

Regional Water Resources Plan

South East

Natura Impact Statement

Appendix A

Appendix B







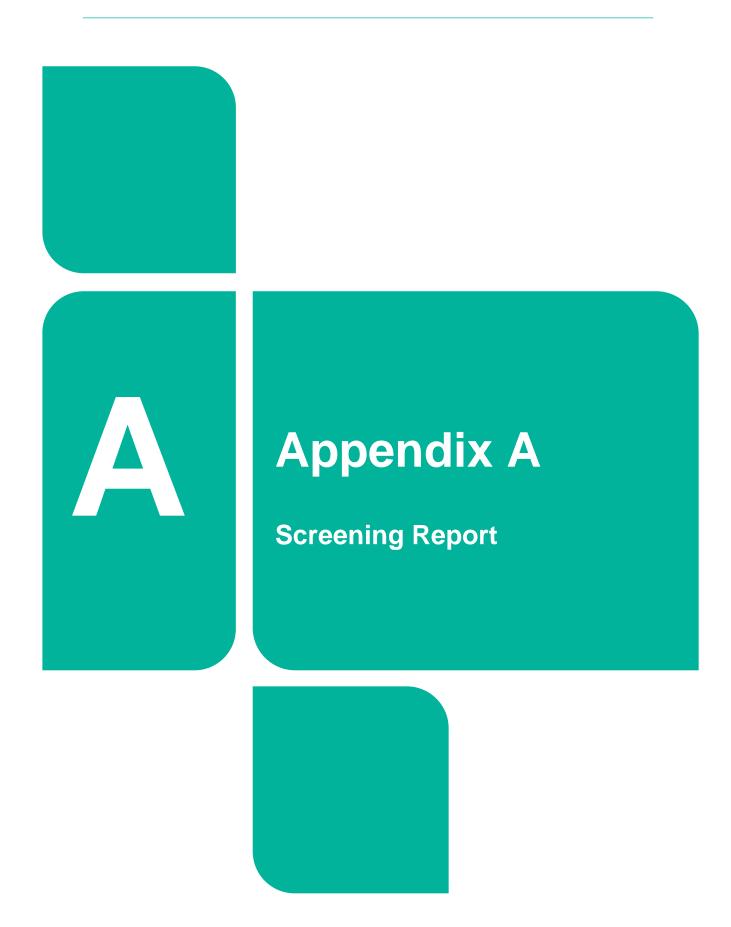
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Data disclaimer: This document uses best available data at time of writing. As data relating to population forecasts and trends are based on information gathered before the Covid-19 Pandemic, monitoring and feedback will be used to capture any updates. The National Water Resources Plan will also align to relevant updates in applicable policy. In December 2022, the Water Services (Amendment) (No. 2) Act, 2022 was signed into law. This act provides that, from the 31 December 2022, Irish Water will only be known as Uisce Éireann. It also provides that, from that date, all references in any enactment, legal proceedings or other document to Irish Water shall be construed as references to Uisce Éireann only. The NIS reflects this transition from Irish Water to Uisce Éireann.

Baseline data included in the RWRP-SE has been incorporated from numerous sources including but not limited to; National Planning Framework, Central Statistics Office, Regional Spatial and Economic Strategies, Local Authority data sets, Regional Assembly data sets and Uisce Éireann data sets. Data sources will be detailed in the relevant sections of the RWRP-SE. 2019 was selected as the base year to align with the planning period (2019-2025) of the NWRP.

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Natura Impact Statement Appendix A







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1	Introduction and Background	1
1.1	Introduction	2
1.2	Aim of this Report	2
1.3	Legislative Context for AA	2
1.4	Overlap with Strategic Environmental Assessment	4
1.5	Consultation	6
2	Development of the RWRP-SE	7
2.1	Background of the RWRP-SE	8
2.2	Scope of the RWRP-SE	9
2.3	Objectives of the RWRP-SE	9
2.4	Geographical Scale of the RWRP-SE	10
2.5	Temporal Scale	10
2.6	Transboundary Effects	11
2.7	Assessment Methodology Overview	14
3	Appropriate Assement Methodology	16
3.1	Stages of Appropriate Assessment	17
3.2	Approach to AA of Regional Water Resources Plans	18
3.3	Guidance documents in relation to Appropriate Assessment	19
3.4	Guiding Principles and Case Law	20
3.5	Identification of European Sites	20
4	Screening	23
4.1	Screening	24
4.2	Is the RWRP-SE exempt from assessment?	24
4.3	Description of the RWRP-SE	24
4.4	Identification of European Sites within the SE region	24
4.5	Assessment of Likely Significant Effects	25
4.6	In-combination Effects	30
4.7	Screening Conclusion	30
Refer	rences	31

1.1 Introduction

Uisce Éireann is developing the first National Water Resources Plan (NWRP) to identify deficiencies and need across a water supply and to develop plan level capital and operational solutions to address these issues. The NWRP has been split into two distinct phases:

Phase 1 is the Framework Plan which comprises the methodology Uisce Éireann has used to develop the plan and an assessment of need in terms of quality, quantity, reliability and sustainability for all of Uisce Éireann's supplies nationally. The Framework Plan was published for consultation in Winter 2020 and underwent a Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA). It was adopted by the Uisce Éireann Board in Spring 2021. Phase 2 of the Plan comprises four individual Regional Water Resources Plans (RWRP). Each of these Regional Plans summarises the needs for each Water Resources Zone (WRZ) in terms of quality, quantity, reliability and sustainability and applies the methodology developed in the Framework Plan to each water supply. This allows for the development of plan-level Preferred Approaches (solutions to identified need) for each supply. These four individual regions include:

- Regional Water Resources Plan-North West (RWRP-NW) (Group Area 1)
- Regional Water Resources Plan-South West (RWRP-SW) (Group Area 2)
- Regional Water Resources Plan-South East (RWRP-SE) (Group Area 3)
- Regional Water Resources Plan-Eastern and Midlands (RWRP-EM) (Group Area 4)

The RWRP-EM, RWRP-SW and RWRP-NW were adopted following an SEA and AA each by the Uisce Éireann Board in September 2022. Spring 2023, and Summer 2023 respectively. The RWRP-SE was the final plan to be published for consultation. The NWRP, once finalised, will comprise of the Framework Plan and the four Regional Water Resources Plans.

1.2 Aim of this Report

Habitats and species of European importance are provided legal protection under the EU Habitats Directive 92/43/EEC (the Habitats Directive). The Directive protects habitats and species of community interest through the establishment and conservation of an EU-wide network of sites known as the Natura 2000 network (hereafter referred to as European sites¹). European sites comprise Special Areas of Conservation (SACs²) and Special Protection Areas (SPAs).

This report provides information in support of a Screening for Appropriate Assessment (AA) of the RWRP–SE Plan in line with the requirements of Article 6(3) of the EU Habitats Directive. It examines the potential for the Plan on its own or in combination with other plans and projects to have likely significant effects (LSEs) on one or more European site(s) in view of the sites' conservation objectives.

1.3 Legislative Context for AA

1.3.1 Underpinning Legislation

The Habitats Directive has been transposed into Irish law by the Planning and Development Act 2000 (as amended) and the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I.

¹ The term Natura 2000 network was replaced by 'European site' under the EU (Environmental Impact Assessment and Habitats) Regulations 2011 S.I. No. 473 of 2011.

² Candidate SAC (cSAC) are afforded the same protection as SACs. The process of making cSAC into SACs by means of Statutory instrument has begun and while the process if ongoing the term SAC will be used to conform with nomenclature used in the National Parks and Wildlife Services (NPWS) databased.

^{2 |} Uisce Éireann | Regional Water Resources Plan-South East. Screening for Appropriate Assessment

477/2011) (hereafter referred to as the Habitats Regulations 2011). Articles 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to affect European sites.

Article 6(3) establishes the requirement for AA:

"Any plan or project not directly connected with or necessary to the management of the site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subject to Appropriate Assessment of its implications for the site in view of the site's conservation objectives. In the light of the conclusions of the assessment of the implications for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public."

1.3.2 Public Authorities and Appropriate Assessment

The duties of public authorities in relation to nature conservation are laid out principally in Article 27 of the Habitats Regulations 2011. Uisce Éireann is defined as a 'public authority' for the purposes of the 2011 Regulations.

The first step of the AA process is to carry out a screening to establish whether, in relation to a particular plan or project, there is potential for LSEs to any European site(s). Specifically, Regulation 42(1) states:

"Subject to Regulation 42A, a Screening for Appropriate Assessment of a plan or project for which an application for consent is received, or which a public authority wishes to undertake or adopt, and which is not directly connected with or necessary to the management of the site as a European site, shall be carried out by the public authority to assess, in view of best scientific knowledge and in view of the conservation objectives of the site, if that plan or project, individually or in combination with other plans or projects is likely to have a significant effect on the European site."

Regulation 42A applies to situations where the Minister for Housing, Local Government and Heritage is the person responsible for making or adopting the relevant plan or project, so is not applicable in respect of the NWRP.

Regulation 42(6) states that:

"The public authority shall determine that an Appropriate Assessment of a plan or project is required where the plan or project is not directly connected with or necessary to the management of the site as a European site and if it cannot be excluded, on the basis of objective scientific information following screening under this Regulation, that the plan or project, individually or in combination with other plans or projects, will have a significant effect on a European site"

In the context of Article 6(3), Uisce Éireann must carry out Screening for AA of the RWRP–SE to assess whether, on the basis of objective scientific information, the plan individually or in-combination with other plans or projects, is likely to have a significant effect on a European site. If this screening determines that it cannot be excluded, on the basis of objective scientific information, that the Plan, individually or in combination with other plans or projects, will have a significant effect on a European site, then Uisce Éireann must determine that an Appropriate Assessment of the plan is required.

To assist Uisce Éireann in carrying out any Appropriate Assessment that may be required following screening, Uisce Éireann must prepare a Natura Impact Statement (NIS), which is a report comprising the scientific examination of a plan or project and the relevant European site or European sites, to identify and characterise any possible implications of the plan or project individually or in combination with other plans or projects in view of the conservation objectives of the site or sites, and any further

information including, but not limited to, any plans, maps or drawings, scientific information or data required to enable the carrying out of an Appropriate Assessment.

In carrying out the full Appropriate Assessment, the Habitats Regulations 2011 require Uisce Éireann to take into account:

- The NIS:
- Any other plans or projects that may, in combination with the plan or project under consideration, adversely affect the integrity of a European site;
- Any supplemental information furnished in relation to any such report or statement;
- If appropriate, any additional information furnished in relation to the NIS;
- Any information or advice obtained by Uisce Éireann;
- If appropriate, any written submissions or observations made to Uisce Éireann in relation to the application for consent for the Plan; and
- · Any other relevant information.

Following the Appropriate Assessment process, Uisce Éireann must then only adopt the Plan after having determined that the Plan shall not adversely affect the integrity of any European site(s).

1.4 Overlap with Strategic Environmental Assessment

A Strategic Environmental Assessment (SEA) of the RWRP–SE is being carried out concurrently with the AA process. SEA is required under the EU Council Directive 2001/42/EC on the Assessment of the Effects of Certain Plans and Programmes on the Environment (the SEA Directive) and are transposed into our national legislation via regulations³. The purpose of SEA is to enable plan-making authorities to incorporate environmental considerations into decision-making at an early stage and in an integrated way throughout the plan making process and to:

- Identify, evaluate and describe the potential significant environmental effects of implementing the RWRP-SE:
- Ensure that identified significant effects are communicated, mitigated and that the effectiveness of mitigation is monitored;
- Identify beneficial (and neutral) effects, and to ensure these are communicated; and
- Provide opportunity for stakeholder and public involvement.

There is a degree of overlap between the requirements of the SEA and AA and, in accordance with best practice, an integrated process has been and will be carried out between the development of the RWRP–SE, the SEA and the AA, such as sharing of baseline data where relevant, cohesive assessment of the potential ecological effects of the RWRP–SE on European sites, their qualifying features, and clarification on more technical aspects of the RWRP. These processes together will inform and shape the development of the RWRP–SE.

Figure 1.1 below outlines the SEA and AA Stages and how they align with the development of the RWRP–SE.

³ In Ireland, the SEA Directive has been transposed into national legislation through S.I. No. 435 of 2004 (European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004, as amended by S.I. No. 200 of 2011 (European Communities (Environmental Assessment of Certain Plans and Programmes) (Amendment) Regulations 2011). Also, S.I. No. 436 of 2004 (Planning and Development (Strategic Environmental Assessment) Regulations 2004, as amended by External link S.I. No. 201 of 2011 (Planning and Development (Strategic Environmental Assessment) (Amendment) Regulations 2011).

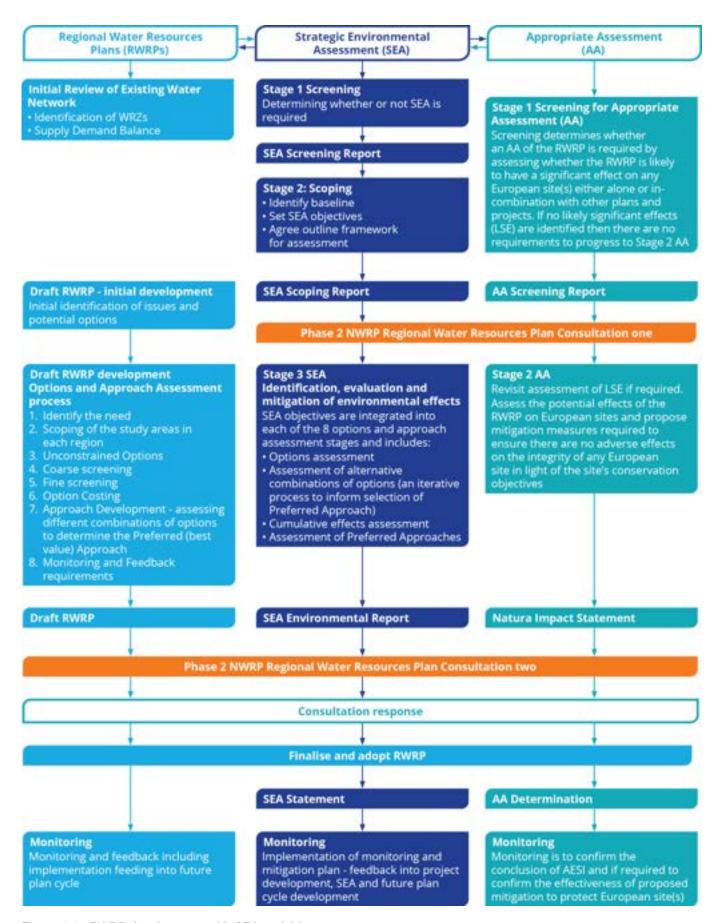


Figure 1.1 - RWRP development with SEA and AA process

1.5 Consultation

Consultation is a mandatory requirement in the SEA process and responses often make specific reference to the AA process. In line with Article 9 (5) of the SEA Regulations (S.I. No. 435 of 2004 as amended by S.I. 200 of 2011), the SEA Scoping Report will be issued to the following statutory Environmental Authorities:

- The Environmental Protection Agency (EPA);
- Department of Housing, Local Government and Heritage (DHLGH);
- The Department of Agriculture, Food and the Marine (DAFM);
- Department of Environment, Climate and Communications (DECC); and
- Northern Ireland Environment Agency (NIEA) (transboundary related).

However, Uisce Éireann will undertake wider consultation with government bodies and key stakeholders in the water sector, and members of the general public can access the documents online if they so wish. Comments and views on the SEA Scoping Report will be taken into account in order to inform the approach for the SEA and where relevant the AA process.



2.1 Background of the RWRP-SE

Uisce Éireann's NWRP is the first resources plan for the public water supply in the Republic of Ireland. It allows Uisce Éireann to integrate Government Policy, Legislation and external factors that have the potential to impact Irish water supplies into the planning and operation of their existing and future supply asset base.

The objective of the NWRP is to manage customer and communities needs while meeting their requirements over the short, medium and long term by ensuring safe, secure, sustainable and reliable water supplies. The NWRP will:

- Enable Uisce Éireann to address needs across our water supplies in the most effective way over time, through the regulated investment cycles;
- Ensure that there is a transparent framework to develop the most appropriate projects/programmes to meet statutory obligations in relation to water supply; and
- Provide a framework to track outcomes, allowing interventions to be prioritised to bring the water supply up to the required standards in the shortest possible timeframe.

As a basis for broad public and stakeholder engagement, the NWRP will be delivered in two phases.

The first Phase of the NWRP is the Framework Plan which details the methodologies that have been developed in order to identify need and find solutions to address need across all of their supplies in the Republic of Ireland.

Phase 2 of the NWRP is the RWRPs which divides the public water supply into four regional groupings as shown in Figure 2.1 below. The formation of these groups is based on:

- Environmental boundaries: Taking account of water catchments as delineated by the Environmental Protection Agency under the River Basin Management Plans.
- Uisce Éireann Operational Regions (North and West, Eastern and Midlands, and Southern Region).
- In order to allow us to optimize the staffing resources during the roll out of the Regional Water Resource Plans, the large number of WRZs in the Southern Region has meant we have split the area into two groups, South West and South East.
- Local Authority boundaries: This allows us to align the Local Authority Development Plans to our Supply Demand forecasts, and to assess the full options assessments process with our colleagues in the Local Authority Water Services Sections

The RWRPs are referred to as follows:

- Regional Water Resources Plan-North West (RWRP-NW) (Group Area 1)
- Regional Water Resources Plan-South West (RWRP-SW) (Group Area 2)
- Regional Water Resources Plan-South East (RWRP-SE) (Group Area 3)
- Regional Water Resources Plan-Eastern and Midlands (RWRP-EM) (Group Area 4)



Figure 2.1 – Regional Group Areas for Phase 2

Each of these Regional Plans summarises the needs for each WRZ in terms of quality, quantity, reliability and sustainability and applies the methodology developed in the Framework Plan to each water supply. This allows for the development of plan-level Preferred Approaches (solutions to identified need) for each supply.

2.2 Scope of the RWRP-SE

The RWRP-SE is a plan identifying how to provide safe, secure and reliable water to Uisce Éireann's customers in the South East Region for the next 25 years, without causing adverse impacts on the environment.

2.3 Objectives of the RWRP-SE

The objective of the RWRP-SE is to set out how Uisce Éireann intends to maintain the balance between supply and demand for drinking water over the short, medium and long term. This involves:

- Identifying all possible solutions for each WRZ by the application of the options assessment methodology;
- Screening out all options that are not feasible;
- Developing outline designs for Feasible Options;
- Through Multi Criteria and whole life cost analysis, developing Feasible Options and Preferred Approaches for each WRZ in the short, medium and long term;
- Assessing the Feasible Options to develop a Preferred Approach for each WRZ. This would be expected to result in small local options that can resolve need solely within all or part of the WRZ.
- Assessing the Feasible Options to see whether any Regional Options are available to meet the need across multiple WRZs. This stage can yield a modified Preferred Approach at the Study Area level.

- Assessing the Feasible Options at the Regional Group Area level to see if there are any options that can be applied across the entire Region and, if appropriate, adjust the Preferred Approach accordingly; and
- Assessing any inter-regional options and potential cumulative or in-combination effects and determine if any adjustment is required.

2.4 Geographical Scale of the RWRP-SE

The first stage of the RWRP-SE process is defining the WRZs within the regional group. A WRZ is the largest self-contained area within which all water resources can be shared, and all customers experience a similar level of risk of supply failure. From an initial review of the resource systems it is anticipated that there will be approximately 111 WRZs identified based on the level of interconnectivity. WRZs are normally made up of a number of Water Supply Zones (WSZs). WSZ is the area supplied by an individual water supply scheme. This typically includes one or more abstractions (from a river, lake or groundwater source), a treatment plant, storage in reservoirs and the distribution pipe network to deliver the water to each household or business.

WSZs in relation to key settlements in the South East region are illustrated in Figure 2.2 below.

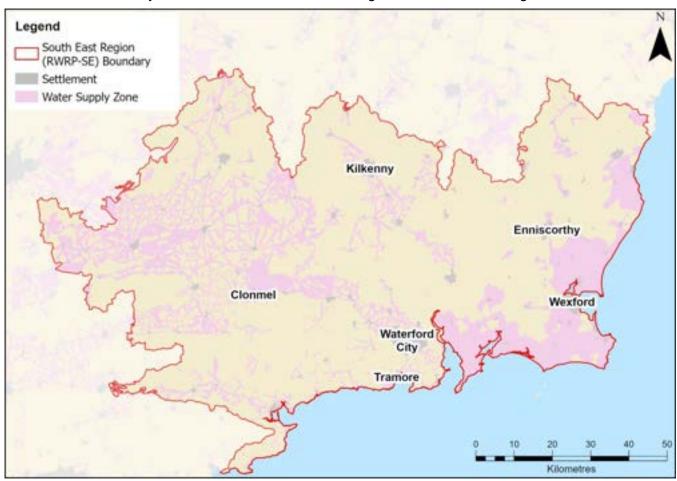


Figure 2.2 - Water Supply Zones and Key Settlements in the South East region

2.5 Temporal Scale

The RWRP-SE will cover the supply demand balance (SDB) for WRZs within the SE region on a 25-year basis and will be reviewed at least every five years. It is intended that the RWRP-SE will be published in spring 2023, with 2020 as the base year of the study. The RWRP will cover the 25-year period until 2045.

2.6 Transboundary Effects

The RWRP–SE solely covers Uisce Éireann's operational area for the South East and is therefore not a transboundary plan. However, potential transboundary issues or effects will be taken into consideration as part of the AA process. For the purposes of the assessment waterbodies are considered the main potential transboundary issue.

2.6.1 Identification of Options

A key aim of the RWRP–SE is to allow Uisce Éireann to maintain a balance between supply and demand. A supply demand balance forecast will enable the identification of any current or predicted water supply deficits from each WRZ. Using this information, a list of potential option types to address that deficit has been developed, as detailed in Table 2.1 below. The RWRP-SE methodology will assess the WRZ and the sources within them to identify options that could provide a sustainable, reliable source of water into the future.

Table 2.1 - Option types

RWRP category	RWRP sub- category	Summary
Lose Less		
Leakage Reduction		Reducing leakage from the network is a priority for Uisce Éireann. This can involve a range of measures for actively detecting and repairing leaks such as the installation of meters to better identify customer leakage activity and advanced monitoring tools and techniques to better identify leaks. Leakage reduction will focus on targeted replacement of ageing pipes, pressure management to minimise fluctuations and excessive pressures providing more constant pressures to Uisce Éireann customers whilst reducing bursts and the application of different leak repair approaches to minimise cost and disruption.
Use Less		
	Education & Awareness	Environmental awareness/education campaigns and partnerships and distribution of educational materials to raise awareness of water shortages and encourage water conservation and efficiency.
Water Efficiency	Water Efficiency Measures	Use of water efficient products and processes in new and refurbished housing developments and working with building standards to ensure that water efficiency measures are included in standards regulations as mandatory. Encouraging take up of water efficiency measures by domestic and non-domestic customers such as more efficient appliances, repair of leaking toilets, use of water audits.
		Actively pursue business customers and industry for partnerships that involve water efficiency goals.
		Investigate how to use water within Uisce Éireann's existing assets more

RWRP category	RWRP sub- category	Summary
		efficiently through improved treatment processes and recycling of effluent water for appropriate uses.
	Recycling and Reuse	The recycling of treated wastewater or grey water provides a critical supplementary water source for non-potable activities therefore alleviating stress on primary water sources. Grey water refers to the water used in baths, sinks, washing machines, and other kitchen appliances. In periods of drought, when potable water is in short supply, grey water can be a potential alternative water source for activities such as agricultural and landscape irrigation, industrial process, and toilet flushing.
	Metering	Domestic water metering can build a better understanding of water use and network pressures to improve water efficiency and therefore water security and identify leaks. Water meters with advanced analytics to undertake flow balances across the network can allow Uisce Éireann to gain a better understanding of the whole network from the abstraction point to the customers
Supply Smarter -	- resource supply op	tions ⁴
Surface Water	Surface Water Abstraction	Increasing the abstraction at an existing river or lake source or developing a new river or lake source from which water can be sustainably abstracted. These options would be subject to an abstraction licence.
	Groundwater Abstraction	Increasing the abstraction at an existing groundwater source or developing a new groundwater source from which water can be sustainably abstracted. These options would be subject to an abstraction licence.
Groundwater	Aquifer Storage Recovery	Storage of treated or raw water in suitable aquifers. During times of plentiful water supply, excess water withdrawn from a river, lake or another groundwater source is injected and stored within an aquifer. This supplementary stored water can be extracted from the aquifer during periods of dry weather and/or increased demand when the primary supply sources are running low. This requires aquifers with suitable characteristics to be available as the risks of losses can be high.

⁴ It is important to note that these option types are not necessarily alternatives to each other; in the majority of the WRZs a combination of options will be selected as the preferred / recommended approach. For example, surface water and groundwater abstractions can be used in combination, this is called conjunctive use and involves the storing of surface water in groundwater basin in wet years and withdrawing it from the basin in dry years. Additionally, most new or increased abstractions will involve upgrades to or construction of new WTPs and new or upgraded transfers.

^{12 |} Uisce Éireann | Regional Water Resources Plan-South East. Screening for Appropriate Assessment

RWRP category	RWRP sub- category	Summary	
Reservoirs	Storage Reservoirs	Provision of storage reservoirs which can be filled with untreated water abstracted during high flow conditions from surface waters to be drawn on during low flow periods or to provide additional resilience during droughts as a back-up supply source.	
Catchment Management	Catchment management for ground or surface water sources	Activities such as agriculture, forestry, industry and waste management all have an impact on the retention of water in the catchment and the quality of the water within rivers and loughs. Pollutants in the water can lead to ecological deterioration, increased flood risk and can also create issues for water treatment. There may be scope for changes to land management through working in partnership with landowners, farmers and regulators to develop agreements and share information and resources to provide long term improvements with wide benefits including water suitable for supply from surface or groundwaters.	
Effluent Reuse	Recycling of wastewater effluent from treatment plants can produce new supply source from wastewater which is otherwise discharged rivers or the sea. This involves treating wastewater to a sufficiently standard to meet supply standards relevant for the intended use for example for agricultural/horticulture/industry/water supply or for relevant to maintain flows.		
Desalination seawater or bra Coastal or consumption ar		This involves the process of removing salt and other minerals from seawater or brackish water ⁵ river estuaries to make it suitable for human consumption and/or industrial use. The level of treatment required is related to the salt concentration of the water.	
Water Transfers	Transfers	Water transfer is the physical movement of water from one area to another usually via pipelines, although other means such as canals or aqueducts can be used. These generally refer to the transfer of treated water and can vary considerably in scale in terms of size and length from local transfers from one WRZ to another, to regional transfers and interutility transfers (from Northern Ireland Water).	
	Tankering	Delivery of treated water to customers via road tanker to alleviate temporary short-term water shortages in certain localised situations.	
Network Improvements Network Improvements (general) Network operational improvements. The distribution and avoid network reinforcement improving connections		Network improvement involves works such as upgrade, replacement or operational improvements. They are undertaken to facilitate better water distribution and avoid network limitations. Therefore, strategic network reinforcement improving connections between different sources and customer supply can significantly improve security and resilience.	

⁵ Brackish water is water that has more salt than freshwater, but not as much as seawater that is generally found in estuaries.
13 | Uisce Éireann | Regional Water Resources Plan-South East. Screening for Appropriate Assessment

RWRP category	RWRP sub- category	Summary
	Service Reservoir Expansion	Service reservoirs store treated water. They are used to balance out the steady supply of treated water they receive from WTPs and the fluctuating variations in customer demand during a 24-hour period. They can also be used to store a backup supply in low flow events but for a limited period of time.
Water	WTP Expansion/ Rationalisation	Expansion of existing WTPs to facilitate the treatment of a higher volume of water. This option would be considered in-combination with an increase of a surface water or ground water abstraction or the provision of a new surface water our ground water source. Expansion of existing WTPs may be carried out as part of a rationalisation process which involves the merging of WTPs. Rationalisation is carried out to reduce water supply costs, take a malfunctioning WTP out of service or to cease abstraction from an unsustainable source.
Treatment Plants	WTP Process Losses	For every litre of untreated water extracted from a source and fed through a water treatment plant to the supply distribution network, a small fraction of the water will be lost from the system as a result of the treatment losses. Generally, WTPs are designed to recover, treat and recycle as much of the waste stream as economically feasible. However, there can be opportunities to improve efficiency through the upgrading and installation of more complex treatment processes to reduce these process losses and therefore increase the Water Available For Use (WAFU).

2.7 Assessment Methodology Overview

As described in Chapter 8 of the Framework Plan all option types are considered and compiled into an "Unconstrained Options" list. The Unconstrained Options constitute all of the possible solutions, which either fully or partially resolve a water supply deficit, regardless of any cost, environmental or social constraints.

The Unconstrained Options list is refined using a Coarse Screening assessment which rules out any non-viable options. Each option is assessed in terms of their resilience, deliverability and flexibility, and sustainability (environmental and social impacts).

There is some overlap with the Birds Directive (2009/147/EC), the Habitats Directive (92/43/EEC) and the Water Framework Directive (WFD) (2000/60/EC) in relation to the protection of water dependent habitats and species. Under the WFD areas are designated for the protection of habitats or species where the maintenance or improvement of the status of water is an important factor in their protection, including relevant European sites. The linkages between the Birds and Habitats Directives (BHD) and the WFD were discussed in a document published by the European Commission (2011) which states:

"Any Natura 2000 site with water-dependent (ground- and/or surface water) Annex I habitat types or Annex II species under the Habitats Directive or with water-dependent bird species of Annex I or

migratory bird species of the Birds Directive, and, where the presence of these species or habitats has been the reason for the designation of that protected area, has to be considered for the register of protected areas under WFD Art. 6. These areas are summarised as "water-dependent Natura 2000 sites". For these Natura 2000 sites, the objectives of BHD and WFD apply".

Therefore, WFD waterbody status is taken into account by reviewing existing, new or increased abstractions and assessing whether these can meet allowable abstraction criteria. An allowable abstraction standard of 10% of Q95 is applied with the exception of waterbodies requiring "High" status where a higher threshold of 5% of Q95 is applied. The application of these abstraction standards will help to ensure that any new or increased abstractions from rivers designated as SACs (which require "Good" and/or "High" status water quality) will align with the conservation objectives of these designated sites. Allowable abstraction standards for lakes are set at 10% of Q50 for "Moderate" status lakes and 5% of Q50 for "High" statues lakes respectively in line with the water quality standards applicable to lakes. Further information on allowable abstractions, yield assessments and supply assessments is provided in the Framework Plan.

After the Coarse Screening Assessment, the remaining options, known as "Constrained Options" are carried forward for more detailed Multi Criteria Assessment at the Fine Screening Stage. This process requires a more detailed analysis of the options and their potential benefits and impacts across the key criteria. The output after the Fine Screening Stage is called the Feasible Options list.

The Feasible Options list is assessed against six approaches to result in the Preferred Approach options that meet the objectives of the Plan and aligns with all relevant Government policy.

³



3

Appropriate Assessment Methodology

3.1 Stages of Appropriate Assessment

The methodology for undertaking assessment in relation to AA has evolved from European Commission (2021) guidance and Irish guidance from the former Department of Environment, Heritage and Local Government (2010). The entire process can be broken down into four stages (Article 42/43 of the Habitats Regulations 2011), as outlined below. If at any stage in the process it is determined that there will be no implications for the European site in view of the site's conservation objectives, the process is effectively completed. The four stages are:

Stage 1 - Screening for Appropriate Assessment (AA)/Test of Likely Significant Effects: Screening determines whether an AA is required by determining if the project or plan is likely to have a significant effect(s) on any European site(s) either alone or in-combination with other plans or projects, in light of the site's conservation objectives (see Figure 3.1).



Figure 3.1 - Screening for AA

Stage 2 – Appropriate Assessment: If the screening has determined there are LSEs from the plan/project either alone or in-combination with other plans and projects on European Site(s) the implication for European sites are further assessed in the context of the implications for their conservation objectives and Adverse Effects on Site Integrity (AESI) analysed. If it is determined on further analysis and data gathering that the plan/project will not adversely affect the integrity of the relevant European site(s) then the Stage 2 Appropriate Assessment can conclude no AESI. However, if there are potential issues identified for the conservation objectives of the European site(s) then mitigation is required to protect the site's conservation objectives. The AESI analysis is re-run and considers the structure and function of European sites, their conservation objectives and effects from the project/plan both alone and in-combination with other projects or plans. Where AESI are identified, mitigation measures are proposed as required to avoid adverse effects on the integrity and conservation objectives of the European site(s). The information and data to inform the AA process is documented within a NIS. This is provided to the competent authority to facilitate their AA determination of the plan or project.

Stage 3 – Assessment of Alternative Solutions: Following AA, including mitigation proposals, if AESI remain, or uncertainty remains and the project/plan is to be progressed, an Assessment of Alternative Solutions is required under the provisions of Article 6(4) of the Habitats Directive. This process examines the alternative ways of achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the European site. If no alternatives exist, or all alternatives would result in adverse effects on

the integrity of a European site, then either the process moves to the next stage or the project is abandoned.

Stage 4 – Imperative Reasons of Over-Riding Public Interest (IROPI): In the unlikely event where an Assessment of Alternative Solutions fails to identify any suitable alternatives, then for a project or plan to be progressed it must meet the requirements of IROPI. In this case the provisions of Article 6(3) cannot be met and therefore, the provisions of Article 6(4) are used. If in the light of an assessment of imperative reasons of overriding public interest (IROPI), it is deemed that the project or plan should proceed, thus compensatory measures are implemented to maintain the coherence of the European site network in the face of adverse effects to the integrity of the site(s).

3.2 Approach to AA of Regional Water Resources Plans

RWRPs are required to identify specific water resource options to address predicted SDB deficits in a given WRZ within a defined region. The approach to this AA Screening takes consideration of their strategic nature and uses objective information to determine whether the Plan, in this case a regional Plan, have LSEs for European sites in the manner outlined in *Commission of the European Communities v United Kingdom of Great Britain and Northern Ireland* (Court of Justice of the European Union, Case C-6/04, Opinion of Advocate General Kokott)⁷ and Waddenzee (Court of Justice of the European Union, C-127/02).

3.2.1 Application of the AA process at Plan level

In the context of AA Screening, when applying the 'test of significance' the test is of the "likelihood" of effects rather than the "certainty" of effects. In accordance with the Waddenzee Judgement, a likely effect is one that cannot be ruled out based on objective information and is underpinned by the precautionary principle and the test of beyond reasonable scientific doubt. This test therefore sets a low bar: a plan should be considered 'likely' to have an effect if the competent authority (in this case Uisce Éireann) is unable (on the basis of objective information) to exclude the possibility that the plan could have significant effects on any European site, either alone or in-combination with other plans or projects. An effect is considered to be 'significant' if it could undermine a European site's conservation objectives.

The methodology for undertaking Screening for AA can be applied at both a project and plan level assessment. The suitability of the data and information used and any decisions flowing from its use in the RWRP-SE assessment have to meet the provisions and requirements of the Habitats Directive. The strategic assessments at the plan level will inevitably be undertaken at a higher level than would be the case for projects. However, the RWRP-SE does not provide consent for any future projects arising from it or future iterations of the plan but, demonstrates that the protection for the European site network is suitably considered and achievable in the context of the remit of the plan. Also, any future project level AA Screenings and/or NIS will have regard for the plan level AA Screening as the projects have been identified or specified from the RWRP-SE. To note, all of Uisce Éireann's projects are screened for AA. Therefore, all projects arising from the RWRP-SE will additionally be required to go through individual environmental assessments (including AA Screening and if needed AA). These will be obligatory in support of planning applications (where a project requires planning permission) or in support of licensing applications (for example, for new or increased surface or groundwater abstractions).

⁷ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A62004CC0006 Accessed August 2020.

⁸ [ECJ case C-127/02]

3.2.2 Compliance of the RWRP-SE development process with the Habitats Directive

The RWRP identifies needs in terms of quantity, quality and reliability, and develops a methodology (Option Assessment Methodology) to develop interventions to address this need. The AA Screening for the RWRP-SE has assessed at a high level the Options Assessment Methodology and the option types that are likely to arise from the RWRP-SE. The RWRP-SE identifies option types that could be applied across the South East region.

The AA Screening for the RWRP-SE therefore assesses the potential impacts on European sites of the RWRP-SE at a regional scale within the South East region.

Applying the above approach demonstrates that the development of the RWRP-SE is compliant with the requirements of the Habitats Directive.

3.3 Guidance documents in relation to Appropriate Assessment

The requirements of Article 6 of the Habitats Directive for the RWRP-SE have been applied following the guidance documents:

- AA of Plans and Projects in Ireland: Guidance for Planning Authorities (Department of Environment, Heritage and Local Government, 2010a);
- Appropriate Assessment Screening for Development Management. OPR Practice Note PN01. (Office of the Planning Regulator, 2021).
- Assessment of Plans and Projects in Relation to Natura 2000 Sites Methodological Guidance on Article 6(3) and (4) of the Habitats Directive 92/43/EEC (European Commission, 2021);
- Communication from the Commission on the Precautionary Principle (European Commission, 2000);
- Guidance Document on Article 6(4) of the 'Habitats Directive' 92/43/EEC. Clarification of the concepts of: Alternative Solutions, Imperative Reasons of Overriding Public Interest, Compensatory Measures, Overall Coherence, Opinion of the Commission (European Commission, 2007);
- Marine Natura Impacts Statements in Irish Special Areas of Conservation. A Working Document (Department of Arts, Heritage and the Gaeltacht, 2012); and
- Managing Natura 2000 sites: The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC (European Commission, 2018).

The following circulars have also been used:

- AA under Article 6 of the Habitats Directive: Guidance for Planning Authorities. Circular NPWS 1/10 and PSSP 2/10 (Department of Environment, Heritage and Local Government, 2010b);
- AA of Land Use Plans. Circular Letter SEA 1/08 & NPWS 1/08 (Department of Environment, Heritage and Local Government, 2008a);
- Compliance Conditions in respect of Developments requiring (1) Environmental Impact Assessment (EIA); or (2) having potential impacts on Natura 2000 sites. Circular Letter PD 2/07 and NPWS 1/07 (Department of Environment, Heritage and Local Government, 2007a);
- Guidance on Compliance with Regulation 23 of the Habitats Directive. Circular Letter NPWS 2/07 (Department of Environment, Heritage and Local Government, 2007b); and
- Water Services Investment and Rural Water Programmes Protection of Natural Heritage and National Monuments. Circular L8/08 (Department of Environment, Heritage and Local Government, 2008b).

3.4 Guiding Principles and Case Law

A number of cases have been brought to both the national and European courts in relation to the AA process. Irish departmental guidance (Department of Environment, Heritage and Local Government, 2010a)⁹ in relation to AA was published over 10 years ago. Therefore, recent case law has, in many cases, superseded this guidance. However, recent guidance from the OPR (2021)¹⁰ in relation to AA Screening has now been published and considered in this assessment. Relevant case law, ECJ rulings and EC publications have also been considered in the preparation of the AA Screening for the RWRP-SE.

3.5 Identification of European Sites

Sites within the Natura 2000 Network are referred to as European sites and include Special Areas of Conservation (SACs) and Special Protection Areas (SPAs). SACs are designated for the conservation of Qualifying Interests (QI), Annex I habitats and Annex II species (other than birds). SPAs are designated for the conservation of Special Conservation Interest (SCI) Annex I birds and other regularly occurring migratory birds and their habitats.

Irish departmental guidance on the Zone of Influence (ZoI) to be considered during the AA stated the following:

"A distance of 15km is currently recommended in the case of plans, and derives from UK guidance (Scott Wilson et al., 2006). For projects, the distance could be much less than 15km, and in some cases less than 100m, but this must be evaluated on a case-by-case basis with reference to the nature, size and location of the project, and the sensitivities of the ecological receptors, and the potential for in combination effects".

However, the actual extent of the Zol depends on the effect pathway, as well as the specific nature of different habitats/species for which a European site is designated including functional and supporting habitat (OPR, 2021). Therefore, for these reasons the Zol must be scientifically defined and based upon further information.

As part of the desk-based assessment specific buffers will be used to identify the ZoI in relation to ground water abstraction Borehole and Zone of Contribution (ZOC) data will be obtained from the Geological Survey Ireland (GSI) database and used to determine existing ground water abstraction pressures on adjacent European sites. Where data is not available or proposed options consist of new boreholes a 5km buffer will be used to assess an abstraction as this is the greatest distance or ZOC as determined by GSI when assessing borehole abstractions. When assessing likely ZoI for all other options the "source-pathway-receptor" model will be applied. European sites with a hydrological link to any given option/study area will be considered to be within the ZoI. As such sites that are outside the boundary of the regional group may also be included in the assessment where there is an effects pathway.

The RWRP-SE covers the South East region of the Republic of Ireland. Therefore, all European sites within the South East region (core baseline area – see Section 3.5 of the SEA Scoping Report) and European sites with potential effects pathways located outside the region were initially considered to be potentially within the ZoI of the RWRP-SE.

⁹ https://www.npws.ie/sites/default/files/publications/pdf/NPWS 2009 AA Guidance.pdf Accessed May 2021

https://www.opr.ie/wp-content/uploads/2021/03/9729-Office-of-the-Planning-Regulator-Appropriate-Assessment-Screening-booklet-15.pdf

Accessed

3.5.1 Special Areas of Conservation

SACs cover a variety of habitat types recognised in Annex I of the Habitats Directive, with 16 habitats designated as "priority" habitats owing to their ecological vulnerability (NPWS, 2019a). Habitats for which SACs are designated include lakes, raised bogs, blanket bogs, turloughs, sand dunes, machair, heaths, rivers, woodlands, estuaries and sea inlets. In addition, the Habitats Directive recognises 26 Annex II species. Some of the species for which SACs have been designated include, but are not limited to: Atlantic salmon (*Salmo salar*), otter (*Lutra lutra*), lesser horseshoe bat (*Rhinolophus hipposideros*), freshwater pearl mussel (*Margaritifera margaritifera*) and Killarney fern (*Trichomanes speciosum*). There are 433 SACs (terrestrial) in Ireland and of these 358 are water-dependent (Department of Housing, Planning and Local Government, 2018). These SACs support various habitats and species that are dependent on surface and/or groundwater sources. There are approximately 800 water bodies within European sites, all supporting water dependent habitats and species. A number of significant pressures on these water bodies have been identified (Department of Housing, Planning and Local Government, 2018), including:

- Agriculture;
- Hydromorphological pressures;
- Forestry;
- Urban wastewater;
- Anthropogenic pressures;
- Abstractions; and
- Invasive species.

Of the pressures noted above, water abstraction is of particular relevance to the RWRP-SE. Water abstractions from both ground and surface water have been identified as being a potential threat to some Annex I habitats and Annex II species. As discussed in the Framework Plan NIS sustainable abstraction limits (for new surface water abstractions) have been set which will ensure the protection of these Annexed species and habitats. There are 33 SACs within the SE region.

3.5.2 Special Protection Areas

The majority of the wintering water birds and breeding seabirds occurring in Ireland are considered to be regularly occurring migratory birds. Over 60% of the 25 Annex I listed species that now occur in the Republic of Ireland on a regular basis belong to the breeding seabird and wintering waterbird groups. This has in part led to the situation of the majority (> 80%) of Ireland's SPAs being designated for these two bird groups.

Some of the productive marine intertidal zones of bays and estuaries are included within SPAs and these provide vital food resources for several wintering wader species, including knot (*Calidris canutus*), dunlin (*Calidris alpina*) and bar-tailed godwit (*Limosa lapponica*). Also included in the SPA network are marine waters adjacent to breeding seabird colonies and other important areas for divers, seaducks and grebes.

Finally, a number of inland wetland sites and areas of blanket bog and upland habitats have also been designated as SPAs for wintering water birds. These sites provide important breeding and foraging areas for numerous other species including merlin (*Falco columbarius*) and golden plover (*Pluvialis apricaria*). Agricultural land is also represented within the SPA network ranging from the extensive farmland of upland areas where hedgerows, wet grassland and scrub offer feeding and/or breeding opportunities for

hen harrier (*Circus cyaneus*) to the intensively farmed coastal polderland where internationally important numbers of swans and geese occur. There are 14 SPAs within the SE region.

3.5.3 Conservation Objectives

The overall aim of the Habitats Directive is to maintain or restore the favourable conservation status of annexed habitats and annexed species of community interest for which an SAC or SPA has been designated. The conservation objectives (COs) for a European site are set out to ensure that the QIs/SCIs of that site are maintained or restored to a favourable conservation condition. Maintenance of favourable conservation condition of habitats and species at a site level in turn contributes to maintaining or restoring favourable conservation status of habitats and species at a national level and ultimately at the European site network level.

Detailed site synopses for each European site are available from the NPWS website¹¹. In Ireland 'generic' COs have been prepared for all European sites, while 'site specific' COs have been prepared for a number of individual sites to take account of the specific QIs/SCIs of that site. Both the generic and the site-specific COs aim to define the requirements for favourable conservation condition for habitats and species at the site level. Generic COs, which have been developed by NPWS, encompass the spirit of site-specific COs in the context of maintaining and restoring favourable conservation condition as follows:

- For SACs: "To maintain or restore the favourable conservation condition of the Annex I habitats and/or Annex II species for which the SAC has been selected".
- For SPAs: "To maintain or restore the favourable conservation condition of the bird species listed as Special Conservation Interests for the SPA".

Following on from this, favourable conservation status (or condition, at a site level) of a habitat is achieved when:

- Its natural range, and area it covers within that range, are stable or increasing;
- The specific structure and functions which are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future; and
- The conservation status of its typical species is "favourable".

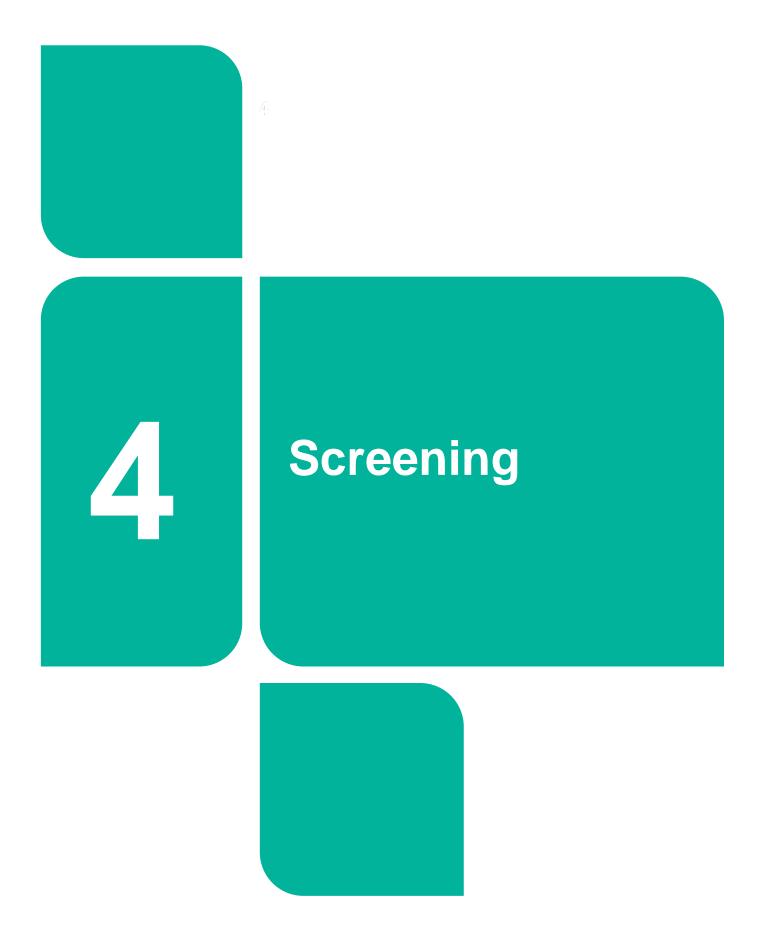
The favourable conservation status (or condition, at a site level) of a species is achieved when:

- Population dynamics data on the species concerned indicate that it is maintaining itself on a longterm basis as a viable component of its natural habitats; and
- The natural range of the species is neither being reduced nor is likely to be reduced for the
 foreseeable future, and there is, and will probably continue to be, a sufficiently large habitat to
 maintain its populations on a long-term basis.

A full list of the COs and QIs/SCIs that each European site is designated for relating to the South East region, as well as the attributes and targets to maintain or restore the QIs/SCIs to a favourable conservation condition are available from the NPWS website¹².

¹¹ https://www.npws.ie/protected-sites (Accessed March 2020)

¹² https://www.npws.ie/protected-sites/conservation-management-planning/conservation-objectives (Accessed March 2021)



4.1 Screening

This Screening for AA was informed by a desk study of all relevant environmental information and involved the following steps (broadly based on (European Commission, 2021)):

Determined if the proposed Plan is directly connected with or necessary to the management of the site;

- Description of the proposed Plan;
- Identification of relevant European site(s);
- Assessment of likely significant effects (LSEs) on European sites; and
- Screening conclusion.

4.2 Is the RWRP-SE exempt from assessment?

The RWRP-SE is not directly connected with or necessary to the management of a European site and therefore is not exempt from assessment.

4.3 Description of the RWRP-SE

An overview of the RWRP-SE, including background and context are provided in Chapters 1 and 2 of this report.

4.4 Identification of European Sites within the SE region

As discussed in Chapter 3 all European sites within the South East region were initially considered to be potentially within the ZoI of the RWRP-SE, therefore potential LSEs on the conservation objectives for these sites will be considered. There are 33 SACs and 14 SPAs within the SE region. There is a further two marine SACs and two marine SPAs that are not within the SE region boundary but are hydrologically linked to it. These sites are Blackwater Bank SAC, Long Bank SAC, Saltee Islands SPA, and Keeragh Islands SPA. Table 4.1 below provides a breakdown of European sites within each Study Area within the SE region. All European sites within and in proximity to the SE region are shown in Figure 4.1 below.

Table 4.1 - Number of European sites within each Study Area¹³ within the SE region

Study Area	No. of SACs	No. of SPAs
К	17	7
L	7	1
M	14	7

24 | Uisce Éireann | Regional Water Resources Plan-South East. Screening for Appropriate Assessment

¹³ Some SACs or SPAs fall within more than one study area

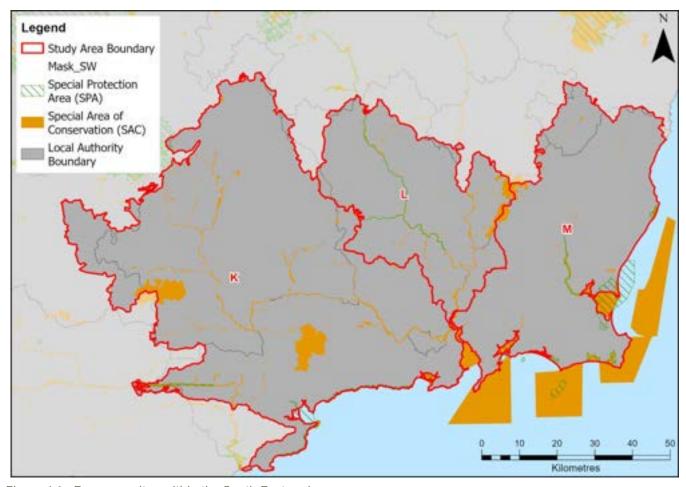


Figure 4.1 - European sites within the South East region

4.5 Assessment of Likely Significant Effects

The RWRP-SE methodology will identify suitable water resources management options for the various WRZs throughout the SE region. The water resources management option types that will arise from the RWRP-SE will potentially result in LSEs on European sites in the absence of mitigation. Therefore, a high-level assessment of the potential LSEs of these management option types is the focus of this assessment.

Table 4.2 outlines the potential LSEs associated with the various management options. It should be noted that a number of the options may have no effect on European sites, while others could have beneficial impacts on European sites, for example options that seek to improve overall water quality (for example, surface and/or groundwater catchment management). However, the implementation of the RWRP-SE may give rise to measures that could result in a variety of potential effects, including but not limited to:

- Physical loss of habitats/supporting habitat;
- Mortality;
- Habitat degradation changes in water quality (pollution);
- Habitat degradation hydrological/hydrogeological changes;
- Changes in hydrology water table/availability;
- The spread of invasive non-native species; and
- Disturbance (including biological disturbance).

Table 4.2 - Potential LSEs from the management option types arising from the RWRP-SE

Option Type	RWRP sub- category	Summary	Potential for LSEs			
Lose Less	Lose Less					
Leakage N/A Reduction		Assessment and repair of pipelines to reduce leakage from existing network.	Yes. Although for the most part this option type should have the potential for positive impacts. There is still potential for direct and indirect effects on SACs and SPAs associated with the construction or upgrade of infrastructure to address leakage reduction.			
Use Less						
	Education & Awareness	Environmental education, campaigns, programmes and partnerships to raise awareness of water management and to encourage savings.	Yes . Although for the most part this option type should have the potential for positive impacts. There is still potential for direct and indirect effects on			
Water Efficiency	Water Efficiency Measures	Methods of reducing water wastage.	SACs and SPAs associated with the construction or upgrade of infrastructure to ensure water efficiencies. There is the potential for operational			
water Emclency	Recycling and Reuse	Recycling and reuse of "grey water".	effects from grey water use. Reduction of potable water would have positive impacts however there is			
	Metering	Domestic water meters.	the potential for health risks from untreated grey water from the presence of bacteria for example. Some level of grey water treatment would be required therefore increasing costs of this option.			
Supply Smarter – Re	esource Supply Options					

Option Type	RWRP sub- category	Summary	Potential for LSEs		
Surface Water Sour Abstraction which		Increasing the abstraction at an existing river or lake source or developing a new river or lake source from which water can be sustainably abstracted. These options would be subject to an abstraction licence.	Yes. Where new or increased abstractions are required there is potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation. Aquatic and water dependent QI and their supporting habitats would be most at risk. Note: Uisce Éireann undertake a cumulative assessment with Uisce Éireann abstractions and proposed new abstractions as part of the assessment.		
	Groundwater Abstraction	Increasing existing groundwater abstraction or developing a new source from which water can be sustainably abstracted. These options would be subject to an abstraction licence.	Yes. Where new or increased abstractions are required there is potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation.		
Groundwater	Aquifer Storage Recovery	Storing treated or raw water in suitable aquifers for extraction during increased demand periods.	Aquatic and ground water dependent QI species (and their supporting habitats) and groundwater dependent terrestrial habitats (GWDTHs) would be most at risk. Note: Uisce Éireann undertake a cumulative assessment with Uisce Éireann abstractions and proposed new abstractions as part of the assessment.		
Reservoirs	Provision of storage reservoirs which can be filled with untreated water abstracted during high flow conditions from surface waters to be drawn on during low flow		Yes . This option type could result, for example, in changes in hydrology potentially altering the aquatic environment. Affecting aquatic and water dependent		

Option Type	RWRP sub- category	Summary	Potential for LSEs
		periods or to provide additional resilience during droughts as a back-up supply source	QI and their supporting habitats would be most at risk. Potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation.
Catchment Management	Catchment management for ground or surface water sources	Changes to land management such as forestry or agricultural practices to reduce pollution causing water treatment issues or to encourage water retention in the catchment.	Yes. Potential for positive impacts on aquatic receptors if water quality in the catchment is improved.
Effluent Reuse	Effluent Reuse	Recycling of wastewater effluent from treatment plants can produce a new supply source from wastewater which is otherwise discharged to rivers or the sea. This involves treating wastewater to a sufficiently high standard to meet supply standards relevant for the intended use for example for agricultural/horticulture/industry/water supply or for release to rivers to maintain flows.	Yes. This option type could result, for example, in changes in hydrology potentially altering the aquatic environment. Affecting aquatic and water dependent QI and their supporting habitats would be most at risk. Potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation.
Desalination	Desalination: Coastal or Brackish	This involves the process of removing salt and other minerals from seawater or brackish water ¹⁴ river estuaries to make it suitable for human consumption and/or industrial use.	Yes. Potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation. In particular, there is a risk from toxic effects associated with elevated salinity and desalination waste brine. Aquatic and water dependent QI and their supporting habitats would be most at risk.

¹⁴ Brackish water is water that has more salt than freshwater, but not as much as seawater generally located in estuaries.

Option Type	RWRP sub- category	Summary	Potential for LSEs	
Water Transfers	Transfers	Water transfer is the physical movement of water from one area to another usually via pipelines, although other means such as use of canals or aqueducts can be used. These generally refer to transfer of treated water and can vary considerably in scale in terms of size and length from local transfers from WRZ to another to regional transfers and inter-company transfers (from Northern Ireland).	Yes. Potential for direct, indirect, construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation. Note: the transfer of invasive species from one catchment to another is not considered a risk as Uisce Éireann do not allow cross catchment raw	
	Tankering	Delivery of treated water to customers via road tanker to alleviate temporary short-term water shortages for certain localised situations.	water transfers.	
Network	Network Improvements (general)	Network improvement involves infrastructural improvements such as upgrade or replacement or operational improvements.	Yes . Although for the most part this option type should have the potential for positive impacts. There is still potential for direct and indirect effects on	
Improvements	Service Reservoir Expansion	Service reservoirs store treated water.	SACs and SPAs associated with the construction or upgrade of infrastructure for network improvements, reservoir expansion and to address leakage reduction.	
	WTP Expansion / Rationalisation	Expansion of existing WTPs to facilitate the treatment of a higher volume of water.	Yes. Where new or increased abstractions are required there is potential for direct, indirect,	
Water Treatment Plants	WTP Process Losses	Improving the water treatment works efficiency to reduce water losses.	construction, operational and cumulative effects on SACs and SPAs in the absence of mitigation. Aquatic and water dependent QI and their supporting habitats would be most at risk.	

4.6 In-combination Effects

Under Article 6(3) of the Habitats Directive an assessment of in-combination effects of the RWRP-SE with other plans and projects is considered. Consideration has been given, at this stage of the RWRP-SE to other relevant plans on a similarly strategic level that have clear potential to have an incombination effect upon European Sites. Including the following:

- Water Services Strategic Plan (Uisce Éireann, 2015).
- National Wastewater Sludge Management Plan (Uisce Éireann, 2016).
- Lead in Drinking Water Mitigation Plan (Uisce Éireann, 2015).
- National Planning Framework. Ireland 2040 Our Plan (DHPLG, 2017).
- National Marine Planning Framework (NMPF) (DHPLG, 2021).
- Regional Spatial and Economic Strategies.
- River Basin Management Plan (RBMP) (2018 -2021).
- Forestry Programme 2014-2020: Ireland (DAFM, 2014).
- Water Resource and Supply Resilience Plan Habitats Regulation Assessment (NI Water, 2019).

Given the level of detail that is available for the RWRP-SE and the potential for likely significant effects, in-combination effects as a result of the implementation of the RWRP-SE cannot currently be ruled out.

4.7 Screening Conclusion

Stage 1 of the AA process (Screening for AA) described herein relates to the RWRP-SE. The RWRP-SE is a regional scale plan covering the South East region in the country.

Given the strategic nature of the RWRP-SE, the current stage of preparation and in light of a number of uncertainties relating to the implementation of the RWRP-SE going forward, it is considered that the potential for LSEs on one or more European sites, in view of the sites' conservation objectives, cannot be excluded. In the absence of more detailed information on the RWRP-SE and water resources management options listed therein at this stage, the precautionary principle must be applied.

Therefore, in accordance with Article 6(3) of the Habitats Directive, Stage 2 AA of the RWRP-SE is required. This will be presented in an NIS to fully inform the AA determination to be undertaken by Uisce Éireann.

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Regional Water Resources Plan

South East

Natura Impact Statement

Appendix B







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Data disclaimer: This document uses best available data at time of writing. As data relating to population forecasts and trends are based on information gathered before the Covid-19 Pandemic, monitoring and feedback will be used to capture any updates. The National Water Resources Plan will also align to relevant updates in applicable policy. In December 2022, the Water Services (Amendment) (No. 2) Act, 2022 was signed into law. This act provides that, from the 31 December 2022, Irish Water will only be known as Uisce Éireann. It also provides that, from that date, all references in any enactment, legal proceedings or other document to Irish Water shall be construed as references to Uisce Éireann only. The NIS reflects this transition from Irish Water to Uisce Éireann.

Baseline data included in the RWRP-SE has been incorporated from numerous sources including but not limited to; National Planning Framework, Central Statistics Office, Regional Spatial and Economic Strategies, Local Authority data sets, Regional Assembly data sets and Uisce Éireann data sets. Data sources will be detailed in the relevant sections of the RWRP-SE. 2019 was selected as the base year to align with the planning period (2019-2025) of the NWRP.

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Appendix Protection	B. List of Areas with	of Special nin the Sou	Areas o	f Conservat gion	ion and	Special

Special Areas of Conservation (SACs)			
Site code	Site name		
002125	Anglesey Road SAC		
002123	Ardmore Head SAC		
000696	Ballyteige Burrow SAC		
000697	Bannow Bay SAC		
000770	Blackstairs Mountains SAC		
002170	Blackwater River (Cork/Waterford) SAC		
000700	Cahore Polders and Dunes SAC		
002269	Carnsore Point SAC		
001952	Comeragh Mountains SAC		
000831	Cullahill Mountain SAC		
000646	Galtee Mountains SAC		
001430	Glen Bog SAC		
002324	Glendine Wood SAC		
000665	Helvick Head SAC		
000764	Hook Head SAC		
000404	Hugginstown Fen SAC		
000934	Kilduff, Devilsbit Mountain SAC		
001741	Kilmuckridge-Tinnaberna Sandhills SAC		
000704	Lady's Island Lake SAC		
002165	Lower River Shannon SAC		
002137	Lower River Suir SAC		
002257	Moanour Mountain SAC		
000668	Nier Valley Woodlands SAC		
001847	Philipston Marsh SAC		
000710	Raven Point Nature Reserve SAC		
002162	River Barrow and River Nore SAC		
000707	Saltee Islands SAC		
000708	Screen Hills SAC		
000781	Slaney River Valley SAC		
000849	Spahill And Clomantagh Hill SAC		
000709	Tacumshin Lake SAC		

Special Areas of Conservation (SACs)	
Site code	Site name
002252	Thomastown Quarry SAC
000671	Tramore Dunes and Backstrand SAC

Special Protection Areas (SPAs)	
Site code	Site name
004020	Ballyteige Burrow SPA
004033	Bannow Bay SPA
004094	Blackwater Callows SPA
004143	Cahore Marshes SPA
004032	Dungarvan Harbour SPA
004192	Helvick Head to Ballyquin SPA
004009	Lady's Island Lake SPA
004193	Mid-Waterford Coast SPA
004233	River Nore SPA
004165	Slievefelim to Silvermines Mountains SPA
004092	Tacumshin Lake SPA
004019	The Raven SPA
004027	Tramore Back Strand SPA
004076	Wexford Harbour and Slobs SPA