

Section 10 Monitoring

10.1 Introduction

The SEA Directive requires that the significant environmental effects of the implementation of plans and programmes are monitored. This environmental report puts forward proposals for monitoring the development plan, which are adopted alongside the Development Plan. Monitoring enables, at an early stage, the identification of unforeseen adverse effects and the undertaking of appropriate remedial action.

In addition to this, monitoring can also play an important role in assessing whether the Development Plan is achieving its environmental objectives and targets - measures which the Development Plan can help work towards - whether these need to be re-examined and whether the proposed mitigation measures are being implemented.

10.2 Indicators and Targets

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

10.3 Sources

In compliance with the SEA Directive and the DEHLG Guidelines, measurements for indicators come from existing monitoring sources and no new monitoring should be required to take place. Existing monitoring sources exist for many of the indicators and include those maintained by Arklow Town Council and Wicklow County Council and the relevant authorities e.g. the Environmental Protection Agency, the National Parks and Wildlife Service and the Central Statistics Office.

The Development Management Process in Arklow Town Council and Wicklow County Council will provide additional monitoring of certain indicators and targets on an application-by-application basis. Where significant adverse effects - including positive, negative, cumulative

and indirect - are likely to occur upon, for example, entries to the RMP, entries to the RPS or ecological networks as a result of the undertaking of individual projects or multiple individual projects such instances will be identified and recorded and will feed into the monitoring evaluation.

10.4 Excluded Indicators and Targets

As noted on Table 10.1 below, monitoring data on Indicator W2 (Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC) may not be available for the preliminary monitoring evaluation as the groundwater threshold values to which this indicator relates have not yet been identified by the EPA.

In addition, future-monitoring data for Indicators AQ1 (Percentage of population within the County travelling to work or school by public transport or non-mechanical means) and AQ2 (Average distance travelled to work or school by the population of the County) will not be available until the results of the next CSO Census are made available. It is recommended that data for these indicators be sourced for the SEA of the next review of the Plan.

10.5 Reporting

A preliminary monitoring evaluation report on the effects of implementing the Development Plan will be prepared to coincide with the Manager's report to the elected members on the progress achieved in securing Development Plan objectives within two years of the making of the plan (this Manager's report is required under section 15 of the 2000 Planning Act).

10.6 Responsibility

Arklow Town Council and Wicklow County Council are responsible for collating existing relevant monitored data, the preparation of a monitoring report, the publication of this report and, if necessary, the carrying out of corrective action. It is recommended that a Steering Committee be established to oversee the monitoring process.

10.7 Thresholds

Thresholds at which corrective action will be considered are as follows:

- ⇒ 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 CDP.

Table 10.1 Monitoring Measures

Environmental Component	Selected Indicator(s)	Selected Target(s)	Sources
<p>Biodiversity and Fauna Flora</p>	<p>B1: Conservation status of habitats and species as assessed under Article 17 of the Habitats Directive</p> <p>B2: Number of significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites as a result of implementation of the DP</p> <p>B3: Percentage of relevant habitats and designated ecological sites lost as a result of implementation of the DP</p>	<p>B1: Maintenance of favourable conservation status for all habitats and species protected under national and international legislation</p> <p>B2: No significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites as a result of implementation of the DP</p> <p>B3: No losses of relevant habitats, species or their sustaining resources in designated ecological sites as a result of</p>	<p>Designated ecological sites mapping, CORINE Mapping, National Parks and Wildlife Service Records & Development Management Process in Arklow TC and Wicklow CoCo.</p> <p>Designated ecological sites mapping, Development Management Process in ATC & WW County Council & Consultation with the National Parks and Wildlife Service.</p> <p>Primary ecological corridors mapping, CORINE mapping and</p>

		implementation of the DP	Development Management Process in Arklow TC and Wicklow CoCo.
Population and Human Health	<p>HH1: Occurrence (any) of a spatially concentrated deterioration in human health arising from environmental factors as identified by the Health Service Executive (HSE) and Environmental Protection Agency (EPA)</p> <p>R1: Area of brownfield lands developed over the Development Plan's lifespan</p>	<p>HH1: No spatial concentrations of health problems arising from environmental factors as a result of implementing the Plan</p> <p>R1: Reduced availability of brownfield land (subject to availability on the open market, the demand for such land and the ability for such lands to be sustainably re-used) at the end of the Development Plan lifespan</p>	<p>Arklow TC and Wicklow County Council, EPA³³, HSA</p> <p>Development Management Process of Arklow TC and Wicklow County Council.</p>
Water	WS1: Classification of Overall Status (comprised of ecological and chemical status)	WS1: To achieve 'good status' ³⁴ in all bodies of surface waters by 2015 and to not	EPA

³³ Environmental Protection Agency

³⁴ Good status as defined by the WFD equates to approximately the following in the current national schemes of classification as set out by the EPA

- *Q4* in the biological classification of *rivers*;
- *Mesotrophic* in the classification of *lakes*; and,
- *Unpolluted* status in the Assessment of Trophic Status of *Estuaries and Bays* in Ireland (ATSEBI).

	<p>under the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (SI No. 272 of 2009)</p> <p>WS2: Poor, Sufficient, Good and Excellent classifications of bathing water as set by Directive 2006/7/EC</p> <p>WG1: Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC</p> <p>WF: Number of developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk</p>	<p>knowingly allow deterioration in the status of any surface water</p> <p>WS2: To achieve - as a minimum - the 'Sufficient' classification as set by Directive 2006/7/EC, and where possible to achieve the 'Good' or 'Excellent' classifications</p> <p>WG1: Compliance with Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC</p> <p>WF: Minimise developments granted permission on lands which pose - or are likely to pose in the future - a significant flood risk in compliance with <i>The Planning System and Flood Risk Management Guidelines</i> for Planning Authorities</p>	<p>EPA</p> <p>Data may not be available for this indicator when the monitoring evaluation is being prepared.</p> <p>Development Management Process of Arklow TC and Wicklow County Council.</p>
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<p>Material Assets</p>	<p>Waste Water Infrastructure</p> <p>WW1: Number of new developments granted permission which can be adequately served with waste water treatment over the lifetime of the Plan</p> <p>WW2: Preparation of a Water Services Strategic Plan - in compliance with the Water Services Act - for Arklow and its Environs</p> <p>Drinking Water Quality</p> <p>DW1: Number of non-compliances with the 48 parameters identified in the European Communities (Drinking Water) Regulations (No. 2) 2007 which present a potential danger to human health</p>	<p>WW1: All new developments granted permission to be connected to and adequately served by waste water treatment over the lifetime of the Plan</p> <p>WW2: For the Council to prepare a Water Services Strategic Plan in compliance with the Water Services Act</p> <p>DW1: No non-compliances with the 48 parameters identified in the European Communities (Drinking Water) Regulations (No. 2) 2007 which present a potential danger to human health as a result of implementing the Plan</p>	<p>Development Management Process of Arklow TC and Wicklow County Council.</p> <p>Wicklow County Council</p> <p>EPA, EPA Remedial Action List and the Council.</p>

	DW2: Preparation of a Water Services Strategic Plan - in compliance with the Water Services Act - for the functional area of the Council	DW2: For the Council to prepare a Water Services Strategic Plan in compliance with the Water Services Act	Wicklow County Council
Air and Climatic Factors	<p>AQ1: Percentage of population within the Town travelling to work or school by public transport or non-mechanical means</p> <p>AQ2: Average distance travelled to work or school by the population of the Town</p>	<p>AQ1: An increase in the percentage of the population travelling to work or school by public transport or non-mechanical means</p> <p>AQ2: A decrease in the average distance travelled to work or school by the population of the Town</p>	Central Statistics Office
Cultural Heritage	<p>Archaeological Heritage</p> <p>AH1: Percentage of entries to the Record of Monuments and Places - including Zones of Archaeological Potential - (and their context of the above within the surrounding landscape where relevant) protected</p> <p>Architectural Heritage</p> <p>AH2: Percentage of entries to the Record of Protected Structures (and/or their context within the surrounding landscape where relevant)</p>	<p>AH1: Protect entries to the Record of Monuments and Places - including Zones of Archaeological Potential - (and their context of the above within the surrounding landscape where relevant)</p> <p>AH2: Protect entries to the Record of Protected Structures (and/or their context within the surrounding landscape where</p>	Development Management/ Enforcement Process in the Council; Complaints from statutory consultees.

	protected AH2B: Number of additions to the Record of Protected Structures and the number of additional ACAs	relevant) AH2B: Make Additions to the Record of Protected Structures and make additional ACAs, where appropriate	Arklow Town Council and Wicklow County Council.
Landscape	L1: Number of complaints received from statutory consultees regarding avoidable impacts on the landscape resulting from development which is granted permission under the Plan	L1: No developments permitted which result in avoidable impacts on the landscape resulting from development which is granted permission under the Plan	Development Management/ Enforcement Process in the Council; Complaints from statutory consultees