

LAOIS AND OFFALY COUNTY COUNCILS

SEA Environmental Report Portarlinton Joint Local Area Plan 2018-2024

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Minogue and Associates
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Annex B: Plans, Policies and Programmes

1.0 Introduction

Laois County Council has prepared a Joint Local Area Plan (LAP) for Portarlinton for the period 2018 -2024. The proposed Local Area Plan will effectively replace the existing local authority plan for the town, namely the Portarlinton Joint Local Area Plan 2012-2018 as adopted by Laois and Offaly County Council respectively in October 2012. The LAP must be consistent with the objectives, Core Strategy and Settlement Strategy of the Laois County Development Plan 2017-2023 (CDP) and the Offaly County Development Plan 2014-2020 and any subsequent reviews or variations. The Settlement Hierarchy of the Core Strategy from both development plans recognise Portarlinton as a “*Key Service Town*”.

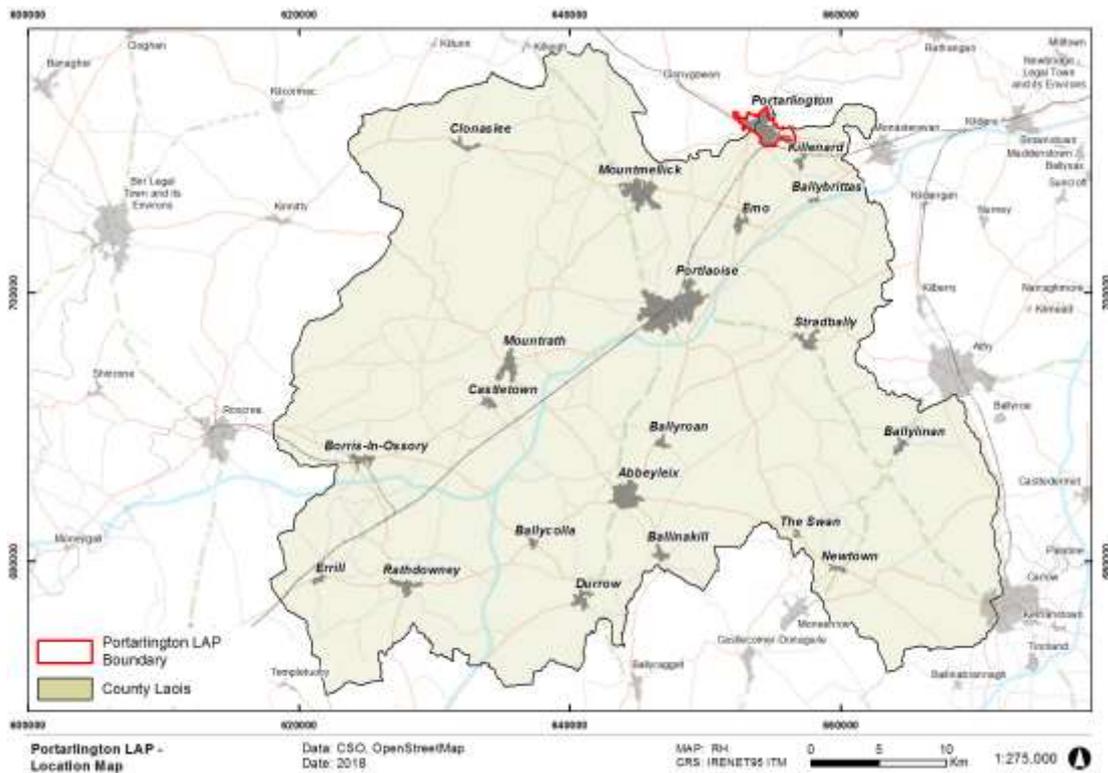
This is the Environmental Report for the Strategic Environmental Assessment (SEA) of the Draft LAP. The purpose of SEA is to formally and systematically evaluate the likely significant effects of implementing a plan or programme, in this instance the Portarlinton LAP. The report identifies the significant environmental effects of the plan on the environment and where significant effects are identified, recommends appropriate mitigation measures to avoid or reduce such effects. SEA is an iterative process and has informed and influenced the preparation of the LAP, particularly through avoiding areas of greatest environmental sensitivity.

This Environmental Report for the Draft LAP, forms part of the SEA process, documents the SEA process and is the key consultation document in the SEA process and facilitates interested parties to comment on the environmental issues associated with the plan. This Environmental Report has been prepared under the Planning and Development (Strategic Environmental Assessment) Regulations 2004 (S.I 436 of 2004).

1.2 Scale, nature and location of development

Figure 1 below shows the outline of the Portarlinton LAP within the wider context of Laois and Offaly Counties

Figure 1 Location of Portarlinton Town within Counties Laois and Offaly



1.3 SEA Environmental Report

Regulations contained in Schedule 2B of Statutory Instrument (S.I.) 436 of 2004(as amended) details the information to be contained in an Environmental Report. The following Table 1lists the information required and details where this information is contained in this Environmental Report.

Table 1 Information required to be contained in an Environmental Report.

Schedule 2B of Statutory Instrument 436 of 2004	Addressed in this SEA ER
(a) an outline of the contents and main objectives of the plan and relationship with other relevant plans	Chapter One Introduction and Chapter Two Methodology outlines contents and main objectives; Chapter Three details the relationship with other relevant plans
(b) the relevant aspects of the current state of the environment and the likely evolution thereof without implementation of the plan	Chapter Four Baseline Environment provides this information
(c) the environmental characteristics of areas likely to be significantly affected	Chapter Four Baseline Environment provides this information
(d) any existing environmental problems which are relevant to the plan including, in particular, those relating to any areas of a particular environmental importance, such as areas	Chapter Four Baseline Environment provides this information

Schedule 2B of Statutory Instrument 436 of 2004 designated pursuant to the Birds Directive or Habitats Directive	Addressed in this SEA ER
(e) the environmental protection objectives, established at international, European Union or national level, which are relevant to the plan and the way those objectives and any environmental considerations have been taken into account during its preparation	Chapter Five: SEA Objectives provides this information
(f) the likely significant effects on the environment, including on issues such as biodiversity, population, human health, fauna, flora, soil, water, air, climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors	Chapter Seven, Significant Effects on the Environment provides this information
(g) the measures envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the plan	Chapter Eight, Mitigation Measures provides this information
(h) an outline of the reasons for selecting the alternatives dealt with, and a description of how the assessment was undertaken including any difficulties (such as technical deficiencies or lack of know-how) encountered in compiling the required information	Chapter Six, Alternatives Considered provides this information and difficulties encountered are listed at the end of Chapter Two, Baseline Environment.
(i) a description of the measures envisaged concerning monitoring of the significant environmental effects of implementation of the plan	Chapter Nine, Monitoring provides this information
(j) a non-technical summary of the information provided under the above headings	This is provided as a separate document to this Environmental Report but is also available

1.4 Report Preparation

The SEA Team worked with the LCC Planning team and other specialists. The following consultants prepared this SEA ER:

- Ruth Minogue MCIEEM, AILI, (BSocSc) Social Anthropology, University of Manchester 1996, MA (Econ) Environment and Development, University of Manchester 1998, Dip Field Ecology, University College Cork 2003, ongoing CPD including certificate in Health Impact Assessment (2012) and diploma in Planning and Environmental Law (2017);
- Pat Doherty MCIEEM, MSc in Applied Environmental Science (Ecology), University College Dublin, 2003; BSc (Honours) in Environmental Earth Science, University of Wales, Aberystwyth, 2000; ongoing CDP including Habitat Assessment (NVC) and flora and fauna identification through IEEM;

- Dr Ronan Hennessey, Ph.D Earth & Ocean Sciences, NUI Galway, Higher Diploma in applied Remote Sensing and GIS, NUI Maynooth, B.Sc Earth Sciences, NUI Galway.
- Michael Cregan, Diploma in Landscape Architecture (Edinburgh University), B.Agr.Sc. (Forestry) (University College Dublin) and M.Agr.Sc (Urban Landscape Planning) (University College Dublin).

2.0 Methodology

2.1 Introduction

This chapter presents the SEA methodology in detail and outlines the steps required for SEA. The methodology used to carry out the SEA of the plan reflects the requirements of the SEA regulations and available guidance on undertaking SEA in Ireland, including:

- SEA Methodologies for Plans and Programmes in Ireland – Synthesis Report Environmental Protection Agency (EPA), 2003;
- 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, 2004;
- Planning and Development (Strategic Environmental Assessment) Regulations 2004 (SI 436 and SI 435 of 2004);
- Planning and Development (Strategic Environmental Assessment) Regulations 2011 (S.I. No. 201 of 2011);
- Planning and Development (Environmental Assessment of Certain Plans and Programmes) (S.I No 200 of 2011);
- SEA Process Checklist Consultation Draft 2008, EPA 2008;
- Circular Letter PSSP 6/2011 Further Transposition of EU Directive 2001/42/EC on Strategic Environmental Assessment;
- Guidance on integrating climate change and biodiversity into Strategic Environmental Assessment European Union 2013;
- SEA Resource Manual for Local and Regional Authorities, Draft Version, 2013;
- Integrating Climate Change into Strategic Environmental Assessment in Ireland – A Guidance Note, EPA, 2015 and
- Developing and assessing alternatives in Strategic Environmental Assessment, (EPA, 2015).

2.2 Stages in the SEA Process

The steps involved in SEA are as follows:

- Screening (determining whether or not SEA is required).
- Scoping (determining the range of environmental issues to be covered by the SEA).
- The preparation of an Environmental Report (**current stage**)
- The carrying out of consultations.
- The integration of environmental considerations into the Plan or Programme.
- The publication of information on the decision (SEA Statement).

2.2.1 Screening

The SEA Regulations state that SEA is mandatory for certain plans while screening for SEA is required for other plans that fall below the specified thresholds. SEA is mandatory for Local Area Plans where the population or target population exceeds 5,000 persons. As this is the case for the Portarlington LAP area, the LAP progressed to the next stage of SEA – Scoping. An overview of this is provided below.

2.2.2 Scoping

The purpose of the SEA Scoping report is to identify the scope of the SEA and ensure that relevant data and environmental topics are included in the SEA. The Scoping report was issued to the statutory environmental authorities consultees on January 2018 for a four week period.

The table below summarises the main issues raised by consultees and the SEA response to same. Please note that pre-draft consultation was also undertaken by LCC and the list of issues identified through this process also informed the scope of the SEA.

Table 2 Scoping Submissions received.

Consultee	Key Issue Raised	SEA Response
David Galvin, Scientific Officer, SEA Section Office of Evidence and Assessment. Environmental Protection Agency, Regional Inspectorate, Inniscarra, County Cork		
	Plan Area Boundary Map There is merit in including a map showing the extent of the Plan area, particularly in the context of assessing and identifying relevant environmental sensitivities to be considered in the SEA.	Agreed, see Figure 1
	Key Environmental Resources We welcome in Section 3 Key Environmental Resources, that the EPA's Ireland's Environment 2016-an Assessment (EPA 2016), is a key environmental resource in informing the LAP process. The challenges and emerging issues described within this report should be integrated as appropriate in the Plan.	Noted
	Water Framework Directive The Plan should include a commitment to integrate the relevant recommendations of the Draft National River Basin Management Plan for Ireland 2018-2021 (DHPLG) and associated Programme of Measures which will be adopted during lifetime of the Plan. The Plan should also provide for the protection of high and good quality surface waters and groundwater resources and also protect relevant areas listed on the WFD Register of Protected Areas.	Noted, reference made in policies to same. Noted, this is provided in the LAP
	Designated Sites Among the conservation areas included in / within 15km of the Plan area are the River Barrow and River Nore (SAC) and the Slieve Bloom Mountains (SPA). The SEA should consider the potential effects occurring for all designated sites and protected species within and adjacent to the Plan area and associated ecological corridors. In particular consideration should be given to the potential for cumulative effects associated with existing, and proposed, development associated	Noted, these sites are described in Chapter 4 and potential cumulative effects are discussed in Chapter 7 of this SEA ER.

Consultee	Key Issue Raised	SEA Response
	<p>with the Plan implementation. The SEA should consider the potential effects occurring for all designated sites and protected species within and adjacent to the Plan area and associated ecological corridors. In particular consideration should be given to the potential for cumulative effects associated with existing, and proposed, development associated with the Plan implementation.</p>	
	<p>The protection of and possible enhancement of Undesignated Biodiversity</p> <p>Wider consideration of biodiversity outside of designated areas, such as ecological corridors/linkages, hedgerows and wetlands should be identified and measures put in place to ensure protection/replacement where appropriate.</p> <p>It may also be useful to consider reviewing and updating, as appropriate, existing habitat mapping to inform the development of the Plan area over the lifetime of the Plan. Where wetland sites are involved, consideration should be given to assessing the potential impact on water quality and the hydrological/ hydrogeological regime which maintains these sites.</p>	<p>Noted- consideration of these within the plan area are described in Chapter 4.</p> <p>Noted.</p>
	<p>Flood Risk Assessment and Management</p> <p>We note that the Plan area has a history of flood events. The Plan should reflect the need for flood risk to be taken into consideration for both existing and proposed new zoning, and associated development, within the Plan area. UoM14 CFRAMS should help inform appropriate zoning/re-zoning considerations within the Plan area. The Planning System and Flood Risk Management Guidelines for Planning Authorities (DAHLG 2009), should also be integrated, as appropriate.</p>	<p>Noted, described in Chapter 4 and specific policies/objectives in Ch 7, and annex A, as well as landuse zoning considerations.</p>
	<p>Groundwater Vulnerability</p> <p>We note that Section 3 Material Assets identifies that the public water supply for Portarlinton is supplied by groundwater aquifers and that there are no aquifer protection zones within the LAP boundary. In this context, the Plan should include a commitment to the protection of groundwater resources and associated habitats and species.</p>	<p>Noted, included in LAP</p>
	<p>Provision of Adequate and Appropriate Critical</p>	<p>Noted, Ch 4 and 7 of this SEA ER amends</p>

Consultee	Key Issue Raised	SEA Response
	<p>Infrastructure</p> <p>We note the recognition in section 3.6 Material Assets in the Scoping Report that ‘high quality water supply and wastewater infrastructure is fundamental to ensuring the long-term physical, environmental, social and economic development of Portarlington’. At the same time, the various drinking water upgrades proposed in the joint Portlaoise and Portarlington Water Supply Scheme and outlined in the Scoping Report for the Portlaoise LAP 2018-2024, are not referenced in this Scoping Report. The Plan should clarify this and include a commitment to ensuring the provision of adequate and appropriate critical water infrastructure to cater for future sustainable development in the Plan area and to collaborate with Irish Water in seeking to resolve any critical water infrastructure issues which may arise</p>	<p>this.</p>
	<p>Climate Change Adaptation The Plan should promote commitments for the development and promotion of appropriate climate change adaptation and mitigation measures that can be implemented through relevant land use plans and/or specific plans e.g. Flood Risk Management Plans etc. Climate change adaptation and mitigation measures should be included in the Plan as appropriate and the Plan should be consistent with the National Policy Position on Climate Action and Low Carbon Development the National Mitigation Plan and the National Adaptation Framework (when available), as well as relevant sectoral, regional and local adaption plans. The Agency has published SEA guidance on ‘Integrating Climate Change into SEA’ which may be useful in this regard. This guidance (and other SEA related guidance) is available at: http://www.epa.ie/pubs/advice/ea.</p>	<p>Noted, a specific policy addresses this in the LAP.</p>
	<p>Core Strategy</p> <p>We note Table 3 Core Strategy in the Scoping Report. The Plan should ensure that it remains consistent with the National Planning Framework, when adopted, and promote the need for sustainable development. A commitment should also be made to remain consistent with the relevant Regional Spatial and Economic Strategy (RSES) upon adoption.</p>	<p>Noted. The Ethos of the NPF has informed the plan preparation. The LAP complies with the National Spatial Strategy and Regional Planning Guidelines currently in place. Policies relating to</p>

Consultee	Key Issue Raised	SEA Response
		Town Centre consolidation have been integrated to the LAP.
	<p>Brownfield Lands Where any brownfield lands are proposed for reuse / regeneration in the context of Plan development, these should be appropriately remediated to avoid or minimise any potential significant environmental impacts or human health impacts that may arise. A commitment should be given that any assessment of these sites should consider and provide information on aspects such as contaminated soil removal / remediation, noise and air quality, waste management, possible service infrastructure provision issues, possible presence of invasive species and ensuring appropriate management / control, implications for biodiversity etc.</p>	Noted, included as appropriate
	<p>Development arising from the Plan The Plan should include a specific commitment that any proposed residential, industrial, infrastructural or tourism related development arising from the Plan will take into account any other associated plans/programmes/strategies and the requirements of the SEA, Habitats, WFD and Floods Directives, as relevant and appropriate.</p>	Noted, this is included in the Key Plan objectives
	<p>Potential for Cumulative Effects In preparing the SEA, you should consider assessing the potential for cumulative effects on the environment as a result of implementing the Plan. A review of relevant adjacent Local Area Plans and relevant Plans/ Programmes and significant projects should also be undertaken and the potential for cumulative environmental effects considered.</p>	Noted, see Chapter 7 for assessment of cumulative effects.
	<p>Alternatives In considering and assessing alternatives, the alternatives proposed should be reasonable and realistic and should be set at the appropriate strategic level at which the Plan will be implemented operating within the national planning hierarchy. They should be assessed against the relevant environmental objectives established for the key environmental aspects of the environment likely to be significantly affected. Clear justification should be provided for the selection of the preferred alternative/ combination of alternatives.</p>	Noted, and agreed. Chapter 6 Consideration of Alternatives addresses these comments.

Consultee	Key Issue Raised	SEA Response
	Where relevant, the development of alternatives should be clearly described. In addition, the methodology applied in the assessment of alternatives along with any assumptions made should be described. The Agency has published an EPA Guidance document Developing and Assessing Alternatives in Strategic Environmental Assessment - Good Practice Guidance (EPA, 2015), which should be considered.	
	SEA Mitigation Measures The Plan should include appropriate mitigation measures to address the potential for significant negative environmental effects, where these have been identified.	Noted, see Chapter 8 for mitigation measures
	SEA Related Monitoring In relation to monitoring related aspects required under the SEA Directive, the SEA should include information on the nature and frequency of monitoring to be carried out and organisations responsible for carrying out the monitoring. Linking SEA and Plan related monitoring will ensure that any unforeseen negative effects are identified early and appropriate mitigation measures provided.	Noted, please see Chapter 9 of this SEA ER.

2.3 Baseline Data

The baseline data assists in describing the current state of the environment, facilitating the identification, evaluation and subsequent monitoring of the effects of the plan. It helps identify existing environmental problems in and around the plan area and in turn these can be quantified (for certain environmental parameters) or qualified. This highlights the environmental issues relevant to each SEA parameter and ensures that the plan implementation does not exacerbate such problems. Conversely this information can also be used to promote good environmental practices and opportunities for environmental enhancement, thereby improving environmental quality where possible.

Baseline data was gathered for all parameters. Site visits were undertaken by the forward planners and SEA consultant in January 2018. Other data was gathered from the SEA ER of the Laois County Development Plan 2017-2023, Offaly County Development Plan 2014-2020, Irish Water, the EPA, Met Eireann and other sources as appropriate. Footnotes throughout the document, particularly in Chapter Four present the reference and source.

The SEA has also used a Geographical Information System (GIS) in the following ways:

- To provide baseline information on a range of environmental parameters;
- To assist in assessment of alternatives;
- To help assess in-combination or cumulative impacts, and
- To provide maps to illustrate environmental parameters in the SEA Environmental Report.

The SEA Directive requires that information be focused upon **relevant aspects** of the environmental characteristics of the area likely to be **significantly affected** by the plan and the likely change, both positive and negative, where applicable.

2.4 Consideration of alternatives

The SEA assessed a number of alternative development scenarios during the plan preparation process. The three emerging scenarios were subject to a workshop that assessed each of the scenarios through posing key questions in relation to potential environmental effects associated with same. Further information is provided in Chapter Six, Consideration of Alternatives.

2.5 Approach to assessment of significant environmental impacts

The assessment described within this Environmental Report aims to highlight the potential conflicts, if they are present, between the aims and proposals contained in this draft LAP with the Strategic Environmental Objectives. Furthermore the assessment examines the potential impact arising from the plan's implementation on sensitive environmental receptors.

Key to assessing the above is setting a specific set of environmental objectives for each of the environmental topics. The objectives are provided in Chapter Five and include all aspects of the environment such as Cultural heritage, Population and Human health, and Biodiversity, Flora and Fauna.

The SEA, Habitats Directive Assessment process and LAP formulation is an iterative process and environmental considerations have informed all stages of the preparation of the plan, in order to avoid or minimise significant adverse environmental impacts. However, where the environmental assessment identifies significant adverse effects, consideration is given in the first instance to preventing such impacts; where this is not possible for stated reasons, to lessening or offsetting those effects.

In accordance with SEA guidelines the assessment identifies 'impact' under three headings.

- Quality of Impact
- Significance of Impact
- Duration of Impact.

This initial stage aims to ascertain the quality, if any, of the potential impact. Each of the Plan's objectives, policies and zonings have been assessed for their impact and where a neutral impact is noted no further discussion is provided within this report. In this manner, the ER focuses on the negative and positive impacts and proceeds to a commentary on their significance and duration. Thus it is a more robust, more focused approach to understanding the potential impacts associated with the Portarlington LAP.

Secondly, where a potential impact is noted, either positive or negative, the significance of impact is addressed. Significance is assessed in terms of the type/scale of development envisaged by the plan and the sensitivity/importance of the receiving environment. Finally where it has been determined that elements of the LAP may potentially result in a negative impact on an environmental receptor appropriate level mitigation measures are proposed.

2.6 Mitigation

Section (g) of Schedule 2B of the SEA Regulations requires information on the mitigation measures that will be put in place to minimise/eliminate any significant adverse impacts due to the implementation of the LAP. Chapter Eight of this SEA ER highlights the mitigation measures that will be put in place to counter identified significant adverse impacts due to the LAP's implementation.

The LAP has been prepared having regard to the environmental protection objectives contained within the Laois County Development Plan 2017-2023 and the Offaly County Development Plan 2014-2020 as appropriate. However, some unavoidable residual issues may remain and therefore mitigation measures are required. Chapter Eight details the mitigation measures necessary to prevent, reduce and, as fully as possible, offset any significant adverse impacts on the environment of implementing the LAP.

2.7 Monitoring

Article 10 of the SEA Directive sets out the requirement that monitoring is to be carried out of the significant environmental effects of the implementation of the LAP in order to identify at an early stage any unforeseen adverse effects and to be able to undertake appropriate remedial action. Chapter Nine presents the monitoring requirements for the plan, aligned where possible with those of the SEA of the Laois CDP 2017-2023.

2.8 Strategic Flood Risk Assessment

The Planning System and Flood Risk Management Guidelines (DoEHLG 2009) provide a methodology to incorporate flood risk identification and management into land use strategies. It also requires the alignment and integration of flood risk into the SEA process. The core objectives of the Guidelines are to:

- Avoid inappropriate development in areas at risk of flooding;
- Avoid new developments increasing flood risk elsewhere, including that which may arise from surface water run-off;
- Ensure effective management of residual risks for development permitted in floodplains;
- Avoid unnecessary restriction of national, regional or local economic and social growth;
- Improve the understanding of flood risk among relevant stakeholders; and
- Ensure that the requirements of EU and national law in relation to the natural environment and nature conservation are complied with at all stages of flood risk management.

Potential flood issues in the plan area are an important consideration in the preparation of the LAP. Therefore the plan has been guided by the information on flood risk currently available and has been informed by the currently up to date flood risk information for Portarlinton including Catchment Flood Risk Assessment and Management (CFRAM) studies. These findings have been integrated into the LAP and this SEA ER (See Chapters Four and Seven in particular).

2.9 Data Gaps

Data gaps are present in terms of human health and population; however the Census 2016 Small Area Population statistics will address some of these data gaps.

3.0 Relationships to Plans, Policies and Programmes.

3.1 Introduction

Under the SEA Directive, the relationship between the LAP and other relevant plans and programmes must be taken into account. A review of the relevant plans and programmes can be found in Appendix A.

The LAP must be considered within the context of a hierarchy of policies, plans and strategies which include international, national, regional and local level policy documents. These documents set the policy framework within which the plan will operate. The Laois County Development Plan 2017-2023 (LCDP 2017-2023) operates as the primary land use framework for the County and Offaly CDP 2014-2020 for the relevant part of the plan area. The LAP has been prepared having regard to the policies and objectives outlined within the above LCDP 2017-2023 and the Offaly CDP 2014-2020.

The key environmental protective objectives and policies of the LAP are consistent with both these County Development Plans.

A list of the key relevant international, national, regional and county policies included in the review are provided below in Section 3.2; Section 3.3 identifies key principles that have informed the SEA process arising from this review.

3.2 Relevant Plans, Policies and Programmes

3.2.1 International

- UN Convention of Biological Diversity, 1992
- The Convention on Wetlands of International Importance (The Ramsar Convention) 1971 and subsequent amendments
- EU Environmental Action Programme to 2020
- EU Biodiversity Strategy to 2020
- EU Directive on the Conservation of Wild Birds, (2009/147/EC) 1979. Known as the Birds Directive
- EU Directive on the Conservation of Natural Habitats and of Wild Flora and Fauna, (92/43/EEC), 1992 known as the Habitats Directive
- European Communities (Birds and Natural Habitats) Regulations 2011
- EU Green Infrastructure Strategy 2013
- The Stockholm Convention 2001
- EU Soil Thematic Strategy
- Water Framework Directive (2000/60/EC) as amended
- Floods Directive (2007/60/EC)
- The Drinking Water Directive (DWD), (98/83/EC) 1998
- Groundwater Directive, (2006/118/EC) 2006
- EC Bathing Water Quality Directive, (2006/7/EC) 2006
- Paris (Climate Change) Agreement
- Kyoto Protocol
- The Ambient Air Quality and Cleaner Air for Europe (CAFE) Directive
- EU Directive on Waste, (2006/12/EC), 2006
- EU Directive on Waste (2008/98/EC), 2008

- EU Urban Waste Water Treatment Directive (91/271/EEC), 1991
- Directive 2009/28/EC on the promotion of the use of energy from renewable sources
- European Convention on the Protection of the Archaeological Heritage, 1992 (The Valletta Convention)
- Convention for the Protection of the Architectural Heritage of Europe, 1985 (Granada Convention)
- The European Landscape Convention 2000
- The Aarhus Convention
- Environmental Liability Directive 2004/35/EC
- SEA Directive - Assessment of the effects of certain plans and programmes on the Environment, (2001/42/EC) 2001
- Environmental Impact Assessment Directive (85/337/EEC) (97/11/EC), 1985 and Environmental Impact Assessment Directive (2014/52/EC)

3.2.2 National

- National Planning Framework (2018)
- The National Spatial Strategy 2002 -2020
- 3rd National Biodiversity Action Plan, 2017-2021
- The Wildlife Acts 1976 to 2012 National Mitigation Plan (in preparation)
- Sectoral Climate Adaptation Plans (in preparation)
- Local Authority Adaptation Strategy Development Guidelines, EPA 2016
- Sectoral Climate Adaptation Plans (in preparation)
- Our Sustainable Future A framework for sustainable development in Ireland (2012)
- National Landscape Strategy (2015-2025)
- National Heritage Plan (2002)
- Water Framework Directive River Basin Management Plans (2nd cycle in preparation)
- Irish Water's Capital Investment Programme
- Water Services Act (2007)
- Water Services (Amendment) Act (2012)
- Irish Water Services Strategic Plan SEA and AA (2015)
- Irish Water Capital Investment Programme (2017-2021)
- Guidelines for Planning Authorities on Sustainable Residential Development in Urban Areas (Cities, Towns & Villages) (2009)
- Geological Heritage Sites Designation (under the Wildlife Amendment Act 2000)
- Waterways Ireland Heritage Plan 2014-2020
- The Planning System and Flood Risk Management Guidelines (and Technical Appendices) for Planning Authorities (DoEHLG, OPW), 2009
- National Climate Change Strategy (2007-2012)
- Review of Ireland's climate change policy and Climate Action and Low Carbon Bill 2013
- Smarter Travel, A Sustainable Transport Future, A New Transport Policy for Ireland 2009-2020
- National Monuments Act 1930 with subsequent amendments
- Architectural Heritage Protection - Guidelines for Planning Authorities (2011)
- National Inventory of Architectural Heritage (NIAH)

- Draft Landscape and Landscape Assessment Guidelines, (2000)
- Planning and Development Act 2000 (as amended).
- Planning Policy Statement, 2015

3.2.3 Regional and County

- Regional Planning Guidelines 2010-2020- to be replaced by Regional Spatial and Economic Strategies
- Eastern Catchment and Flood Risk Assessment and Management Plan (draft)
- Eastern River Basin District Management Plan (second cycle in preparation)
- Eastern-Midlands Regional Waste Management Plan 2015
- Laois County Development Plan 2017-2023
- Laois Local Economic and Community Plan 2016
- Laois County Heritage Plan 2014-2019
- Offaly County Development Plan 2014-2020
- Offaly Local Economic and Community Plan 2016
- Offaly County Heritage Plan 2017-2021

3.3 Key principles identified from review.

Following the review of the relationship between the above plans, policies and programmes (see also Appendix B), the following key principles have been identified and this have been considered through the SEA and helped to inform the LAP development.

Table 3 Key Principles from review

SEA Topic	Principles/Implications for the LAP and SEA	EPA State of Irelands Environment 2016 Key Issues
Biodiversity, Flora and Fauna	<ul style="list-style-type: none"> • Conserve and enhance biodiversity at all levels • Avoid and minimise effects on nationally and internationally rare and threatened species and habitats through sensitive design and consultation, recognising ecological connectivity where possible • Facilitate species and habitat adaption to climate change • Avoid and minimise habitat fragmentation and seek opportunities to improve habitat connectivity • Ensure careful consideration of non-native invasive and alien species issues 	<ul style="list-style-type: none"> Implementation of legislation Climate change Environment and health and well being Nature and wild places
Population and Human Health	<ul style="list-style-type: none"> • Provide for sustainable communities with key services • A high quality environment to live, work and play in • Avoid pollution and environmental health impacts (noise and air quality) through mitigation and design 	<ul style="list-style-type: none"> Environment and health and well being Implementation of legislation Climate change Community engagement Sustainable economic activities

SEA Topic	Principles/Implications for the LAP and SEA	EPA State of Irelands Environment 2016 Key Issues
Water	<ul style="list-style-type: none"> • Maintain and improve water quality • Avoid and minimise effects on natural processes, particularly natural flood management and catchment processes through sensitive design and consultation • Adapt and improve resilience to the effects of climate change, particularly flood risks associated with extreme weather • Minimise water consumption/ abstractions • Design SUDS to facilitate ecological improvement/ enhancement where possible 	<p>Restore and protect water quality Implementation of legislation Climate change Environment and health and well being</p>
Soil and Geology	<ul style="list-style-type: none"> • Conserve soil resources where possible and avoid waste of soil resources • Maintain productive capacity and prevent erosion of soils • Ensure careful consideration of non-native invasive and alien species issues 	<p>Climate change Environment and health and well being Sustainable economic activities</p>
Material Assets	<ul style="list-style-type: none"> • Avoid and minimise waste generation • Maximise re-use of material resources and use of recycled materials • Minimise energy consumption and encourage use of renewable energy • Promote sustainable transport patterns and modes where possible. • Plan and provide for sustainable water management and wastewater treatment 	<p>Restore and protect water quality Implementation of legislation Climate change Environment and health and well being Sustainable economic activities</p>
Air Quality and Climate	<ul style="list-style-type: none"> • Adapt and improve resilience to the effects of climate change • Encourage reduction in greenhouse gases through transport, energy, built development. • Minimise adverse impacts associated with air and noise quality 	<p>Climate change Implementation of legislation Environment and health and well being</p>
Cultural Heritage	<ul style="list-style-type: none"> • Conserve, preserve and record architectural and archaeological heritage • Avoid and minimise effects on historic environment features through sensitive design and consultation 	<p>Environment and health and well being Sustainable economic activities</p>
Landscape	<ul style="list-style-type: none"> • Enhance the landscape character of the area through design • Integrate green infrastructure considerations • Improve landscape connectivity to 	<p>Environment and health and well being Nature and wild places</p>

SEA Topic	Principles/Implications for the LAP and SEA	EPA State of Irelands Environment 2016 Key Issues
Climate change and sustainability	surrounding area <ul style="list-style-type: none"> • Adapt and improve resilience to the effects of climate change • Promote local/ sustainable sourcing of materials • Promote sustainable design and innovation to reduce material consumption 	Environment and health and well being Sustainable economic activities Climate change Implementation of legislation
Inter-relationships	<ul style="list-style-type: none"> • Maintain and improve the health of people, ecosystems and natural processes • Minimise effects on landscape and historic environment features • Adapt and improve resilience to climate change and extreme weather events • Actively seek to integrate opportunities for environmental enhancement 	Environment and health and well being Sustainable economic activities Climate change Implementation of legislation Nature and wild places Restore and protect water quality Community engagement

4.0 Environmental Baseline

4.1 Introduction

Article 5 of the SEA Directive states that the environmental report shall include the information that may reasonably be required taking into account:

- Current knowledge and methods of assessment;
- The contents and level of detail in the plan or programme and its stage in the decision-making process; and
- The extent to which certain matters are more appropriately assessed at different levels in that process in order to avoid duplication of the assessment.

In addition, particular issues as they relate to the environment have been identified through the pre-draft submission process, as well as the responses to the SEA Scoping Report; these are summarised in the relevant section of this chapter.

The sphere of influence of the plan is variable, with potential water resources extending well beyond the plan area and potential interactions with the wider catchment, downstream of the plan area. For other parameters, the sphere of influence is more closely defined to a specific place, for example in relation to cultural heritage features.

Also of note, is that the Portarlington LAP is a joint plan, prepared with Offaly County Council and in this regard, the policies, objectives and zonings of the Offaly CDP 2014-2020 are considered within this SEA.

4.2 Population and Human health

This section provides information on the current population, demographic trends and changes in the LAP area adjacent DEDs between 2011 and 2016 Census. In addition, information is provided on economic and human health trends in the Counties. Impacts can arise on people's health and quality of life from a range of environmental factors, often through a combination of environmental impacts such as land use, water quality, air quality, noise and transport patterns.

Figure 2 below presents the LAP boundary and Census Data (2016) for Electoral Districts within the plan boundary. Figure 3 shows population density for the LAP.

Figure 2 Population (Census 2016)

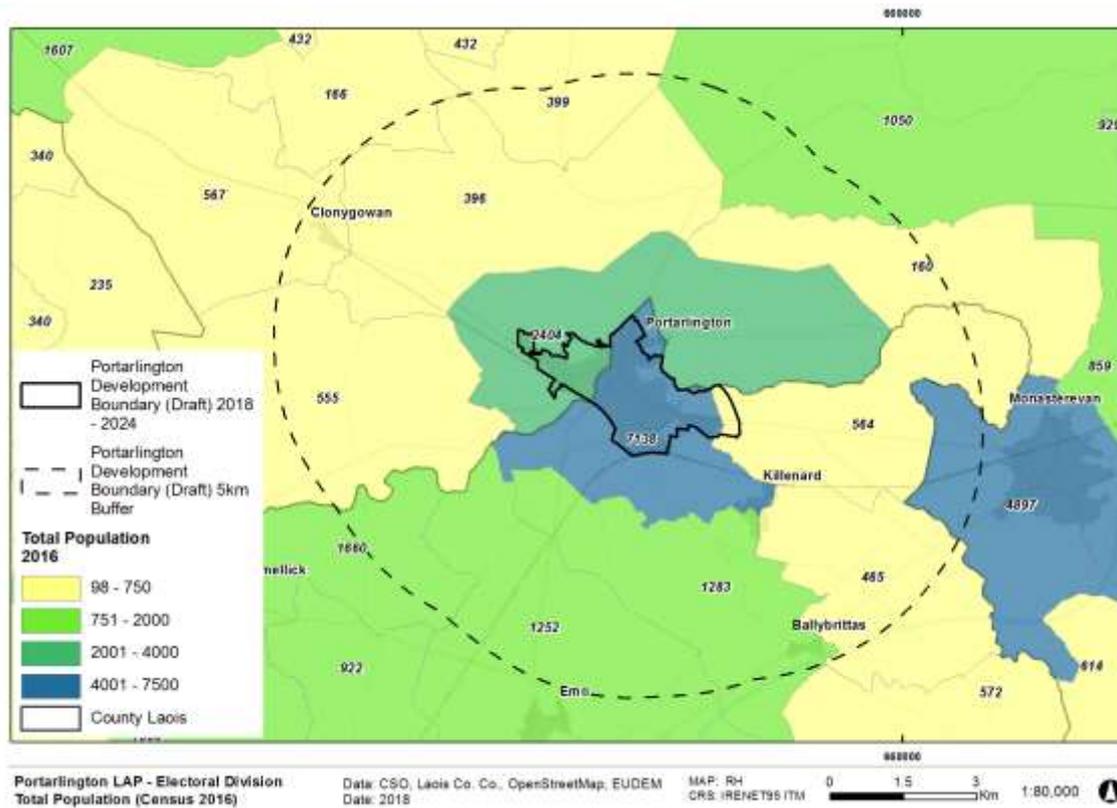
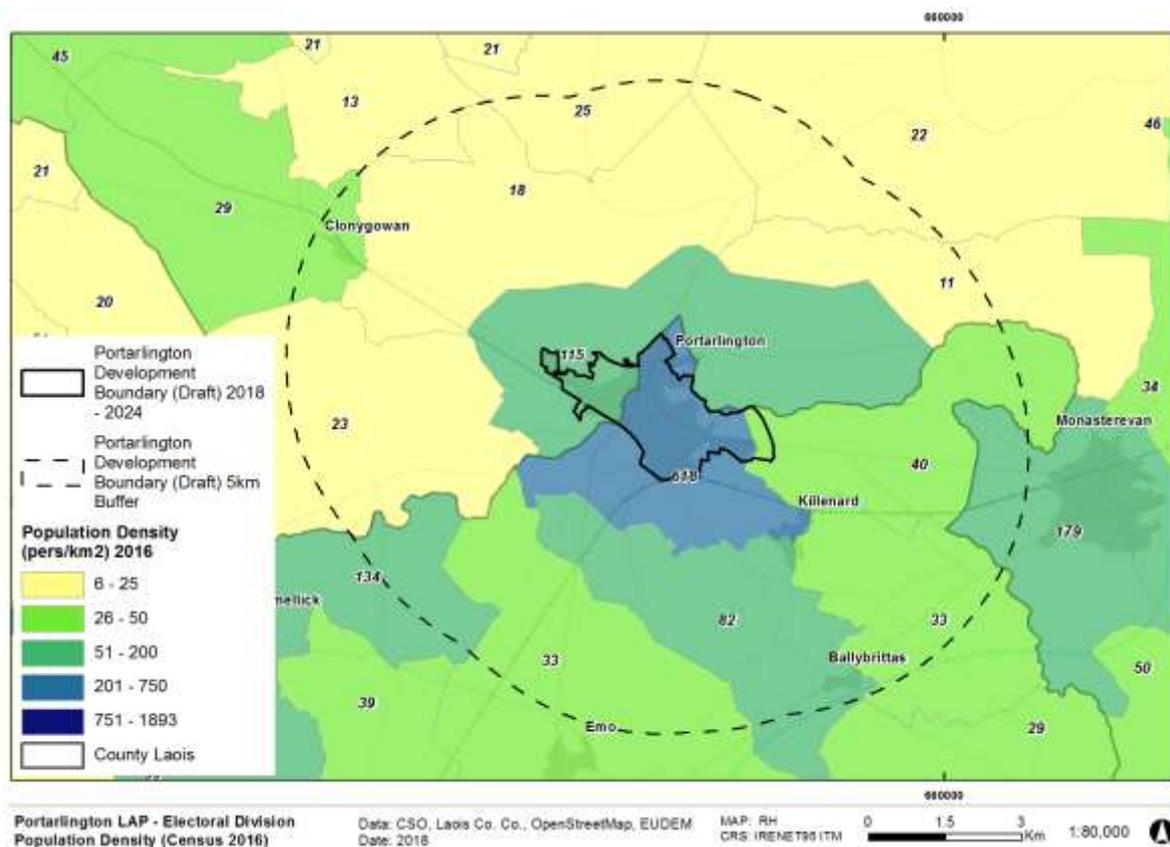


Figure 3 Population Density



4.2.1 Population

County Laois has experienced significant population growth in the past decade, growing by 26.3% over the ten year period between 2006 and 2016, while County Offaly experienced more modest population growth of 9.9%. In the same ten year period, Portarlington experienced a population growth rate of 39%.

Portarlington benefits from a young population, with 53% of the population below 35 years of age, compared to 47.1% elsewhere in the State. Portarlington has a lower proportion of middle-aged and older residents, with just 16% of the population aged 55 or older, compared to 24% elsewhere in the State. Portarlington also benefits from ethnic diversity with 14% of its population being non-Irish. Of particular note, is that almost 12% of the population is made up of EU nationals excluding the UK. A summary of key population, housing stock and HP Deprivation and employment data from this census for the relevant EDs is provided below in Table 4.

Table 4 Electoral Districts 2016 Census Data.

Portarlington (total)			
Total Population	8,368		
Portarlington North (OCC)	(2,404)		
Total housing stock (South)	2,954	Vacant	370
Total Housing stock (North)	1020	Vacant	158
HP Deprivation Index¹	Marginally below average		
Unemployment Male	16.13%%	Female	20.88%%

4.2.2 Human Health

Human health can be determined by social, environmental and economic factors, among others. Human health may be impacted upon in a variety of ways and by a number of environmental receptors such as water, biodiversity, climate, flooding, air and major accidents, etc. The exposure to contaminants or pollutants can have serious implications for human health. Potential impacts on population and human health include inadequate water and wastewater and waste infrastructure, contamination of soils, excessive noise, flooding and poor air quality in areas where there are large volumes of traffic.

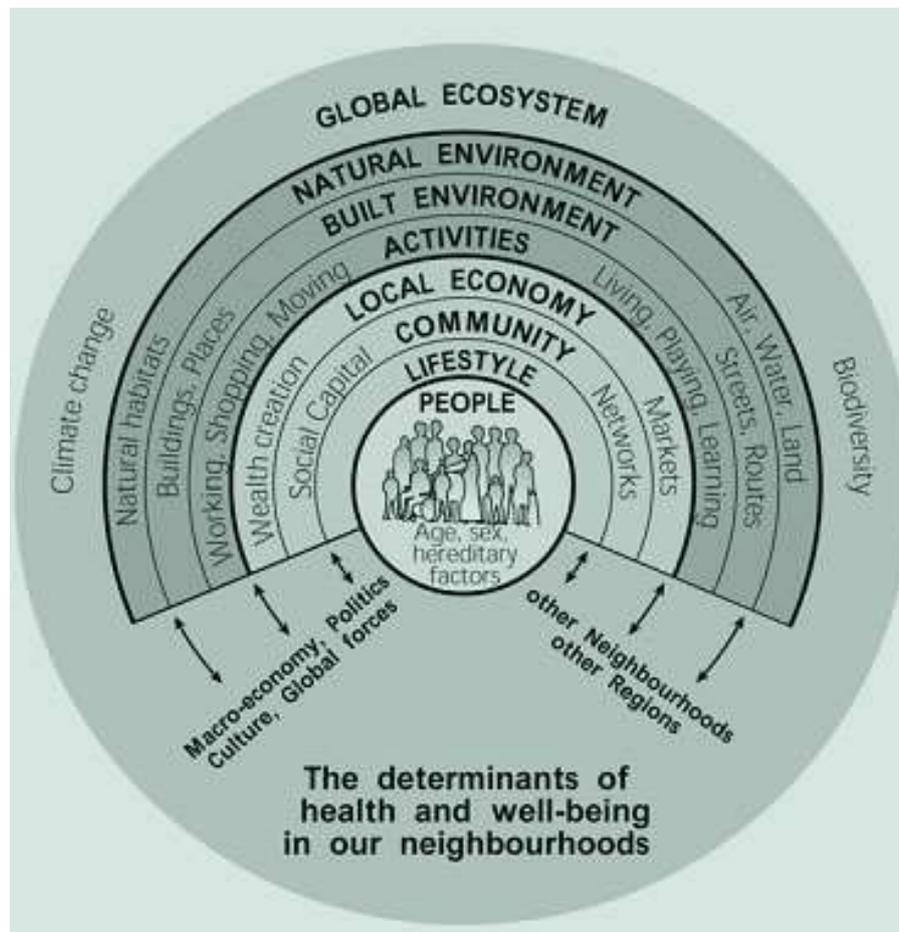
The Institute of Public Health states:

‘Where people live affects their health. There are a number of elements of the living environment that influence health including the built environment, travel choices and the communities in which people live. The design, maintenance and location of buildings influence health. Similarly, public spaces and transport networks can facilitate health by providing opportunities for physical activity, social interaction and access to social goods’.

¹<https://maps.pobal.ie/WebApps/DeprivationIndices/index.html>

Disadvantaged people are more likely to live in poor quality built environments and have limited access to transport and local amenities supporting healthy choices. Figure 4 below identifies key factors that contribute to human health. This is followed by a summary of the key environmental factors that can effect human health as identified through the SEA Scoping process.

Figure 4 the determinants of health and well being²



Human Health and Noise

Environmental noise is treated in a different way to noise nuisance. A nuisance noise is something that occurs from time to time and is not usually considered to be a feature of life in the local area. For example, a noisy dog or late night parties are short term occurrences. Even if they happen regularly, they are not caused by any long term activities and so they are thought of as nuisance noise. Environmental noise is from long term or permanent sources, like major transport routes and factories. Noise from these sources has a different effect on people and is managed in a different way. The Environmental Noise Directive was written into Irish law in 2006, through The Environmental Noise Regulations (Statutory Instrument No. 140 of 2006). This law relates to the assessment and management of environmental noise. They provide for a common approach intended to avoid, prevent or reduce the harmful effects, including annoyance, due to exposure to environmental noise.

² The determinants of health and well-being (Barton & Grant 2006)

These regulations do not apply to nuisance noise which can be dealt with under the Environmental Protection Agency Act.

Noise Action Plans are required under the Environmental Noise Directive (EU 2002/49/EC) transposed in to Irish law by SI 140 of 2006. Laois County Council prepared a Noise Action Plan for 2014-2018 and Offaly County Council prepared a plan for 2013-2018. Both plans establish the measures that the respective councils intend to take to manage environmental noise exposure. This Action Plan follows the practice set down in the EPA Guidance and accordingly, hospitals, schools and housing are designated as noise sensitive premises.

In the context of the LAP, existing roads operate as the greatest noise generators. Noise mapping was undertaken on roads that meet the criteria of more than 8,000 vehicles per day. For Portarlinton, the closest road to meet these criteria is the N80 (south of Portarlinton) M7 (south of plan area) and M6 (north of plan area). All these roads are some distance from the plan area. Therefore no noise mapping was required for Portarlinton under the Noise Action Plan.

The location of new residential properties mixed residential/commercial use buildings or noise sensitive premises such as schools or hospitals, adjacent to existing roads, railways, airports, industry or recreational activities can result in significant noise management issues. Noise sensitive locations such as those above have particular requirements for low level noise environments in order to be able to function effectively. A high standard of insulation can be applied to improve noise attenuation in these buildings but this measure is rendered relatively ineffective when windows are opened. It also does not protect the external environment around the noise sensitive location from community/environmental noise.

Human Health and Air Quality

The Air Framework Directive 96/62/EC (CEC, 1996) details how ambient air quality should be monitored assessed and managed. This Directive requires that member states divide their territory into zones for the assessment and management of air quality. Portarlinton is designated as a Small Town under the Air Quality Index for Health (EPA). The Air Quality Index of health³ is based on hourly monitoring data from sites around Ireland and is based on measurements of five air pollutants all of which can harm health. The five pollutants are:

- Ozone gas
- Nitrogen dioxide gas
- Sulphur dioxide gas
- PM2.5 particles and
- PM10 particle

Portarlinton achieved 'good' air quality under this index when checked on 15th March 2018.

The Air Pollution Regulations (2012) were signed into law by the Minister for Environment, Community and Local Government on 31st August 2012. One of the key elements of the

³<http://www.epa.ie/air/quality/>

regulations has been the designation of new towns as smokeless zones and the expansion of the ban areas in towns that were previously covered under the old regulations. The smoky coal ban will apply nationally from Autumn 2018.

The EPA State of the Environment Report (2016) has further highlighted the role of environmental quality and health and in turn has highlighted the adoption of the newer more stringent World Health Organization guideline values for air quality. The Clean Air Policy Package (EC 2014) involves a move to tackling air emissions at source with potentially tighter air quality standards from 2020 onwards⁴.

Radon

The greatest health risk from radiation in Ireland is caused by radon. It accounts for more than half of the total radiation dose received by the Irish population. As a known carcinogen, in the same category as tobacco smoke and asbestos it is a cause of lung cancer. Up to 250 cases of lung cancer in Ireland every year can be linked to radon. These lung cancer cases are principally associated with exposure to radon in the home, but exposure in the workplace is also a contributor. In the workplace, the employer must protect the health of workers from this identifiable risk.

Radon is only a problem if it is ignored and some simple, inexpensive and straightforward solutions are available to reduce excessive levels both in the workplace and in the home. The EPA Radon map shows that the LAP is situated within a 10km grid square in which less than one percent homes are estimated to be above the reference level for radon.

Derrycastle Lakes

Access to safe walking and cycling areas, as well as the opportunity to enjoy a calm, quiet environment are important contributors to physical activity and engagement with the natural landscape. The Derrycastle lakes are adjacent to Portarlinton and have been developed over the past number of years; recent works including footpaths have increased overall access and recreational use of this community resource.

4.2.3 Existing issues Population and human health.

- Provision of community facilities, public open space, housing and design;
- Transport Network and Public Transport;
- Environmental Health relating to air quality in particular.
- Addressing and increasing employment opportunities
- Town centre revitalisation and economic activity

4.3 Biodiversity, Flora and Fauna

Much of the LAP lands can be classified as Built Land and Artificial Surfaces. In turn, this makes the areas of open space and water courses potentially important as green corridors and stepping stones for biodiversity.

⁴ SEA ER of draft National Mitigation Plan , 2017.

4.3.1 Designated Nature Conservation Areas

The River Barrow, which forms part of the River Barrow and Nore Special Area of Conservation (SAC: Site Code: 002162).), runs west to east through the centre of the town. The site is very important for the presence of a number of E.U. Habitats Directive Annex II animal species including Freshwater Pearl Mussel (both *Margaritifera margaritifera* and *M. m. durrovensis*), White-clawed Crayfish, Salmon, Twaite Shad, three lamprey species – Sea Lamprey, Brook Lamprey and River Lamprey, the tiny whorl snail *Vertigo moulinsiana* and Otter. This is the only site in the world for the hard water form of the Freshwater Pearl Mussel, *M. m. durrovensis*, and one of only a handful of spawning grounds in the country for Twaite Shad. The freshwater stretches of the River Nore main channel is a designated salmonid river. The Barrow/Nore is mainly a grilse fishery though spring salmon fishing is good in the vicinity of Thomastown and Inistioge on the Nore. The upper stretches of the Barrow and Nore, particularly the Owenass River, are very important for spawning. The site supports many other important animal species. Those which are listed in the Irish Red Data Book include Daubenton's Bat, Badger, Irish Hare and Common Frog. The rare Red Data Book fish species Smelt (*Osmerus eperlanus*) occurs in estuarine stretches of the site. In addition to the Freshwater Pearl Mussel, the site also supports two other freshwater mussel species, *Anodonta anatina* and *A. cygnea*.

In terms of habitats, the following Annex 1 and priority habitats are listed for this SAC:

- [1130] Estuaries [1140] Tidal Mudflats and Sandflats [1170] Reefs [1310] *Salicornia* Mud [1330] Atlantic Salt Meadows [1410] Mediterranean Salt Meadows [3260] Floating River Vegetation [4030] Dry Heath [6430] Hydrophilous Tall Herb Communities [7220] Petrifying Springs* [91A0] Old Oak Woodlands Version date: 9.2.2016 2 of 7 002162_Rev16.Docx [91E0] Alluvial Forests

In addition to the River Barrow and Nore SAC, other conservation areas within 15km of the LAP are:

- Mountmellick SAC (Site Code:002141) c 5.75km west;
- Slieve Bloom Mountains Special Protection Areas c.15km west
- Clonreher Bog Natural Heritage Area (site code: 002357), approximately 14km south of the town.

The following Figures show designated (and proposed) nature conservation areas occurring within a 15 km radius of the LAP. The Natura Impact Report that accompanies this LAP provides further information on the European Sites within this area.

Natural Heritage Areas and Proposed Natural heritage areas

A cluster of NHAs and pNHAs lie to the south of the plan area, the closest is Emo Court, approximately 7km south of Portarlinton..

Figure 5 Special Areas of Conservation and Special Protection Areas within 15km of Portarlington LAP

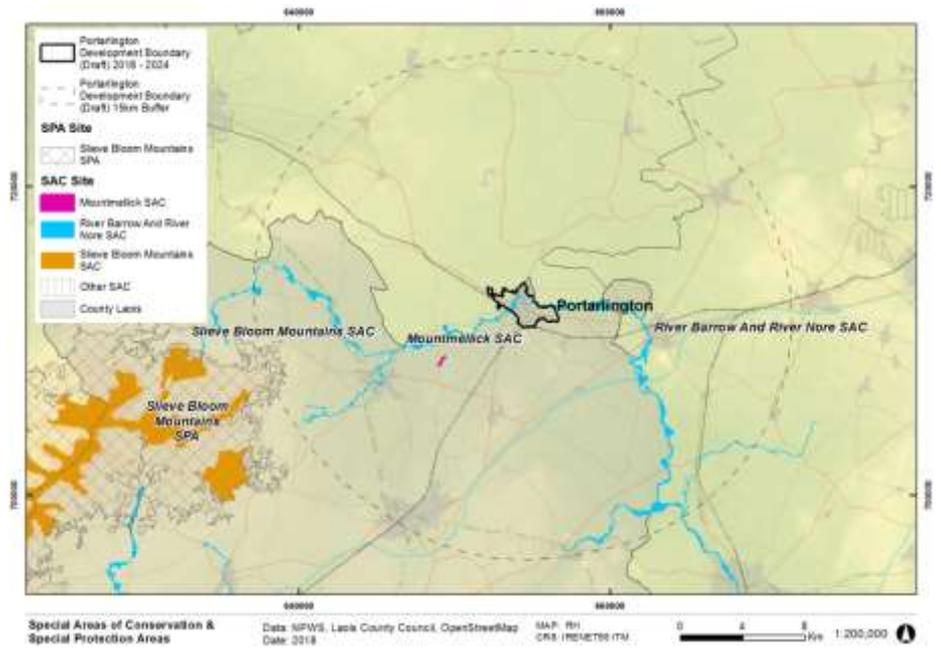
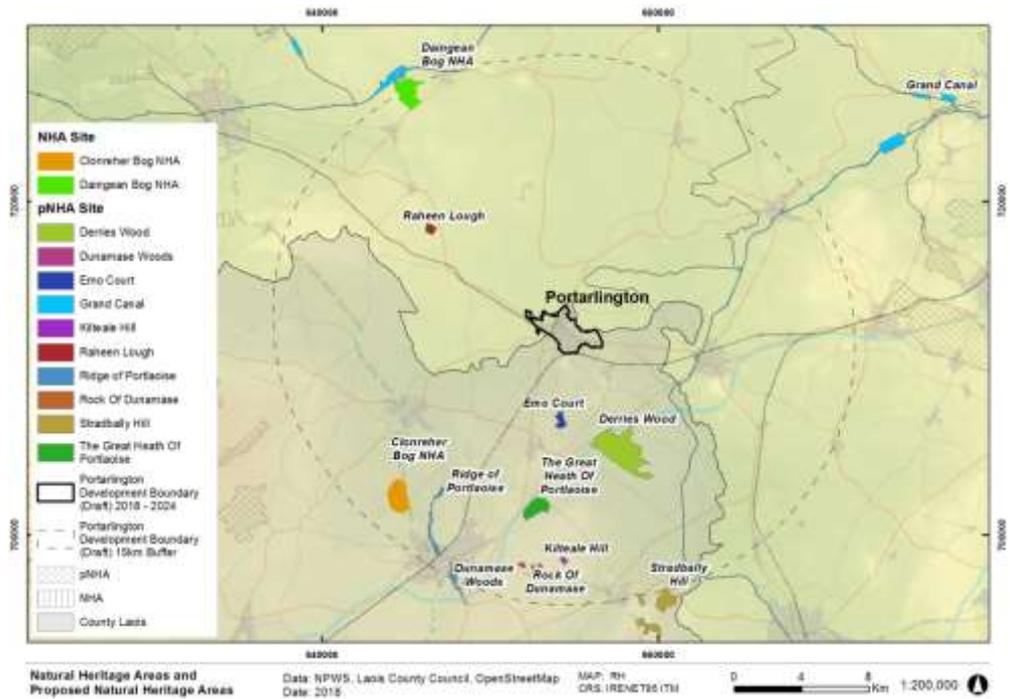


Figure 6 Natural Heritage Areas and proposed Natural Heritage Areas within 15km of Portarlington LAP



4.3.2 Ecological Corridors, Stepping Stones and Green Infrastructure.

As natural habitats become more fragmented as a result of human activity, habitat patches and corridors within a landscape mosaic become increasingly important for species to allow movement between populations, Figure 7 below presents an overview of the landscape mosaic with stepping stones and corridors.

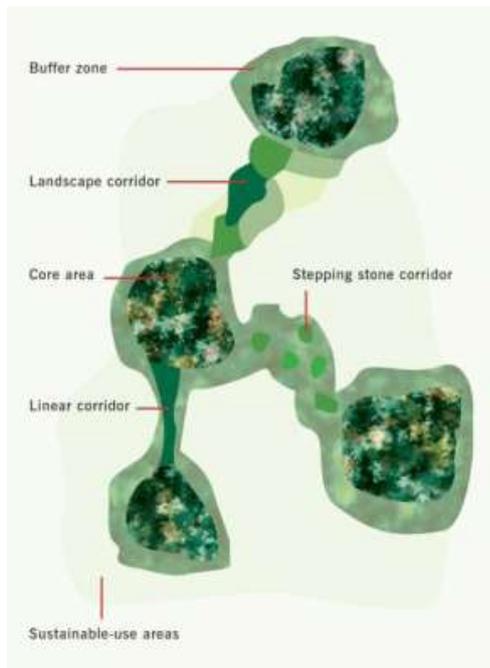


Figure 7 Landscape mosaic with stepping stones, corridors and core areas (source: <http://www.sicirec.org/definitions/corridors>)

The Portarlington Local Area Biodiversity Action Plan 2014-2019 provides a useful overview of biodiversity within the town:

Portarlington is a large town situated in north-east Co. Laois. The river Barrow runs through the town and forms the county boundary with Offaly in certain parts. The meandering river cuts through the grey of the town which is surrounded by the green of agricultural land and some wooded areas. The agricultural land around the town has a mix of pasture and arable fields. The image shows how the hedgerows and treelines around the town connect up different areas and provide 'nature corridors' which are most important for biodiversity. The built-up areas can also host a variety of habitats from gardens to old walls to groups of trees. This aerial image shows a diversity of habitat type in the general Portarlington area from pastures to hedgerows to gardens to buildings. The river supports a wealth of biodiversity and is part of the River Barrow and Nore Special Area of Conservation (SAC) which is a designation under the E. U. Habitats Directive.

The habitat survey carried out as part of the Action Plan identified the following habitats as being of particularly high Local Biodiversity Value:

- Hedgerows (WL1)
- Drainage Ditches (FW4)
- Mixed broadleaved/ conifer woodland (WD2)
- Scrub (WS1)
- Depositing/lowland rivers (FW2).

The figure below shows the habitats as surveyed and produced in the above Biodiversity Action Plan 2014.

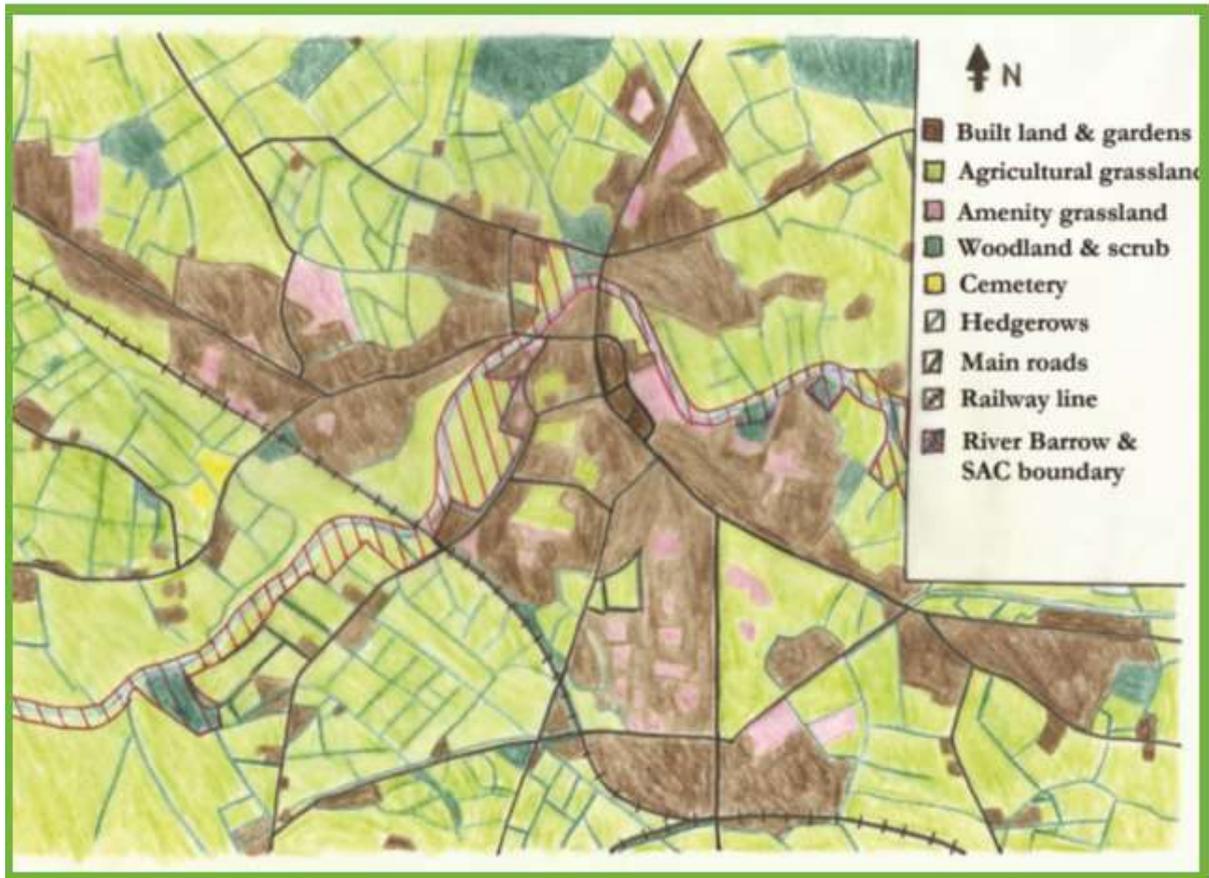


Figure 8 Habitat Present in Portarlinton area ,2014

Measures included in the Biodiversity Action Plan include meadow planting, bird and bat boxes and biodiversity friendly hedgerow management.

Stepping stones relate to small pockets of habitat which can be used by species to shelter, rest or food provision. They can play an important role in facilitating longer distanced dispersal as well as refuges for species to breed in⁵. These can provide important links between larger protected areas and corridors, in this context; this could include small areas of wet grassland, ponds, old graveyards, and treelines.

Potential linkages along the River Barrow and Derryounce lakes offer another opportunity to enhance ecological connectivity around the town and the wider landscape.

4.3.3 Existing issues Biodiversity, Flora and Fauna.

Key issues relate to the following:

- Enhancing existing ecological resources
- Promoting and facilitating ecological connectivity
- Enhancing ecological considerations within the public realm
- Provision of green and blue infrastructure to enhance ecological connectivity and provide mitigation in relation to air quality as appropriate as well as water storage/surface water attenuation where possible.

⁵ "Science for Environment Policy": European Commission DG Environment News Alert Service, edited by SCU, The University of the West of England, Bristol.

- Managing and controlling alien invasive plant species
- Minimising soil sealing and sustainable use of soil and water resources.
- Avoiding disturbance to habitats and species associated with the River Barrow
- Water quality of the surface waters.

4.4 Water Resources including surface water management and flood risk

Water resources and their quality have a clear interaction and impacts with other environmental parameters, therefore its protection and enhancement is of particular importance.

4.4.1 Water Framework Directive

The Water Framework Directive (WFD) is a key initiative aimed at improving water quality throughout the EU. It applies to rivers, lakes, groundwater, estuarine and coastal waters. The Directive requires an integrated approach to managing water quality on a river basin basis; with the aim of maintaining and improving water quality. The WFD identifies River Basin Districts as the key management units with clearly defined water bodies forming the basis for assessment reporting and management. The first cycle of RBD management plans were from 2009 to 2015 and the second cycle are currently being prepared. Currently the LAP is located within the Eastern River Basin District. However, for the second cycle the Eastern, South Eastern, South Western, Western and Shannon River Basin Districts will be merged to form one national River Basin District.

The most recent data for the new plans being prepared (with adoption due 2018) is from the catchments.ie website. A catchment is an area where water is collected by the natural landscape and flows from source through river, lakes and groundwater to the sea. The LAP lands are situated within the Barrow Catchment (Catchment code: 14) summarised as follows⁶:

*This catchment includes the area drained by the River Barrow upstream of the River Nore confluence and all streams entering tidal water between the Barrow railway bridge at Great Island and Ringwood, Co. Kilkenny, draining a total area of 3,025km². The largest urban centre in the catchment is Carlow. The other main urban centres in this catchment are New Ross, Graiguenamanagh, Athy, Portlaoise, Mountmellick, **Portarlington**, Monasterevin and Kildare. The total population of the catchment is approximately 188117 with a population density of 62 people per km². The Barrow catchment is underlain in its flat northern area by limestones of varying purity which continue down the western side of the catchment and sustain good groundwater resources in places. On the eastern side of the catchment, granites dominate, culminating in the summits of the Blackstairs Mountains.*

Portarlington Town straddles two sub catchments (sub catchment codes 020 south of the River Barrow and sub catchment 030 north)

⁶ www.catchments.ie

4.4.2 Surface Water

Surface water status is classified under the WFD from 'high' to 'bad' status. In measuring this status both ecological and chemical parameters are measured and the overall status is determined by the lower threshold achieved for both ecological and chemical parameters.

The latest information from the catchments.ie website shows the overall WFD status of the River Barrow as good (Q value 4) as it flows through the town.

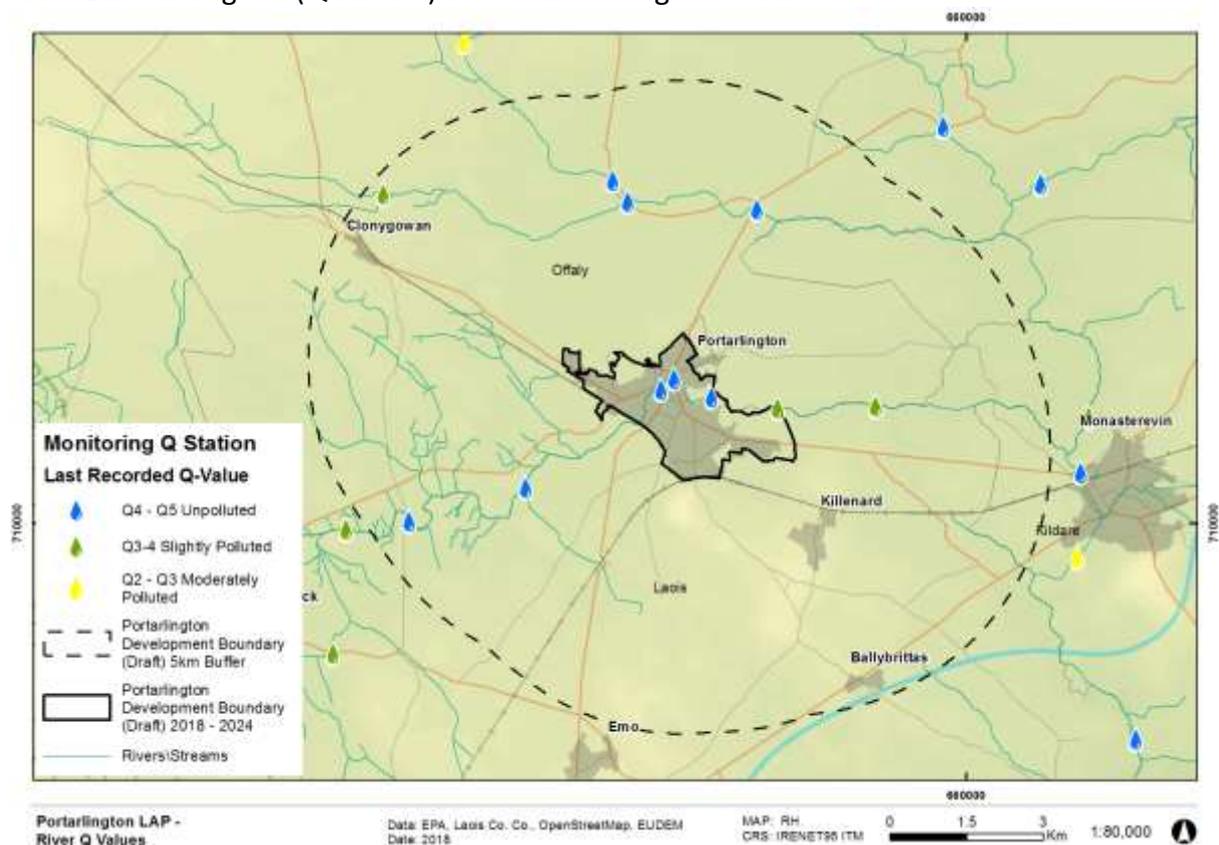


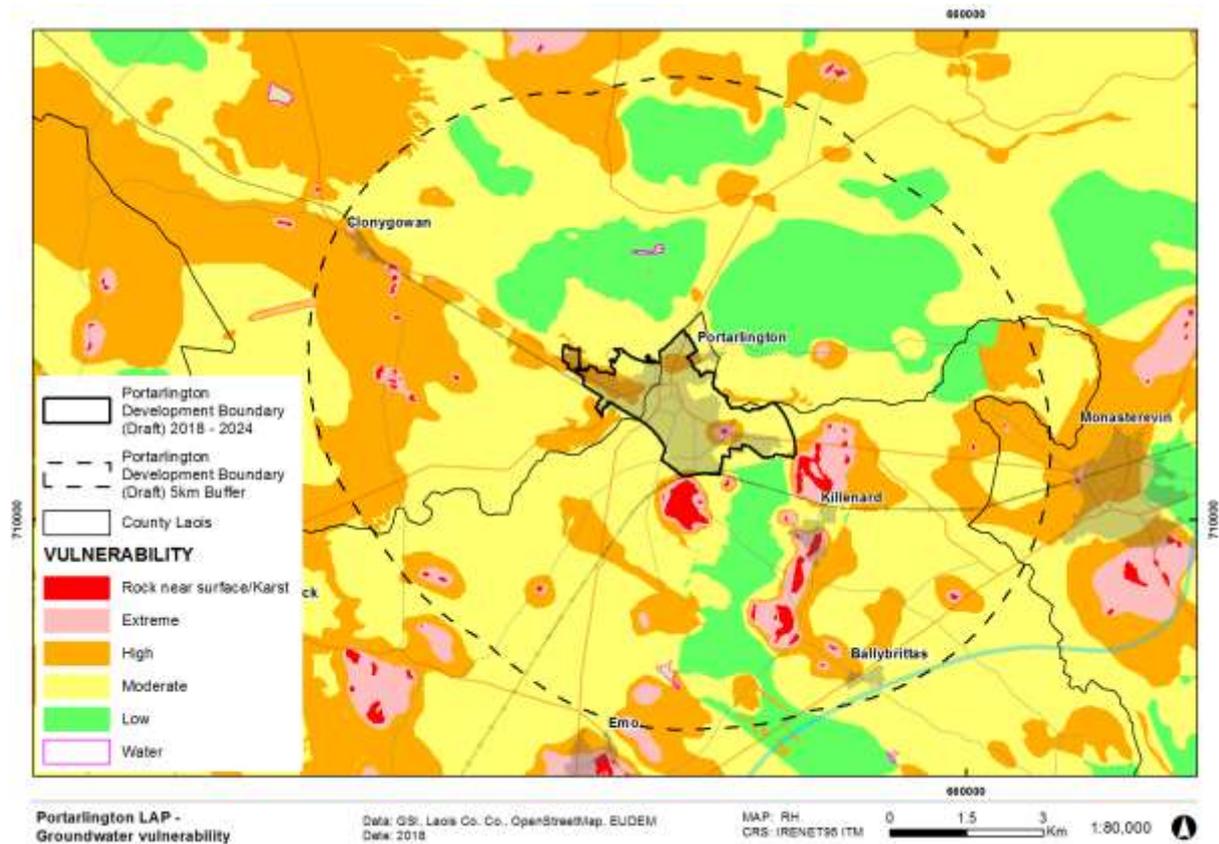
Figure 9 Surface Water Quality Portarlinton

4.4.3 Groundwater

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

The Geological Survey of Ireland's Groundwater Vulnerability Mapping shows the groundwater vulnerability for the area of the LAP within a catchment where groundwater vulnerability is considered moderate for much of the LAP Area; the groundwater in the western part of the plan area is high; an area of extreme vulnerability is adjacent to the plan area due south.

Figure 10 Groundwater Vulnerability

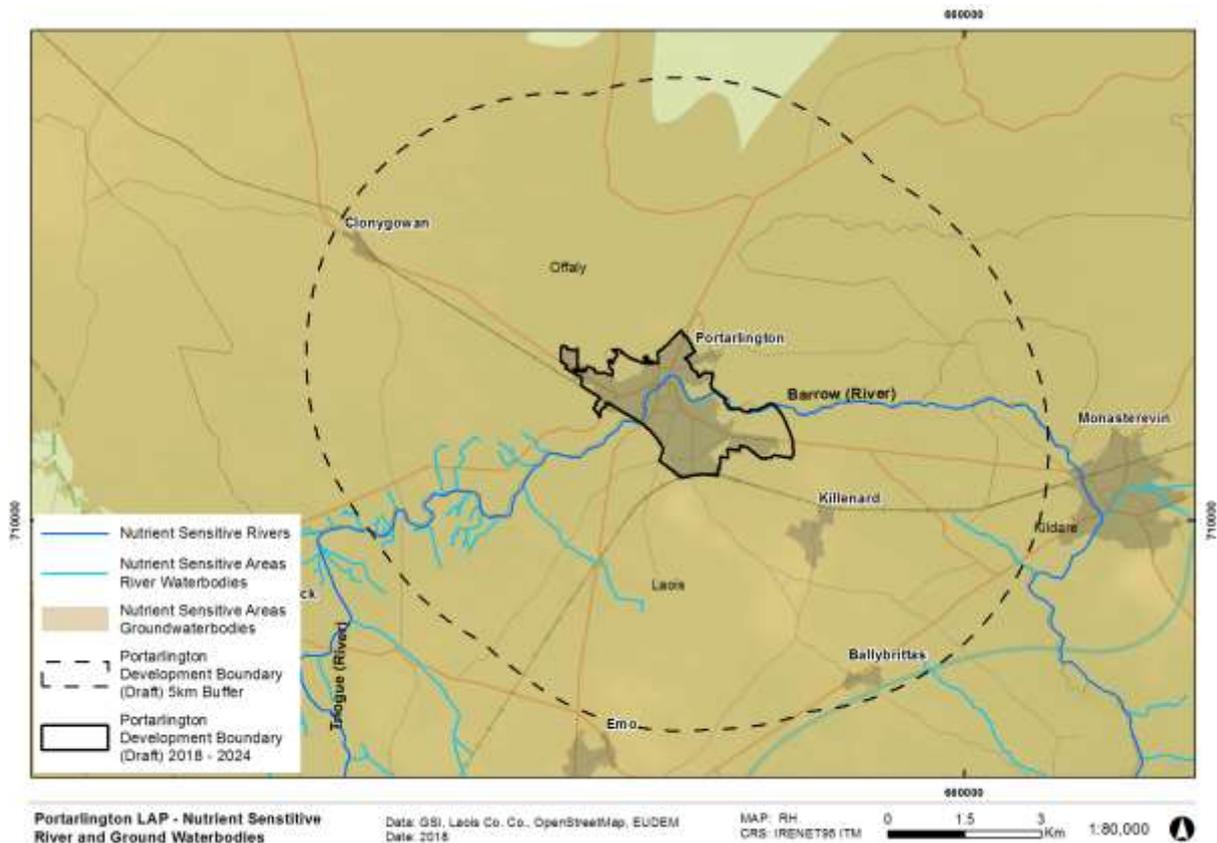


4.4.4 Register of Protected Areas (RPA)

In response to the requirements of the Water Framework Directive a number of water bodies or parts of water bodies which must have extra controls on their quality by virtue of how their waters are used by people and by wildlife have been listed on Registers of Protected Areas (RPAs). Protected areas are areas that have been designated as needing special protection because of their particular importance for use as bathing waters, drinking water supply, growing and harvesting of shellfish, conserving sensitive habitats and species or because they are particularly affected by eutrophication due to excessive inputs of phosphorus and/or nitrogen.

Entries to the RPAs in County Laois include the channels of the Triogue River and the River Barrow by virtue of their nutrient sensitivity. Nutrient Sensitive Areas comprise nitrate vulnerable zones designated under the Nitrates Directive (91/676/EEC) and areas designated as sensitive under the Urban Waste Water Treatment Directive (91/271/EEC). The LAP is also within a groundwater area designated as Nutrient Sensitive.

Figure 11 Nutrient Sensitive Waters



4.4.5 Flooding and Flood risk

The Planning System and Flood Risk Management, Guidelines for Planning Authorities, 2009, issued by the DoEHLG and undertaken in conjunction with the OPW, requires Planning Authorities to prepare a Strategic Flood Risk Assessment (SFRA)⁷.

The primary purpose of the SFRA is to determine flood risk within a particular geographical area. It should be noted the SFRA is an ever evolving document, which is to be reviewed and updated on a regular basis in the light of emerging information, flood data and an improved understanding of flood risk. Section 4.20 of the above Guidelines states:

'Flood risk identification (Stage 1) to assess whether full flood risk assessment is required, should ideally be carried out in a manner that is integrated with the SEA process rather than constituting an additional and separate process. Any subsequent stages of flood risk assessment should also be carried out in a way that is integrated with the SEA process.'

The Portarlinton Strategic Flood Risk and Management Strategy was commissioned by Laois and Offaly County Councils in association with the OPW to evaluate and quantify flood risk in Portarlinton. The study recommends a series of mitigation measures in the form of flood walls, levees, embankments and attenuation areas provided at various locations

⁷ Prepared by JBA Consulting

through the centre of Portarlinton along the banks of the River Barrow and the Blackstick Drain. The Strategy sets out three phases of works to address flood risk in the town:

- **Phase 1:** Will reduce the risk of flooding to existing properties, primarily the town centre area including Spa Street and Patrick Street. This phase will also reduce the flood risk to a section of undeveloped land to the rear of Patrick Street, representing a key opportunity for Town Centre development;
- **Phase 2:** Will improve the growth potential of the town between the Railway Bridge and Rosecourt, and will require a partnership approach between both Laois and Offaly County Councils. This phase cannot be carried out until Phase 1 is implemented;
- **Phase 3:** Will also improve the growth potential of the town in the area south of Marian Hill, on the Laois side of the town. This phase cannot be carried out until Phase 1 is implemented.

No element of the potential flood relief phased scheme has commenced to date.

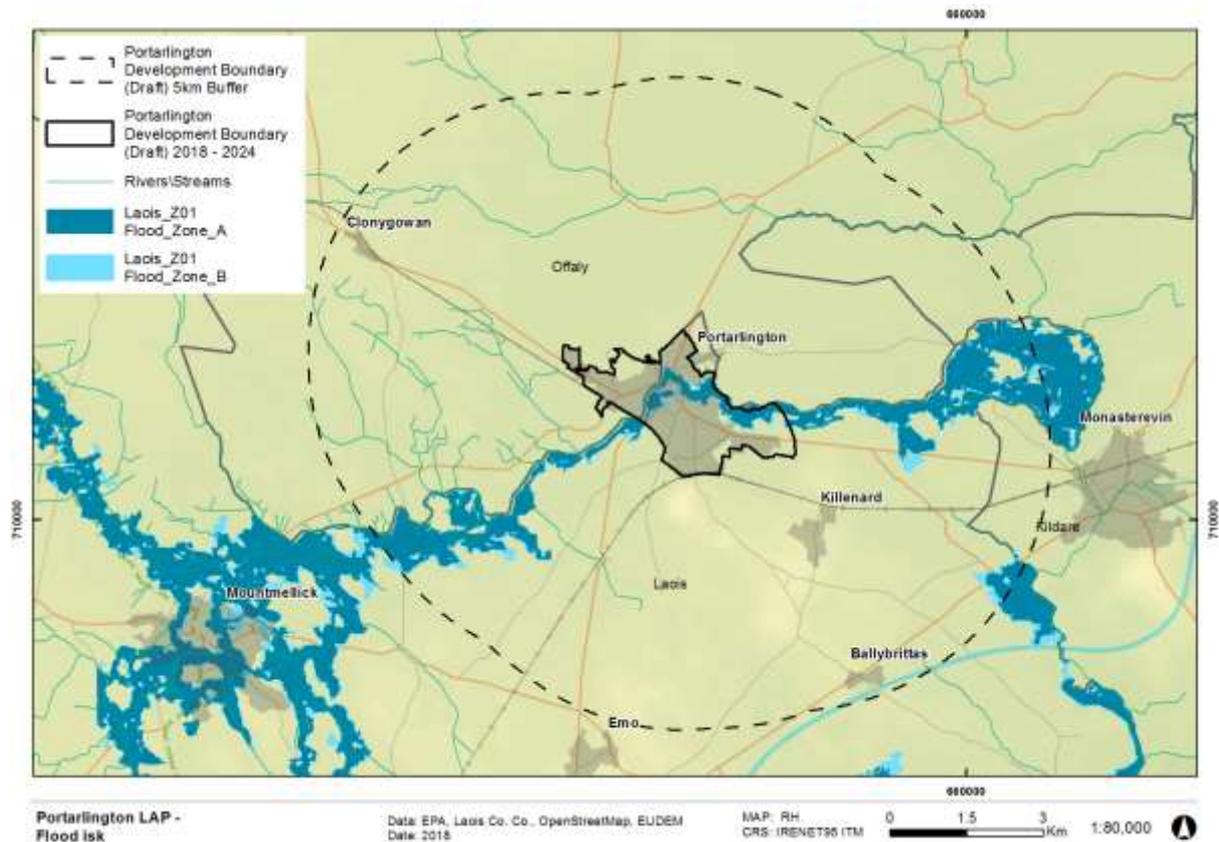
As the frequency, pattern and severity of flooding are expected to increase as a result of climate change, it is vitally important to take account of flood risk in the preparation of development plans such as this Draft Joint LAP and ensure that any development does not individually or cumulatively give rise to flood risk. The Draft Joint LAP avoids development in areas at risk of flooding and has substituted vulnerable land uses with less vulnerable uses where this is not possible. Where neither is possible, mitigation and management of risks must be proposed. Justification tests were carried out on a number of sites and are detailed in the SFRA report accompanying this Draft Joint LAP. The SFRA has recommended that development proposals for a number of areas within the plan boundary should be the subject of site-specific flood risk assessment appropriate to the nature and scale of the development being proposed.

The **Catchment Flood Risk Assessment and Management** (CFRAM) programme is a medium to long term strategy for the reduction and management of flood risk in Ireland covering seven river basin districts in Ireland. Portarlinton and its environs lie within the South Eastern River Basin District and were identified as an “Area for Further Assessment” (AFA) through CFRAM. A Hydraulics Report and Preliminary Flood Risk Assessment (PFRA) mapping has been completed as part of the CFRAM study which provides the complete assessment of flood risk in the town.

In accordance with “*The Planning System and Flood Risk Management - Guidelines for Planning Authorities*” as amended by Circular PL2/2014, a Strategic Flood Risk Assessment (SFRA) is required to be undertaken during the development of this Joint Local Area Plan. The SFRA is an assessment of flood risk within Portarlinton and includes mapped boundaries for indicative Flood Risk Zones, taking into account various factors including local knowledge, photography, site walkovers and published data sources indicative of flood risk. The SFRA should be read in conjunction with this Joint Draft Local Area Plan.

The landuse zoning map for Portarlinton has been developed taking into consideration the areas identified as being at risk of flooding as per the indicative flood risk map. Largely a precautionary approach has been taken to landuse zoning and this provides for the avoidance or minimization of development in areas at risk of flooding.

Figure 12 Flood Risk



4.4.6 Existing issues – Water Resources

Key issues include:

- Planning and mitigating flood risk
- Ensuring flood risk is fully considered and embedded in the LAP.
- Maintaining surface water quality
- Ensuring the status of Not at risk (of meeting WFD objectives) is kept and maintained for Groundwater
- Avoiding the spread of alien and invasive species

4.5 Geology⁸ and Soil

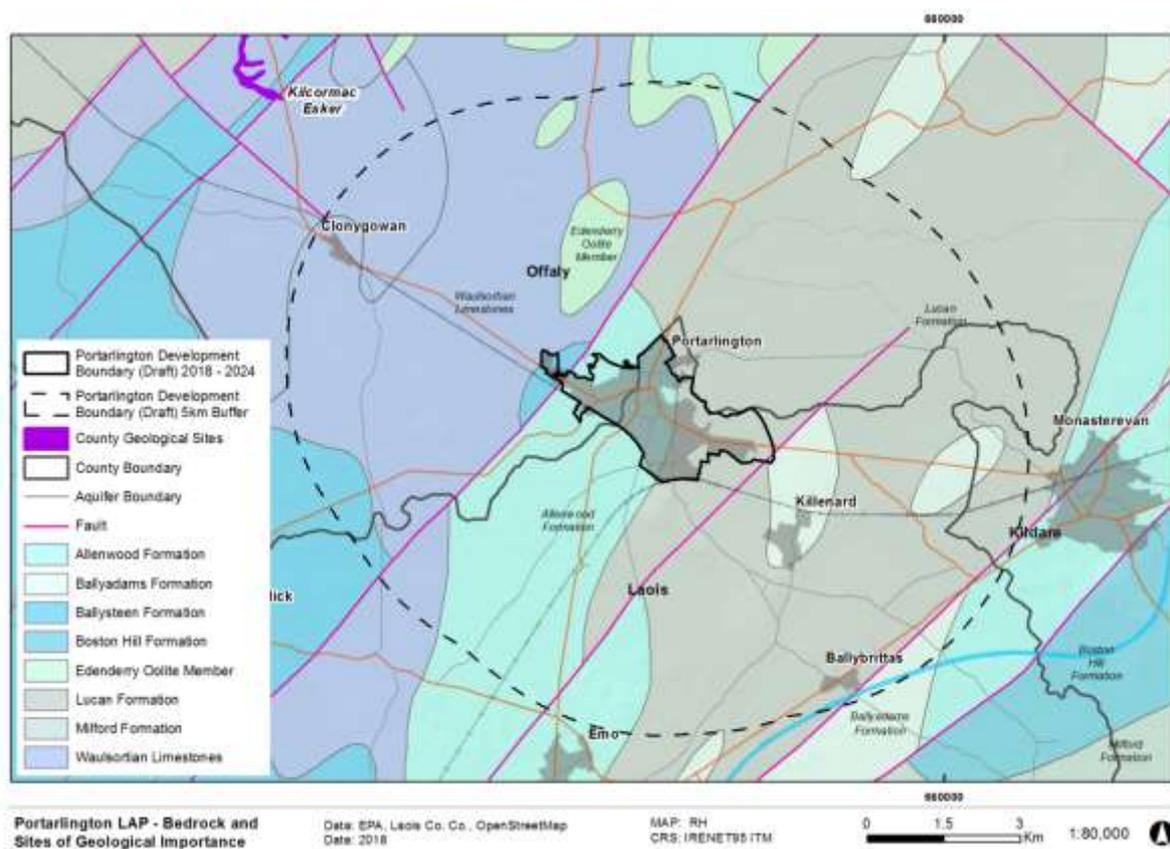
4.5.1 Geology

Portarlinton is located within broad bedrock of Lower Carboniferous Limestones. Mostly these limestones accumulated as horizontal layers on a fairly shallow 'shelf' sea floor although some of the younger layered limestones, around 325 Ma, are much darker in colour and were deposited in considerably deeper water. Although the limestones mostly form low ground across the centre of the county, they are well exposed in various working and disused quarries and on some of the low hills in the south of the county.

As elsewhere across Ireland, the ice sheets and glaciers of the last Ice Age have modified the Laois landscape, although in a more subdued way than in some of the more mountainous regions of Ireland. The main effect has been to blanket much of the lowlands with glacial till, or 'boulder clay'.

No geological NHAs are present within or adjacent to the plan area. The bedrock geology of the plan area and environs are shown below.

Figure 13 Bedrock Geology



4.5.2 Soil

Soil can be considered as a non-renewable natural resource because it develops over very long timescales. It is an extremely complex, variable and living medium and performs many

⁸ The Geological Heritage of County Laois An audit of County Geological Sites in County Laois by Matthew Parkes, Ronan Hennessy, Robert Meehan, Vincent Gallagher and Sarah Gatley 2016

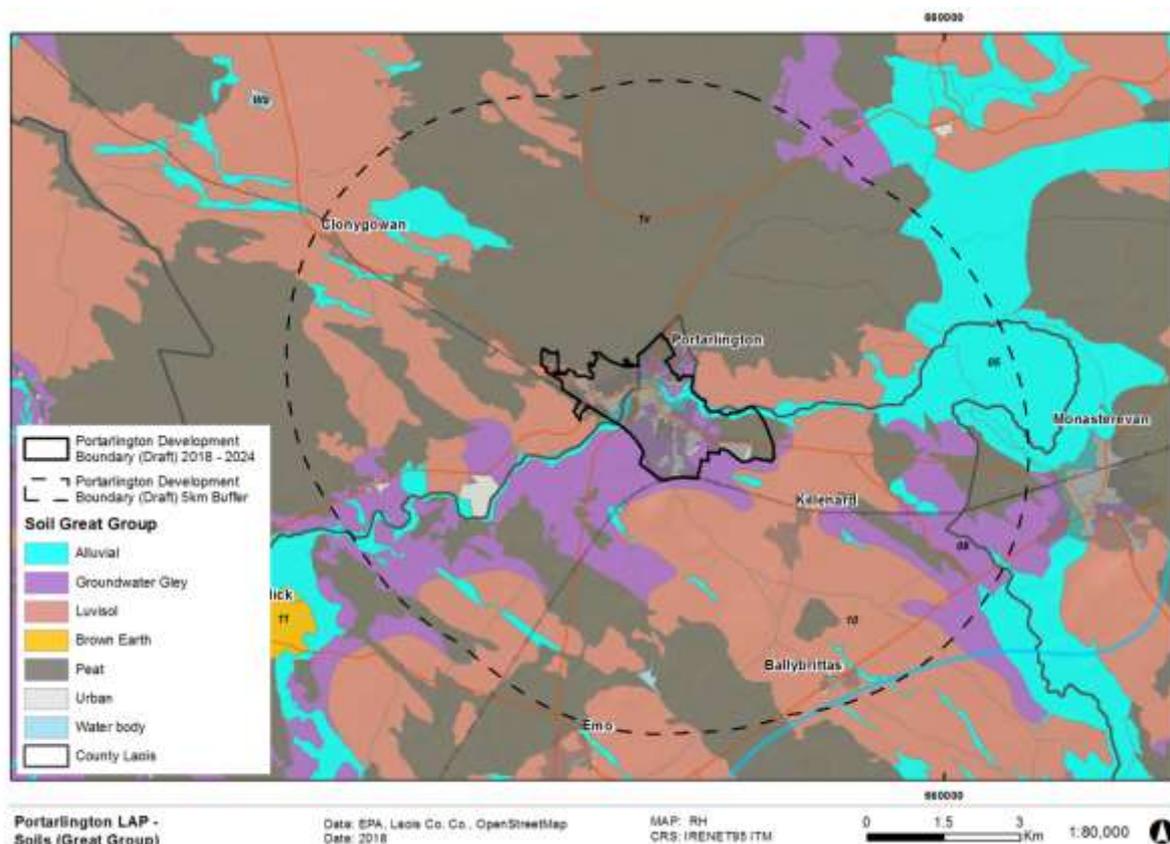
vital functions including: food and other biomass production, storage, filtration and transformation of many substances including water, carbon, and nitrogen. Soil has a role as a habitat and gene pool, serves as a platform for human activities, landscape and heritage and acts as a provider of raw materials. Such functions of soil are worthy of protection because of their socio-economic as well as environmental importance. Soils in any area are the result of the interaction of various factors, such as parent material, climate, vegetation and human action.

There is no overarching soil legislation in place currently, however the 7th Environment Action Programme (EAP) recognises the challenge of soil degradation and provides by 2020 that land be managed sustainably with soil adequately protected.

Whilst much of the LAP lands are classified as urban according to the Teagasc soil map, reflecting the built up character of much of the LAP, the surrounding soils are largely alluvial soils associated with the River Barrow. An extensive area of peat soils predominate north of the plan area; whilst the southern plan area are identified as the Mylerstown subseries of soils, defined by fine loamy drift with limestones.

There is also an area of land along the Canal road, formerly under industrial use (the Avon site) that may have some contamination issues.

Figure 14 Soil Types



4.5.3 Existing issues – Geology and Soil

- Maintaining and enhancing soil function and its carbon storage role where possible.

- Retention of areas of greenfield in terms of flood risk, water storage, open space, green infrastructure and biodiversity considerations.
- Potential soil contamination associated with brownfield sites or sites subject to previous industrial activities.

Because of the complex interrelationship between water, air and soil, declining soil quality can contribute to negative or declining water or air quality and function.

4.6 Climatic Factors and climate change

The context for addressing climate change and energy issues in Laois County, are set within a hierarchy of EU and National Legislation and Policy. At a European level these directives include, the EU Climate and Energy Package 2008, EU Renewables Directive 2009/28/EC and EU Energy Efficiency Directive 2012/27/EU.

The EU Climate Change and Energy Package 2008 resulted in the 2020 EU wide '20-20-20' energy targets as follows:

- a 20% reduction in EU greenhouse gas emissions from 1990 levels; raising the share of EU energy consumption produced from renewable resources to 20%; and
- a 20% improvement in the EU's energy efficiency.

Under the EU Energy Efficiency Directive 2009/28/EC, each Member State has been assigned a legally binding individual renewable energy target. The Directive's target for Ireland is that 16% of the national gross final consumption of energy will comprise renewable energy sources by 2020, across the electricity, heat and transport sectors.

The Climate Change and Low Carbon Development Act 2015 now provide a statutory, overarching basis for climate change in Ireland. It provides structures to transition to a low carbon economy through the following:

- a national mitigation plan (to lower Ireland's level of greenhouse emissions);
- a national adaptation framework (to provide for responses to changes caused

4.6.1 Greenhouse Gas Emissions

Agriculture is the largest contributor to overall emissions, however in terms of the LAP – energy and transport –the next largest contributors are the most relevant;

Promoting a modal shift in transport patterns, along with energy efficiency are key measures to assist in reducing Greenhouse Gas Emissions. As the majority of Portarlingtons' population live within 1.5km of the town centre, measures to increase permeability and walking and cycling can encourage a modal shift for the LAP area.

4.6.2 Existing Issues

- Planning for and adapting to climate change
- Sectoral policies can assist in this including transport and energy
- Measures including carbon sequestration in existing soils and additional appropriate vegetation planting associated with green infrastructure and ecological corridors.

4.7 Material Assets

The EPA SEA Process Draft Checklist (2008) defines material assets as the critical infrastructure essential for the functioning of society such as: electricity generation and distribution, water supply, wastewater treatment, transportation, etc. An overview is provided below.

4.7.1 Transport

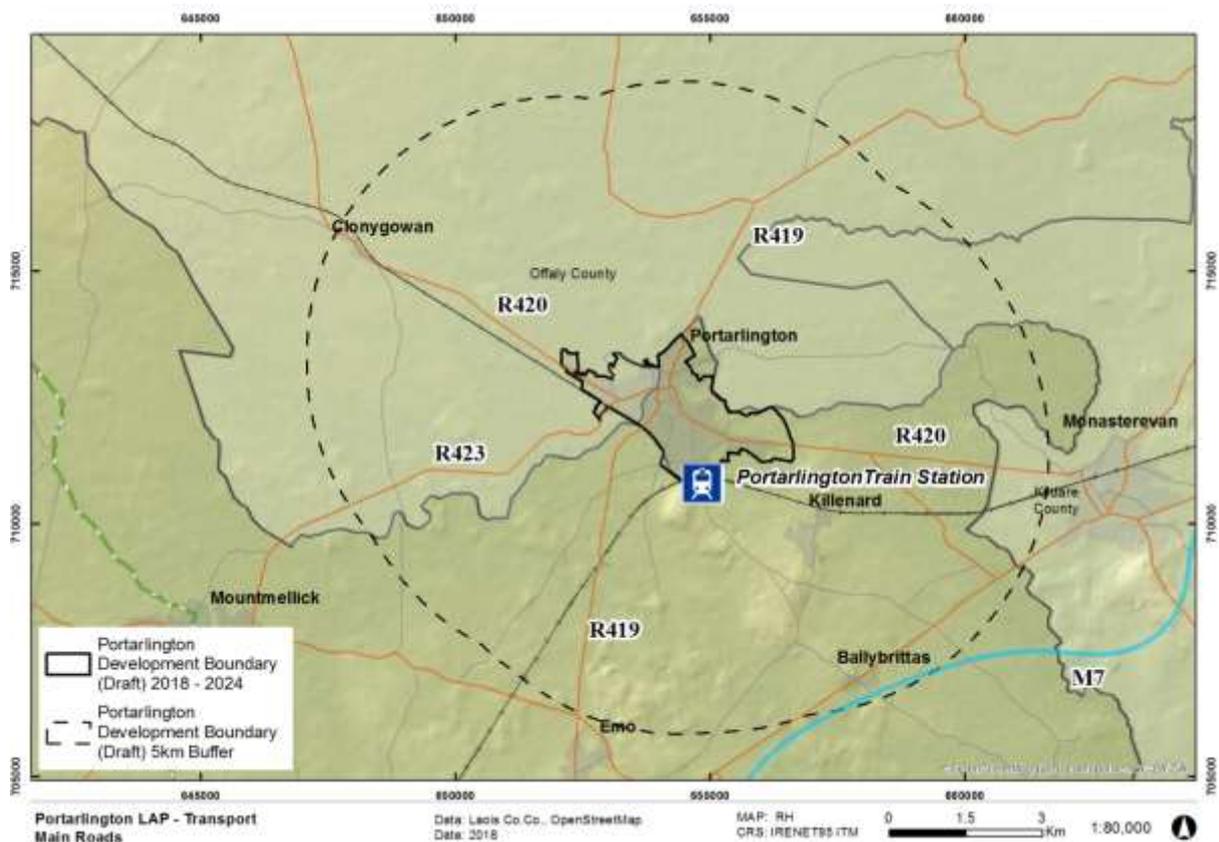
Portarlinton is linked to key neighbouring towns by a series of Regional Roads including the R419 to Portlaoise, the R420 to Tullamore and New Inn Interchange, the R424 to Monasterevin and the R423 to Mountmellick and Rathangan. Junction 15 at Monasterevin which enables easy access to the M7 and M8 motorway network is located approximately 10kms from the town.

The town is also located on the railway line connecting the south and west of the country to Dublin. There are a number of bus services connecting Portarlinton to Kildare, Monasterevin, Portlaoise, Tullamore and Dublin.

The development of an off road cycling network at Derryounce offers potential to connect Portarlinton with the Grand Canal via Mount Lucas, forming a vital part of the “Core Network” of the cycling network. Both Local Authorities will work together to achieve such an objective.

Figure 15 below presents the existing transport network.

Figure 15 Existing Transport Network



4.7.2 Water Services

The treatment of wastewater is governed by the Urban Waste Water Treatment Directive (91/271/EEC) (amended by Directive 98/15/EEC) transposed into Irish law by the Urban Waste Water Treatment Regulations 2001 (SI 254 of 2001) and the Urban Waste Water Treatment (Amendment) Regulations 2004 (SI 440 of 2004). The Directive aims to protect the environment from the adverse effects of the wastewater discharges by ensuring that wastewater is appropriately treated before it is discharged to the environment. The treatment of wastewater is relevant to the Water Framework Directive which requires all public bodies to coordinate their policies and operations so as to maintain the good status of water bodies which are currently unpolluted and bring polluted water bodies up to good status by 2027.

Water and Wastewater

Within the settlement of Portarlington 2,840 households are connected to the public mains water supply and 2,813 households are connected to the public sewer system.

The Portarlington Wastewater Treatment Plant has the capacity to cater for a population equivalent of 13,000. The River Barrow acts as the receiving waters for this plant. Currently there is capacity in the waste water treatment plant and public water supply. However, extra capacity is required to implement the policies and objectives of this plan.

4.7.3 Waste Management and IPPC

The Regional Waste Management Plan 2015-2021 for the Eastern-Midlands Region encompasses the local authorities: Dublin City, Dún Laoghaire- Rathdown, Fingal, South Dublin, Kildare, Louth, Laois, Longford, Meath, Offaly, Westmeath and Wicklow. The regional plan provides the framework for waste management for the next six years and sets out a range of policies and actions in order to meet the specified mandatory and performance targets.

The Waste Framework Directive⁹(WFD) has incorporated previous separate directives that addressed waste oils and hazardous waste. Principles in relation to waste prevention, recycling, waste processing and the polluter pays principle are included within this Directive.

In 2014 the EC adopted a communication promoting the Circular Economy, The circular economy considers waste as a resource which in turn can be recirculated into systems that focus on maintaining, repairing, reusing, refurbishing and recycling materials.

Denmark, Sweden, Japan, Scotland and the Netherlands⁹ are currently the most advanced countries in terms of embedding the circular economy into their waste management system. Key elements of the communication include:

- Increase recycling and preparing for municipal waste to 70% by 2030
- Increase recycling and preparing for reuse of packaging waste to 80% by 2030
- An aspiration to eliminate landfill by 2030
- Member states to be responsible for ensuring the separate collection of biowaste by 2025.

⁹<http://circulatenews.org/2015/04/an-introduction-to-circular-economy-in-scandinavia-sweden-and-denmark-leading-the-race-to-circularity/>

- Reduction of food waste by at least 30% by 2025.

In terms of existing waste facilities, the sole landfill site for the County is at Kyletalesha. The landfill site operates under Environmental Protection Agency Waste Licence since May 2000. A recycling centre operates at Lea Road in Portarlinton and accepts a wide variety of materials for recycling. Glass and can bring banks are also available at a number of locations in the plan area as well as clothes banks.

4.7.4 Gas Supply and Broadband

Portarlinton is served by a high capacity electricity system and gas network. Within the settlement 2,202 households have broadband internet services. The Local Authorities of Laois and Offaly will work with broadband providers to facilitate an upgrade of the network, which will give significant economic and social advantage to Portarlinton as a place to set up internet based businesses.

4.7.5 Existing Issues

Transport considerations and integrated landuse as well as increasing permeability around the plan area are key issues for the LAP and SEA.

Key issues to consider for material assets include:

- Planning for and maintaining sufficient water services and capacity for the plan area
- Consideration of receiving waters for wastewater
- Encouraging sustainable use of resources
- Reducing reliance on private transport, and enhancing walking/cycling measures around the town and to the wider area
- Workable alternatives to private transport and future public transport services and infrastructure in the area
- Development standards affecting transport e.g. car parking
- Energy efficiency
- Promotion of the circular economy.

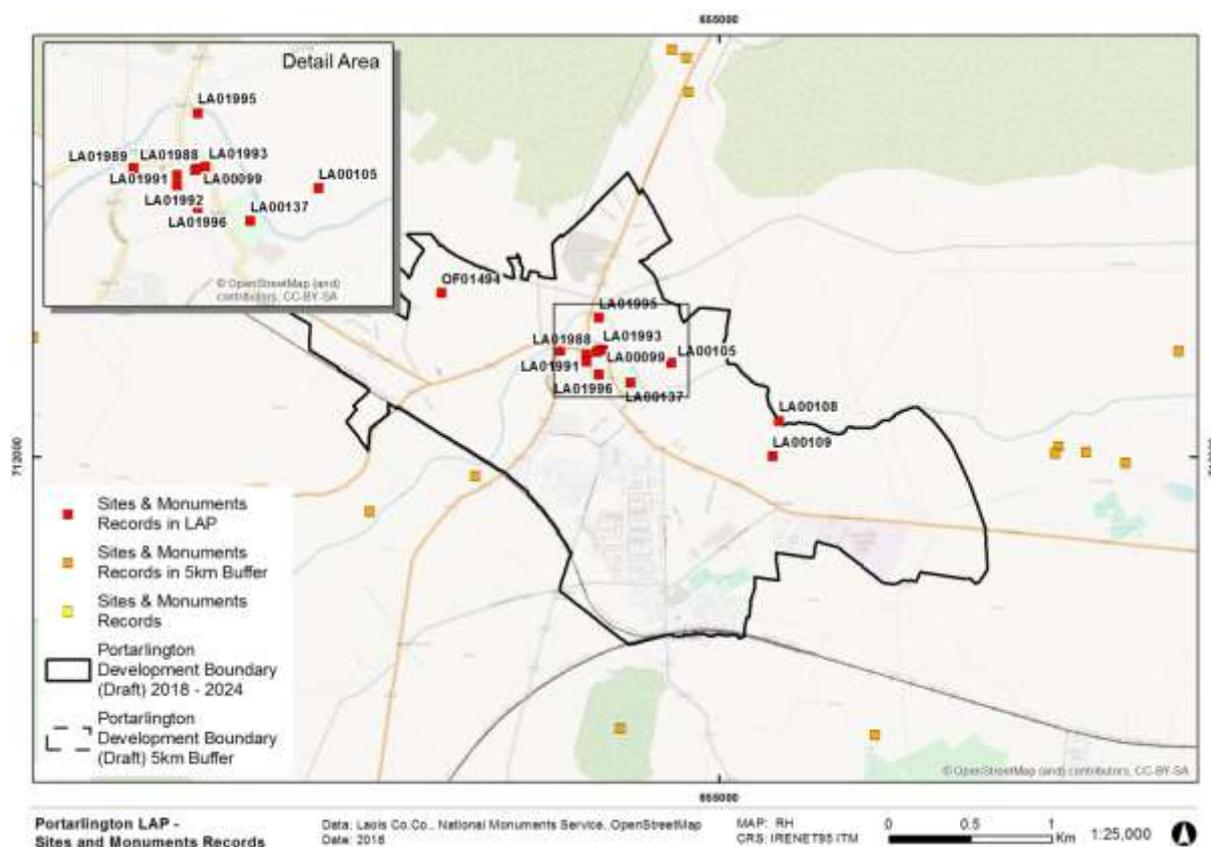
4.8 Cultural Assets –archaeology and built heritage

4.8.1 Archaeology

Approximately 14 no. archaeological sites within the plan boundary are on the sites and monuments record. These include two ringforts, and a motte and bailey associated with Norman castles.

Lea Castle is a medieval castle on the banks of the River Barrow outside of the settlement of Portarlinton. Although outside of the town boundary, the castle is of significant historical and architectural importance. The Portarlinton Arts and Heritage Committee have prepared a conservation report following funding from the Heritage Council and some initial works to facilitate the long term conservation of the structure. See Figure 17 below for the location of these sites.

Figure 16 Sites and Monuments Record



4.8.2 Built Heritage

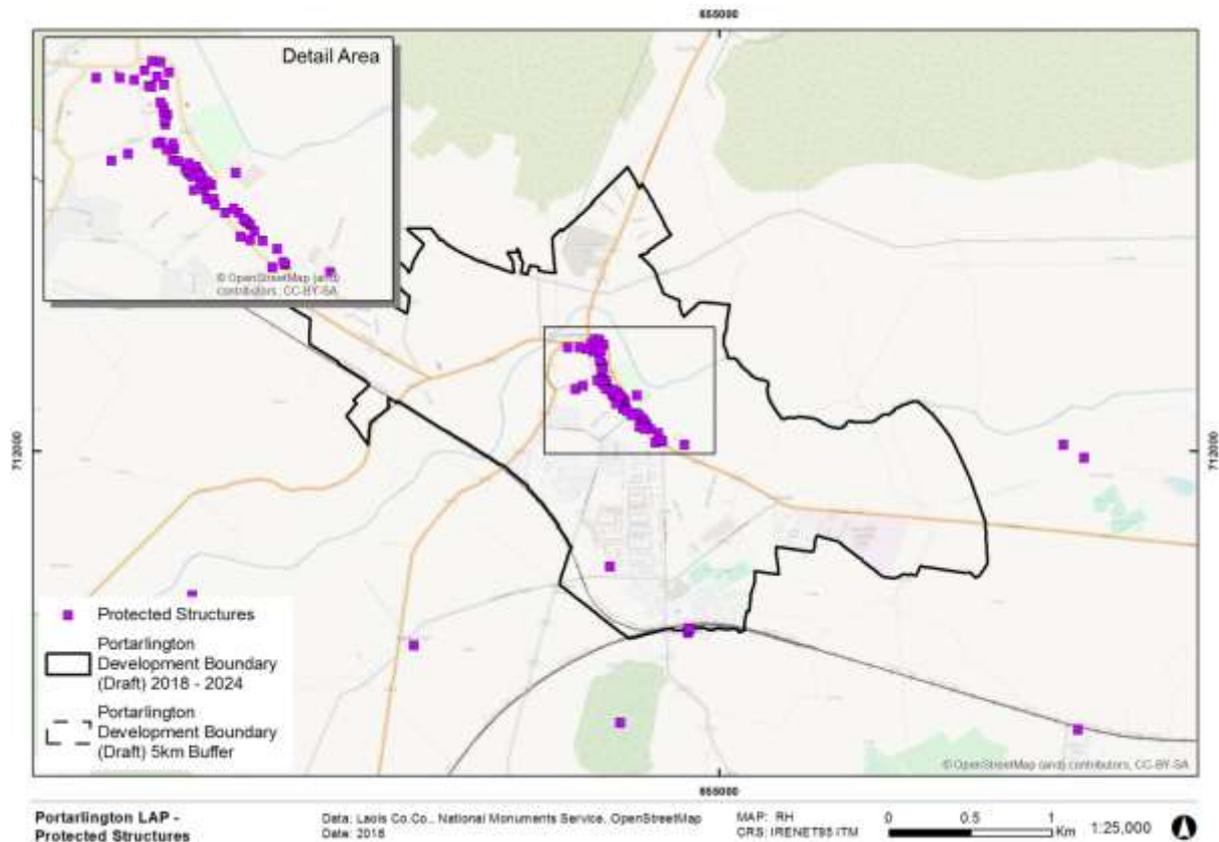
The Architectural Heritage (National Inventory) and Historic Monuments Act 1999 defined architectural heritage as being all *'structures and buildings together with their settings and attendant grounds, fixtures and fittings; groups of structures and buildings; and, sites which are of technical, historical, archaeological, artistic, cultural, scientific or social interest.'*

The Planning and Development Act 2000 (as amended), provides for a number of methods of preservation of such structures. These include the Record of Protected Structures (RPS) and the designation of Architectural Conservation Areas (ACA). Portarlinton Centre is proposed for designation as an ACA as part of the LAP and a Character Appraisal in support of same was carried out in 2013.

In addition to the historic core, numerous additional structures worthy of preservation are located within the LAP boundary. Such buildings or structures are noted within the RPS. Protected Structures are defined as structures, or parts of structures that are of special interest from an architectural, historical, archaeological, artistic, cultural, scientific, social or technical point of view. There are approximately 96 no. Protected Structures within the development boundary of Portarlinton. The following figure shows the structures listed on the Record of Protected Structures.

More generally, there are a number of older buildings that are unoccupied as well as one site identified as Opportunity Site in the LAP; reuse of these buildings is both more sustainable and adds a further lifespan to these structures, adaptive re-use of these buildings contributes to the cultural heritage, as well as townscape, town centre viability and is a more efficient use of resources.

Figure 17 Record of Protected Structures



4.8.3 Existing issues – Cultural Assets

Key issues include:

- Potential for additional archaeological resources
- Enhancing and linking cultural heritage of the area
- Designation of ACA and support for same
- Promotion of heritage features as tourist attractions
- Archaeological input on the archaeological implications of any new development proposed in the Local Area Plan

4.9 Landscape and townscape

Landscape and Open Spaces

Portarlinton is located in the Lowland Agricultural Areas landscape character type. The type is comprised primarily of pastoral and tillage agriculture. It is generally a flat open landscape with long- range views towards the upland areas. Field patterns tend to be large scale and are generally bounded by deciduous hedges containing mature trees.

The landscape type has been more extensively developed than the other LCT's particularly in the north east where Portarlinton is located, on the border with Co. Offaly. This has resulted in significant changes to the landscape character. THE LCA recommends that future developments of this LCT should be carried out sensitively and with particular reference to the rural nature of the landscape.

The LCA notes in relation to townscape and urban design that growth over recent years has resulted in 'a myriad of architectural styles' which are out of keeping with the historic built vernacular. It is recommended that future development relates to the existing vernacular in terms of building scales and materials.

General Recommendations in the LCA include

Diversify the urban fringe by developing mixed use amenity areas which will establish a landscape buffer thereby creating a transition between urban and rural areas

Define the urban fringe with planting of native species and mixed woodland to tie into the existing rural landscape

Landscape and Townscape

Portarlinton is located in the heart of an agricultural landscape and serves a large agricultural hinterland. The town retains a relationship to the surrounding landscape. The River Barrow forms a natural corridor through the town centre and is another important natural feature lending particular identity to the town, as well as significant ecological values. The town's public park, People's Park- is located on Link Road. Historic photographs demonstrate the value of trees to the quality of the public realm. Walkway has been developed around Derryounce Bog and lakes. Trees are now only intermittently scattered through the town. Heavy town centre traffic results in pedestrian /vehicular conflict. The town lacks comfortable and safe facilities for cyclists. Poor quality interventions have degraded the town centre.

Open Space and Amenities

Man-made habitats within the town are important as biodiversity areas as well as contributing to its spatial quality and character. Urban green spaces form part of the network of green spaces within the town and include gardens, the People's Park, graveyards, amenity walks, railway lines, and patches of woodland and scrub.

An area of mixed and semi-natural woodland is located in the original rear cartilage of Kilnacourt House (formerly Odlum's Wood), located near the town centre. Scattered broadleaf trees are found throughout this area.

Trees

The council will not normally grant planning permission for developments which requires the felling of sound mature trees except where it is absolutely necessary in the interest of safety (both for the developer and for traffic) or the siting of development. The ACA notes that trees played important roles in defining the spatial character of Portarlington. Most of these trees no longer exist. They were presumably not replaced when they achieved maturity. Trees would have a notable positive impact on the public realm.

4.9.1 Existing Issues for Landscape and Townscape

- Enhancing the public realm
- Integrating blue and green infrastructure
- Encouraging re-use of buildings
- Sensitive and appropriate interventions relating to the River Barrow and Derryounce lakes
- Enhancing permeability for pedestrians and cyclists

4.10 Likely evolution of the environment in the absence of the Portarlington LAP

The SEA legislation requires that consideration is given to the likely evolution of the current baseline where implementation of the LAP does not take place. In the absence of the new LAP the environment would evolve under the regime of the existing LAP and the requirements of the Laois County Development Plan 2017- 2023 and Offaly County Development Plan 2014-2020.

Principal environmental issues in the absence of the LAP include:

- **Material Assets:** the LAP has integrated the most recently available information relating to flood risk management which is a key issue for the plan area; in the absence of the plan, the opportunity to fully integrated land use and flood risk considerations, as well as adaptation though measures such as green and blue infrastructure may not be fully realised.
- **Air Quality:** in the absence of the new LAP opportunities to promote greater permeability, enhanced measures relating to public transport, pedestrian and cycle movement may not be fully implemented.
- **Climate change and population and human health;** the joint approach to walking and cycling identified by Offaly County Council and Laois County Council may not be realised and implemented in the absence of the LAP;
- **Landscape:** the new LAP includes additional public realm measures that seek to improve connectivity between the different land uses and functions around the LAP area; in the absence of the new LAP, these enhancement measures would not be implemented.
- **Biodiversity, flora and fauna:** habitat surveys and green infrastructure considerations are not included in the current LAP, therefore enhancement measures for open spaces and opportunities to improve ecological connectivity, particularly with the River Barrow would not be implemented.
- **Population and human health:** In the absence of mitigation associated with the LAP human health has the potential to interact with environmental problems identified under other parameters including biodiversity, flora and fauna, cultural assets, soil and geology, water resources, material assets, landscape and green infrastructure.

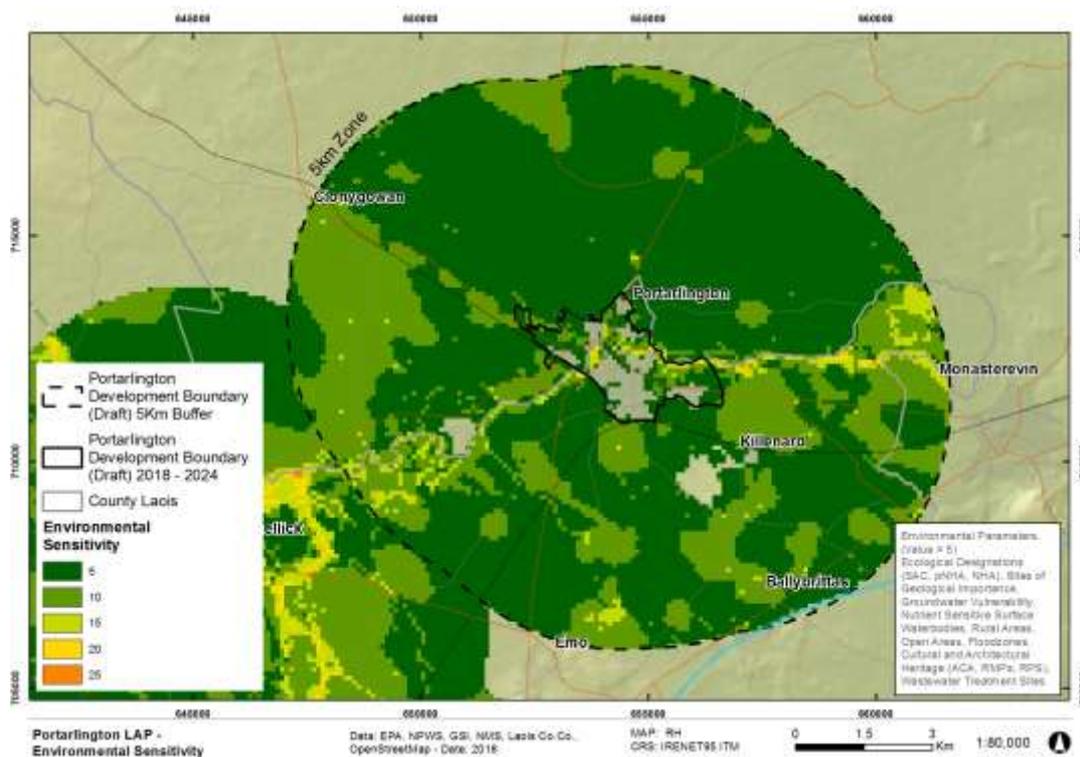
- Population and Human health: the existing LAP does not allocate measures relating to the Opportunity Sites identified in the plan area; in the absence of the new plan, these sites and associated measures in terms of potential new housing provision and open space would not be implemented.
- Cultural Heritage, Material Assets, Landscape, Population, Climate Change and Biodiversity; in the absence of the plan, measures including as part of the Vision for Portarlinton strategy would not be fully integrated to the plan and represent a lost opportunity to embed these proposals within the LAP framework.

4.11 Interrelationship of the above components

In accordance with the SEA Directive, the interrelationship between the environmental parameters above must be taken into account. Although all such parameters may be considered interrelated and may impact on each other at some level environmental sensitivity mapping is commonly used to help identify areas of greater or lesser sensitivity. Figure 21 shows the overall environmental sensitivity for the plan area and sphere of influence, and follows the same approach (ie: ranking of environmental parameters) as that used in the Laois County Development Plan 2017-2023 SEA process.

By mapping key environmental layers (GIS) to produce an environmental sensitivities map, it provides a visual impression which can assist in identifying which areas within the Plan area experience the highest concentration of environmental sensitivities and consequently the areas potentially most vulnerable to potential environmental impacts from development. This can be a useful guide when considering the strategic options in relation to the plan during the early stages in the plan making process, and identifying areas that are of greater or lesser vulnerability. Figure 18 shows the environmental sensitivity map for the LAP.

Figure 18 Environmental Sensitivity Mapping



Reflecting the designations and the hydrological regime within the plan area, the areas of greatest environmental sensitivity are the areas designated for natural heritage, flood zones and water courses. Based on this modeling, the areas of greatest sensitivity are the River Barrow.

In understanding this sensitivity map it is important to stress how these resources interact with each other; declining water quality will impact downstream on both water quality and species dependent on the high quality character of this water body. Inappropriate land uses, could, over time, generate soil impacts that in turn would contribute to declining groundwater resources with subsequent impacts on human health and biodiversity. The role and function of peatlands, even formerly degraded sites such as Derryounce perform important functions, as they alter over time to include more diverse habitats including wetlands and lakes. In turn, they can provide a number of ecosystem services for the town and wider area including biodiversity support, water quality improvement, flood abatement, and carbon management.

5 Strategic Environmental Objectives

5.1 Introduction

The overall aim of the SEA is to facilitate environmental protection and to allow the integration of environmental considerations into the preparation and implementation of the Portarlinton LAP. To that end, the SEA process assesses the draft LAP as it evolves in terms of its environmental impacts, positive, negative, neutral, cumulative and synergistic and also in terms of duration ie: short, medium, long term, temporary, permanent, and secondary effects. This process highlights how improvements can be integrated into the LAP to increase its environmental performance and maintain environmental resources. The purpose of the SEA Objectives is to ensure that the assessment process is transparent and robust and that the LAP considers and addresses potential environmental effects.

These SEA Objectives are presented in this chapter and are developed into a monitoring programme in the form of targets and indicators which are presented in more detail in Chapter Nine Monitoring Programme. To facilitate consistency with the primary landuse plan for the Counties and reflect data gathering requirements, these SEOs reflect where possible the SEOs developed for the SEA of the Laois CDP 2017-2023 and Offaly CDP 2014-2020. Where necessary the SEOs are adapted to reflect particular environmental considerations for this Portarlinton LAP. Where they differ from the above CDP SEA objectives, the text is shown in *italic bold font*. The results of this will be summarized in a table, called an evaluation matrix.

The Strategic Environmental Objectives are as follows:

Table 5 Strategic Environmental Objectives for Portarlington LAP

SEA Topic	Strategic Environmental Objectives
Biodiversity Flora and Fauna 	<p>B1: To ensure compliance with the Habitats and Birds Directives with regard to the protection of Natura 2000 Sites and Annexed habitats and species</p> <p>B2: To ensure compliance with Article 10 of the Habitats Directive with regard to the management of features of the landscape which - by virtue of their linear and continuous structure or their function act as stepping stones (designated or not) - are of major importance for wild fauna and flora and essential for the migration, dispersal and genetic exchange of wild species</p> <p>B3: To avoid significant impacts on relevant habitats, species, environmental features or other sustaining resources in designated sites including Wildlife Sites and to ensure compliance with the Wildlife Acts 1976-2010 with regard to the protection of listed species</p>
Population and human health Noise 	<p>PHH1: To protect populations and human health from exposure to incompatible landuses <i>including adverse noise and air quality impacts</i></p>
Water 	<p>W1: To maintain and improve, where possible, the quality and status of surface waters</p> <p>W2: To prevent pollution and contamination of ground water</p> <p>W3: To comply as appropriate with the provisions of the Planning System and Flood Risk Management: Guidelines for Planning Authorities (DEHLG, 2009)</p>
Soil and Geology 	<p>S1: To avoid damage to the hydrogeological and ecological function of the soil resource</p> <p>S2: To maximise the sustainable re- use of brownfield lands, and the existing built environment, rather than developing greenfield lands.</p>
Material Assets 	<p>M1: To serve new development with adequate and appropriate wastewater treatment</p> <p>M2: To serve new development with adequate drinking water that is both wholesome and clean</p> <p>M3: To reduce waste volumes, minimise waste to landfill and increase recycling and reuse</p>
Climate Change, Air Quality and Noise 	<p>C1: To reduce travel related emissions to air and to encourage modal change from car to more sustainable forms of transport</p> <p>C2: Ensure that the LAP proposals are adaptive to expected climate change patterns in line with Local Authority Adaptation Strategy Development Guidelines (EPA) as appropriate</p>
Cultural Heritage	<p>CH1: To protect archaeological heritage including entries to the Record of Monuments and Places and/or their context</p>

SEA Topic	Strategic Environmental Objectives
	CH2: To protect architectural heritage including entries to the Record of Protected Structures and Architectural Conservation Areas and their context
Landscape 	L1: To minimise significant adverse visual impacts within and adjacent to the County <i>L2 To protect and enhance landscape character and quality within and adjacent to the LAP area.</i>
Interrelationships 	<i>Maintain and improve the health of people, ecosystems and natural processes</i> <i>Actively seek to integrate opportunities for environmental enhancement</i>

6 Consideration of Alternatives

6.1 Introduction

One of the critical roles of the SEA is to facilitate an evaluation of the likely environmental consequences of a range of alternative development scenarios, in this case the Portarlington LAP 2018-2024.

These alternative development scenarios should meet the following considerations:

- Take into account the geographical scope, hierarchy and objectives of the plan –be realistic
- Be based on socio-economic and environmental evidence – be reasonable
- Be capable of being delivered within the plan timeframe and resources –be implementable
- Be technically and institutionally feasible – be viable

In developing, refining and assessing the alternatives for the LAP, the toolkit included in Developing and Assessing Alternatives in Strategic Environmental Assessment Good Practice Guidance (EPA 2015) was utilised.

In addition to the above, the Portarlington LAP will function within the policy hierarchy established by national, regional and county strategic plans, as well as relevant legislation. This chapter presents the approach to considering and assessing the alternatives for the LAP. Section 6.2 presents the alternative scenarios. Section 6.3 explains how the assessment of alternatives was undertaken; Section 6.4 presents the evaluation of the alternatives for potential environmental effects. This in turn informed the selection of a preferred alternative for the LAP which is presented in Section 6.5.

6.2 Alternative Scenarios for LAP

In the case of the Draft Portarlington LAP, possible alternatives include different land uses and scales of development will be examined.

1. **Continuation of Existing LAP landuse zonings and policies/objectives (The Do-Nothing Scenario).** Continues with the existing LAP in its current context.
2. **Town centre consolidation:** This approach would be to focus explicitly on the densification of the town centre with intensification of land uses and focus on employee intensive sectors.
3. **Town centre consolidation and designation of future development lands in a tiered structure:** Promotion of development lands within the town centre for development and the designation of secondary and edge of centre areas where this type of development is considered appropriate in certain circumstances. It would also promote the development of neighbourhood centres to provide a level of retail services locally.

In considering these alternatives, regard was had to the Preferred Alternative (Scenario 3 Balanced Growth, Strong Plans) identified for the Laois County Development Plan 2017-2023. Within this scenario, the main population centres for prioritised development would remain to be Portlaoise, Portarlington, Portarlington and Graiguecullen, this is where

development both residential and commercial is most likely to happen in a controlled manner. This fulfils the objectives of the current NSS, the RPGS and the new National Planning Framework in terms of achieving balanced regional growth which is of benefit to both the county and the region as a whole. Policies will be formulated to promote residential and commercial development within these areas

6.3 Assessment of potential effects for each alternative scenario

This section presents the assessment of potential environmental effects for each Alternative Scenario. This is undertaken by assessing each alternative against the SEOs presented in Chapter 5 of this SEA ER. It is informed by the environmental baselines as well as the policy review.

The assessment of Alternatives is categorised as follows:

Positive	
Neutral	
Uncertain	
Negative	

6.4 Summary Evaluation against SEOs

Strategic Environmental Objectives	Alternative 1: Continuation of Existing LAP landuse zonings and policies/objectives (The Do-Nothing Scenario). Continues with the existing LAP in its current context	Alternative 2 Town centre consolidation: This approach would be to focus explicitly on the densification of the town centre with intensification of land uses and focus on employee intensive sectors.	Alternative 3 Town centre consolidation and designation of future development lands in a tiered structure.
Biodiversity			
B1: To ensure compliance with the Habitats and Birds Directives with regard to the protection of Natura 2000 Sites and Annexed habitats and species	Uncertain	Positive	Positive
B2: To ensure compliance with Article 10 of the Habitats Directive with regard to the management of features of the landscape which by virtue of their linear and continuous structure or their function act as stepping stones (designated or not) - are of major importance for wild fauna and flora and essential for the migration, dispersal and genetic exchange of wild species	Negative	Negative	Neutral
B3: To avoid significant impacts on relevant habitats, species, environmental features or other sustaining resources in designated sites including Wildlife Sites and to ensure compliance with the Wildlife Acts 1976-2010 with regard to the protection of listed species	Uncertain	Uncertain	Neutral
Population and Human Health			
PHH1: To protect populations and human health	Negative	Negative	Positive

from exposure to incompatible landuses <i>including adverse noise and air quality impacts</i>			
Water			
W1: To maintain and improve, where possible, the quality and status of surface waters	Neutral	Neutral	Positive
W2: To prevent pollution and contamination of ground water	Neutral	Neutral	Neutral
W3: To comply as appropriate with the provisions of the Planning System and Flood Risk Management: Guidelines for Planning Authorities (DEHLG, 2009)	Uncertain	Positive	Positive
Soil and Geology			
S1: To avoid damage to the hydrogeological and ecological function of the soil resource	Neutral	Positive	Positive
<i>S2: To maximise the sustainable re-use of brownfield lands, and the existing built environment, rather than developing greenfield lands.</i>	Neutral	Positive	Positive
Material Assets			
M1: To serve new development with adequate and appropriate wastewater treatment	Positive	Positive	Positive
M2: To serve new development with adequate drinking water that is both wholesome and clean	Positive	Positive	Positive
M3: To reduce waste volumes, minimise waste to landfill and increase recycling and reuse	Uncertain	Positive	Uncertain
Climate and Air Quality			
C1: To reduce travel related emissions to air and to	Uncertain	Uncertain	Positive

encourage modal change from car to more sustainable forms of transport			
<i>C2: Ensure that the LAP proposals are adaptive to expected climate change patterns.</i>	Negative	Uncertain	Positive
Cultural Heritage			
CH1: To protect archaeological heritage including entries to the Record of Monuments and Places and/or their context	Positive	Positive	Positive
CH2: To protect architectural heritage including entries to the Record of Protected Structures and Architectural Conservation Areas and their context	Positive	Positive	Positive
Landscape			
L1: To minimise significant adverse visual impacts within and adjacent to the County	Neutral	Neutral	Positive
<i>L2 To protect and enhance landscape character and quality within and adjacent to the LAP area.</i>	Uncertain	Uncertain	Positive
Inter-relationships			
<i>Maintain and improve the health of people, ecosystems and natural processes</i>	Negative	Uncertain	Positive
<i>Actively seek to integrate opportunities for environmental enhancement</i>	Negative	Uncertain	Positive

6.5 Preferred Alternative

From the above Table it can be seen that the comparative assessment of Alternatives shows that Alternative 3 provides for the most positive effects when assessed against the SEOS. This alternative provides for the promotion of development lands within the town centre for development and the designation of sequential areas where this type of development is considered appropriate in certain circumstances. It would also promote the development of neighbourhood centres to provide a level of retail services locally.

It acknowledges the need to consolidate Portarlington through the town centre revitalisation whilst helping to meet the key objectives of the LAP.

Therefore, the preferred alternative was developed by the planning team and others having regard to the key requirements of:

- Environmental effects identified through the SEA consideration of alternatives;
- Objectives of the Portarlington LAP including social and economic effects of the development, and
- National Policy documents.

By complying with appropriate mitigation measures - including those which have been integrated into the LAP - potential adverse environmental effects which could arise as a result of implementing this scenario would be likely to be avoided, reduced or offset.

7 Assessment of Significant Effects

7.1 Introduction

The purpose of this section of the Environmental Report is to predict and evaluate as far as possible the environmental effects of the LAP.

SEA is an iterative process and the LAP has taken consideration of environmental issues raised during the SEA process to date. These issues have been incorporated into the Draft LAP and the principal purpose of this chapter is to discuss the evaluation of these. The discussion of likely impacts is grouped around each of the following environmental parameters as described in Chapter Four.

- Population & Human Health
- Biodiversity, Flora & Fauna
- Water
- Soil & Geology
- Climatic Factors and Climate change
- Cultural Assets
- Material Assets
- Landscape
- In-combination and cumulative effects.

The individual evaluation of relevant requirements contained in the LAP is presented in Annex A. The identification of impacts through the evaluation matrix and discussion of significant impacts detailed below, in turn informs the development of mitigation measures presented in Chapter Eight, Mitigation Measures. The table below identifies the significant environmental issues that were identified for all alternatives considered through the SEA process.

7.2 Population and Human Health- Significant Effects.

Landuse planning impacts on the everyday lives of people and can either hinder or help promote healthy sustainable environments and communities. For example the provision of safe walking routes, cycle-ways, parks, playgrounds, safe routes to school, public transport facilities, etc. result in direct and indirect health benefits and allow for healthier transportation choices to be made by communities above private motor car. Both the Key Plan objectives and those included in *Movement and Transport such as TM09 and TM 010* create positive direct effects on this parameter due to promotion and design of pedestrian and cycle friendly movement. The zoning of lands, and promotion of employment opportunities (*Economic Development Strategic Aim* and *EE05* for example) and services in the town also will contribute to reduced commuting patterns if successfully implemented; in turn this gives rise to positive interactions with Population and Human health SEOs.

The LAP emphasises the need to integrate landuse and transportation. It supports town centre viability, and focuses on infill and backlands redevelopment as well as reuse of existing buildings.

The maintenance, protection and enhancement of water quality are important and are closely allied to human health generally. The LAP provides for phased development with

infrastructure provided in advance; see *Key Infrastructure* Strategic Aims and policies such as *KI P2* and *KI P3*. An additional mitigation measure is recommended for *KI P6* to reflect the Scoping Recommendation from the EPA. The provision of buffer zones for watercourses as detailed in Objective *NH010* will help protect riparian zones and water quality.

The promotion of sustainable development by balancing complex sets of environmental, social and economic goals in planning decisions can deliver positive effects for population and human health. The LAP promotes the town centre, brownfield development, integrated transport and landuse and environmental enhancement measures. Overall, the LAP is likely to improve the status of the SEO's on population and human health.

7.3 Biodiversity, Flora and Fauna- Significant Effects

The promotion of compact, sustainable settlements, reuse of existing buildings and infill sites, integrating landuse and transport, green and blue infrastructure, ecological corridors and buffer zones for watercourses all strengthen overall protection of biodiversity resources and the Biodiversity SEOS.

Particular measures identified as generating positive effects on Biodiversity SEOS include, buffer zones for water courses (*NH 010*) which allows for 30 to 50m for greenfield lands, protection of designated natural heritage sites (*NH P1*) and Green Infrastructure (*NH P3*).

Infrastructure has the potential to generate adverse impacts on biodiversity, with key potential impacts relating to disturbance, disruption, fragmentation and loss of habitats. However, the focus on infill lands, reusing existing buildings and identification of town centre Opportunity Sites, reference to relevant guidelines, and promotion of green/blue infrastructure and buffer zones does assist in reducing the overall adverse impacts and many impacts are identified as being addressed through recommended mitigation.

Indirect and cumulative impacts are identified for biodiversity in the event of damage to soil and water resources associated with development activities. Water pollution or surface water run off could give rise to negative effects on water quality and rivers within the lands with subsequent adverse effects on biodiversity. Potential landuse activities close to the River Barrow SAC may give rise to disturbance to habitats and species.

Flood risk and flood events remain a challenge for the LAP and adverse effects can arise in the event of extreme flooding through soil contamination, inundation of soil and increased siltation of surface waters.

Therefore, a number of mitigation measures are recommended for the above. Mitigation measures are recommended for a number of policies and objectives to further enhance biodiversity protection including *NH06* as well as for a number of the Opportunity Sites.

7.4 Water - Significant Effects

Potential effects on water resources (and frequently biodiversity) in the absence of mitigation include:

- A reduction in water quality in groundwater, springs and watercourses associated with the construction phase of new developments (short to medium term impacts);
- Surface water runoff from impermeable surfaces leading to reduced water quality in groundwater springs or surface waters affecting qualifying habitats and species downstream (impacts can range from short to long term);
- Changes in the flow rate of watercourses arising from an increased footprint of impermeable surfaces within the Plan area - increasing the extent of impermeable surfaces will result in a decrease in infiltration and an increase in runoff;
- Inadequate wastewater treatment resulting in pollution of groundwater springs or surface watercourses;
- Generally, landuse practices can result in water quality impacts and whilst surface water impacts may be identified quickly, impacts to groundwater can take much longer to ascertain due to the slow recharge rate of this water resource;
- Interruptions in hydrological regimes, particularly in wetlands that can have direct impacts on biodiversity, and
- Water quality impacts can also have human health impacts in the case where bacterial or chemical contamination arises.

The LAP includes a range of provisions and measures to address and minimise the above effects, including:

- Green and blue infrastructure, buffer zones for watercourses (*NH010*), invasive species control measures (*NH013*) as detailed in the *Natural Heritage chapter*. More positive, long term impacts are associated with these measures.
- The recognition of the Water Framework Directive and roles and responsibilities for same, currently act as a key driver toward long term positive impacts for water quality and water management generally;
- The requirement for Sustainable urban Drainage systems (SUDs), green and blue infrastructure and flood risk management also create positive effects on Water SEOs.
- By encouraging infill development, and reuse of existing buildings, the potential for increased greenfield land requirements are reduced; though not fully avoided.
- The delivery of critical infrastructure (including water and wastewater services) in tandem with built development is also supported through this LAP; this will allow for a phased and managed approach to service delivery and capacity of WWTP in the plan area.

Notwithstanding the above provisions that will minimise adverse effects, at LAP level Infrastructural and built development may adversely affect water resources due to potential impacts on water quality; to provide for greater protection of water resources, additional mitigation measures are recommended.

7.5 Soil and Geology - Significant Effects

Soil quality and function may be enhanced through particular measures associated with water quality and landuse and achieving the Water Framework Directive Objectives. The quality of groundwater is directly related to soil quality and landuse, and abstraction of geological and soil resources can also affect the water table over time.

The most significant potential soil and geology effect identified relates to new built development on greenfield lands. Soil sealing and increased risk of surface run off are

addressed largely by identification of brownfield opportunity sites; also reuse of existing buildings creates positive effects for Geology and Soil SEOs. Additional measures in relation to control and management of invasive species, (*NH013*) will assist in addressing and controlling this effect.

7.6 Climatic Factors and Climate Change - Significant Effects

Overall the LAP will contribute positively to climate change adaptation through the following:

- Integration of land use and transport (Transport and Movement Strategic Aim and *TM 07* and *TM 08*).
- Promotion of public and non- vehicular transport (*TM06*);
- Design measures to enhance walking and cycling around the LAP (*TM 05* and *TM 08*);
- Interventions to reduce carbon emissions for the N80 (*TM 07*)
- Blue and green infrastructure giving rise to increased surface water storage and potential carbon sequestration (*NH 03*)
- Retention of hedgerows (*NH 06*) and provision of new planting regimes to further enhance carbon sinks (existing and new),
- Reuse of existing buildings (*TCR 04*) and infill/brownfield development (identification of Opportunity Sites and *TCR 03*), and
- Longer term positive effects in relation to air quality, population and human health and water.

It is noted that the majority of the population of Portarlinton lives within 1.5km of the town centre, combined with the Derryounce lakes, and railway station, long term modal shifts can be encourage through the implementation of walking and cycling policies.

7.7 Cultural Assets - Significant Effects

Overall the impacts of the LAP are long term and positive in relation to cultural heritage due to the recognition of the value of cultural heritage and the range of cultural heritage features including built heritage, natural heritage and landscapes.

Potential cultural heritage impacts arise once more in relation to built development, though existing development management control and policies/objectives of the LAP will ensure sufficient protection and oversight.

The *Built Heritage* Chapter contains specific measures to minimise adverse effects and promote reuse of architectural features for example: *BH01* to *BH014* and policies *BHP1* and *BHP2*. In addition to protected built heritage, the promotion of town centre (Town Centre revitalisation strategic aims, objectives and policies), use of existing buildings (*TCR P2* addresses the Market house) and addressing vacant sites (*TCR 04*) and (*HO 05*, *HO 08* and *HO 09*) all contribute to positive longer term effects on Cultural heritage SEOs.

7.8 Material Assets - Significant Impacts

For transport, provisions including in the *Movement and Transport* chapter are of particular relevance. These are identified as generating positive impacts for a number of SEOs including population and human health, air quality and climate and sustainable transport.

Several transport measures (in particular public transport and walking and cycling) create positive impacts as they support more sustainable transport options with cumulative and in combination positive impacts relating to human health, biodiversity and air quality.

Objectives and policies which promote employment within the town, and key infrastructure developments support the Material Assets SEOs as they can promote more sustainable transport patterns in and around the LAP and help counter commuting patterns to Dublin.. Examples include *Economic Development Strategic Aim, EE 01, EE 02, KI 01 and KI P1 and KI P2*. Other policies and objectives supporting community and educational facilities (*CSC 02 and CSC P4*) and can promote a model shift for those living within and close to the lands; this generates positive direct permanent impacts for sustainable transport if it reduces car dependency and increases viability of public transport options. Indirect long term positive effects are identified for Population and Human health SEOs also.

Water supply and wastewater capacity and demands are addressed in conjunction with Irish Water. The key element in relation to this is ensuring the implementation of the LAP is in line with capacity to treat wastewater and water supply services. Policies and objectives in *Key Infrastructure* Chapter all strengthen and reinforce these issues by ensuring provision of critical services infrastructure on a plan led basis.

Additionally, provision is made in the LAP for water conservation measures including awareness raising (*KI P8*) and rainwater harvesting (*KI P9*).

Mitigation measures are recommended for a number of Key Infrastructure policies /objectives to strengthen environmental protection and align with plans such as the Water Framework Directive.

7.9 Landscape - Significant Effects

Green and blue infrastructure provisions as detailed in Natural Heritage and objectives such as *NH02*, as well as buffer zones and contribute to positive landscape effects associated with the implementation of the LAP. In particular, public realm key objectives (*TCR 01*) are very positive in relation to townscape and landscape SEOs as they address public realm enhancement.

Additional green and blue infrastructure measures and enhanced walking and cycling, as well as the reuse of existing buildings and vacant sites contribute positively to landscape parameters.

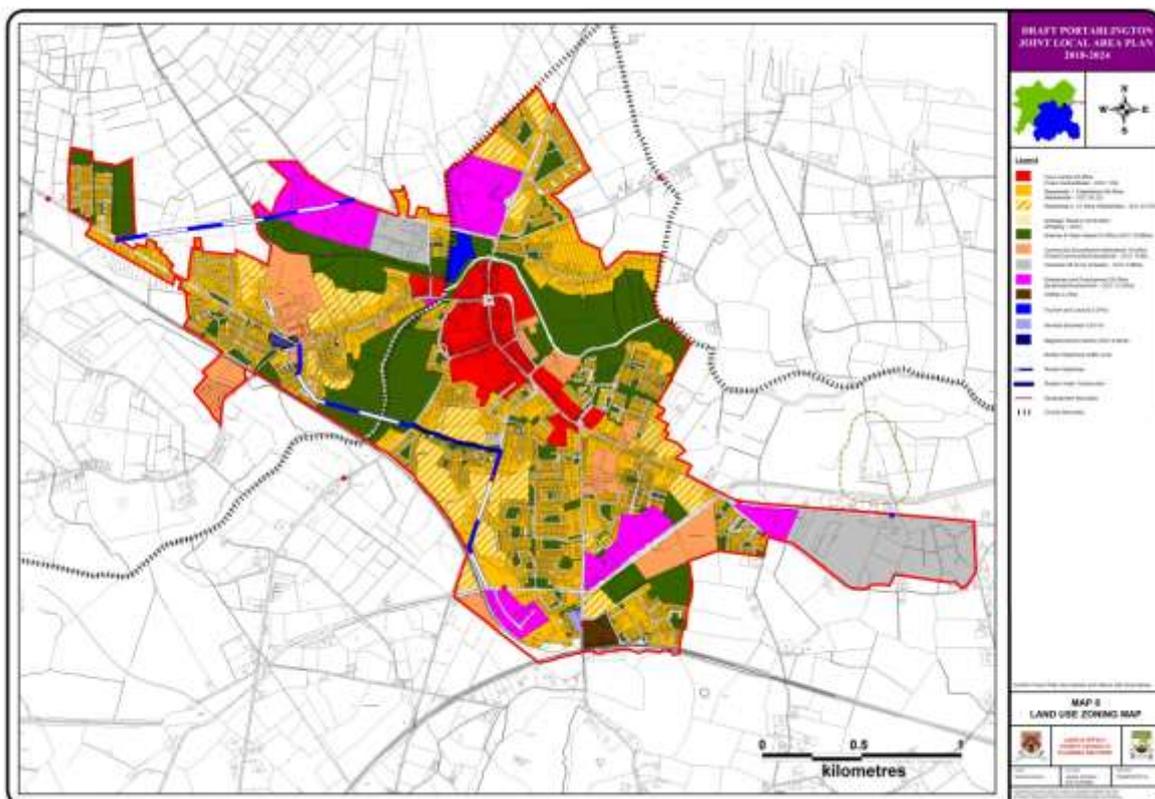
7.10 Landuse Zoning s-Significant Effects

The Table below presents the landuse zonings and amount of lands zoned, Lands zoned under the Offaly Plan area are listed in brackets.

Table 6 Landuse Zonings and Amounts

Landuse Zoning	Amount
Town Centre (Town Centre/mixed Offaly CDP)	25.95 (1.63)
Residential R1 –Established (Residential OCC)	99.49 (35.43)
Residential 2 (Residential OCC)	27.44 (8.157)
Strategic Reserve 2018-2024 (Phasing –OCC)	
Amenity and Open Space (OCC)	61.65 (32.88)
Community-Educational-Institutional (Public/Community/Educational)	16.26 (14.80)
Industrial (Industry-OCC)	28.32 (5.69)
Utilities	2.23
Tourism and Leisure	2.07
General Business	0.53
Neighbourhood Centre (OCC)	(0.62)

Figure 19 Landuse Zonings in the Portarlinton LAP 2018-2024



7.10.1 Discussion

The main elements of the draft Plan with the potential to result in such impacts relate to the zoning of development land-use in undeveloped sites close to or part of European Sites, the development of infrastructure and the pressures associated with the adequate supply of water throughout the lifetime of the Plan.

The general impacts (in the absence of mitigation measures) to the qualifying interests of European Sites associated with elements of the Plan will include:

- A reduction in water quality in surface waters associated with the construction phase of new developments, surface water runoff from impermeable surfaces and the use of the River Barrow as a tourist and amenity attraction.
- Inadequate wastewater (i.e. sewer) collection system resulting in pollution of surface watercourses and groundwaters.
- Unsustainable abstraction of water from surface and groundwaters leading to the drawdown of baseline water levels.
- Disturbance to qualifying habitats and species from increased human presence particularly associated with tourism and amenity activity on the River Barrow.

The Natura Impact Report that accompanies this SEA ER provides further information in relation to the above.

The following section discusses the impacts associated with each zoning proposed for the plan area.

7.10.2 Town Centre

The town centre zonings are concentrated in the existing centre of Portarlinton, confirming existing and established land uses and an area of 29.5ha are provided for within this zoning.

Whilst there is generally little greenfield land identified for this zoning, many of the town centre structures are established a considerable time so have a number of backlands or areas that could be expanded to the rear of the town centre. For much of this zoning, the lands are established urban areas; the main undeveloped land zoned town centre is these backland areas composed of grassland, or built surfaces. The exception to this is the area of undeveloped lands zoned for Town Centre northeast of the existing town centre, in an area bounded by the River Barrow, Spa Street and Church Lane. A review of aerial photography shows these lands to be agricultural farmland and is located partly within Flood Zone A.

The purpose of this zoning is:

- to enhance the vitality and viability of the town centre through the promotion of retail, residential, commercial, office, cultural, public facilities and other uses appropriate in the urban core.
- To prioritise the development of town centre lands in order to consolidate the development of the town.

- To encourage the use of buildings and backlands, in particular the full use of upper floors, preferably for residential purposes.

Subject to adherence and implementation of relevant policies and measures including *NH01, FM07 and FM08* positive impacts are identified for population and human health, material assets, Landscape, Cultural Heritage and Soil and Geology SEOs.

7.10.3 Residential Zonings

The Core Strategy for County Laois is set out under Section 2 of the Laois County Development Plan 2017 – 2023 and for County Offaly under Chapter 1 of the Offaly County Development Plan 2014 - 2020. Revised targets provide for growth to for growth to 8,567 persons in Portarlinton South (Laois) to 2023. For Portarlinton South (Laois), this equates to a projected requirement for an additional 271 households over the six-year period up to 2023. Meanwhile, 5 hectares of residential land has been allocated to facilitate the growth of Portarlinton North in the Core Strategy of the Offaly County Development Plan 2014-2020 which equates to an additional 174 persons.

The Draft Joint LAP identifies approximately 35.6 ha. of undeveloped residentially zoned land, located within and adjacent to established residential areas within the town. Over the lifetime of the Draft Joint LAP, priority for residential development should be given to the development of these lands to consolidate the built up area of the town.

Currently capacity exists in the Foul Sewer Network, Waste Water Treatment Plant and Public Water Supply the wastewater treatment plant has the capacity to cater for a population equivalent of 13,000. The River Barrow acts as the receiving waters for this plant.

However, extra capacity is required to implement the policies and objectives of this plan. All of the R2 landuse zoning identified in the plan is at a distance from the River Barrow, thus avoiding areas of flood risk and providing for a buffer zone for the River. These lands are broadly identified in the south west and south east of the plan area, adjacent to existing residential and/or open space.

Most of the impacts identified for residential development zones are identified as being mitigated at project level through development management. Positive impacts were identified for population and human health, plus a number of material assets such as flood risk and sustainable transport.

7.10.4 Amenity and Open Space

Large areas particularly adjacent to the River Barrow are zoned for open space in the Joint LAP. These reflect areas of flood risk and also provide a buffer area around the River Barrow as it flows through the town centre. Another large area of open space functions as a buffer

between the residential areas in the northwest of the plan area, and the existing industrial estate and lands zoned for Enterprise and Employment.

Other areas of open space relate to existing open green space associated with residential development. Potential Impacts identified with such zonings include disturbance to species through increased access and accompanying noise or human presence. The Objective for this zoning in the LCC plan is *to preserve, provide for and improve active and passive recreational open space*. Similarly under the OCC plan, landuse activities in this zoning are curtailed with a limited number of uses are open for consideration (outdoor playgrounds/open space being the only use permitted in principle).

Generally, impacts are positive for a range of parameters including soil and geology, population and human health, flood risk, water quality and landscape. The opportunities to enhance these areas through public realm improvements and/or green and blue infrastructure measures contribute positively longer term to biodiversity, water and climate change adaptation SEOs also.

7.10.5 Community/Educational/Institutional

These lands are largely concentrated close to the existing town centre and the Land use objective for this zoning is: *To protect and provide for local neighbourhood, community, ecclesiastical, recreational and educational facilities*.

This zoning confirms existing use commonly schools or churches and the large land use zoning in the southeast of the plan area at Bracklone relates to a primary school that has received planning permission.

Other undeveloped lands zoned for this use are close to the town centre where possible to facilitate and promote town/village centre viability and easy access to these facilities for inhabitants of the town.

Again on undeveloped lands, negative impacts are identified for biodiversity and soil due to development on greenfield sites, but for many SEOs these can be mitigated through development management and relevant policies and objectives in the draft Plan. Positive impacts are identified for population and human health, transport and air quality for these zonings.

7.10.6 Industrial

28.32 ha are zoned for Industrial use. This in part reflects the historical land uses within the town, as well as confirming existing industrial land use, for example in the northwest of the plan area at Portarlinton Industrial Estate.

The largest area for this zoning relates to the area between the R420 and Lea Road, in the southeast of the plan area. This is currently under use as an Industrial Estate and the land use zoning covers an area adjacent to this existing land use. A review of aerial photography

shows that this undeveloped land is characterised by improved agricultural grassland with hedgerow boundaries and a central area comprising forestry including some broadleaf species. At its closest this undeveloped land is located 600m south of the River Barrow; however, buffering from the river is provided by the existing R420 in addition to agricultural lands.

Mitigation measures in the plan relating to retention of hedgerows, additional tree planting and green infrastructure should be considered in relation to development on these lands.

The range of impacts will vary according to the potential use; however for most of the SEOs, the impacts are considered to be addressed through mitigation at development management level.

7.10.7 Enterprise and Employment

Five areas are zoned for this land use (Business and Employment in OCC CDP); These are all located on the perimeter of the town boundary and the objective of this zoning is *To accommodate commercial and enterprise uses that are incapable of being situated in a town centre location, including low input and emission manufacturing, campus style offices, storage uses, wholesaling and distribution, commercial services with high space and parking requirements.* Business Park type development shall be provided in high quality landscaped campus style environments, incorporating a range of amenities.

Two large areas are zoned in the northern plan area, immediately west of the existing Industrial Estate and north east of the industrial estate. A review of aerial photography indicates the western lands are characterised by agricultural grassland, with a hedgerow network and field boundaries. At its closest the northwest site is approximately 600m north of the River Barrow. The other areas under this zoning confirm existing land use and largely comprise built lands and artificial surfaces. One exception is a wedged shape area beside an existing industrial zoning on the R420.

The uses in this zone are likely to generate a considerable amount of traffic by both employees and service traffic. Sites should therefore have good vehicular and public transport access. The implementation of mobility management plans will be required to provide important means of managing accessibility to these sites.

Subject to implementation of appropriate mitigation measures, no significant adverse effects are identified for this zoning.

7.10.8 Utilities

One area in the LAP is zoned for utilities and this relates to the lands adjacent to Portarlinton Railway Station for car parking. This confirms an existing land use.

7.10.9 Tourism and Leisure

One area of the town is zoned for this landuse and covers an area of 2.07 ha. It is opposite the River Barrow from the town centre, and is between 18 -21m from the River Barrow. However, provision is made within the plan for a minimum buffer of 30-50m from the river. The objective of this zoning is *to provide for and improve tourist amenities.* The purpose is to meet with the needs of tourists and visitors to the town. Uses such as tourist

accommodation of all types and ancillary services associated with the Derrynounce Lakes and Trails and the River Barrow, such as a trailhead building, heritage museum, food and beverage establishments and increase parking will be encouraged within this land use zone.

A review of aerial photography shows these lands are characterised by improved agricultural grassland, an area of mixed woodland forms a distinct habitat at the eastern boundary and a mature treelines from a riparian buffer is present along the River Barrow, south of these lands.

In the absence of mitigation, this zoning could give rise to adverse effects on the River Barrow and Nore SAC; however, existing policy provision in the LAP including Key Plan Objectives (*Numbers 7 and 8*), as well as other measures including *NH01* are identified as providing sufficient protection. Moreover, green and blue infrastructure measures may also be integrated within this landuse zonings and offer longer term positive effects on Biodiversity, and Water SEOs in relation to potential ecological connectivity to the Derrynounce lakes.

7.10.10 General Business

A small area of 0.53ha is zoned for General Business. The objective of this is: *To provide for and improve commercial activities.*

These lands are in the southern part of the plan area close to the Railway Station. They correspond to existing landuse activities. No interactions with SEOs are identified.

7.11 In-combination and cumulative significant effects

This section of the Environmental Report provides an outline of the potential cumulative effects on the environment as a result of implementation of the LAP. Figure 19 in Chapter Four presented overall environmental sensitivity mapping for the LAP.

Cumulative effects are referred to in a number of SEA Guidance documents and are defined in the EPA Sea Process Checklist as *“effects on the environment that result from incremental changes caused by the strategic action together with other past, present and reasonably foreseeable future actions. These effects can result from individually minor but collectively significant actions taking place over time or space”*¹⁰ These effects can be insignificant individually but cumulatively over time and from a number of sources can result in the degradation of sensitive environmental resources. The assessment of cumulative effects is a requirement of the SEA Directive (2001/42/EC).

The 2004 Guidelines produced by the DECLG outlines that the SEA process is in a good position to address cumulative effects for which the Environmental Impact Assessment process is not equipped to deal with. Due to the strategic nature of the SEA process a forum is provided in which cumulative effects can be addressed. The EPA is presently undertaking a study in relation to cumulative effects and it is anticipated that a draft Cumulative Effects – Best Practice Guidance Document will be available soon to SEA practitioners.

The EPA Strive Report 2007-2013 on ‘Integrated Biodiversity Impact Assessment’ describes cumulative effects as incremental effects resulting from a combination of two or more

¹⁰(EPA SEA Process Checklist (2011)).

individual effects, or from an interaction between individual effects – which may lead to a synergistic effect (i.e. greater than the sum of the individual effects), or any progressive effect likely to emerge over time.

The SEA ERs of the Laois CDP 2017-2023 and Offaly CDP 2014-2020 provided a cumulative assessment of national level plans and programmes as they relate to the CDP; as these are more appropriately assessed at County level, they are not included within this cumulative impact assessment; rather the focus is on regional/locals plans and projects, as these are considered to be the most appropriate scale and potential relevance to the plan area and zone of influence.

7.11.1 Potential cumulative effects from other plans and projects

Table 7 Potential cumulative and in combination effects

Plan	Comment	Cumulative effects
Water Services Strategic Plan	Ireland's first integrated national plan for the delivery of water services, the Water Services Strategic Plan (WSSP) addresses six key themes and was adopted in 2015. It was subject to full SEA and AA and concluded that Overall, the assessment has identified that the implementation of the draft WSSP is likely to have positive effects on the majority of the SEOs that have been used in the assessment to help characterise the environmental effects of the WSSP and no significant negative effects were identified.	No in-combination impacts were predicted as a result of implementation of the Plans
Neighbouring County Development Plans	These plans were subject to full SEA and AA and concluded that subject to full adherence and implementation of measures likely significant effects were not identified. The Offaly CDP 2014-2020 is of particular relevance and this LAP has been prepared in conjunction with Offaly County Council.	Regarding Offaly CDP 2014-2020, this plan has been prepared in conjunction and is a Joint LAP. Potential effects have been assessed through the SEA process of this Portarlinton Joint LAP.
River Basin District Management Plans.	The second cycle of these plans (2015 to 2021) are currently in preparation and will provide management measures to achieve WFD Objectives upto 2021. This plan is undergoing both SEA and AA and is in draft form.	No in-combination impacts are predicted as a result of implementation of the Plans
CFRAMS Study	The Eastern CFRAM study has been commissioned in order to meet the requirements of the Floods Directive, as well as to deliver on core components of the 2004 National Flood Policy, in the Eastern district.	Flood Risk Management is being addressed in the LAP and in conjunction with the OPW. No adverse effects identified.
Laois Local Economic and Community Plan 2016-2021	The plan supports a range of high level goals, actions and objectives. It was subject to SEA and AA Screening, and was developed with support from the Forward Planning Section.	The plan is consistent with the CDP and no adverse in combination or cumulative effects are identified.
Laois Heritage Plan 2014-2019	Key objectives as follows: Objective 1: Increase understanding of the heritage of Laois	Positive interactions with SEOs in relation to this plan; no adverse

Plan	Comment	Cumulative effects
	<p>Objective 2: Record the heritage of Laois</p> <p>Objective 3: Protect and promote active conservation of the heritage of Laois</p> <p>Objective 4: Promote community participation in heritage plans and projects and</p> <p>Objective 5: Promote enjoyment and accessibility of heritage sites</p>	cumulative effects identified.
<p>Offaly County Heritage Plan 2017-2023</p>	<ul style="list-style-type: none"> • Offaly County Council Heritage related projects such as 1916/2016 Centenary Commemorations and the follow on programme Creative Ireland; management of key county sites such as Durrow and Clonmacnoise, public realm plans and ongoing projects as they arise. • Partnering with local communities and societies working on heritage projects, ranging from the Tidy Towns network to Historical Societies. • Heritage and Tourism – making sites accessible and improving signage and information including inputs to www.visitoffaly.ie • Developing a County Archive Service in partnership with Offaly History, the Library Service and private owners. • Medieval churches/Monastic Site conservation of the structures, management plans and access (these sites are predominantly in Offaly County Council ownership) • Publications – commissioning of and assisting with publications, specifically Offaly Castles and demesne landscapes which are currently in preparation. • Biodiversity - promotion of the National Pollinator Plan, submitting records to the National Biodiversity Data Centre and control of invasive species with particular focus on Japanese and Himalayan knotweed and Himalayan Balsam. • Access to heritage - coordinating and management of events such as Heritage Week, Offaly Naturalists’ Field Club, Annual Offaly Heritage Seminar and awareness of Offaly’s heritage through all appropriate means. 	Positive effects associated with this plan particularly as they relate to awareness raising, biodiversity and alien invasive species.
<p>Offaly Local Economic and</p>	<p>Strategic goals are as follows: Employment, Enterprise and Innovation</p>	The LECP was subject to SEA and AA Screening and a

Plan	Comment	Cumulative effects
Community Plan	<p>Education, Training and Skills</p> <p>Tourism and Promoting Place</p> <p>Local and Community Development</p> <p>Green Energy and Sustainable Living</p> <p>Empowering Communities</p>	<p>finding of no likely significant effects was determined. Should landuse activities arise from these LECPS they will be subject to development management as detailed in the Offaly CDP 2014-2020.</p> <p>No adverse in combination or cumulative effects identified.</p>
Irelands Ancient East and Laois Tourism Strategy 2018-2023	<p>A range of proposed actions and projects and targets in terms of aligning with the Ancient East and increasing tourism numbers form part of this strategy. Key project identified for Portarlinton relates to the Laois Town Experience Product - The identification of a strong theme built on a rich bank of heritage and stories associated with the towns. The subsequent phases will focus on engaging the local tourism industry and communities to build on the opportunity it can present. For Portarlinton this would relate to the links and associations of the French Huguenots.</p> <p>A secondary objective relate to promoting the Slieve Blooms and Barrow Blueway potential.</p>	<p>The Town Experience product is not identified as giving rise to adverse in combination /cumulative effects.</p> <p>Proposals on the Barrow and relating to the Slieve Bloom if they were to significantly increase disturbance along these habitats may give rise to adverse in combination effects. However, the provisions of the Laois CDP 2017-2023 are considered appropriate to address any potential in combination effects at this juncture. Policies TRANS 06 and NHO8 apply in particular.</p>
Barrows Blueway Project	<p>This project is a proposed Blueway along the Barrow Line traversing Counties Laois, Kildare and Carlow. Carlow CC have refused the planning application whilst Laois and Kildare County Councils have approved subject to conditions.(Laois CC Planning Reference: 1737) The route does not extend to Portarlinton as part of these applications. Approximately 16km is within County Laois.</p> <p>Submissions from the Department of Arts, Heritage and the Gaeltacht notes the following potential</p>	<p>It is not considered at this stage that likely significant adverse effects relating to the River Barrow as it traverses Portarlinton are likely as the project relates to the River downstream and some distance from the LAP boundary.</p>

Plan	Comment	Cumulative effects
	adverse effects: Reduction in water quality Loss of habitats Disturbance to habitats and species.	

8 Mitigation Measures

8.1 Introduction

This chapter outlines the mitigation measures that will prevent, reduce, and offset as much as possible any significant adverse effects on the environment of the plan area resulting from the implementation of the LAP. Section (g) of Schedule 2B of the SEA Regulations (as amended) requires: *‘The measures envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the Plan’.*

Mitigation involves ameliorating significant negative effects. Where the environmental assessment identifies significant adverse effects, consideration is given in the first instance to preventing such impacts or where this is not possible, to lessening or offsetting those effects. Mitigation measures can be generally divided into those that:

- Avoid effects;
- Reduce the magnitude or extent, probability and/or severity of effect;
- Repair effects after they have occurred, and
- Compensate for effects, by balancing out negative impacts with positive ones.

The iterative process of the policy making of the LAP preparation has facilitated the integration of environmental considerations into the LAP. In addition, potential positive effects of implementing the LAP have been and will be maximised and potential adverse effects have been and will be avoided, reduced or offset.

Many impacts will be more adequately identified and mitigated at project and EIA level. In general terms, all proposals for development will be required to have due regard to environmental considerations outlined in this Environmental Report and associated assessments including the Screening for Appropriate Assessment/Natura Impact Report, Strategic Flood Risk Assessment. Proposals for development which are deemed contrary to the environmental objectives contained in the Laois CDP 2017-2023, Offaly CDP 2014-2020 and Portarlington LAP 2018-2024 will not normally be permitted, and if permitted, not without the appropriate site and development specific mitigation measures.

There were also a number of policies/objectives associated with the LAP that were identified as potentially generating significant adverse impacts on the environment, and suggested rewording of these proposals are put forward for consideration and recommended for inclusion in the draft LAP.

This chapter is structured as follows:

- 8.2 Environmental Protection Measures in the Laois County Development Plan 2017-2023 and Offaly County Development Plan 2014-2020.
- 8.3 Mitigation measures –amendment of text in the Portarlington LAP

8.2 Existing Environmental Policies and Objectives in the Laois County Development Plan 2017-2023

Ref	Text
CS13	Contribute towards compliance with EU Directives - including the Habitats Directive (92/43/EEC, as amended), the Birds Directive (2009/147/EC), the Environmental Impact Assessment Directive (85/337/EEC, as amended) and the Strategic Environmental Assessment Directive (2001/42/EC) – and relevant transposing Regulations.
CS14	Ensure that lower levels of decision making and environmental assessment consider the sensitivities identified in the SEA Environmental Report that accompanies the Development Plan, Laois County Development Plan 2017-2023
CS15	Assess proposals for development in terms of, inter alia, potential impact on existing adjacent developments, existing land uses and/or the surrounding landscape. Where proposed developments would be likely to have a significant adverse effect on the amenities of the area through pollution by noise, fumes, odours, dust, grit or vibration, or cause pollution of air, water and/or soil, the Council shall ensure the introduction of mitigation measures in order to eliminate adverse environmental impacts or reduce them to an acceptable operating level.
CS10	Provide for active and efficient use of derelict sites, vacant premises, neglected lands, disused (brownfield) or underused lands that are zoned and served by existing public infrastructure and facilities, to consolidate the urban form, improve streetscapes, support housing delivery and smarter travel as well as strengthen the vitality and vibrancy of urban areas, by way of the development management process and other mechanisms including the imposition of levies under the Urban Regeneration and Housing Act 2015 and Derelict Sites Act 1990, the preparation of opportunity site briefs and the consideration of incentives in the preparation of Development Contributions Scheme(s).
CS11	Encourage the re-use of the existing building stock in an appropriate manner in line with standard conservation principles and the Council's policy on sustainable development in order to integrate proposed development into the existing streetscape and to reduce potential construction and demolition waste.
NRA 1	Encourage and facilitate, in consultation with relevant stakeholders, the development of green infrastructure that recognises the synergies that can be achieved with regard to the following: i. Provision of open space amenities; ii. Sustainable management of water; iii. Protection and management of biodiversity; iv. Protection of cultural heritage; v. Protection of protected landscape sensitivities
ECN13	Direct labour intensive enterprises to town centre/edge of centre locations and brownfield sites and favour brownfield sites over greenfield sites for general enterprise development in the interests of sustainability and orderly development
ECN17	Seek to provide opportunities for highly-skilled outbound commuters to work locally through local employment opportunities, tourism opportunities, the development of an e-working centre or working-from-home arrangements facilitated by high-speed broadband in the

Ref	Text
	interests of sustainable economic development, smarter travel and quality of life considerations
EC 18	Support community initiatives to foster stronger engagement between commuters and their local towns and villages
ECN21	Encourage the maintenance of town/village centre buildings and improve the quality of the public realm in town/village centres making them more attractive and safe to locals and visitors, as well as more pedestrian and cycle-friendly. Prepare Public Realm Strategies, where appropriate, liaising closely with residents, visitors and other relevant stakeholders
TRANS6	Ensure that all proposed plans or projects relating to transportation (including walking, cycling, rail, bus and roads) and any associated improvement works, individually or in combination with other plans or projects, are subject to Appropriate Assessment Screening to ensure there are no likely significant effects on the integrity (defined by the structure and function) of any Natura 2000 site(s) and that the requirements of Articles 6(3) and 6(4) of the EU Habitats Directive are fully satisfied. Where the plan or project is likely to have a significant effect on a Natura 2000 site, or there is uncertainty with regard to effects, it shall be subject to Appropriate Assessment. The plan or project will proceed only after it has been ascertained that it will not adversely affect the integrity of the site or where in the absence of alternative solutions, the project is deemed imperative for reasons of overriding public interest, all in accordance with the provisions of Articles 6(3) and 6(4) of the EU Habitats Directive.
PWS 1	Protect both ground and surface water resources and to work with Irish Water to develop and Implement Water Safety Plans to protect sources of public water supply and their contributing catchment
WS4	Work with IW on developing and upgrading the water supply schemes so as to ensure an adequate, resilient, sustainable and economic supply of piped water meeting targets in relation to quality as set out in the IWs WSSP is available for domestic, commercial, industrial, fire safety and other use for the sustainable development of the county in accordance with the settlement structure identified in this Plan. All Capital projects and programmes associated with the provision of water supply or wastewater and surface water treatment must be assessed in accordance with Article 6 of the Habitats Directive in order to avoid adverse impacts on Natura 2000 sites
WS30	Protect and develop, in a sustainable manner, the existing groundwater sources and aquifers in the County and control development in a manner consistent with the proper management of these resources, in accordance with the County Source Protection Zones
WS31	Ensure the protection of groundwater dependant Natura 2000 sites which rely on the continued supply of groundwater resources to secure the key environmental conditions that support the integrity of the site

Ref	Text
	and through the protection of groundwater standards as defined by the relevant River Basin Management Plan. Where no detailed Plan for protection of a specific source is available wastewater discharge will not be permitted within a radius of 300 metres of that source;
WS32	Ensure the protection of groundwater dependant Natura 2000 sites which rely on the continued supply of groundwater resources to secure the key environmental conditions that support the integrity of the site and through the protection of groundwater standards as defined by the relevant River Basin Management Plan. All Capital projects and programmes associated with the provision of water supply or wastewater and surface water treatment must be assessed in accordance with Article 6 of the Habitats Directive in order to avoid adverse impacts on Natura 2000 sites;
WS33	Consult as necessary with other competent authorities with responsibility for environmental management; Comply with the provisions of the Water Framework Directive 2000
WS34	
WS35	To assist and co-operate with the EPA and the Lead Authorities in the continued implementation of the EU Water Framework Directive
WS36	To ensure, through the implementation of the River Basin Management Plans and their associated Programmes of Measures and any other associated legislation, the protection and improvement of all drinking water, surface water and ground
FD1	Ensure that flood risk management is incorporated into the preparation of all local area plans through the preparation in accordance with the requirements of the Planning System and Flood Risk Management-Guidelines for Planning Authorities (DoEHLG 2009);
CC1	Support and facilitate the national objectives for climate adaptation and will work with the EPA, the Eastern and Midland Regional Assembly and adjoining planning authorities in implementing future guidance for climate change proofing of land use plan provisions as is flagged in the National Climate Change Adaptation Framework (DECLG, 2012);
CC2	Prepare a Climate Change Adaptation plan following the adoption of the Development Plan, in line with relevant Government guidelines;
ES1	Facilitate and promote the implementation of the Eastern-Midlands Regional Waste Management Plan 2015-2021 within its functional area
ES11	Promote the preservation of best ambient air quality compatible with sustainable development in accordance with the EU Ambient Air Quality and Cleaner Air for Europe (CAFE) Directive (2008/50/EC) and ensure that all air emissions associated with new developments are within Environmental Quality Standards as out in the Air Quality Standards Regulations 2011 (SI No. 180 of 2011) (or any updated/superseding documents)
ES18	Encourage the maintenance of dark skies in rural areas and limit light pollution in urban and rural areas
ES21	Ensure good soil quality throughout the county by requiring developments of a certain nature (as specified

Ref	Text
	in the relevant environmental legislation) to carry out assessments of the impact of the development on soil quality;
ES22	Recognise the significant impacts of land use, land use change and sludge generation and treatment in relation to carbon loss/stocks and recognise the function of soil assessment and management, carbon sinks, carbon sequestration and restoration of degraded lands in plan led settlement and development strategies;
EN4	Promote and encourage the development of energy from renewable sources such as hydro, bio-energy, wind, solar, geothermal and landfill gas subject to compliance with normal planning and environmental criteria and the development management standards contained in Section 8;
BH 6	Encourage the full use of Protected Structures, subject to the compatibility of the use with the character of the Protected Structure
BH11	Consider favourably development proposals within an ACA that would either preserve or enhance the special character or appearance of the ACA. In considering applications for changes of use, the Council will be concerned with maintaining the character of that area.
ARCH5	Ensure protection of Zones of Archaeological Potential, as identified in the Record of Monuments and Places;
BIO1	Comply with the objectives of the National Biodiversity Plan 2011-2016 (and any future National Biodiversity Plan which may be adopted during the period of this plan) as appropriate to County Laois;
BIO2	Contribute, as appropriate, towards the protection of designated ecological sites including candidate Special Areas of Conservation (cSACs) and Special Protection Areas (SPAs); Ramsar Sites; Wildlife Sites (including Natural Heritage Areas, proposed Natural Heritage Areas and Nature Reserves); Salmonid Waters; Flora Protection Order sites; and Freshwater Pearl Mussel catchments (the River Nore Freshwater Pearl Mussel sub-basin management Plan should be referenced in this regard);
NH08	All projects and plans arising from this plan ¹⁸ (including any associated improvement works or associated infrastructure) will be screened for the need to undertake Appropriate Assessment under Article 6 of the Habitats Directive. A plan or project will only be authorised after the competent authority has ascertained, based on scientific evidence, Screening for Appropriate Assessment, and a Stage 2 Appropriate Assessment where necessary, that: <ol style="list-style-type: none"> 1. The Plan or project will not give rise to significant adverse direct, indirect or secondary effects on the integrity of any European site (either individually or in combination with other plans or projects); or 2. The Plan or project will have significant adverse effects on the integrity of any European site (that does not host a priority natural habitat type/and or a priority species) but there are no alternative solutions and the plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature. In this case, it will be a requirement to follow procedures set out in legislation and agree and undertake all compensatory

Ref	Text
	<p>measures necessary to ensure the protection of the overall coherence of Natura 2000; or</p> <p>The Plan or project will have a significant adverse effect on the integrity of any European site (that hosts a natural habitat type and/or a priority species) but there are no alternative solutions and the plan or project must nevertheless be carried out for imperative reasons for overriding public interest, restricted to reasons of human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest. In this case, it will be a requirement to follow procedures set out in legislation and agree and undertake all compensatory measures necessary to ensure the protection of the overall coherence of Natura 2000.</p>
<p>Key Environmental Protection Measures of the Offaly CDP 2014-2020</p>	
<p>Core Strategy</p>	<p>To ensure a high level of environmental protection ensuring the implementation of the policies and objectives of the plan through the observance of all legal requirements with regard to Strategic Environmental Assessment, Habitats Directive Assessment, Water Framework Directive and Floods Directive, as appropriate</p>
<p>CSP07</p>	<p>: Impact Assessments</p> <p>Ensure full compliance with the requirements of the EU Habitats Directive (92/43/EEC), SEA Directive (2001/42/EC) and EIA Directive 2011/92/EU and associated legislation/regulations, including the associated European Communities (Birds and Natural Habitats) Regulations 2011 (SI No. 477 of 2011), European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004-2011, Planning and Development (Strategic Environmental Assessment) Regulations 2004-2011 and the European Communities (Environmental Impact Assessment) Regulations 1989-2011 (or any updated/superseding legislation). Planning applications for proposed developments within the Plan Area that may give rise to likely significant effects on the environment may need to be accompanied by one or more of the following: an Environmental Impact Statement, an Ecological Impact Assessment Report, a Habitats Directive Appropriate Assessment Report or a Natura Impact Statement, as appropriate.</p>
<p>CSP08</p>	<p>: Natural Heritage, Landscape and Environment</p> <p>It is the policy of Offaly County Council, to support the conservation and enhancement of natural heritage and biodiversity, including the protection of the integrity of European sites, the protection of Natural Heritage Areas and proposed Natural Heritage Areas and the promotion of the development of a green/ecological network within the Plan Area, in order to support ecological functioning and connectivity, create opportunities in suitable locations for active and passive recreation and to structure and provide visual relief from the built environment. The protection of natural heritage and biodiversity, including European sites, will be implemented in accordance with relevant EU environmental directives and applicable national legislation, policies, plans and guidelines, including the following (and any updated/superseding documents):</p> <ul style="list-style-type: none"> • EU Directives, including the Habitats Directive (92/43/EEC), the Birds Directive (2009/147/EC codified version of Directive), the Environmental Impact Assessment Directive (85/337/EEC), the Water

Ref	Text
	<p>Framework Directive (2000/60/EC) and the Strategic Environmental Assessment Directive (2001/42/EC). • National legislation, including the Wildlife Act 1976, the European Communities (Environmental Impact Assessment) Regulations 1989 (SI No. 349 of 1989) (as amended), the Wildlife (Amendment) Act 2000, the European Union (Water Policy) Regulations 2003 (as amended), the Planning and Development Offaly County Development Plan 2014-2020 Chapter 1 Core Strategy, Settlement Strategy and Part V Housing Strategy September 2014 Page 19</p>
	<p>(Amendment) Act 2010 and the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011). • Catchment and water resource management plans, including the Shannon and Eastern River Basin District Management Plan 2009-2015. • Biodiversity plans and guidelines, including Actions for Biodiversity 2011-2016 and Ireland’s National Biodiversity Plan.</p>

8.3 Mitigation Measures-amendment of text

Additional text identified through the SEA process is included in **blue, bold** font.

LAP	Mitigation Measure	Included in LAP Yes/No
Key Plan Objectives Additional objective:	7. To require the preparation and assessment of all planning applications in the plan area to have regard to the information, data and requirements of the Appropriate Assessment Natura Impact Report, SEA Environmental Report and Strategic Flood Risk Assessment Report that accompany this LAP;	Yes
KI O10	Maintain, improve and enhance the environmental and ecological quality of surface waters and groundwater in accordance with the South Eastern River Basin District River Basin Management Plan/ National River Basin Management Plan for Ireland 2018-2021 (DHPLG) and associated Programme of Measures.	Yes
KI O11	Ensure developments will not adversely impact on the status of waterbodies in accordance with the Water Framework Directive and South Eastern River Basin District River Basin Management Plan; National River Basin Management Plan for Ireland 2018-2021 (DHPLG)	Yes
KI O12	Facilitate, promote and encourage the expansion and improvement of telecommunications, broadband, electricity and gas networks infrastructure subject to proper planning and sustainable development	Yes
KI P10	Co-operate with and facilitate the work of national telecommunications, broadband, electricity and gas network providers in the improvement, expansion and provision of energy and communication infrastructure subject to proper planning and sustainable development	Yes
NH O6	Carry out and require the planting of native trees, hedgerows and vegetation in all new developments;	Yes
NH O12:	Protect environmental quality and implement site appropriate mitigation measures with respect to air quality, greenhouse gases, climate change, light pollution, noise pollution and waste management;	Yes

9 Monitoring

9.1 Introduction

It is proposed, in accordance with Article 10 of the SEA Directive, to base monitoring on a series of indicators which measure changes in the environment, especially changes which are critical in terms of environmental quality, for example water pollution levels. Monitoring will focus on the aspects of the environment that are likely to be significantly impacted upon by the implementation of the LAP.

The targets and indicators are derived from the Strategic Environmental Objectives (SEOs) discussed in Chapter Five. The target underpins the objective whilst the indicators are used to track the progress of the objective and targets in terms of monitoring of impacts.

The monitoring programme will consist of an assessment of the relevant indicators and targets against the data relating to each environmental component. Similarly, monitoring will be carried out frequently to ensure that any changes to the environment can be identified.

9.2 Frequency of Monitoring and Reporting

Should new data or the following occur, additional monitoring will be required:

- pollution events associated with construction;
- boil notices on drinking water;
- 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 LAP

In turn the list below is subject to review at each reporting stage to reflect new data. Laois and Offaly County Councils are responsible for the implementation of the SEA Monitoring Programme including

- Monitoring specific indicators and identifying any significant effects, including cumulative effects;
- Collating the Environmental Reports (such as Environmental Impact Assessment Reports, Natura Impact Reports etc) submitted by developers in the LAP area.
- Reviewing the effectiveness of monitoring/mitigation measures during the lifetime of the LAP and
- Identifying any cumulative effects.

It is recommended that the monitoring report be made available to the public upon its completion.

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
Biodiversity Flora and Fauna 	B1: To ensure compliance with the Habitats and Birds Directives with regard to the protection of Natura 2000 Sites and Annexed habitats and species	Conservation status of habitats and species as assessed under Article 17 of the Habitats Directive	Maintenance of favourable conservation status for all habitats and species protected under National and International legislation to be unaffected by implementation of the plan	Internal monitoring of likely significant effects Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs report of the implementation of the measures contained in the Habitats Directive - as required by Article 17 of the Directive (every 6 years). Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs's National Monitoring Report for the Birds Directive under Article 12 (every 3 years). Consultations with the NPWS
	B2: To ensure compliance with Article 10 of the Habitats Directive with regard to the management of features of the landscape which - by virtue of their linear and continuous structure or their function act as stepping stones	B2: Percentage loss of functional connectivity without remediation resulting from development provided for by the Pla	No significant ecological networks or parts thereof which provide functional connectivity to be lost without remediation resulting from development provided for by the Plan	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant). CORINE mapping resurvey (every c. 5 years). Review of Council Ecological Network Mapping

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
	(designated or not) - are of major importance for wild fauna and flora and essential for the migration, dispersal and genetic exchange of wild species			
	B3: To avoid significant impacts on relevant habitats, species, environmental features or other sustaining resources in designated sites including Wildlife Sites and to ensure compliance with the Wildlife Acts 1976-2010 with regard to the protection of listed species	B3i: Number of significant impacts on relevant habitats, species, environmental features or other sustaining resources in designated sites including Wildlife Sites resulting from development provided for by the Plan B3ii: Number of significant impacts on the protection of listed species B3i	B3i: Avoid significant impacts on relevant habitats, species, environmental features or other sustaining resources in designated sites including Wildlife Sites resulting from development provided for by the Plan B3ii: No significant impacts on the protection of listed species	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant). Consultations with the NPWS
Population and human health Noise	PHH1: To protect populations and human health from	PHH1: Occurrence (any) of a spatially concentrated deterioration in human health	PHH1: No spatial concentrations of health problems arising from environmental factors as a	Consultations with EPA and Health Service Executive

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
	exposure to incompatible landuses including adverse noise and air quality impacts	arising from environmental factors resulting from development provided for by the Plan, as identified by the Health Service Executive and Environmental Protection Agency	result of implementing the Plan	
Water 	W1: To maintain and improve, where possible, the quality and status of surface waters	W1: 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)	W1: Not to cause deterioration in the status of any surface water or affect the ability of any surface water to achieve 'good status' ⁴⁷ by 2015	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant). Data issued under the Water Framework Directive Monitoring Programme for Ireland (multi-annual).
	W2: To prevent pollution and contamination of ground water	W2: Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC	W2: Not to affect the ability of groundwaters to comply with Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant). Data issued under the Water Framework Directive Monitoring Programme for Ireland (multi-annual)
	W3: To comply as appropriate with the provisions of the Planning System and Flood Risk Management: Guidelines for	W3: Number of incompatible developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk	W3: Minimise 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	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
	Planning Authorities (DEHLG, 2009)		for Planning Authorities	
Soil and Geology	S1: To avoid damage to the hydrogeological and ecological function of the soil resource	S1: Soil extent and hydraulic connectivity	S1: To minimise reductions in soil extent and hydraulic connectivity	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant).
	<i>S2: To maximise the sustainable re-use of brownfield lands, and the existing built environment, rather than developing greenfield lands.</i>	<i>Permission granted on Opportunity Sites</i> <i>% Occupancy of buildings in town centre</i>	<i>Number of Opportunity Sites developed over lifetime of the plan</i>	<i>Grant by grant</i>
Material Assets	M1: To serve new development with adequate and appropriate wastewater treatment	M1: Number of new developments granted permission which can be adequately and appropriately served with waste water treatment over the lifetime of the Plan	M1: All new developments granted permission to be connected to and adequately and appropriately served by waste water treatment over the lifetime of the Plan	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)
	M2: To serve new development with adequate drinking water that is both	M2: Number of non-compliances with the 48 parameters identified in the European Communities (Drinking Water) Regulations (No.	M2: No non-compliances with the 48 parameters identified in the European Communities (Drinking Water) Regulations	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant)

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
	wholesome and clean	2) 2007 which present a potential danger to human health as a result of implementing the Plan	(No. 2) 2007 which present a potential danger to human health as a result of implementing the Plan	
	M3: To reduce waste volumes, minimise waste to landfill and increase recycling and reuse	M3i: Total collected and brought household waste M3ii: Packaging recovered (t) by self-complying packagers	M3i: Minimise increases in and, where possible, reduce household waste generation M3ii: Maximise increases in packaging recovered (t) by self-complying packagers	EPA National Waste reports
Climate Change, Air Quality and Noise	C1: To reduce travel related emissions to air and to encourage modal change from car to more sustainable forms of transport	C1: Percentage of population travelling to work, school or college by public transport or non-mechanical means	C1: An increase in the percentage of the population travelling to work, school or college by public transport or non-mechanical means	CSO Population Data
	<i>C2: Ensure that the LAP proposals are adaptive to expected climate change patterns.in line with Local Authority Adaptation Strategy Development</i>	<i>Number of SUDs measures included and developed as part of planning applications. Number/extent of additional tree planting as part of planning applications.</i>	<i>An increase in extent of Blue and Green infrastructure linkages in plan area</i>	<i>Grants of permission</i>

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
	<i>Guidelines (EPA) as appropriate</i>			
Cultural Heritage	CH1: To protect archaeological heritage including entries to the Record of Monuments and Places and/or their context	CH1: Percentage of entries to the Record of Monuments and Places - including Areas of Archaeological Potential and Significance (and the context of the above within the surrounding landscape where relevant) - protected from significant adverse effects arising from new development granted permission under the Plan	CH1: Protect entries to the Record of Monuments and Places - including Areas of Archaeological Potential and Significance (and their context of the above within the surrounding landscape where relevant) from significant adverse effects arising from new development granted permission under the Plan	Grants of permission
	CH2: To protect architectural heritage including entries to the Record of Protected Structures and Architectural Conservation Areas and their context	CH2: Percentage of entries to the Record of Protected Structures and Architectural Conservation Areas and their context protected from significant adverse effects arising from new development granted permission under the Plan	CH2: Protect entries to the Record of Protected Structures and Architectural Conservation Areas and their context from significant adverse effects arising from new development granted permission under the Plan	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant). Consultation with Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs
Landscape	L1: To minimise significant adverse visual impacts within and adjacent to the County	1: Number of complaints received from statutory consultees regarding avoidable adverse visual impacts on the landscape resulting from development	L1: No developments permitted which result in avoidable adverse visual impacts on the landscape resulting from development which is granted	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant).

SEA Topic	Strategic Environmental Objectives	Indicator	Selected Target	Source (Frequency)
		which is granted permission under the Plan	permission under the Plan	
	<i>L2 To protect and enhance landscape character and quality within and adjacent to the LAP area.</i>	<i>Number of Opportunity Sites and interventions from A vision for Portarlinton 2014 implemented over lifetime of plan</i>	<i>Adherence to all principles in A Vision for Portarlinton 20140</i>	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant).
Interrelationships	<i>Maintain and improve the health of people, ecosystems and natural processes</i>	<i>Blue and Green Infrastructure measures implemented over lifetime of plan</i>	<i>Increased network of blue and green infrastructure achieved over lifetime of the plan</i>	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant).
	<i>Actively seek to integrate opportunities for environmental enhancement</i>	<i>As above</i>	<i>As above</i>	Internal monitoring of likely significant environmental effects of grants of permission (grant by grant).

9.3 Conclusion

This SEA Environmental Report demonstrates how environmental parameters have been addressed in the plan preparation process. Consultation has been undertaken for the Scoping of this Environmental Report and further opportunity to comment on the Draft Plan will be possible over the forthcoming weeks.

The SEA and Appropriate Assessment has been undertaken in line with the Planning and Development (Strategic Environmental Assessment) Regulations 2004 to 2011 (as amended). Subject to the full and proper implementation of the mitigation measures outlined in this SEA Environmental Report and the Joint Portarlington LAP 2018-2024 including detailed design at planning application stage, it is considered that significant adverse impacts on the environment will be avoided.

Annex A: Assessment Matrix of Portarlington LAP 2018-2024.

Additional text recommended through the SEA process is presented in **bold blue font**.

No likely interaction with /insignificant impact with SEOs	0	Potential conflict with SEOs – likely to be mitigated	↕
Likely to improve status of SEOs	↑		
Probable conflict with SEOs – unlikely to be mitigated	↓		

Portarlington LAP Policies and Objectives									
8 Strategic Vision To develop Portarlington as a sustainable low carbon settlement centred on a vibrant town centre, utilising the location strengths to attract employment and promote the unique settlement as an attractive town in which to work, live and play, while ensuring the protection of the unique built and natural heritage and managing flood risk”.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Key Plan Objectives									

Portarlington LAP Policies and Objectives									
<p>1. To support and facilitate sustainable intensification and consolidation of the town centre and in established residential areas;</p> <p>2. To promote balanced economic development and employment ensuring a diverse range of economic sectors are developed and supported;</p> <p>3. To support and facilitate development on zoned land based on the policies and objectives of the Laois County Development Plan 2017-2023</p> <p>4. To focus new residential development primarily into brownfield, infill and backland sites;</p> <p>5. To protect, conserve and enhance the built, natural and cultural environment, through promoting awareness, utilising relevant heritage legislation and promoting good quality urban design.</p> <p>6. To develop and improve flood alleviation measures throughout the town and rural hinterland.</p> <p>7. To require the preparation and assessment of all planning applications in the plan area to have regard to the information, data and requirements of the Appropriate Assessment Natura Impact Report, SEA Environmental Report and Strategic Flood Risk Assessment Report that accompany this Draft Joint LAP;</p> <p>8. To require projects to be fully informed by ecological and environmental constraints at the earliest stage of project planning and any necessary assessment to be undertaken, including assessments of disturbance to habitats and species , where required.</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>Comment: Objectives 7 and 8 in particular supports environmental assessments and measures arising from the SEA, AA and SFRA. Positive effects across all SEOs</p>									
Key Policies									
1. Implement the development strategies for Portarlington in order to be consistent with, and in accordance with policies of higher	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
tier plans;									
2. Support strategic enterprise and employment opportunities at other appropriate locations in Portarlington and environs, having regard to proper planning and sustainable development and relevant development control standards;	↑	↑	↑	↑	↑	↑	↑	↑	↑
3. Facilitate and promote Portarlington's role as a "Key Service Town" as designated in the MRPGs, the Laois County Development Plan 2017-2023 and the Offaly County Development Plan 2014-2020	↑	↑	↑	↑	↑	↑	↑	↑	↑
4. Monitor and manage the delivery of population and housing in Portarlington, in line with national, regional and county level objectives, through the development strategy in this plan and also through the development management process.	↑	↑	↑	↑	↑	↑	↑	↑	↑
5. Facilitate and support the provision of new, and expansion of existing services, facilities and community infrastructure.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Comment: Alignment with hierarchy of plans and policies, including core strategy and support Principal Town Designation in conjunction with policies of 2040 and Beyond are all consistent with SEOs.									
9 Economic Development: Strategic Aim: To promote, facilitate and enable economic development and employment generation activities in appropriate locations and in a sustainable manner	↑	↑	↑	↑	↑	↑	↑	↑	↑
It is an objective of both Laois and Offaly County Council to:									
EE O1: Support the work of the Local Enterprise Offices in performing their functions of facilitating enterprise and economic development, delivering local and regional initiatives through the Laois Local Economic and Community Plan 2016-2021, Offaly Local Economic and Community Plan 2016-2021 and the Midland Action Plan for Jobs and working with key national, regional, local, public and private stakeholders to support employment opportunities in Portarlington	0	↑	0	0	0	0	0	0	0
EE O2: Co-operate with Portarlington Community Development	0	↑	0	0	0	0	0	0	0

Portarlington LAP Policies and Objectives									
Association, IDA Ireland, Enterprise Ireland, the Laois Partnership Company and other agencies, organisation and individuals in promoting enterprise and employment in Portarlington;									
EE03:Identify infrastructural and service deficits experienced by existing businesses, and work towards addressing these deficits	0	↑	0	0	↑	0	0	0	
EE04:Promote existing space available in the town for the establishment of incubator units and start-ups	0	↑	0	↑	↑	↑	0	0	↑
EE05: Facilitate the development of employment generating enterprises within existing employment areas such as the town centre, Botley Lane, Portarlington Enterprise Centre and vacant commercial premises such as Avon	↑	↑	↑	↑	↑	↑	↑	↑	↑
EE06: Promote and encourage cultural development and creative industries	↑	↑					↑		↑
EE07: Promote and market Portarlington as a strong and competitive alternative location for business by highlighting distinctive attributes and characteristics;	↑	↑	↑	↑	↑	↑	↑	↑	↑
EE08:Ensure that buildings proposed in the Laois Business Park and Botley Lane in the future are of a high quality design;		↑				↑		↑	
EE09: Facilitate the development of the Derryounce Experience and Trails	↑	↑	↑	↑	↑	↑	↑	↑	↑
EE010: Facilitate development of an historical trail through Derryounce Bog and a Heritage Museum documenting the history of the bog, turf production in the area and the former location of the town's Power Station;	↕	↑	↕	↕	↑	↑	↑	↑	↑
EE011: Facilitate development of a green corridor connecting Derryounce Lakes and Trails, the River Barrow and The Peoples Park	↕	↑	↕	↕	↑	↑	↕	↑	↑
EO12: Support the development of a cycleway from Derryounce Lakes and Trails to Mount Lucas	↕	↑	↕	↕	↑	↑	↕	↑	↑
EE013 Support the provision of maps and signage for tourist facilities	0	↑	0	0	0	0	↑	0	0

Portarlington LAP Policies and Objectives									
at locations at Portarlington Railway Station, Market Square, Main Street, Patrick Street, River Barrow, Peoples Park and Derrycastle Lakes and Trails									
<p>EE014: Support the continued operation and reasonable development of existing non- conforming uses provided that such uses do not:</p> <ul style="list-style-type: none"> Result in a loss of amenity to adjoining properties; Cause an adverse impact on the environment; Cause an adverse impact on the visual amenity or character of the area; Inhibit the development of adjoining land in conformance with the land’s zoning objective. 	↑	↑	↑	↑	↑	↑	↑	↑	↑
Policies: It is the Policy of both Laois and Offaly County Council to:									
EEP1:Support sustainable employment and enterprise in Portarlington through the identification of appropriately located and adequately serviced lands for business/employment, industrial and commercial developments, the promotion of investment in transportation and other support infrastructure and the creation of a high quality environment to encourage economic investment	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP2:Protect employment zoned land from inappropriate development that would undermine future economic activity or the sustainable economic development and growth of the town;	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP3: Facilitate employment and enterprise development in the context of the role of Portarlington as a Key Service Town consistent with objectives of the core strategy set out in the Laois County Development Plan 2017-23 and the Offaly County Development Plan 2014-2020	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP4:Encourage appropriate development, works and supporting infrastructure that would contribute to a high quality and attractive	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
built and social environment in Portarlington to attract and sustain new business, residents and visitors									
EEP5: Encourage the establishment and expansion of services and facilities in the town at appropriate locations to facilitate the business needs of employment and enterprise developments and potential tourism needs like conference facilities, hotel, accommodation, eateries and other similar services	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP6: Work collaboratively and in partnership with other stakeholders in the pursuit of development that would contribute positively to the economic development of the town		↑			↑				
EEP7: Support and work with Bord Na Mona and other relevant agencies in the sustainable diversification of former industrial peatlands in the Garryhinch area to uses such as green energy, eco-tourism and water storage	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP8: Encourage the further development of the Portarlington third level institute as a centre of excellence for a range of education and research related uses;	0	↑	0	0	↑	0	0	0	0
EEP9: Work in conjunction with the town's third level institution and neighbouring institutions including NUI Maynooth and Athlone and Carlow ITs in the creation and fostering of enterprise and research and development	0	↑	0	0	↑	0	0	0	0
EEP10: Facilitate office development in commercial and employment centres	↑	↑	↑	↑	↑	↑	↑	↑	↑
EEP11: Continue to work with key stakeholders in the tourism industry including Waterways Ireland, Failte Ireland, Tourism Ireland, National Parks and Wildlife Service, in order to develop the overall tourist and economic potential of the town, with particular emphasis on the cultural heritage, River Barrow and Derrycastle Lakes and Trails;	↕	↕	↕	↕	↕	↕	↕	↕	

Portarlington LAP Policies and Objectives									
EEP12: Encourage and facilitate the sustainable development of the tourism potential of Portarlington in a manner that respects, builds on, protects and enhances the cultural, built and natural heritage of the town	↑	↑	○	○	○	○	↑	↑	
EEP13: Secure connectivity between Portarlington with county, regional and national cycle networks via former Bord na Mona rail-lines and to capture positive economic, social and cultural benefits associated with this connection	○↕	↑	○	○	↑	↑	○	○	○
EEP14: Where commercial and industrial enterprises exist as nonconforming but long-established uses, to support their continued operation and reasonable expansion, in accordance with the proper planning and sustainable development of the area.	○	↑	○	↑	↑	↑	↑	↑	↑
<p>Comment: Promotion of Town Centre development and objectives to enhance existing employment are positive in relation to MA, CC and PH SEOs in particular. Direct, long term positives in terms of reducing commuting patterns through increased economic activity and direct population and human health effects also relating to reduced commuting patterns for population of the town.(EEP1 and EEP6 for example). EE04 and EE 05 are are positive as they promote existing buildings in the town centre and contribute again to altering commuting patterns, , and contribute to town centre viability. Reuse of older structures indirectly contributes to townscape quality and character as promotes soil and geology SEOs as it represents reuse of existing buildings/brownfield. For other objectives such as EE P11 , potential effects can be addressed through existing mitigation measures</p>									
Town Centre Revitalisation									
It is the Policy of the Council to									
Town Centre Revitalisation: Strategy Aim: To support the sustainable long-term growth of Portarlington, in accordance with the Core and Retail Strategies of the Laois County Development Plan 2017 – 2023 and the Offaly County Development Plan 2014-2020.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Objectives:It is an objective of both Laois and Offaly County Council to									

Portarlington LAP Policies and Objectives									
TCR 01: Improve the quality, vitality and vibrancy of the town centre through the implementation of public realm improvements;	↑	↑	↑	↑	↑	↑	↑	↑	↑
TCR 02: Promote the town centre as a priority location for commercial, civic, social and cultural development and sustainable consolidation.	↕	↑	↕	↕	↑	↕↑	↕	↕	↑
TCR 03: Promote the consolidation of the town centre through the use of brownfield, infill and backland sites without compromising streetscapes	○	↑	○	↑	↑	↑	↑	↑	↑
TCR 04: Encourage and facilitate the appropriate reuse and regeneration of derelict, disused and vacant sites and prominent buildings including the Market House, the old cinema and Arlington House;	○	↑	○	↑	↑	↑	↑	↑	↑
TCR 05: Facilitate the redevelopment of strategic opportunity sites within the town centre for a mixture of uses that will contribute to vitality of the central core area	↕	↑	↕	↕	↑	↕	↕	↑	
TCR 06: Renew, consolidate and develop the existing fabric of the town by achieving a high quality of design in new development and refurbishments;	○	↑	↑	↑	↑	↑	↑	↑	↑
TCR 07: Ensure the type, quantum and location of future retail floor space is consistent with the requirements and recommendations of the Laois County Development Plan 2017-2023 and the Offaly County Development Plan 2014 - 2020, relevant regional policy frameworks and national planning guidelines	○	↑	○	↑	↑	↑	↑	↑	↑
TCR 08 Guide retail development, in accordance with the sequential approach to sustain and strengthen the town centre;	↕	↑	↑	↑	↑	↑	↑	↑	↑
TCR 09: Promote an appropriate mix of day and night time uses	○	↑		↑			↑	↑	↑
TCR 010: Create attractive and secure pedestrian and cycling links	↕	↑	○	↑	↑	↑		↑	
It is the Policy of both Laois and Offaly County Council to									

Portarlington LAP Policies and Objectives									
TCR P1 Encourage retail development within the existing town centre. Proposals which would undermine the vitality and viability of the town centre will not be permitted. The sequential approach to retail development set out in the “Retail Planning - Guidelines for Planning Authorities, 2012” will be strictly enforced.	↑	↑	↑	↑	↑	↑	↑	↑	↑
TCR P2: Facilitate the revitalisation of and promote the appropriate reuse of existing town centre buildings, such as the Market Square and old cinema;	↑	↑	↑	↑	↑	↑	↑	↑	↑
TCR P3: Prohibit the proliferation of uses in the town centre which would detract from the amenities of the area or the vitality and viability of the town centre;	○	↑	○	↑	↑	↑	↑	↑	↑
TCR P4: Promote living over the shop and conversion of town centre buildings into housing units;	↑	↑	○	↑	○↑	○	↑	↑	
TCR P5: Encourage the maintenance of original shopfronts, or the reinstatement of traditional shopfronts where poor replacements have been installed		↑	○	↑	↑	↑	↑	↑	
TCR P6: Ensure new shop fronts have regard to existing shop fronts and complement the existing character	○	↑	○	○	○	○	↑	↑	
TCR P7: Prohibit internally illuminated fascias or projecting box signs. Concealed strip or flood lighting of fascias and traditional hand painted signs lit by spotlight may be an acceptable alternative.	○	↑	○	○	○	○	↑	↑	
<p>Comment: Objectives cover a range of proposals which are broadly positive medium to long term, across all SEOS as they relate to town centre viability, public realm and walking and cycling. Town centre promotion supports Geology and Soil SEOs, as well as PHH, Landscape and modal shift to pedestrian/cycling. Policies promoting Town centre viability and support for appropriate uses, and design features provide together for positive long term effects on PHH, Soil and Geology (through promoting reuse), Landscape/townscape, Cultural Heritage and material assets as well as indirectly promoting modal shifts away from car dependency..</p>									
10. Opportunity Sites OPPORTUNITY SITE 1: FORMER TIMBER YARD, JUNCTION OF STATION RD/CANAL RD Zoning: Enterprise and Employment	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
									
Comments:	↕	↑	↑	↑	↑	↑	↑	↕	↑
<ul style="list-style-type: none"> • Strategically located directly adjacent to Portarlington Railway Station and car park; • A 1.56ha. brownfield site formerly used as timber and hardware retail outlet, the buildings have been cleared and the site is vacant; • Fully serviced site; • Outside of Flood Zones A and B; • Extant permission for office and retail development over five storeys; • Opportunity to intensify development to provide a key landmark or gateway building to signify the approach and entrance to the town from the south and railway station to create a sense of 									

Portarlington LAP Policies and Objectives									
arrival; <ul style="list-style-type: none"> The building should address the extensive street frontage and be designed to an exceptional standard; A high quality public realm will be required in any development 									
OPPORTUNITY SITE 2: LANDHOLDING OFF SANDY LANE/ BALLYMORRIS ROAD zoning: Neighbourhood Centre 	↕	↑	↕	↕	↑	↑	↑	↕	↑
Comments: <ul style="list-style-type: none"> Prime location in close proximity to the town centre; A 3.84ha. Greenfield site; Fully serviced site; Outside of Flood Zones A and B; Extant permission for retail development of 7,000m²; 									

Portarlington LAP Policies and Objectives									
<ul style="list-style-type: none"> • Suitable for a wide variety of uses subject to a Justification Test; • Mixed use developments compliant with the zoning objective will be encouraged; • The building should address the extensive street frontage and be designed to an exceptional standard; • A high quality public realm will be required in any development including pocket parks and green links between Sandy Lane and Ballymorris Road 									
<p>OPPORTUNITY SITE 3: AVON FACTORY SITE, OFF CANAL Zoning: Enterprise and Employment</p> 	↕	↑	↕	↑	↑	↑	↕	↑	↑
<p>Comments:</p> <ul style="list-style-type: none"> • Prime location in close proximity to the train station; 									

Portarlington LAP Policies and Objectives									
<ul style="list-style-type: none"> • A 5.18ha. brownfield site currently vacant; • Fully serviced site; • Environmental considerations following previous uses of the site; • Outside of Flood Zones A and B; • Opportunity to provide a key landmark building/ enterprise campus; • Suitable for a wide variety of enterprise and employment uses including low input and emission manufacturing, campus style offices, storage, wholesale and distribution etc.; • A high quality public realm will be required in any development 									
OPPORTUNITY SITE 4: LANDHOLDING OFF FOXCROFT Street Zoning: Town Centre	↕	↕	↕	↕	↕	↕	↕	↕	↕

Portarlington LAP Policies and Objectives									
									
<ul style="list-style-type: none"> • Prime location adjacent to the town centre with vehicular access from Foxcroft Street and potential pedestrian access from Main Street; • A 4.08ha. greenfield, backland and infill site; • Fully serviced site; • Portion of the site is located within Flood Zone B; • Opportunity to create a sustainable and compact urban quarter with a mix of uses; • Pedestrian and cycle links and pocket parks between Main Street, Sandy Lane and Foxcroft Street should form key features to any proposal; • Adjoining private amenity spaces of neighbouring 									

Portarlinton LAP Policies and Objectives									
residential properties should be protected through the design and layout of any proposal; <ul style="list-style-type: none"> A high quality public realm will be required in any development 									
OPPORTUNITY SITE 5: ARLINGTON HOUSE, FOXCROFT STREET Zoning: Residential 1 	↕	↕	0	↑	↑	↑	↑	↑	↑
<ul style="list-style-type: none"> Prime location in close proximity to town centre; A 0.08ha. brownfield site; Fully serviced site; Protected Structure on site, architectural heritage impact assessment required; Extant permission for a major redevelopment comprising a licensed premises/cafe; 									

Portarlington LAP Policies and Objectives									
<ul style="list-style-type: none"> Any proposal shall have cognisance to and incorporate the existing structure “Arlington House”; A high quality public realm will be required in any development. 									
<p>OPPORTUNITY SITE 6: LANDS AT JUNCTION OF BOTLEY LANE AND PATRICK STREET Zoning: Town Centre</p> 									
<p>Comments:</p> <ul style="list-style-type: none"> Prime location in close proximity to town centre; A 0.63ha. brownfield site containing an industrial garage, storage and parking areas; Fully serviced site; 	0	↑	↕	↑	↑	↕	↑	↑	

Portarlington LAP Policies and Objectives									
<ul style="list-style-type: none"> • Located within Flood Zones A and B; • Suitable for a wide variety of business and commercial uses subject to a Justification Test; • Opportunity to intensify development to provide a key landmark or gateway building; • Any new building should address both street frontages and should be designed to an exceptional standard; • A high quality public realm will be required in any development. 									
<p>OPPORTUNITY SITE 7: LANDS AT KILMALOGUE CROSS ROADS Zoning: Neighbourhood Centre</p> 									
Comments:	0		0				0		

Portarlington LAP Policies and Objectives									
<ul style="list-style-type: none"> • Prime location in close proximity to town centre; • A 0.54ha. brownfield site containing a convenience retail space; • Fully serviced site; • Located outside of Flood Zones A and B; • Suitable for a wide variety of business, commercial and residential uses subject to a Justification Test; • Opportunity to intensify development to provide a key landmark or gateway building; • Development should comprise active frontages at ground floor level with commercial or residential uses above; • Any new building should address both street frontages and should be designed to an exceptional standard; • A high quality public realm will be required in any development 									
<p>OPPORTUNITY SITE 8: LANDS TO NORTH OF PATRICK STREET Zoning: Residential</p>									

Portarlington LAP Policies and Objectives									
									
<p>Comments:</p> <ul style="list-style-type: none"> • Prime location in close proximity to town centre; • A 4.73ha. brownfield site; • Located outside of Flood Zones A and B; • A masterplan will be required in any development; • Incorporation of access points as detailed on Map 9 <p>Objectives;</p> <ul style="list-style-type: none"> • Permeability which be an integral part of any development of site and should be provided for in detail in any masterplan for the site; • The provision of new green infrastructure shall be integrated into any new developments; • Any development must respect and be sensitive to existing character of the streetscape of St. Patricks Street and presence of 	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
Protected Structures on the street; • Specially designed housing for the elderly will be considered by the Planning Authority.									
Comment: These opportunity sites represent efficient use of existing, frequently brownfield / infill lands within and close to the town centre. Broadly positive and consistent with SEOs. Potential adverse effects on Biodiversity SEOs associated with greenfield sites of backlands –existing mitigation measures are identified as sufficient and appropriate to avoid adverse effects.									
11. Key Infrastructure: Strategic Aim: To enable development in line with the capacity of supporting infrastructure and to require the timely provision of infrastructure needed for the planned development of lands.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Objectives: It is an Objective of both Laois and Offaly County Council to:									
KI O1: Facilitate economic and social development through the provision of infrastructure and optimise the return of infrastructure investment;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O2: Phase growth in line with the capacity of supporting infrastructure;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O3: Facilitate Irish Water in the maintenance, expansion and upgrading of wastewater disposal and water supply infrastructure;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O4: Seek compliance with the standards and requirements of Irish Water in relation to water and wastewater infrastructure	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O5: Maintain a development free buffer around the Portarlington wastewater treatment plant of a minimum of 100 metres;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O6: Require all developments in Portarlington to seek a connection to the public water supply and/or public wastewater sewer where it is practical to do so	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O7: Protect both ground and surface water resources and to work with Irish Water to develop and implement Water Safety Plans to protect sources of public water supply and their contributing	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
catchments;									
KI 08: Preserve free from development the wayleaves of all public sewers and all public water Mains	0	0	↑	0	↑	0	0	0	0
KI 09: Require all new developments to include proposals for Sustainable Drainage Systems	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI 10: Maintain, improve and enhance the environmental and ecological quality of surface waters and groundwater in accordance with the South Eastern River Basin District River Basin Management Plan / National River Basin Management Plan for Ireland 2018-2021 (DHPLG) and associated Programme of Measures.	↑⇅	↑⇅	↑⇅	↑⇅	↑⇅	↑⇅	↑⇅	↑⇅	↑⇅
KI O11: Ensure developments will not adversely impact on the status of waterbodies in accordance with the Water Framework Directive and South Eastern River Basin District River Basin Management Plan ; National River Basin Management Plan for Ireland 2018-2021 (DHPLG)	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI O11: Facilitate, promote and encourage the expansion and improvement of telecommunications, broadband, electricity and gas networks infrastructure subject to proper planning and sustainable development	⇅	⇅	⇅	⇅	⇅	⇅	⇅	⇅	⇅
Policies: It is the Policy of both Laois and Offaly County Council to: KI P1: Protect both ground and surface water resources and to work with Irish Water to develop and implement Water Safety Plans to protect sources of public water supply and their contributing catchment;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P2: Work with Irish Water on developing and upgrading the water supply schemes so as to ensure an adequate, resilient, sustainable and economic supply of piped water	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P3: Work with Irish Water on upgrading the wastewater treatment plant in line with the projected future growth of the settlement.	↑	↑	↑	↑	↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
KI P4: Maintain and enhance, as appropriate, the existing surface water drainage system throughout the plan area and ensure that new developments are adequately serviced with surface water drainage infrastructure and promote the use of Sustainable Drainage Systems in new developments	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P5 Promote and support the implementation of Irish Water's Eastern and Midlands Region Water Supply Project									
KI P6: Protect surface and ground water quality in accordance with the EU Water Framework Directive and Groundwater Directive	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P7: Ensure that specific relevant objectives and measures from individual water bodies set out in the South Eastern River Basin Management Plan and associated Programme of Measures are implemented as relevant									
KI P8: Promote public awareness and involvement in water conservation measures by households, businesses and industries and supports the implementation of Energy Efficiency solutions in Water and Waste Water Systems;	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P9: Promote and encourage the harvesting of rainwater to meet non-potable water needs	↑	↑	↑	↑	↑	↑	↑	↑	↑
KI P10: Co-operate with and facilitate the work of national telecommunications, broadband, electricity and gas network providers in the improvement, expansion and provision of energy and communication infrastructure subject to proper planning and sustainable development	↕	↕	↕	↕	↕	↕	↕	↕	↕
KI P11 Liaise with statutory bodies to investigate and encourage where possible the ducting and continued underground routing of overhead power lines in Portarlington in tandem with other work programs, such as road resurfacing and footpath construction works.									

Portarlington LAP Policies and Objectives									
<p>Comment: Broadly consistent for a range of SEOS, a number of objectives are recommended for additional mitigation measures to align with the current draft National River Basin Management Plan for Ireland 2018-2021 as highlighted in the Scoping Submission by the EPA. KIP 10 recommended for mitigation as well as KIP 5 on foot of EPA scoping submission.</p>									
<p>12 Transport and Movement: Strategic Aim: To promote and facilitate a sustainable transport system that prioritises and provides for walking, cycling and public transport facilities while ensuring sufficient traffic management.</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>Objectives: It is an Objective of both Laois and Offaly County Council to:</p>									
<p>TM O1: Identify and agree on a route for a future outer relief road with a view to constructing a northern by pass of Portarlington</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>TM O2: Identify and agree a route for a southern relief road from the R420 at Shanderry to the local road at Ballymorris;</p>	↑	↑	O	O	↑	↑	O	O	↑
<p>TM O3: Reserve land for the delivery of an inner relief road connecting the R423 at Kilmalogue with the R419 at Cooltederry</p>	O	↑	O	O	↑	↑	O	O	↑
<p>TM O4: Reserve land for the delivery of an inner relief road connecting the R420 at Shanderry to the local road at Kilmalogue</p>	O	↑	O	O	↑	↑	O	O	↑
<p>TM O5: Improve junction/road realignment at Kilmalogue Junction;</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>TM O6: ; Carry out necessary strengthening works to the Barrow Bridge</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>TM O7: Ensure that adequate and safe bicycle and walking facilities are provided as part of any future educational, recreational and commercial developments</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>TM O8: Develop a cycle network throughout the town linking population, town centre, schools, community facilities, green infrastructure and the town's train station in accordance with the principles set out in Design Manual for Urban Roads and Streets (2013) and the NTA National Cycling Manual principles and standards</p>	O	↑			↑	↑	↑	↑	↑

Portarlington LAP Policies and Objectives									
TM 09: Provide a permeable pedestrian network within the plan area which links residential areas, town centre, schools, community facilities, green infrastructure and the town's train station	0	↑	0	0	↑	↑	↑	↑	↑
TM 010: Provide a high quality pedestrian network in the town centre area through the appropriate refurbishment of existing and the construction of new footpaths, incorporating the provision of safe crossing points and public lighting as required;	0	↑	0	0	↑	↑	0	0	↑
TM 011: Seek funding through development contributions and/or the relevant bodies in order to finance the delivery of safe, high quality cycle and pedestrian routes and greenways throughout the town		↑		↑	↑	↑		↑	↑
TM 012: Investigate the feasibility and promote the provision of a recreational pedestrian/ cycle route from the Peoples Park, along the River Barrow to Derrycastle Lakes and Trails;	↕	↑↕	↕	↑	↑	↑	↑	↑	↑
TM 013: Facilitate the development of the Derrycastle Lakes and Trails as an integrated walking, cycling and recreational amenity trail	↕	↑	↑	↕	↑	↑	↑	↑	↑
Policies: It is the Policy of both Laois and Offaly County Council to:									
TM P1: Ensure that the planning, design and implementation of all road and street networks in Portarlington accord with the principles set out in the Design Manual for Urban Roads and Streets (2013) published by the Department of Transport, Tourism and Sport along with the Department of Environment, Community and Local Government	↑	↑	↑	↑	↑	↑	↑	↑	↑
TM P2: Monitor traffic movement within the town and to provide passive traffic calming measures at appropriate locations as the need arises	0	↑	0	0	↑	↑	↑	↑	↑
TM P3: Extend/upgrade public lighting throughout the town as the need arises	0	↑	0	0	↑	↑			
TM P4: Ensure insofar as possible that all transport facilities and car parking within the town are accessible to people with mobility needs									

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TM P5: Ensure all footpaths provide access for disabled and mobility impaired persons;	0	↑	0	0	↑	↑	0	↑	
TM P6: Ensure that the design and layout of new developments enables, facilitates and encourages the use of sustainable travel modes	↑	↑	0	0	↑	↑		↑	
TM P7: Work with all relevant public transport providers including Bus Eireann and Iarnrod Eireann to improve and expand public transport facilities and services in Portarlington and to link such facilities with the town centre and other nearby settlements	0	0	0	0	↑	0	0	0	0
TM P8: Continue to maintain and improve as required the local roads network to ensure a high standard of road quality and safety	↕	↕	↕	↕	↕	↕	↕	↕	↕
TM P9: Implement and support measures to alleviate traffic congestion within the town;	↑	↑	↑	↑	↑	↑	↑	↑	↑
TM P10: Ensure that land uses within Portarlington are compatible with the safe and efficient operation of roads and associated junctions serving									
TM P11: Ensure that all new development contains an adequate level of vehicular and bicycle provision in accordance with the policies and standards outlined in the Development Management Standards of both the Laois and Offaly County Development Plans	↑	↑	↑	↑	↑	↑	↑	↑	↑
TM P12: Ensure adequate access points are reserved and provided to open up areas (including backland areas) for development purposes	0	↑	0	0	↑	0	0	0	0
TMP13: Provide an enhanced pedestrian and cycle network in Portarlington and secure full permeability in all new housing areas and in existing areas where possible;	0	↑	0	0	↑	↑	↑	↑	↑
TMP 14: Promote, develop and upgrade a series of cycle lanes throughout the town for amenity and transport purposes	↕	↑	↕	↕	↑	↑	↑	↑	↑
<p>Comment: A number of policies and objectives are broadly positive and consistent with SEOS relating to PHH, MA, CC and Air Quality. Certain objectives such as the strategic aim and TM02 provide for integrated landuse and transport planning, identified as given rise to a wider range of long term, direct and indirect effects across</p>									

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<p>all SEOs. Other objectives will contribute also to a higher quality public realm as well as improved air quality (TM 07 and TM 08); this in turn positive effects Landscape and Cultural heritage SEOs.; Increasing modal shift (TM 06) indirectly contributes to noise and air quality emissions reductions; positive effects for these SEOs also identified. Positive effects identified for all SEOs relating to TM 09 and TMP1 are positive in particular.</p> <p>Other measures such as bicycle spaces, and integrating pedestrian and cycling (TM09) will indirectly reduce emissions associated with traffic, with positive long term effects relating to climate change and air quality and noise.</p> <p>In relation to specific road objectives (TM01 to TM 06) specific mitigation measures particularly the following from the Laois CDP 2017-2023 will apply: Examples of existing mitigation measures in the CDP 2017 -2023 include the following: <i>TRANS6 Ensure that all proposed plans or projects relating to transportation (including walking, cycling, rail, bus and roads) and any associated improvement works, individually or in combination with other plans or projects, are subject to Appropriate Assessment Screening to ensure there are no likely significant effects on the integrity (defined by the structure and function) of any Natura 2000 site(s) and that the requirements of Articles 6(3) and 6(4) of the EU Habitats Directive are fully satisfied. Where the plan or project is likely to have a significant effect on a Natura 2000 site, or there is uncertainty with regard to effects, it shall be subject to Appropriate Assessment. The plan or project will proceed only after it has been ascertained that it will not adversely affect the integrity of the site or where in the absence of alternative solutions, the project is deemed imperative for reasons of overriding public interest, all in accordance with the provisions of Articles 6(3) and 6(4) of the EU Habitats Directive</i></p> <p>It is assessed that for several of the SEOS above, sufficient and appropriate mitigation measures through development management and design measures exist to address potential adverse effects relating to policies such as TM 012.</p>									
<p>13 Housing: Strategy Aim: To deliver new residential development, to support the existing community infrastructure, recreation and amenity facilities and provide new facilities in tandem with new housing.</p>	↕	↑	↑	↑	↑	↑	↑	↑	↑
<p>Objectives: It is an objective of both Laois and Offaly County Council to:</p>									
<p>H O1: Ensure that sufficient zoned land is available at appropriate locations to cater for the envisaged population growth of the Core Strategy;</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>H O2: Promote and encourage the development of the critical mass of Portarlington and to enhance its strategic location on the National and Regional road and rail network;</p>	↑	↑	↑	↑	↑	↑	↑	↑	↑

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H O3: Facilitate the provision of housing in a range of locations to meet the needs of the population, with particular emphasis on facilitating access to housing to suit different household and tenure needs, in a sustainable manner;	O	↑	O	O	↑	O	O	O	O
H O4: To ensure compliance with the provisions of Part V of the Act (as amended) and to integrate such housing so as to prevent social segregation within residential developments;	O	↑	O	O	↑	O	O	O	O
H O5: To utilise the provisions of the Urban Regeneration and Housing Act 2015 (Vacant Site Levy) to facilitate the appropriate development of vacant sites (residential zoned) that are in need of renewal or regeneration;	↑	↑	O	↑	↑	O	↑	↑	↑
H O6: To encourage the sequential development of sustainable serviced residentially zoned lands in a sustainable manner subject to compliance with relevant Department Guidelines and Development Management Standards of the Laois County Development Plan 2017 – 2023 and Offaly County Development Plan 2014-2020	↑	↑	↑	↑	↑	↑	↑	↑	↑
H O7: To promote a higher density at appropriate locations, particularly close to the town centre and public transport facilities;	↑	↑	↑	↑	↑	↑	↑	↑	↑
H O8: To encourage appropriate housing development on infill and brownfield sites subject to preservation of existing residential amenity, the provision of a high quality design respecting the established character, density and layout, compliance with all traffic safety, quantitative and qualitative standards of the Laois County Development Plan 2017-2023 and Offaly County Development Plan 2014-2020;	↑	↑	↑	↑	↑	↑	↑	↑	↑
H O9: To promote the reoccupation of vacant residential stock within Portarlington Town Centre, including ‘Living Above the Shop’ units;	O	↑	O	↑	↑	↑	↑	↑	O
H O10: To ensure an appropriate and sustainable mix of dwelling	O	↑	O	O	O	O	O	O	O

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types, sizes and tenures to cater for all members of society, including homeless persons, the elderly, disabled and travellers;									
H O11: To ensure provision of lifetime adaptable homes that can accommodate the changing needs of a household over time;	O	↑	O	O	O	O	O	O	O
H O12: To identify, acquire and provide suitable sites, accommodation and facilities for the housing and resettlement of travelling families;	O	↑	O	O	O	O	O	O	O
H O13: To secure the provision of social infrastructure, community and recreational facilities in tandem with residential development.	O	↑	O	O	O	O	O	O	O
<p>Comment: Objectives such as H06 and H009 are positive for a range of SEOs as they promote sequential development, and reinforce town centre development and landuse; reuse of existing buildings; this in turn reduces car based travel requirements and longer term positive effects related to higher density development in serviced town centres, with accompanying benefits for climate change, air quality and noise; reuse of existing buildings contributes to cultural heritage and enhanced streetscapes. Others such as HO05 promote use of vacant sites; these policies contribute to more efficient use of material assets through higher density development –with indirect long term positive effects on MA and W SEOs.</p>									
Policies: It is the Policy of the Council to:									
H P1: Ensure that sufficient zoned land is available at appropriate locations to cater for the envisaged population growth of the Core Strategy;	↑	↑	↑	↑	↑	↑	↑	↑	↑
H P2: Require all new residential developments to be consistent with the Core Strategies of the Laois County Development Plan 2107-2023 and the Offaly County Development Plan 2014-2020	↑	↑	↑	↑	↑	↑	↑	↑	↑
H P3: Promote and encourage the development of Portarlington and to enhance its strategic location on the National and Regional road and rail network;	↑	↑	↑	↑	↑	↑	↑	↑	↑
H P4: Facilitate the provision of housing in a range of locations to meet the needs of the population, with particular emphasis on facilitating access to housing to suit different household and tenure needs, in a sustainable manner;	↑	↑	↑	↑	↑	↑	↑	↑	↑
H P5: To require the creation of sustainable communities and high	↑	↑	↑	↑	↑	↑	↑	↑	↑

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<p>quality residential areas at appropriate locations with a mix tenure and adequate amenities and facilities and to meet the standards and guidance of:</p> <ul style="list-style-type: none"> • Sustainable Residential Development In Urban Areas, Guidelines for Planning Authorities, DEHG (2009); • Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities (2015); • The Design Manual for Urban Roads and Streets, DTTS and DECLG (2013); • The development management standards of the Laois County Development Plan 2017-2023; • Technical Guidance Document L – Conservation of Fuel and Energy – Dwellings. 									
<p>Comment: Positive effects across SEOS relating to housing provision and variety due to adherence to Core Strategy, Opportunity Sites and Town Centre promotion incentives, allocation of residential zoning lands, service led infrastructure and national guidance and guidelines.</p>									
<p>14 Community Services & Culture: Strategic Aim: To deliver, facilitate and support the provision of a broad range of high quality community, educational and cultural facilities and infrastructure to meet the needs of the population.</p>	O	↑	O	O	O	O	O	O	O
<p>Objectives: It is an Objective of both Laois and Offaly County Council to:</p>									
<p>CSC O1: Facilitate the provision of social infrastructure and to provide access to new and existing community and social facilities;</p>	O	↑	O	O	O	O	O	O	O
<p>CSC O2: Facilitate the improvement and provision of community facilities, library and emergency services in appropriate locations</p>	O	↑	O	O	O	O	O	O	O
<p>CSC O3: Facilitate the improvement and provision of educational, childcare and healthcare facilities in appropriate and accessible locations;</p>	O	↑	O	O	O	↑	O	O	O

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CSC O4: Facilitate implementation of the Laois Age Friendly County Strategy 2016-2021	0	↑	0	0	0	0	0	0	0
CSC O5: Promote the amenities and ensure the accessibility of arts and cultural facilities within the ownership of Laois and Offaly County Councils;	0	↑	0	0	0	0	↑	0	0
CSC O6: Facilitate the roll out of community policing and neighbourhood watch schemes.	0	↑	0	0	0	0	0	0	0
<p>Comment: Positive effects for PHH SEOs in particular; indirect positive effects can be identified for objectives around community policing in relation to sense of place and potential antisocial behaviour, littering etc.</p> <p>Where facilities are provided within walking distance of communities, increased opportunities for modal shift away from car based journeys therefore indirect, positive long term effects for Material Assets and climate change.</p>									
Policies: It is the Policy of the Council to									
CSC P1: Ensure provision of sufficient zoned lands to allow for expansion of existing and provision of community facilities;	0	↑	0	0	↑	0	0	0	0
CSC P2: Facilitate the development of and expansion of services, amenities and facilities to cater for all society members, ages and community groups	0	↑	0	0	0	0	0	0	0
CSC P3. Facilitate the development of primary, second-level, third-level outreach, vocational and lifelong learning facilities and digital capacity for distance learning including fourth level education, lifelong learning and up-skilling	0	↑	0	↑	0	0	0	0	↑
CSC P4: Ensure the provision and implementation of primary and secondary education facilities in concert with the planning and sustainable development of residential areas in order to maximise the opportunities for use of walking, cycling and public transport	↑	↑	↑	↑	↑	↑	↑	↑	↑
<p>Comments: CSP P1 promotes integrated landuse and planning which creates positive, long term effects and consistency with a range of SEOS including PHH, and MA. CSC P4 also positive as it supports integrating educational facilities and opportunities for sustainable transport options longer term indirect positive effects across a number of SEO relating to this provision..</p>									
15 Built Heritage: Strategic Aim:	0	↑	0	↑	0	0	↑	↑	0

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To protect, conserve and manage the built heritage of the town and to encourage sensitive and sustainable development to ensure its preservation for future generations.									
Objectives: It is an Objective of both Laois and Offaly County Council to: BH O1: Protect, conserve and enhance the built environment, through promoting awareness, utilising relevant heritage legislation and promoting good quality urban design;	O	↑	O	↑	O	O	↑	↑	↑
BH O2: Conserve, protect and enhance the built heritage of Portarlington, including all Protected Structures and attendant grounds, Recorded Monuments and Places in accordance with best conservation practice;	O	↑	O	↑	O	O	↑	↑	↑
BH O3: Positively consider proposals to improve, alter, extend or change the use of protected structures so as to render them viable for modern use, subject to consultation with suitably qualified Conservation Architects and / or other relevant experts, suitable design, materials and construction methods;	O	↑	O	↑	O	↑	↑	↑	↑
BH O4: Ensure all development works on or at the sites of protected structures, including any site works necessary, shall be carried out using best heritage practice for the protection and preservation of those aspects or features of the structures / site that render it worthy of protection;	O	↑	O	↑	O	O	↑	↑	↑
BH O5: Support the re-introduction of traditional features on protected structures where there is evidence that such features (e.g. window styles, finishes etc.) previously existed;	O	↑	O	O	O	O	↑	↑	↑
BH O6: Strongly resist the demolition of protected structures, unless it can be demonstrated that exceptional circumstances exist;	O	↑	O	O	O	O	↑	↑	↑
BH O7: Consider the change of use of protected structures, provided that it can be shown that the structure, character, appearance and	O	↑	O	O	O	O	↑	↑	↑

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setting will not be adversely affected or where it can be shown it is necessary to have an economic use to enable its upkeep;									
BH O8: Designate an Architectural Conservation Area in Portarlington to ensure the protection within the traditional core of the town, of all those buildings, spaces, archaeological sites, trees, street furniture, views and other aspects of the environment which form an essential part of their character, as set out in their character appraisals	O	↑	O	O	O	O	↑	↑	↑
BH O9: Ensure the design of any development in the traditional core of the town, including any changes of use of an existing building, should preserve and / or enhance the character and appearance of the Architectural Conservation Area as a whole;	O	↑	O	↑	↑	↑	↑	↑	↑
BH O10: Promote schemes for the conservation and enhancement of the character and appearance of the traditional core of the town;	O	↑	O	↑	↑	↑	↑	↑	↑
BH O11: No development in the vicinity of a feature included in the Record of Monuments & Places (RMP) will be permitted which seriously detracts from the setting of the feature or which is seriously injurious to its cultural or educational value;	O	↑	O	O	O	O	↑	↑	↑
BH O12: Ensure archaeological assessment is carried out as required and promote 'preservation in situ' of archaeological remains and settings in developments that would impact upon archaeological sites and/or features;	O	↑	O	O	O	O	↑	↑	↑
BH O13: Protect previously unknown archaeological sites and features, including underwater sites, where they are discovered during development works;	O	↑	O	O	O	O	↑	↑	↑
BH O14: Facilitate public access to National Monuments in State or Local Authority care;		↑	O	O	O	O	↑	↑	↑
Policies: It is the Policy of both Laois and Offaly County Councils to:									
BH P1: Ensure heritage assets that are the focus for tourism development are appropriately managed and their special interest	O	↑	O	↑	O	O	↑	↑	↑

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conserved from potential adverse effects from visitors or development in general and that best practice standards in relation for the environmental management of tourism enterprises are adhered to;									
BH P2: Support and promote, with the co-operation of landowners, public access to heritage sites and features at appropriate locations whilst ensuring heritage related development does not result in negative impacts on the fabric or setting of Laois’s and Offaly’s heritage assets;	O	↑	O	O	O	O	↑	↑	↑
BH P3: Support the implementation of Ireland’s Ancient East by facilitating the provision of visitor information– in line with the policies and objectives with respect to heritage sites; and integrating the objectives of Ireland’s Ancient East with transport programmes in the Counties;	O	↑	O	O	O	O	↑	↑	↑
Comment: The objectives above are positive for PHH, Cultural Heritage and landscape in particular. In addition, they complement the promotion and support of the town centre by encouraging reuse of existing buildings and the fabric of the streetscape; indirect positive effects relating to soil and geology (reuse rather than new build) and Climate change (reuse above new build); making the town centre attractive through enhancing access and existing heritage can indirectly enhance greater residential and economic activity within the town centre..									
16 Natural Heritage: Strategic Aim: To protect, enhance, create and connect natural heritage, green spaces and high quality amenity areas throughout Portarlington for biodiversity and recreation.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Objectives: It is the Objective of both Laois and Offaly County Council to:									
NH 01: Ensure an Appropriate Assessment, in accordance with Article 6(3) and Article 6(4) of the Habitats Directive and with DEHLG guidance (2009), is carried out in respect of any plan or project not directly connected with or necessary to the management of a Natura 2000 site to determine the likelihood of the plan or project having a	↑	↑	↑	↑	↑	↑	↑	↑	↑

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significant effect on a Natura 2000 site, either individually or in combination with other plans or projects and to ensure that projects which may give rise to significant cumulative, direct, indirect or secondary impacts on Natura 2000 sites will not be permitted (either individually or in combination with other plans or projects) unless for reasons of overriding public interest									
NH O2: Identify, protect and conserve natural heritage sites, nationally designated conservation sites and non designated sites in co-operation and consultation with the relevant statutory authorities;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O3: Seek integration of all elements of existing green infrastructure into new developments, prevent fragmentation and mitigate potential impacts on the existing green infrastructure network;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O4: Identify, protect, conserve and enhance wherever possible, wildlife habitats, stepping stones, corridors and features	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O5: Seek to preserve, protect and maintain trees of special amenity, conservation or landscape value;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O6: Carry out and require the planting of native trees, hedgerows and vegetation in all new developments;	⇅	↑	↑	↑	↑	↑	↑	↑	↑
NH O7: Promote a network of paths and cycle tracks to enhance accessibility to the Green Infrastructure network, while ensuring that the design and operation of the routes responds to the ecological protection needs of each site	↑⇅	↑	↑	↑	↑	↑	↑	↑	↑
NH O8: ; Support the upgrading of walking and cycling trails along the River Barrow and around Derrycastle Bog and existing lakes	⇅	↑	⇅	⇅	↑	↑	⇅	↑	
NH O9: Support the development of an historical trail through Derrycastle Bog and the creation of a Heritage Museum to document the history of the bog and turf production in the area	⇅	↑	⇅	⇅	↑	↑	↑	↑	↑
NH O10: Provide a riparian corridor of between 30 and 50 metres	↑	↑	↑	↑	↑	↑	↑	↑	↑

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along the bank of the River Barrow for its ecological value and potential and to maintain it free from inappropriate Development;									
NH O11: Provide recreational amenities such as playgrounds and outdoor gym equipment;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O12: Protect environmental quality and implement site appropriate mitigation measures with respect to air quality, greenhouse gases, climate change, light pollution, noise pollution and waste management	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH O13: Facilitate the work of agencies redressing the issue of terrestrial and aquatic invasive species.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Policies: It is a Policy of both Laois and Offaly County Council to:									
NH P1: Prohibit any development that would be harmful to or that would result in a significant deterioration of habitats and/or disturbance of species in any Special Protection Area (SPA), Special Area of Conservation (SAC) and candidate Special Area of Conservation (cSAC), Natural Heritage Area (NHA) and Proposed Natural Heritage									
NH P2: Support and co-operate with statutory authorities and others in support of measures taken to manage proposed or designated sites in order to achieve their conservation objectives	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH P3: Protect, enhance and further develop the Green Infrastructure network in Portarlington and to strengthen links to the wider regional network	↕	↑	↕	↑	↑	↑	↑	↑	↑
NH P4: , Support the development of a green corridor connecting the recreation areas of Derryounce Lakes and Trails, the River Barrow and the Peoples Park;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH P5: Ensure heritage assets that are the focus for tourism development are appropriately managed and their special interest conserved from potential adverse effects from visitors or	○	↑	○	○	○	○	↑	○	○

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development in general and that best practice standards in relation for the environmental management of tourism enterprises are adhered									
NH P6 Support and promote, with the co-operation of landowners, public access to heritage sites and features at appropriate locations whilst ensuring heritage related development does not result in negative impacts on the fabric or setting of the town's heritage assets;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH P7: Support the implementation of Ireland's Ancient East by facilitating the provision of visitor information in line with the policies and objectives with respect to heritage sites; and integrating the objectives of Ireland's Ancient East with transport programmes in the County;	↑	↑	↑	↑	↑	↑	↑	↑	↑
NH P8: Protect environmental quality in Portarlington through the implementation of European, National and Regional policy and legislation relating to air quality, greenhouse gases, climate change, light pollution, noise pollution and waste management.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Comment: Overall positive effects for SEOS identified relating to natural heritage and also multifunctional aspects of ecological enhancement including landscape, health and air quality.									
Mitigation measures recommended for NH06 to further strengthen and enhance natural heritage considerations.									
17 Flood Management: Strategic Aim: To develop and improve flood alleviation measures throughout the town and rural hinterland so as to complement the overall strategy for economic and population growth and to achieve improved physical and environmental protection.	↑	↑	↑	↑	↑	↑	↑	↑	↑
Objectives: It is an Objective of both Laois and Offaly County Council to									
FM O1: Manage flood risk in accordance with the requirements of	↑	↑	↑	↑	↑	↑	↑	↑	↑

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The Planning System and Flood Risk Management Guidelines for Planning Authorities, DECLG and OPW (2009) and Circular PL02/2014 (August 2014);									
FM O2: Support and co-operate with the OPW in delivering the South Eastern CFRAM Programme.	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM 03: To carry out infrastructural works in the Bog Road and Botley Lane areas of the town to alleviate flooding from the Blackstick Drain, a tributary of the River Barrow: (i) Raise public road levels and improve road drainage infrastructure; (ii) Improve drainage channels in Blackstick Drain and contributing drains; (iii) Refurbish all culverts to the Blackstick Drain and contributing	↕	↕	↕	↕	↕	↕	↕	↕	↕
FM 04: To carry out a programme of dredging surface water drains and to continue to ensure that the drains are regularly maintained to minimise the risk of flooding.									
Policies: It is the Policy of both Laois and Offaly County Council to:									
FM P1: In conjunction with the OPW implement a program of flood defence works for the town	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM P2 :Comply with DoEHLG Guidelines “The Planning System and Flood Risk Management – Guidelines for Planning Authorities (2009)” and any future Guidelines in relation to flood risk;									
FM P3: Ensure development proposals within the areas outlined on Flood Risk Map are the subject of Site-Specific Flood Risk Assessment as outlined in “The Planning System and Flood Risk Management Guidelines” 2009.	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM P4: Ensure all development on lands identified as being at risk of flooding must demonstrate, through the carrying out of a Site Specific Flood Risk Assessment flood impact assessment and the use of	↑	↑	↑	↑	↑	↑	↑	↑	↑

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Sustainable Urban Drainage Systems, that any flood risk can be adequately managed and the use or development of the lands will not cause unacceptable adverse impacts elsewhere;									
FM P5: Co-operate with the OPW in relation to the development of the Catchment Flood Risk Assessment (CFRAM) South Eastern River Basin and for the River Triogue and its tributaries in particular and to comply with any guidance and recommendations of this flood risk management plan;	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM P6: Incorporate the recommendations of the South Eastern CFRAM into any site specific flood risk assessment undertaken for individual sites/areas;	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM P7: Provide an appropriate set back from the edge of the watercourse and proposed developments to allow access for channel clearing/maintenance;	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM 08: Adhere to the requirements of the Inland Fisheries and National Parks and Wildlife Service in the construction of any flood alleviation measures.	↑	↑	↑	↑	↑	↑	↑	↑	↑
FM 09: Comply with relevant provisions of the Arterial Drainage Action, 1945 and the Arterial Drainage (Amendment) Act 1995	↕	↑	↕	↑	↑	↑	↑	↑	↑
<p>Comment: Application of guidelines is consistent with SEOS and avoids potential adverse effects arising from in appropriate development and landuse activities. FM 08 in particular is positive and provide for input and recommendations from statutory bodies such as NPWS to be fully applied in flood risk management which is a very important consideration.</p>									

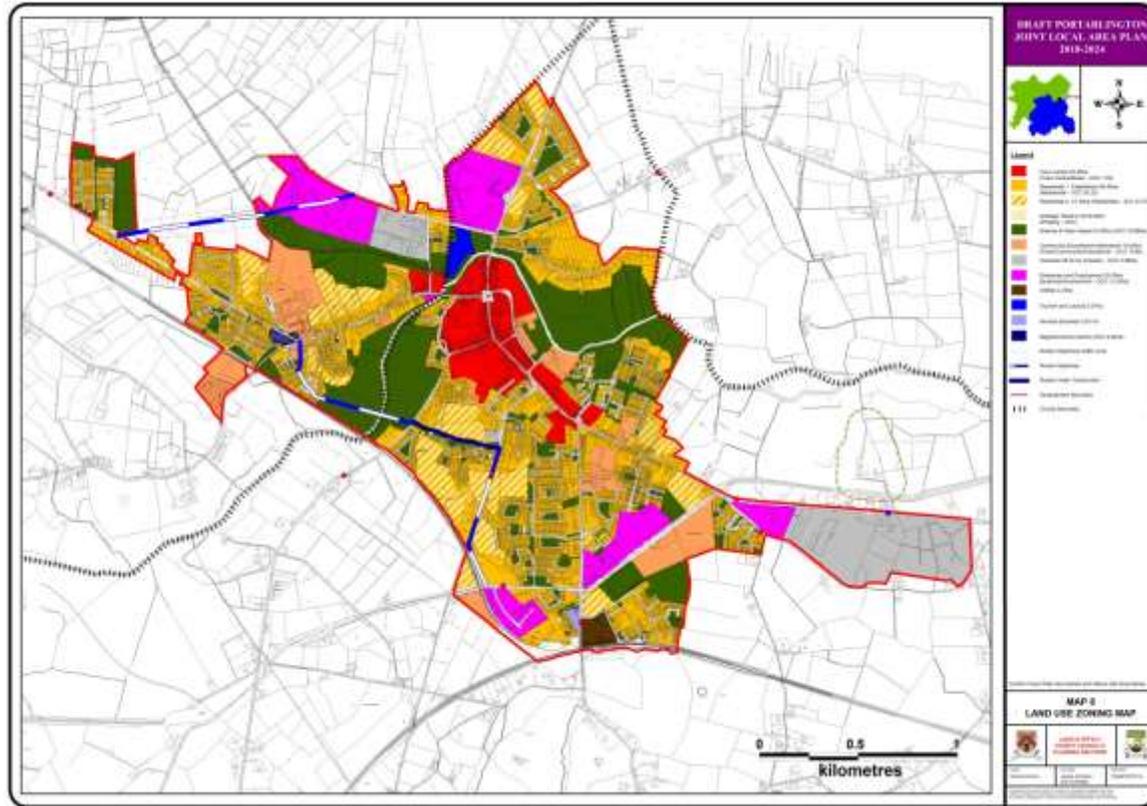
Landuse Zoning Assessment

The Table below presents the landuse zonings and amount of lands zoned, Lands zoned under the Offaly Plan area are listed in brackets.

Table 1 Landuse Zonings and Amounts

Landuse Zoning	Amount
Town Centre	25.95
(Town Centre/mixed Offaly CDP)	(1.63)
Residential R1 –Established	99.49
(Residential OCC)	(35.43)
Residential 2	27.44
(Residential OCC)	(8.157)
Strategic Reserve 2018-2024 (Phasing –OCC)	
Amenity and Open Space	61.65
(OCC)	(32.88)
Community-Educational-Institutional	16.26
(Public/Community/Educational)	(14.80)
Industrial	28.32
(Industry-OCC)	(5.69)
Utilities	2.23
Tourism and Leisure	2.07
General Business	0.53

Figure 1 Landuse Zonings in the Portarlington LAP 2018-2024



Assessment Matrix

Land Use Zoning									
Town Centre (Primary / Core Retail Area) Tier 1 lands Amount: 25.9 Objective: <i>To protect and enhance the special physical and social character of the existing Town Centre and to provide for and improve retailing and commercial activities.</i>	↑	↑	↑	↑	↑	↑	↑	↑	↑
Comment: Positive and consistent with all SEOs, reflects national policy, core strategy and promotes consolidation of town centre. Subject to adherence and implementation of relevant polices and measures including NH01, FM07 and FM08 positive long term impacts are identified in particular efor population and human health, material assets, Landscape, Cultural Heritage and Soil and Geology SEOs									
Residential 1 Existing Residential 99.49	○	○	○	○	○	○	○	○	○
Comment: Confirms existing land use									
Residential 2 – New Proposed Residential 27.44 Objective: <i>To provide for new residential development, residential services and community facilities.</i>	↕	↑	↕	↕	↑	↕	↕	↕	
Comment: Most of the impacts identified for residential development zones are identified as being mitigated at project level through development management. Positive impacts were identified for population and human health, plus a number of material assets such as flood risk and sustainable transport.									
Strategic Residential Reserve	↕	↕	↕	↕	↕	↕	↕	↕	

Land Use Zoning									
1.45ha Objective: <i>To provide lands for future development in line with national and regional targets.</i>									
Open Space & Amenity 61.65 Objective: <i>To preserve, provide for and improve active and passive recreational open space.</i>	↕↑	↑	↑	↑	↑	↑		↑	↑
<p>Comment: Generally, impacts are positive for a range of parameters including soil and geology, population and human health, flood risk, water quality and landscape. The opportunity to enhance these areas through public realm improvements and/or green and blue infrastructure measures contribute positively longer term to biodiversity, water and climate change adaptation SEOs also</p>									
Community, Educational & Institutional Services/Facilities 16.26 Objective: <i>To protect and provide for local neighbourhood, community, ecclesiastical, recreational and educational facilities.</i>	↕	↑	↑	↕	↑	↑	↑	↑	↑
<p>Comment: Again on undeveloped lands, negative impacts are identified for biodiversity and soil due to development on greenfield sites, but for many SEOs these can be mitigated through development management and relevant policies and objectives in the draft Plan. Positive impacts are identified for population and human health, transport and air quality for these zonings</p>									
Industrial & Warehousing 28.32 Objective: <i>To provide for and improve industrial and warehousing development.</i>	↕	↕	↕	↕	↕	↕	↕	↕	↕

Land Use Zoning									
<p>Comment: The range of impacts will vary according to the potential use; however for most of the SEOs, the impacts are considered to be addressed through mitigation at development management level.</p>									
<p>Tourism and Leisure: 2.07 ha Objective :<i>To provide for and improve tourist amenities.</i></p>	↕	↕	↕	↕	↕	↕	↕	↕	↕
<p>Comment: In the absence of mitigation, this zoning could give rise to adverse effects on the River Barrow and Nore SAC; however, existing policy provision in the LAP including Key Plan Objectives (numbers 7 and 8), as well as other measures including NH01 are identified as providing sufficient protection. Moreover, green and blue infrastructure measures may also be integrated within this landuse zonings and offer longer term positive effects on Biodiversity, and Water SEOs in relation to potential ecological connectivity to the Derrycastle lakes</p>									
<p>Enterprise & Employment 25.39 ha Purpose: To accommodate commercial and enterprise uses that are incapable of being situated in a town centre location, including low input and emission manufacturing, campus style offices, storage uses, wholesaling and distribution, commercial services with high space and parking requirements. Business Park type development shall be provided in high quality landscaped campus style environments, incorporating a range of amenities.</p>									
<p>Subject to implementation of appropriate mitigation measures, no significant adverse effects are identified for this zoning.</p>									
<p>Transport & Utilities 2.23 Objective: <i>To provide for the needs of all transport</i></p>	0	0	0	0	0	0	0	0	0

Land Use Zoning									
<i>users and other utility providers.</i>									
Confirms existing landuse no impacts on SEOs									

 1	 2	 3	
 4	 5	 6	

¹ <https://www.vichealth.vic.gov.au/media-and-resources/publications/the-vichealth-framework-for-health-equity>

² <http://www.hoofddorp-pioniers.nl/verslag-alv-2017/>

³ <https://www.shareicon.net/mountain-rural-peaks-geology-nature-738122>

⁴ <http://www.pvhc.net/img80/edivpmrvqoyefzdgxerf.jpg>

⁵ <https://icons8.com/icon/5170/palace>

⁶ <https://m.veryicon.com/icons/system/line/landscape-2.html>

Appendix B Review of Plans, Policies and Programmes

Title	Summary
Sustainable Development	
EU Environmental Action Programme to 2020	<p>The 7th EU Environmental Action Programme is more strategic in nature and identifies three main areas to guide EU environmental policy and research. The three thematic priority objectives are intended to:</p> <ul style="list-style-type: none"> • Protect nature and strengthen ecological resilience • Boost sustainable resource-efficient low-carbon growth, and • Effectively address environment-related threats to health.
Environmental Assessment	
SEA Directive - Assessment of the effects of certain plans and programmes on the Environment, (2001/42/EC) 2001	<p>This Directive requires plan-makers to carry out an assessment of the likely significant environmental effects of implementing a plan or programme before the plan or programme is adopted.</p>
Environmental Impact Assessment Directive (85/337/EEC) .	<p>The EIA Directive (85/337/EEC) came into force in 1985 and applies to a wide range of defined public and private projects, which are defined in Annexes I and II of the Directive. This has been amended with Directive 2011/92/EU and the 2014 Directive (see below).</p>
Environmental Impact Assessment Directive (2014/52/EC)	<p>It is necessary to amend Directive 2011/92/EU in order to strengthen the quality of the environmental impact assessment procedure, align that procedure with the principles of smart regulation and enhance coherence and synergies with other Union legislation and policies, as well as strategies and policies developed by Member States in areas of national competence. The Directive now applies from May 2017.</p>
Biodiversity, Flora and Fauna	
UN Convention of Biological Diversity, 1992	<p>The Convention on Biological Diversity (CBD) entered into force in December 1993. It has 3 main objectives:</p> <ol style="list-style-type: none"> 1. The conservation of biological diversity. 2. The sustainable use of the components of biological diversity. 3. The fair and equitable sharing of the benefits arising out of the utilisation of genetic resources.
The Convention on Wetlands of International Importance (The Ramsar Convention) 1971 and subsequent	<p>Protection and conservation of wetlands and habitats of importance to waterfowl</p>

Title	Summary
amendments	
EU Biodiversity Strategy to 2020	<p>In 2011 the European Commission adopted a new strategy to halt the loss of biodiversity and ecosystem services in the EU by 2020. There are six main targets, and 20 actions to help Europe reach its goal. The six targets cover:</p> <ul style="list-style-type: none"> · Full implementation of EU nature legislation to protect biodiversity. · Better protection for ecosystems, and more use of green infrastructure. · More sustainable agriculture and forestry. · Better management of fish stocks. · Tighter controls on invasive alien species. · A bigger EU contribution to averting global biodiversity loss.
EU Directive on the Conservation of Wild Birds, (2009/147/EC) 1979. Known as the Birds Directive	<p>This Directive ensures far-reaching protection for all of Europe's wild birds, identifying 194 species and sub-species among them as particularly threatened and in need of special conservation measures. Member States are required to designate Special Protection Areas (SPAs) for 194 particularly threatened species and all migratory bird species. SPAs are scientifically identified areas critical for the survival of the targeted species, such as wetlands. They are part of the Natura 2000 ecological network established under the Habitats Directive 92/43/EEC.</p>
EU Directive on the Conservation of Natural Habitats and of Wild Flora and Fauna, (92/43/EEC), 1992 known as the Habitats Directive	<p>The main goal of the Directive is to promote the maintenance of biodiversity by requiring Member States to take measures to maintain, protect or restore natural habitats, animal and plant species to a favourable conservation status, introducing robust protection for those habitats and species of European importance. For Ireland, these habitats include raised bogs, active blanket bogs, turloughs, sand dunes, machair (flat sandy plains on the north and west coasts), heaths, lakes, rivers, woodlands, estuaries and sea inlets. The Directive provides for a network of protected sites known as The Natura 2000 network, which limits the extent and nature of development which may have a detrimental effect on the flora or fauna identified therein.</p>
European Communities (Birds and Natural Habitats) Regulations 2011	<p>These regulations consolidate the European Communities (Natural Habitats) Regulations 1997 to 2005 and the European Communities (Birds and Natural Habitats)(Control of Recreational Activities) Regulations 2010, as well as addressing transposition failures identified in the CJEU judgements.</p> <p>Articles 6(1) and (2) of the Regulations require Member States to take appropriate conservation measures to maintain and restore habitats and species, for which a site has been designated, to a favourable conservation status. Furthermore the Regulations require Member States to avoid damaging activities that could significantly disturb these species or deteriorate the habitats of the protected species or habitat types. Under these regulations any plan or project likely to have a significant effect on a Natura 2000 site, either individually or in combination with other plans or projects, shall</p>

Title	Summary
	undergo an Appropriate Assessment to determine its implications for the site. The competent authorities can only agree to the plan or project after having ascertained that it will not adversely affect the integrity of the site concerned. In exceptional circumstances, a plan or project may still be allowed to go ahead, in spite of a negative assessment, provided there are no alternative solutions and the plan or project is considered to be of overriding public interest.
Green Infrastructure Strategy	The European Commission in May 2013 adopted a Green Infrastructure Strategy, ' <i>to promote the deployment of green infrastructure in the EU in urban and rural areas</i> '. This is a key step in implementing the EU 2020 Biodiversity Strategy and specifically Target 2 that requires that 'by 2020, ecosystems and their services are maintained and enhanced by establishing green infrastructure and restoring at least 15% of degraded ecosystems'. Green Infrastructure (GI) is contributing to all other targets of the EU Biodiversity strategy – in particular the full implementation of the Birds and Habitats Directive (target 1) – and to maintain and enhance biodiversity in the wider countryside and the marine environment (targets 3 and 4).
Population and Human Health	
The Stockholm Convention	The Stockholm Convention on Persistent Organic Pollutants is a global treaty to protect human health and the environment from chemicals that remain intact in the environment for long periods, become widely distributed geographically, accumulate in the fatty tissue of humans and wildlife, and have adverse effects to human health or to the environment.
Several environmental parameters interact and impact on human health including water quality, infrastructure, air quality, soil, cultural heritage and landscape; the plans, policies and programmes associated with these are presented under thematic headings as appropriate.	
Geology and Soil	
EU Soil Thematic Strategy	In September 2006, the European Commission published the final Thematic Strategy for Soil Protection (COM(2006)231 final) and a proposal for a Directive establishing a framework for the protection of soil across the EU (COM(2006)232). The objective of the strategy is to protect and ensure the sustainable use of soil, based on the guiding principles of preserving soil functions, preventing further degradation and restoring degraded soils to a level of functionality consistent with current and intended use. Once adopted the European Soil Thematic Strategy will guide and frame Ireland's approach to developing its own soil protection strategy.
Water Resources	
Water Framework Directive	The Water Framework Directive (WFD) was adopted in 2000 in an effort to establish a framework for the protection of

Title	Summary
(2000/60/EC) as amended	<p>waterbodies within the EU including: inland surface waters; groundwater; transitional waters; and coastal waters.</p> <p>The key aims of the WFD are: expanding the scope of water protection to all waters, surface waters and groundwater; achieving "good status" for all waters by a set deadline water management based on river basins; "combined approach" of emission limit values and quality standards. getting the prices right; getting the citizen involved more closely, and streamlining legislation.</p> <p>Its ultimate objective is to achieve "good ecological and chemical status" for all Community waters by 2015.</p>
Floods Directive (2007/60/EC)	The Directive aims to establish a common framework for assessing and reducing the risk that floods within the European Union pose to human health, the environment, property and economic activity.
The Drinking Water Directive (DWD), (98/83/EC) 1998	This Directive is intended to protect human health by laying down healthiness and purity requirements which must be met by drinking water within the Community.
Groundwater Directive, (2006/118/EC) 2006	This directive establishes a regime which sets underground water quality standards and introduces measures to prevent or limit inputs of pollutants into groundwater.
EC Bathing Water Quality Directive, (2006/7/EC) 2006	This Directive strengthens the rules guaranteeing bathing water quality It supplements Directive 2000/60/EC on water protection and management. Each year, the Member States are required to identify the bathing waters in their territory and define the length of the bathing season. They shall establish monitoring at the location most used by bathers or where the risk of pollution is greatest.
Climate and Air Quality	
Kyoto Protocol	The Protocol was initially adopted on 11 December 1997 in Kyoto, Japan, and entered into force on 16 February 2005. To date 191 states have signed and ratified the protocol. Following the Conference of Parties to the Climate Change Convention (COP) meeting in Copenhagen 2009, the EU revised its commitment to reducing greenhouse gases by increasing the target to 20% reduction on 1990 levels by 2020.
The Ambient Air Quality and Cleaner Air	The EU objective in relation to air quality is 'to achieve levels of air quality that do not result in unacceptable impacts on,

Title	Summary
for Europe (CAFE) Directive	and risks to, human health and the environment’.
Material Assets	
EU Directive on Waste, (2006/12/EC), 2006	This Directive requires EU States to publish waste management plans. It requires a system of permits and registrations to be put in place to authorise all waste management infrastructure, as well as setting down the basic requirements that need to be satisfied for these statutory authorisations to be issued.
EU Directive on Waste (2008/98/EC), 2008	<p>This Directive establishes a legal framework for the treatment of waste within the Community. It aims at protecting the environment and human health through the prevention of the harmful effects of waste generation and waste management.</p> <p>The Directive requires Member States to take measures for the treatment of their waste in line with the following hierarchy which is listed in order of priority:· prevention;· preparing for reuse;· recycling;· other recovery, notably energy recovery;· disposal.</p>
EU Urban Waste Water Treatment Directive (91/271/EEC), 1991	The aim of the Urban Waste Water Directive is to protect inland surface waters from the adverse effects of discharges of urban wastewater and discharge of certain biodegradable industrial waste water (particularly from the agro-food industry).
Directive 2009/28/EC on the promotion of the use of energy from renewable sources	Directive 2009/28/EC on the promotion of the use of energy from renewable sources establishes the basis for the achievement of the EU’s 20% renewable energy target by 2020. Under the terms of the Directive, each Member State is set an individually binding renewable energy target, which will contribute to the achievement of the overall EU goal. Each Member State is required to adopt a national renewable energy action plan.
Cultural Heritage Archaeology and Built Heritage	
The World Heritage Convention	<p>The World Heritage Convention was adopted by the United Nations Educational, Scientific and Cultural Organisation (UNESCO) in November 1972. The World Heritage Convention aims to promote cooperation among nations to protect heritage around the world that is of such outstanding universal value that its conservation is important for current and future generations..</p> <p>The following sites are on the tentative list for World Heritage Site Designation in the county: Inis Cealtra and the Burren.</p>
European Convention on the Protection of the Archaeological Heritage, 1992 (The Valletta Convention)	This Convention was ratified by Ireland in 1997 and as such the Planning Authority is legally bound by it. The aim of the Convention is to ‘protect the archaeological heritage as a source of the European collective memory and as an instrument for historical and scientific study’. It requires that appropriate consideration be given to archaeological issues at all stages

Title	Summary
	of the planning and development process.
Convention for the Protection of the Architectural Heritage of Europe, 1985 (Granada Convention)	<p>Ratified by Ireland in 1997, the 1985 Convention for the Protection of the Architectural Heritage of Europe is intended to reinforce and promote policies for the conservation and enhancement of Europe's heritage. The Convention is dual purpose, involving the promotion of architectural heritage policies while fostering European-wide co-operation measures. Covering monuments, groups of buildings and sites of importance, the Convention requires a national inventory of architectural heritage to be developed. Legal protection measures must be established, with a system of formal authorisation required for works affecting protected sites and structures. Architectural heritage conservation considerations are required to feature in the Convention signatories' town and Regional planning processes.</p>
Landscape	
The European Landscape Convention 2000	<p>The 2000 European Landscape Convention, adopted in Florence (and was ratified by Ireland in 2002), requires a commitment to introduce policies on landscape protection and management. It promotes the protection, management and planning of EU landscapes as a response to European-wide concerns that the quality and diversity of landscapes were deteriorating. The underlying purpose of the Convention is to encourage public authorities to adopt policies and measures at local, Regional, National and International level to protect and manage landscapes throughout Europe.</p>
Other relevant conventions, plans, policies and programmes	
The Aarhus Convention	<p>The Aarhus Convention establishes a number of rights of the public (individuals and their associations) with regard to the environment. The Parties to the Convention are required to make the necessary provisions so that public authorities (at national, regional or local level) will contribute to these rights to become effective.</p>
Environmental Liability Directive 2004/35/EC	<p>The overall objective of the Directive and the Regulations is to prevent and remedy environmental damage by holding operators whose activities have caused environmental damage financially liable for remedying the damage. The Environmental Liability Regulations 2008 define environmental damage under three categories:</p> <p>Damage to natural habitats and protected species - any damage that has significant adverse effects on reaching or maintaining the favourable conservation status of European designated habitats or species (i.e. those covered by the Habitats Directive (92/43/EEC) and Birds Directive (79/409/EEC)).</p> <p>Water damage - damage which significantly adversely affects the ecological, chemical and/or quantitative status and/or ecological potential of waters covered in the Water Framework Directive (2000/60/EC).</p> <p>Land damage - any contamination that creates a significant risk of human health being adversely affected as a result of the direct or indirect introduction in or under the land of substances, preparations, organisms or micro-organisms.</p>

Title	Summary
Sustainable Development	
Our Sustainable Future A framework for sustainable development in Ireland	Our Sustainable Future timeframe is to 2020 to tie in with other national and international frameworks, but a longer-term horizon to 2050 is also taken where appropriate, to provide a framework for guiding and reporting on long-term broad development trends such as on climate change.
The National Spatial Strategy 2002 -2020	The National Spatial Strategy (NSS) 2002-2020 is the national strategic planning framework to achieve a better balance of social, economic and physical development across Ireland, supported by more effective planning. It recognises that regions of the country have different roles and seeks to organise and coordinate these roles in a complementary way making all regions more competitive according to their strengths. It seeks also to promote a high quality urban environment, as well as vibrant rural areas. A review of same was announced in 2012 but the current NSS remains in place for now.
Biodiversity, Flora and Fauna	
Actions for Biodiversity 2011 – 2016, Ireland’s 2nd National Biodiversity Plan	The National Biodiversity Plan is intended to play a central part in Ireland’s efforts to halt biodiversity loss and was developed as in line with the EU and International Biodiversity strategies and policies. It sets out the strategic objectives of the government in relation to biodiversity
Wildlife (Amendment) Act 2000	The Wildlife Act is Ireland’s primary national legislation for the protection of wildlife. It covers a broad range of issues, from the designation of nature reserves, the protection of species, regulation of hunting and controls in wildlife trading. It is implemented by a series of regulations. The Act provides strict protection for nearly all birds, 22 other animal species, and 86 plant species. These species are protected from injury, or from disturbance / damage to their breeding or resting place wherever these occur. The 2000 Act was amended in 2010.
National Heritage Plan (2002)	The Department of Arts Heritage Gaeltacht and the Islands published the National Heritage Plan in April 2002. The plan sets out a vision for the management of the heritage of Ireland. A key element of the process of formulating the National Heritage Plan is the requirement to prepare Local Heritage Plans at County and City level.
Population and Human Health	
Guidelines for Planning Authorities on Sustainable Residential Development in Urban Areas (Cities, Towns & Villages) (2009)	The aim of these guidelines is to set out the key planning principles which should be reflected in development plans and local area plans, and which should guide the preparation and assessment of planning applications for residential development in urban areas.

Title	Summary
Geology and Soil	
Geological Heritage Sites Designation (under the Wildlife Amendment Act 2000)	The Wildlife (Amendment) Act 2000 provides for designation of Natural Heritage Areas (NHAs) which will include geological sites. Until actually designated, there is no real protection for any important sites identified by GSI and recommended for NHA status. However, a number of geological features are protected because they are the underlying reason for a biological or ecological site protected as a National Nature Reserve, National Park or as a Special Area of Conservation (SAC). In addition many local authorities have scheduled County Geological Sites within their County Development Plans.
Water Resources	
Eastern River Basin District Management Plan (2010)	The key objectives of the Water Framework Directive for the Eastern River Basin District (IRBD) are aimed at: <ul style="list-style-type: none"> • maintaining "high status" of waters where it exists; • preventing any deterioration in the existing status of waters and; • achieving at least "good status" in relation to all waters by 2015. The Management Plan presents a series of measures to achieve these.
Water Services Act (2007)	The Act sets down a comprehensive modern legislative code governing functions, standards, obligations and practice in relation to the planning, management, and delivery of water supply and waste water collection and treatment services. The Act focuses on management of water "in the pipe", as distinct from broader water resources issues such as river water quality, etc.
Water Services (Amendment) Act (2012)	The 2012 Act amends the 2007 Water Services Act in order to comply with a European Court of Justice ruling against Ireland in October 2009. The Court found that Ireland had failed to fulfil its obligations under the Waste Directive (75/442/EEC) regarding domestic waste waters disposed of through septic tanks and other individual waste water treatment systems. The new Part 4A requires each water services authority to establish and maintain a register of domestic waste water treatment systems situated within their functional area.
Irish Water Services Strategic Plan SEA and AA	The 25 year plan for strategic delivery of water services is currently being prepared and the SEA Scoping report was issued for consultation with a deadline in September 2014.
The Planning System and Flood Risk Management Guidelines (and Technical Appendices) for Planning Authorities (DoEHLG, OPW), 2009	<p>In relation to planning at the County level the guidelines require planning authorities to:</p> <ul style="list-style-type: none"> • introduce flood risk assessment as an integral and leading element of their development planning functions at the earliest practicable opportunity. • Align strategic flood risk assessment (SFRA) with the SEA process. • Establish flood risk assessment requirements as part of the preparation of the County Development Plan.

Title	Summary
	<ul style="list-style-type: none"> Assess planning applications against the guidance set out in the Guidelines. Ensure development is not permitted in areas of flood risk except where there are no suitable alternative sites.
Climate and Air Quality	
National Climate Change Strategy (2007-2012)	The National Climate Change Strategy 2007 - 2012 sets out a range of measures, building on those already in place under the first National Climate Change Strategy (2000) to ensure Ireland reaches its target under the Kyoto Protocol. The Strategy provides a framework for action to reduce Ireland's greenhouse gas emissions
Review of Ireland's climate change policy and Climate Action and Low Carbon Bill 2013	The National Economic and Social Council submitted a review of Ireland's climate change policy to the Minister of Environment in late 2012. The review includes the development of potential policies and measures to reduce greenhouse gas emissions in agriculture, transport, heat in buildings and renewable energy supply and a basis for a national transition to a low-carbon future by 2050.
Material Assets	
Smarter Travel, A Sustainable Transport Future, A New Transport Policy for Ireland 2009-2020	Smarter Travel is the transport policy for Ireland that sets out how the vision of a sustainable travel and transport system can be achieved.
Cultural Heritage Archaeology and Built Heritage	
National Monuments Act 1930 with subsequent amendments	This is the primary legal protection to archaeology in Ireland and has been amended a number of times, most recently 2004.
Architectural Heritage Protection - Guidelines for Planning Authorities (2011)	The 2004 guidelines were reissued in 2011 following the transfer of architectural heritage protection functions to the Department of Arts, Heritage and the Gaeltacht. Part IV of the Planning and Development Acts 2000 – 2011 sets out the legislative provisions for the protection and conservation of our architectural heritage
National Inventory of Architectural Heritage (NIAH)	The National Inventory of Architectural Heritage (NIAH) is a state initiative under the administration of the Department of Arts, Heritage and the Gaeltacht. The purpose of the NIAH is to identify, record, and evaluate the post-1700 architectural heritage of Ireland, uniformly and consistently as an aid in the protection and conservation of the built heritage. NIAH surveys provide the basis for the recommendations of the Minister to the planning authorities for the inclusion of particular structures in their Record of Protected Structures (RPS).
Landscape	
A National Landscape Strategy for Ireland –	The Department of Arts, Heritage and the Gaeltacht has issued A National Landscape Strategy for Ireland which sets out

Title	Summary
2015	objectives and principles in the context of a proposed National Landscape Strategy for Ireland.
Draft Landscape and Landscape Assessment Guidelines, (2000)	These Guidelines attempt to approach landscape appraisal in a systematic manner and recommend Landscape Character Assessment (LCA) as the method for assessment. LCA involves the characterisation of landscape based primarily on landcover (trees, vegetation, water etc.) and secondly on the value (i.e. historical, cultural, etc.). LCA is intended to aid the development management process as it gives indicators of development types which would be suited to certain locations using certain design criteria and consequently the character of the landscape remains intact.
<p>Planning and Development Act 2000 (as amended).</p> <p>This Act consolidated all planning legislation from 1963 to 1999 and remains the basis for the Irish planning code, setting out the detail of regional planning guidelines, development plans and local area plans as well as the basic framework of the development management and consent system. Among other things, it provides the statutory basis for protecting our natural and architectural heritage, the carrying out of Environmental Impact Statements and the provision of social and affordable housing.</p> <p>There have been a number of changes to the legislation since 2000, the most significant of which are set out in The Planning and Development (Amendment) Act 2002 and the Housing (Miscellaneous Provisions) Act 2004, which made substantial changes to Part V of the Act.</p> <p>In addition, a suite of new planning policies are being prepared most notably the National Planning Framework due to be finalised first quarter of 2017 which will replace the National Spatial Strategy. Prior to this a non-statutory Planning Policy Statement was issued in 2015 establishing then key principles including the following:</p> <ul style="list-style-type: none"> - No. 8. Planning will conserve and enhance the rich qualities of natural and cultural heritage of Ireland – - No. 9. Planning will support the protection and enhancement of environmental quality . 	

Title	Summary
Regional Planning Guidelines 2010-2020- to be replaced by Regional Economic and Spatial Strategies	The aim of the Regional Planning Guidelines (RPGs) is to provide a framework for long term strategic development of the Eastern and Midland Region for the period 2010 – 2022 which is consistent with the National Spatial Strategy (NSS) 2002 – 2020 and which ensures the successful implementation of the NSS at regional, county and local level. This NSS is being replaced by the National Planning Framework and the Regional Economic and Spatial Strategies for the Eastern and Midland Region are replacing the existing RPGs. The accompanying SEA ERs and NIRs for the above will be used in this SEA as appropriate and relevant.
Laois County Development Plan 2017-2023	This plan sets out on a statutory basis the development framework for Laois County. The main sections relate to core strategy, housing, social, community and recreation, infrastructure, heritage and economic development.

<p>Laois Local Economic and Community Plan 2016</p>	<p>The socio-economic framework centres around a number of themes key themes and goals which underpin the LECP. These themes and goals contribute to realising the overall vision. They include</p> <ul style="list-style-type: none"> Objectives and Actions to Diversify and Strengthen a Sustainable Laois Economy (Goal 2) Objectives and Actions to Support Innovation and Entrepreneurship (Goal 3) Objectives and Actions to Enrich Civic Participation and Empower Communities (Goal 4) Objectives and Actions to Promote Equality and Inclusiveness across all Sectors (Goal 5) Objectives and Actions to Recognize and Support the Diverse Needs of People (Goal 6) Objectives and Actions to Cultivate a Strong Laois Identity and an Excellent Quality of Life (Goal 7) Objectives and Actions to Create an Integrated and Holistic Approach to Education, Training and Employment (Goal 8) Objectives and Actions to Develop and Promote Ways of Living and Doing business that Support a Sustainable Environment and Resilient Communities (Goal 9) Objectives and Actions to Enhance and Sustain our Town and Village Centres and their Function as Focal Points for their Rural Hinterlands (Goal 10)
<p>Laois Heritage Plan 2014-2019</p>	<p>The heritage plan is underpinned by a number of objectives and supporting actions as follows:</p> <ul style="list-style-type: none"> Objective 1: Increase understanding of the heritage of Laois Objective 2: Record the heritage of Laois Objective 3: Protect and promote active conservation of the heritage of Laois Objective 4: Promote community participation in heritage plans and projects Objective 5: Promote enjoyment and accessibility of heritage sites
<p>Offaly County Development Plan 2014-2020</p>	<p>The Offaly CDP 2014-2020 is of particular relevance and this LAP has been prepared in conjunction with Offaly County Council</p>
<p>Offaly Local Economic and Community Plan 2016</p>	<p>Strategic goals are as follows:</p> <ul style="list-style-type: none"> Employment, Enterprise and Innovation Education, Training and Skills Tourism and Promoting Place Local and Community Development Green Energy and Sustainable Living Empowering Communities
<p>Offaly County Heritage Plan 2017-2021</p>	<p>Eight Action Areas for 2017 -2021</p>

	<p>Offaly County Council Heritage related projects such as 1916/2016 Centenary Commemorations and the follow on programme Creative Ireland; management of key county sites such as Durrow and Clonmacnoise, public realm plans and ongoing projects as they arise.</p> <p>Partnering with local communities and societies working on heritage projects, ranging from the Tidy Towns network to Historical Societies.</p> <p>Heritage and Tourism – making sites accessible and improving signage and information including inputs to www.visitoffaly.ie</p> <p>Developing a County Archive Service in partnership with Offaly History, the Library Service and private owners.</p> <p>Medieval churches/Monastic Site conservation of the structures, management plans and access (these sites are predominantly in Offaly County Council ownership)</p> <p>Publications – commissioning of and assisting with publications, specifically Offaly Castles and demesne landscapes which are currently in preparation.</p> <p>Biodiversity - promotion of the National Pollinator Plan, submitting records to the National Biodiversity Data Centre and control of invasive species with particular focus on Japanese and Himalayan knotweed and Himalayan Balsam.</p> <p>Access to heritage - coordinating and management of events such as Heritage Week, Offaly Naturalists' Field Club, Annual Offaly Heritage Seminar and awareness of Offaly's heritage through all appropriate means.</p>
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