capable of implementing these objectives at a local level for the plan area.

SOIL1	Maximise the sustainable re-use of brownfield sites and maximise the use of the existing built environment
SOIL2	To prevent pollution and/or contamination of soil within the plan area
B1	To ensure compliance with the Habitats Directive and National Biodiversity Plan with regard to protected species and habitats both within and outside of designated sites in accordance with the provisions of Articles 6 and 10 of the Habitats Directive
PHH1	Create a healthy environment
PHH2	Promote a high quality living environment
AQ1	To reduce travel related greenhouse emissions and other noxious emissions to air
AQ2	Achieve Environmentally friendly building designs
W-S	To maintain and improve, where possible, the quality of Streams, Rivers, Lakes and other surface waters within and adjoining the plan area in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015.
W-G	To prevent pollution and contamination of ground waters
W-F	To prevent development on lands which pose –or are likely to pose in the future-a significant flood risk
MAT1	To make best use of existing water services infrastructure
MAT 2	Make the best use of existing road and transportation infrastructure
AH1	To protect the archaeological heritage of Greystones-Delgany and Kilcoole including entries to the Record of Monuments and Places and in the context of their surrounding landscapes where relevant
AH2	To preserve and protect the special interest and character of Greystones-Delgany and Kilcoole architectural heritage including entries to the Record of Protected Structures and their context within the surrounding landscape where relevant
L1	To protect and avoid significant adverse impacts on the landscape of the plan area
L2	The protection of listed views and prospects

Based on these objectives a range of environmental targets and indictors was devised. Targets set aims and thresholds which should be taken into consideration to effectively assess the impact of the Draft Plan on the environment, and indicators are measures used to track the achievements of the environmental protection objectives in the Local Area Plan and to monitor the impact of the Local Area Plan on the environment. The targets and indicators are set out in Section 4 of the Environmental Report.

5.0 Alternative Plan Scenarios

One of the critical roles of a SEA is to facilitate an evaluation of the likely environmental consequences of a range of alternative strategies for facilitating the future development of the Greystones-Delgany & Kilcoole area within the constraints imposed by intrinsic environmental conditions. The SEA Directive requires that reasonable alternatives, taking into account the objectives and the geographical scope of the plan or programme, are identified, described and evaluated for their likely significant effects on the environment. For the purposes of the environmental assessment of the Greystones-Delgany and Kilcoole Local Area, three alternative Plan scenarios were developed.

Alternative 1: Most Environmental Friendly Option

This alternative sets out a development strategy that aims to achieve a high level of protection to the environment. This alternative is illustrated in Figure 6.1 and key components of it are:

- The greenbelt has been expanded on lands at the edges of the plan area. These
 greenbelt areas reflect land of which are elevated in the landscape, land of key
 importance in the protection of listed prospects/views, lands with rivers and flood
 prone areas, lands that act as buffer to Natura 2000 sites and lands that act as a
 buffer from the edge of the settlement plan to virgin/rural lands;
- In order to protect riparian habitats a 50metre buffer has been introduced along all rivers where possible, a 60m buffer is introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers have been zoned "Open Space";
- In order to protect urban biodiversity and to preserve public open space areas, the green areas within established residential areas have been zoned "open space:
- The existing Local Character Area in Greystones is designated a ACA;
- Lands that are undeveloped and that are affected by views and prospects are zoned "open space" where possible;
- The lands north and south of the Charlesland Estate are identified as "Parkland", a walking route will be created linking these parklands and will be further expanded into the Kilcoole plan area;
- Lands zoned for high density residential development are centrally located and in close proximity to the town centre of Greystones and Kilcoole;
- Lands zoned medium density residential development are centrally located and in close proximity to neighbourhood centres.

Alternative 2: Concentric & Compact Option

This alternative sets out a development strategy that aims to achieve a concentric and compact settlement form. This alternative is illustrated in Figure 6.2 and its key components are:

- The concentric model is based on urban form whereby urban expansion extends in a radial pattern outwardly from the centre;
- In order to protect riparian habitats a 30metre buffer has been introduced along all rivers where possible. A 40m buffer was introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers are indicated as "Open Space" zone;
- The Greystones Golf Club lands have been zoned a mixture of high density residential development and medium density residential development
- Lands zoned for high density residential development are centrally located in close proximity to the town centre and transport links.
- Infill Residential Development to be encouraged on underutilised lands in established residential areas.
- In order to protect urban biodiversity and to preserve public open space areas, public open space in housing estates has been zoned "open space".
- Lands at the outer edges of the boundaries of the plan area are considered to be less suitable for development and the majority of these areas have been zoned agriculture to further protect the lands along the edge of the plan areas.
- This alternative consolidates the land use pattern of the settlement, resulting
 in a more compact form which encourages the efficient use of land, the
 development of mixed use and walkable neighbourhoods and a reduction in
 the need for additional infrastructure

Alternative 3: Expansion Option

This alternative sets out development strategies that result in an urban sprawl. This alternative is illustrated in Figure 6.3 and its key components are:

- The vast majority of new development required in this option is occurring outside of the existing "built envelope" of the towns i.e. new housing proposed occurring at low-medium densities on greenfield lands rather than on brownfield or infill sites;
- In this option there is minimal new residential development in the two centres:
- In order to protect riparian habitats a 20metre buffer has been introduced along all rivers where possible, a 30m buffer has been introduced along the Three Trouts River to reflect the fact that this area is an important habitat system and an area rich in biodiversity as outlined in the Local Biodiversity Study 2006. These buffers are indicated as "Open Space" zone.
- New residential developments occurring on the periphery of the towns are located where infrastructural services can be accessed and accommodated.
- This alternative allows for the expansion of the plan area which results in a more sporadic pattern of development with the least sustainable transport pattern

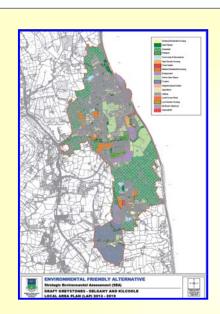


Figure 5.1 Environmental
Friendly
Alternative

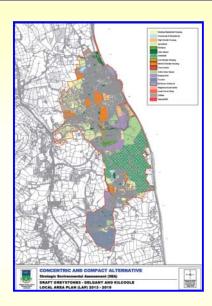


Figure 5.2 Concentric and Compact Alternative

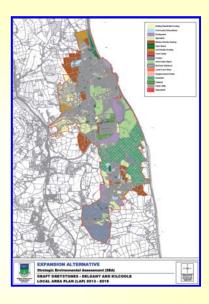
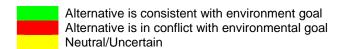


Figure 5.3 Expansion
Alternative

5.2 Evaluation of Alternative Plan Scenarios

In order to identify the extent to which environmental sensitivities are likely to be impacted upon by implementation of the Plan alternatives, each plan scenario was measured against the Strategic Environmental Objectives detailed in Section 4 above and illustrated on the table below.

Alternative	Soil	Biodiversity,Flora and Fauna	Population and Human Health	Climatic and Air Factors	Water Resources	Material Assets	Cultural Assets	Landscapes
1. The Environmental Option								
2. The Concentric and Compact Option								
3.The Expansion Option								



5.3 The preferred alternative:

On the basis of the above analysis Scenario 1 and Scenario 2 would be likely to improve the status of a number of the SEOs and as a result these two alternatives emerge as the most environmentally sustainable options. If unmitigated, Scenario 3 would be likely to result in a number of adverse environmental impacts. Having regard to the aspiration of providing a balanced approach between Social, Economic and Environmental considerations, it was deemed necessary to integrate some of the elements of these alternatives in the framing of the plan. For example the plan provides for the zoning of residential development to the north of the plan area (Blacklion), although the zoning of these lands conflicts with a number of SEOs, However the environmental objectives can largely be offset by appropriate mitigation measures as indicated in section 9 to follow. Taking into consideration the requirements of higher order plans (RPG's 2010 – 2022 and CDP population targets) it was considered appropriate to zone these lands as they were situated in close proximity to existing community and educational facilities.

6.0 Assessment of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019:

6.1 Introduction

The Environmental Report is required to include information on the likely significant effects on the environment of the Greystones-Delgany and Kilcoole Local Area Plan 2013-2019. Matrices were used to evaluate each of the proposed Plan aims and objectives once the preferred strategy had been identified.

This section of the Environmental Report evaluated the Local Area Plan provisions. Strategic Environmental Objectives (SEOs) are used for this purpose as outlined under section 4 above. Use has also been made of the environmental baseline descriptions and the maps of the individual environmental components and the overlay of environmental sensitivities provided in section 3 above. The interactions between the SEOs and the provisions of the Plan determine the likely significant effects of implementing the Plan.

A summary of the findings of this assessment is set out below based on the impact of the overall plan on the receiving environment. While the majority of impacts were found to be either positive or neutral, particular attention has been paid to the identification of Draft Plan objectives that conflict with the SEOs of the Environmental Report, and the measures that have been adopted to mitigate or offset these effects.

6.2 Likely significant effects of the Draft Greystones-Delgany & Kilcoole Local Area Plan

Soils

Overall, the SEA indicates that the Draft Plan has a neutral or beneficial impact on the SEO (S1 & S2) to maximise the sustainable re-use of brownfield sites and to prevent pollution or contamination of soil within the plan area. Key to the achievement of this objective is the promotion of a compact settlement form maximising the use of the existing built environment. This, in combination with objectives that protect designated and non-designated natural heritage areas, has an overall effect of positively contributing to the quality of soils in the plan area.

Objective EMP3 encourages the redevelopment of already developed or brownfield lands which would have a positive impact on the protection of soils.

The SEA assessment did identify the following objectives which could be detrimental to the achievement of the SEO:

- Objectives for the development of new and improved road infrastructure can result in the compaction of soil which reduces soil quality
- Development of greenfield sites is likely to result in the development of virgin greenfield sites, which may compromise soil quality

The above potentially harmful effects are mitigated by the environmental objectives SG1-6 and Chapter 17 of the County Development Plan 2012-2016.

Biodiversity Flora and Fauna

One of the most important SEOs is that which relates to the protection of biodiversity (SEO B1). Overall, the evaluation of the Draft Plan objectives is deemed to have a positive or neutral impact on the SEOs to maintain and enhance biodiversity.

Notwithstanding the above, it should be noted that a number of Draft Plan objectives were found to potentially conflict if unmitigated with the SEOs to maintain and enhance biodiversity. These effects are described below:

 Section 5 of the LAP sets out objectives for the promotion of employment and economic development. In general industrial activities can result in emissions which can have an adverse impact on air, water and land, which can have a cumulative impact on biodiversity. Employment Objectives conflict with SEO objective B1,

- however it is considered that these effects can be successfully mitigated through the environmental objective.
- Objectives for the promotion of tourism and recreation activities (coastal walkway) and for the promotion of sustainable energy forms could have damaging effects on natural heritage. However these effects can be successfully mitigated through the environmental objectives set out in the draft local area plan and CDP 2010-2016.
- Objectives for the development of new roads can be detrimental to natural heritage, both in a direct and cumulative manner (whereby increased car usage results in emissions harmful to natural heritage.) It is difficult to mitigate the harmful effect of new roads on non-designated sites; however the requirements of the Habitats Directive will safeguard the protection of Natura 2000 sites.

While the objectives of the Wicklow County Development Plan 2010-2016 are applicable to the Greystones-Delgany and Kilcoole Local Area Local Area Plan in this regard additional objectives of the plan namely the objectives HER1-HER14, Chapter 17 of the County Development Plan 2010-2016.

Population and Human Health

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEO to provide for population growth on appropriate lands within a healthy and high quality environment. Of key importance to the achievement of this objective is the fact that the Draft Local Area Plan provides enough zoned land to meet the needs of projected population targets for the lifetime of the current plan and these lands can be easily served with the necessary services infrastructure (water and waste infrastructure).

The proposed zonings are located on lands that can be easily serviced and which are closest to the town centre. This results in the promotion of a compact urban form and sustainable transportation and land use pattern, which reduces the need to travel and which provides access to housing, employment, health, educational and amenity space. This development pattern consequently promotes a healthy and high quality living environment.

The development of roads infrastructure generally promotes car based travel. This conflicts with the target to promote a modal shift to public transport, walking and cycling and is likely to increase noise and air pollution which maybe contrary to the objective to create a healthy environment. Notwithstanding this, it is noted that the these potential adverse effects are offset by the fact the draft LAP includes a large number of objectives for the development of walking and cycling routes, the creation of walkable neighbourhoods and the greater use of public transport. These objectives include the following: TOUR 2-TOUR3, TS7-TS12.

Water Resources

Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to achieve and maintain a "good" quality status in all water bodies within the plan area, in line with the target dates set out in the Eastern River Basin Management Plan 2009-2015. In relation to flooding the SEA matrix indicates that the draft LAP has a positive or neutral impact on the SEO to reduce and mitigate flood risk.

The following Draft local area plan objectives were found to conflict if unmitigated with the SEOs to achieve and maintain a "good water quality status" in all water bodies within the plan area, in line with the targets set out in the Eastern River Basin Management Plan 2009-2015:

- The promotion of employment and economic uses could result in pollution risk to the water bodies within the plan area;
- Objectives for tourism and recreation generally promotes greater use and access to rivers, ports harbour and coastal areas, thereby increasing the potential for pollution of these water bodies;
- Objective R13 for the improvement to the existing road network over the Three Trouts River could have potential harmful effects;

 Objectives RES9 & RES10 promotes residential development some of which may require private waster water treatment systems which could potentially have a negative effect to the quality of the groundwater.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

TS1-TS3, HER 5, Chapter 12 & 17 of the Wicklow County Development Plan 2010-2016

Material Assets

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to make the most efficient use of existing water services and transportation infrastructure. A particularly significant SEO is to make the most efficient use of existing water services infrastructure.

The objectives relating to the construction of new roads are materially inconsistent with SEO MAT 2 which promotes the best use of the existing road network notwithstanding this the draft plan promotes the concept of sustainable land-use patterns which conforms to sustainable planning and development of the area. The draft plan promotes the best use of the road infrastructure by appropriately zoning land for a range of land uses located along the main transport routes and promotes the "walkable neighbourhoods" concept Cultural Heritage

Overall the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to protect and conserve architectural and archaeological heritage.

The following objectives of the LAP are particularly important in the achievement of the SEOs:

- The designation of a new Architectural Conservation Area within the Greystones Harbour Area:
- The designation of a "Local Character Area" in Kilcoole;
- The protection of the built and natural heritage of the Rathdown Heritage area which facilitates the development of this area as a heritage park.

Notwithstanding this the SEA assessment did identify that the following objectives that could be detrimental to the achievement of the SEOs:

- Objectives that relate to the Greystones and Kilcoole town centre that encourages infill and backland development of properties that could be detrimental to the integrity of archaeological sites;
- Objectives for the promotion of increased tourism and recreation can result in damaging effects on natural and built heritage;
- The development of the Charlesland Action Plan (AP7) may compromise archaeological heritage at this location;
- Objectives that relate to employment uses can result in potential damage to built heritage. The development of the E1 lands at Charlesland (EMP 4) may compromise the integrity of archaeological sites.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

HER 1-14 Chapter 16 of the Wicklow County Development Plan 2010-2016.

Landscape

Overall, the SEA matrix indicates that the plan has a positive or neutral impact on the SEOs to protect scenic landscapes. It should be noted that the landscape of the Bray Head area is considered to be adequately protected by virtue of the strong environmental objectives in the area and the green belt zoning of the said landscapes.

It should be noted that the length of prospect no.2 has been reduced slightly to ensure no conflict with the development of zoned land at Charlesland occurs. The development of these lands is regarded as sustainable as it is considered that these lands are a natural expansion of the Charlesland development and are located in close proximity to community facilities. The amended prospect is reflective of the most scenic part of the original prospect, ensuring that the visual amenity of this area is safeguarded.

The SEA process identified that the following objectives of the Draft LAP required mitigation in order to ensure achievement of the SEOs:

- Increased levels of tourism may compromise the landscape quality of the plan area
- The promotion of the coastal walkway (TOUR3) may compromise the landscape quality of the plan area
- The construction of roads may have a significant impact on the landscape quality of the plan area.

All of the above potentially negative effects are mitigated by the following key environmental objectives:

HER 1-14 Chapter 16 of the Wicklow County Development Plan 2010-2016

6.3 Assessment of Likely Environmental Effect of Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019

Taking account of the above assessment, it is concluded that the overall effect of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013 - 2019 on the environment is likely to be beneficial or neutral. Any likely significant adverse effects on the environment have been prevented, reduced or offset.

7.0 Monitoring

The SEA Directive requires that the significant environmental effects of the implementation of plans and programmes are monitored. The Environmental Report puts forward proposals for monitoring the Plan, which are adopted alongside the Plan. Monitoring enables, at an early stage, the identification of unforeseen adverse effects and the undertaking of appropriate remedial action. In addition to this, monitoring can also play an important role in assessing whether the Local Area Plan is achieving its environmental objectives and targets - measures which the Local Area Plan can help work towards - whether these need to be re-examined and whether the proposed mitigation measures are being implemented.

The Environmental Report identifies indicators - which allow quantitative measures of trends and progress in the environment over time. Measurements for indicators come from a range of existing monitoring sources and from a series of meaningful indicators that could be derived from the Development Management system. A preliminary monitoring evaluation report on the effects of implementing the Local Area Plan will be prepared within two years of the making of the plan. The Council is responsible for collating existing relevant monitored data, the preparation of a monitoring report, the publication of this report and, if necessary, the carrying out of corrective action.

Appendix 4

Hierarchy of Other Plans and Programmes

Appendix 4:

Relationship of the Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019 with other plans and programmes

The "Greystones-Delgany and Kilcoole Local Area Plan 2013-2019" sits within a hierarchy of International, European, national, regional and local planning policies and statutory instruments. These policies and instruments are required to be taken into account in the development of objectives for the Draft Plan and Environmental Protection Objectives for the Environmental Report. A list of these policies and instruments are set out in the following tables.

Relationship of the 'Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019'

with key international and European policies and statutory instruments

Policy/ Statutory Instrument	Summary of Key Objectives
Kyoto Protocol	Internationally agreed targets to alleviate the impacts of climate change and reduce global emissions of Green House Gases (GHGs).
Nagoya Protocol – Strategic Plan for Biodiversity 2011-2020	Internationally agreed targets for the protection of biodiversity.
EU SEA Directive	Under the SEA Directive, the Development Plan requires an SEA. The Development Plan must take into account protection of the environment and sustainable planning.
EU Habitats Directive	Protects animal and plant species and 'habitat types' which are of European importance.
EU Birds Directive	Protection and conservation of bird species.
EU Water Framework Directive	Aimed at improving the water environment. Member states must aim to achieve 'good' status in all water bodies by 2015.
EU Groundwater Directive	Objective to protect groundwater bodies. Developed in response to Article 17 of the Water Framework Directive
EU Drinking Water Directive	Objective to protect the health of consumers in the EU and to make sure the water is wholesome and clean.
EU Bathing Water Directive	To ensure good bathing water quality.
EU Floods Directive	To reduce and manage the risk that floods pose to human health, the environment, cultural heritage and economic activity
EU Urban Waste Water Treatment Directive (91/271/EEC) as amended by 98/15/EEC Urban Wastewater Treatment Directive	Aimed at protecting the environment from the adverse effects of urban wastewater discharges and discharges from certain industrial sectors.
EU Shellfish Waters Directive	Concerns the quality of shellfish waters and applies to those waters designed as needing protection or improvement in order to support shellfish life and growth.

EU Freshwater Fish Directive	Designates surface waters for protection and improvement to support fish populations.
EIA (Environmental Impact Assessment) Directive	Requires member states to carry out assessments of the environmental impact of certain public and private projects before they are allowed to proceed.
EU Seveso Directive	To prevent major accidents involving dangerous substances
EU Directive on Ambient Air Quality and Cleaner Air for Europe (CAFE)	Sets out air quality standards and obligations relating to fine particle matter.
EU Pesticides Directive	To control the storage, use and disposal of pesticides to minimise risk to health and environment from their usage and to include measures which relate to soil management strategies in land use planning.
EU Directive on the Energy Performance of Buildings (EPBD)	Aims to improve energy performance of residential and non-residential buildings
EU Renewables Directives	Promotes the use of energy from renewable sources, for the achievement of the EU's 20% renewable energy target by 2020.
EU Waste Framework Directive, including Waste Directive 75/442/EEC	It provides for a general framework of waste management requirements in the EU.
EU Landfill Directive	To prevent or reduce as far as possible negative effects on the environment from landfill.
EU IPPC Directive	To minimise pollution from various industrial activities throughout the EU.
EU Nitrates Directive	To reduce water pollution caused or induced by nitrates from agricultural sources
EU Environmental Noise Directive	Deals with the assessment and management of environmental noise. This Directive applies to noise from industrial activity and from road, rail and air traffic. It does not apply to domestic noise
The European Landscape Convention (Florence 2000)	To promote landscape protection, management and planning and to organise European co-operation on landscape issues.
European Commission: White Paper on Adapting to climate change: Towards a European Framework for Action (COM(2009)147)	Sets out a framework to reduce the EU's vulnerability to the impact of climate change.

Relationship of the 'Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019' with key National policies and statutory instruments

Policy/ Statutory Instrument	
	Summary of Key Objectives
Planning and Development Act 2000 (as	Primary and secondary legislation prescribing
amended), and Planning and Development	the processes and procedures that form the
Regulations 2001 (as amended)	Irish planning code.
European Communities (Environmental	Transposes EU Directive 2001/42/EC into
Assessment of Certain Plans and	Irish Law
Programmes) Regulations 2004 S.I. 435 of	
2004 and	
Planning and Development (Strategic	
Environmental Assessment) Regulations	
2004	
S.I. 436 of 2004, as amended by Planning	
and	
Development (SEA) (Amendment)	
Regulations	
2011 S.I. 201 of 2011	
National Development Plan 2007-2013	€184 mil infrastructural investment plan to
	build a prosperous country for Ireland's
	population.
National Spatial Strategy 2002-2020	20-year national planning framework to
	achieve more balanced social, economic and
	physical development across Ireland based
	on a strategy of gateways and hubs.
National Climate Change Strategy 2007-2012	Sets out measures for Ireland's reduction in
	emissions.
Transport 21 2006-2015	€34 billion transport capital investment
	framework under the NDP to address past
	investment backlogs and continuing growth in
	transport demand.
Department of Transport 2020 Vision –	Transport policy for Ireland for the period
Sustainable Travel and Transport (2009)	2009-2020. Sets out how the vision of a
	sustainable travel and transport system can
	be achieved
Government White Paper – Delivering a	Describes the actions and target for the
Sustainable Energy Future for Ireland 2007-	energy policy framework up to 2020.
2020	
National Biodiversity Plan: Actions for	Objective to promote the conservation and
Biodiversity 2011-2016	sustainable use of biodiversity.
National Energy Efficiency Action Plan 2009-	Sets out the government's actions to achieve
2020	20% energy efficiency saving.
Wildlife Act 1976 and Wildlife (Amendment)	To provide for the protection of flora and
Act 2000	fauna.
EU (Natural Habitats) Regulations, 1997 (S.I.	Transposes EU Habitats Directive 95/43/EC
No.94 of 1997) and amendments S.I. No.233	into Irish Law.
of 1998 and S.I. 378 of 2005	
Water Services Act 2007	Focuses on management of water 'in the
	pipe' as opposed to river water quality etc.
Water Services (Amendment) Bill 2011	To regulate wastewater discharges from all
	homes which are not connected to the public
	sewer network.
European Communities (Water Policy)	Transposes Water Framework Directive and
Regulations 2003 European Communities	Groundwater Directive into Irish Law.
Environmental Objectives (Surface Waters)	C. C and C. Encours into mon Law.
Regulations 2009 EC Environmental	
Objectives (Groundwater) Regulations 2010,	
and Amendment Regulations 2011	
and / information (Nogulations 2011	

European Communities (Drinking Water)	Transposes EU Water Framework Directive
Regulations 2000 and 2007	(2000/60/EC) and EU Drinking Water
50/0	Directive 98/83/EC into Irish Law.
EC (Quality of Salmonid Waters) Regulations 1988	Transposes Freshwater Fish Directive (78/659/EEC) into Irish Law.
Bathing Water Regulations 2008 and 2011	Transposes EU Bathing Water Directive 76/160/EEC into Irish Law.
Waste Water Discharge (Authorisation) Regulations 2007, and Amendment Regulations 2010	Provide for the authorisation by the EPA of discharges from local authority Waste Water Treatment Systems that are released to all types of receiving waters. In the case of discharges from smaller systems, certificates will apply instead of licences.
Urban Wastewater Treatment Regulations 2001	Transposes Urban Waste Water Treatment Directive into Irish Law.
European Communities (Quality of Shellfish Waters) Regulations 2006 and European Communities (Quality of Shellfish Waters) (Amendment) Regulations 2009	Transposes Shellfish Water Directive into Irish Law.
Water Conservation Regulations 2008	Provides for the conservation of water.
Nitrates Regulations 2006 and EC (Good Agricultural Practice for the Protection of Waters) Regulations, 2007, 2009, 2010 Waste Management (Use of Sewage Sludge in Agriculture) Regulations 1998, as Amended 2001	Provide statutory support for good agricultural practice to protect waters against pollution from agricultural sources and give further effect to several EU Directives.
Environmental Noise Regulations 2006 (S.I.140 of 2006)	Transposes EU Directive 2002/49/EC into Irish Law
Air Quality Standards Regulations 2011 (S.I. No. 180 of 2011)	Transposes the Ambient Air Quality and Cleaner Air for Europe (CAFE) Directive into Irish Law.
Sustainable Residential Development in Urban Areas – Guidelines for Planning Authorities 2009	Objective to produce high quality sustainable development which includes the integration of schools, community facilities, employment, transport and amenities in a timely and costeffective manner.
Best Practice Urban Design Manual	Companion document on best practice implementation of 'Sustainable Residential Development in Urban Areas'.
Sustainable Rural Housing Development –	Guidelines for the sustainable development
Guidelines for Planning Authorities 2005	of rural areas, with a focus on housing need.
Flood Risk Management – Guidelines for Planning Authorities 2009	Aims to integrate flood risk management in to the planning process.
Architectural Heritage Protection –	Practical guide for planning authorities to
Guidelines	deal with the provisions of Part IV of the
for Planning Authorities 2004	Planning and Development Act.
Spatial Planning and National Roads – Guidelines for Planning Authorities 2012	Advice relating to development at locations on or in the
	vicinity of national roads.
Landscape and Landscape Assessment – Draft Guidelines for Planning Authorities 2000	Guidance on landscape appraisal.
Strategic Environmental Assessment – Guidelines for Planning Authorities 2004	Guidance relating to the implementation of SEA Directive (2001/42/EC).
Telecommunications Antennae and Support Structures – Guidelines for Planning Authorities	Guidance relating to appropriate locations for telecommunications structures.

Tree Preservation – Guidelines for Planning Authorities	Guidance relating to Tree Protection Orders.
Wind Energy Development – Guidelines for	Guidance relating to the appropriate locating
Planning Authorities	of wind energy structures.
Appropriate Assessment of Plans and	Guidance relating to Appropriate Assessment
Projects in Ireland – Guidance for Local	for the protection and conservation of
Authorities 2010	Natura 2000 sites.
EPA Code of Practice on Wastewater	Guidance regarding the assessment of on-
Treatment and Disposal Systems serving	site wastewater disposal systems for single
Single Houses (October 2009),	houses.
Environmental Protection Agency (EPA),	Guidance produced by stakeholders involved
Inland Fisheries and National Roads	in the promotion of sustainable planning and
Authority (NRA) Guidelines as appropriate	the protection of the environment.
Record of Monuments and Places	Record of archeologically important
	monuments and places, protected under
	Section 12 of the National Monuments
	(Amendment) Act (1994).
National Inventory of Architectural Heritage	Survey of architecturally important heritage,
(NIAH).	undertaken by Department of Arts, Heritage
	and the Gaeltacht.

Relationship of the "Draft Greystones-Delgany and Kilcoole Local Area Plan 2013-2019" with key Regional policies and statutory instruments

Policy/ Statutory Instrument	Summary of Key Objectives
Regional Planning Guidelines for the Greater Dublin Area 2010-2022	To provide a long-term strategic planning framework for the development of the Greater Dublin Area.
Retail Strategy for the GDA 2008-2016	Aims to set out a co-ordinated sustainable approach to the assessment and provision of retail use within the Greater Dublin Area.
Greater Dublin Area Draft Transport Strategy (National Transport Authority) 2011	To identify areas of accessibility within the Dublin Region and the most appropriate locations for intensification.
Eastern River Basin Management Plan 2009- 2015 and associated Programme of Measures	Plan for the implementation of the EU Water Framework Directive.
Greater Dublin Strategic Drainage Study 2005	Identifies the policies, strategies and projects for the development of a sustainable drainage system for the Greater Dublin Region.
Water Supply Project Dublin Region	Study determining a new major water source to meet projected demand in the long term.
Catchment wide Flood Risk Assessments	Requirement of the EU Floods Directive.

Relationship of the 'Draft Greystones-Delgany and Kilcoole LAP 2013-2019' with key Local policies and statutory instruments

Local policies and statutory instruments	
Wicklow County Development Plan 2010- 2016	Strategy for the proper planning and sustainable development of County Wicklow up to 2016.
Wicklow County Council Development Contribution Scheme, 2008	Capital contribution scheme for development undertaken in County Wicklow, prepared in accordance with Section 48 of the Planning and Development Act 2000 (as amended).
Outlook 2002-2012 Wicklow County	Strategic Plan for social, economic and

Development Board Strategic Plan	cultural development of County Wicklow up to 2012.
Wicklow County Waste Management Plan 2006-2011	A strategy for the recovery, recycling and disposal of waste arising in County Wicklow. The Plan promotes a hierarchy of preferential modes of waste management such as, prevention, minimisation, reuse and recycling, disposal with energy recovery and disposal of residual waste
Wicklow County Water Services Investment Programme 2010-2012	Programme of investment on water services infrastructure in County Wicklow.
County Wicklow Outdoor Recreation Strategy 2009-2013	Strategy for the development and management of outdoor recreation in County Wicklow.
County Wicklow Biodiversity Action Plan 2010-2016	A strategy for increasing our understanding and appreciation of biodiversity in the county along with measures for enhancing the protection of biodiversity.
County Wicklow Heritage Plan 2009-2014	Objective for the conservation of natural, built and cultural heritage in County Wicklow and to increase awareness and enjoyment of it among all in Wicklow
The Murrough Coastal Protection Study (WCC/RPS, 2007)	A coastal protection study for the Murrough area. The study includes predictions on the level of coastal erosion in the area and set out mitigation proposals.