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3 **COMMON IMPLEMENTATION STRATEGY**
4 **FOR THE WATER FRAMEWORK DIRECTIVE**
5 **(2000/60/EC)**
6

7 **Guidance Document No. 35**

8 **Exemptions to the Environmental Objectives according to Article 4(7)**

9 New modifications to the physical characteristics of surface water bodies, alterations to the
10 level of groundwater, or new sustainable human development activities
11

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115 1 INTRODUCTION

116 1.1 A Guidance Document: What for?

117 This document aims at guiding experts and stakeholders in the implementation of the Directive
118 2000/60/EC establishing a framework for Community action in the field of water policy - the Water
119 Framework Directive (WFD)¹. It focuses on exemptions under Article 4(7) of the WFD. Article 4(7) only
120 applies to new modifications to the physical characteristics of a surface water body, alterations to the
121 level of bodies of groundwater and new sustainable human development activities, which can lead to
122 failure of achieving the WFD objectives. In case the conditions as outlined under Article 4(7) are met
123 exemptions can be granted.

124 The document is based on and further specifies the issues already outlined in Guidance Document
125 No. 20 on exemptions to the environmental objectives². It was developed in the frame of the WFD
126 Common Implementation Strategy (CIS)³ process 2016-2018 and aims to provide complementary
127 information and further clarification by taking into account the latest experiences with the
128 implementation of the WFD and case laws related to Article 4(7).

129 The document constitutes guidance and good practice. Member States are not legally required to
130 follow the recommendations contained in it. Member States are, however, required to use methods
131 and approaches compliant with the requirements of the WFD.

132 The guidance is specifically addressed towards:

- 133 • Water managers and river basin authorities developing river basin management plans;
- 134 • Authorities responsible for taking decisions on the granting of permissions for new activities or
135 projects that might have an impact on water;
- 136 • Decision makers at different levels who are responsible for the development, promotion and
137 approval of sectorial strategies (e.g. rural development and agriculture, flood risk
138 management, transport policy, energy policy, etc.);
- 139 • Experts which are performing assessments under related legislation like Environmental Impact
140 Assessments (EIA), Strategic Environmental Assessments (SEA), assessments under the
141 Habitats Directive (HD), etc.;
- 142 • Project developers and representatives from different economic sectors;
- 143 • Interested stakeholders and representatives from civil society organisations.

144 The guidance inter alia recalls the requirements of the WFD related to environmental objectives and
145 the exemptions with a focus on Article 4(7). Chapter 2 reflects on horizontal issues and addresses the
146 importance of policy coherence for the sustainable management of water resources and for
147 assessments under Article 4(7). Chapter 3 outlines the scope and conditions triggering an Article 4(7)
148 Test and chapter 4 provides guidance on a potential assessment approach for determining whether an
149 Article 4(7) Test has to be performed for a certain activity or project. Chapter 5 provides clarification on
150 the different steps which have to be performed under an Article 4(7) Test towards a decision whether a
151 certain activity or project can be approved or not. Finally, chapter 6 provides an outlook on potential

¹ Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy: <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32000L0060>

² CIS Guidance Document No. 20 – Exemptions to the Environmental Objectives: https://circabc.europa.eu/sd/a/2a3ec00a-d0e6-405f-bf66-60e212555db1/Guidance_documentN%C2%B020_Mars09.pdf

³ Common Implementation Strategy (CIS) for the Water Framework Directive: http://ec.europa.eu/environment/water/water-framework/objectives/implementation_en.htm

152 follow-up activities for the benefit of a coherent implementation of the WFD and Article 4(7). Practical
 153 examples and approaches are illustrated via case studies and inter-linkages with other relevant EU
 154 legislation and policies are addressed within the different chapters of the document.

155 In summary, the document aims at clarifying a number of aspects in relation to the application of WFD
 156 Article 4(7). However, this is not a detailed manual on application. Further methodological guidance is
 157 likely necessary at Member State level that is adapted to the legal, administrative and technical reality
 158 of each Member State.

159 1.2 WFD and the Common Implementation Strategy (CIS) process

160 The implementation of the WFD raises a number of shared technical challenges for the Member
 161 States, the Commission, the Candidate and EEA Countries as well as stakeholders and NGOs. In
 162 addition, many of the European river basins are international, crossing administrative and territorial
 163 borders and therefore a common understanding and approach is crucial to the successful and
 164 effective implementation of the Directive.

165 In order to address the challenges in a co-operative and coordinated way, the Member States, Norway
 166 and the Commission agreed on a Common Implementation Strategy (CIS). Since 2001 the activities in
 167 the frame of the CIS are aiming at a coherent and harmonious implementation of the WFD. The focus
 168 is on methodological questions related to a common understanding of the technical and scientific
 169 implications. In this context a series of working groups and joint activities have been undertaken during
 170 the last years. While Member States have gained valuable practical experience in the use of
 171 exemptions, the implementation of Article 4(7) has shown concrete issues that would greatly benefit
 172 from this updated guidance. For that purpose a specific Ad-hoc Task Group (ATG) has been
 173 established in the frame of the CIS. The following table provides an overview on those main CIS
 174 activities relevant for Article 4(7) since the adoption of the Directive. More detailed information can be
 175 obtained from the related documents.

176 **Table 1: Overview CIS activities relevant for WFD Article 4(7)**

When	Who	Output
2003	Water Directors	WATECO guidance ⁴ which outlines a basic concept of Article 4(7).
2003	Water Directors	Guidance document No. 4 on the identification and designation of Heavily Modified and Artificial Water Bodies.
2006	CIS process	Policy paper on WFD and hydro-morphological pressures ⁵ with a focus on hydropower, navigation and flood defence activities. It includes recommendations for better policy integration.
2007	CIS process	Workshop on WFD & Hydropower ⁶ . As a result some first key principles for hydropower under the WFD have been formulated.
2008	Water Directors	CIS Guidance number 20 on Environmental Objectives and Exemptions ⁷ discusses basic concepts under Article 4(7).
2009	CIS process	Workshop on Heavily Modified Water Bodies (HMWB) delivered several recommendations ⁸ relevant to hydropower and the WFD, such as on the interpretation of “significant adverse effects on the use”, good ecological potential and ecological continuum.
2009	Water Directors	CIS Guidance number 24 – River Basin Management in a changing climate addresses some aspects related to Article 4(7).

⁴ <http://ec.europa.eu/environment/water/water-framework/economics/pdf/Guidance%201%20-%20Economics%20-%20WATECO.pdf>

⁵ https://circabc.europa.eu/sd/a/bcba0b09-a2d3-4762-a1f6-5ac664beaa15/HyMo_Political_Paper_FINAL.pdf

⁶ <https://circabc.europa.eu/w/browse/a839626e-9806-4fee-8a93-678a086c0ab3>

⁷ https://circabc.europa.eu/sd/a/2a3ec00a-d0e6-405f-bf66-60e212555db1/Guidance_documentN%C2%B020_Mars09.pdf

⁸ <https://circabc.europa.eu/sd/a/651417d8-46d6-4120-8c59-54f2bbcf422d/FinalHMWBConclusions.pdf>

When	Who	Output
2010	Water Directors	Statement on “Hydropower Development under the Water Framework Directive” ⁹ summarising key principles and recommendations. A key clarification was that the size of the project is not the relevant criteria to trigger Article 4(7).
2011	CIS process	2 nd CIS workshop on Water Management, WFD & Hydropower made good practice recommendations on the application of WFD Article 4(7) ¹⁰ .
2016	CIS process	Establishment of Ad-hoc Task Group for guidance on the implementation of Article 4(7).

177

178 Further guidance documents are available with more general WFD relevance and linking aspects
179 related to Article 4(7).¹¹

180 1.3 Setting Article 4(7) into context

181 The **environmental objectives of the WFD** are outlined in Article 4 and the core of this EU legislation
182 providing for a long-term sustainable water management on the basis of a high level of protection of
183 the aquatic environment. Article 4(1) sets out the environmental objectives for natural surface and
184 groundwater bodies and artificial and heavily modified water bodies (HMWBs). Natural surface water
185 bodies must, by 2015, adhere to good ecological and chemical status and groundwater bodies to good
186 quantitative and chemical status. Artificial and HMWBs must achieve good ecological potential and
187 good chemical status. In Article 4(3) the criteria for the designation of artificial or heavily modified
188 water bodies are described. One **further key objective** of the WFD, outlined in Article 4(1), is to
189 implement the necessary measures to **prevent deterioration of the status of all water bodies** - the
190 so-called "**non-deterioration principle**", which is of particular relevance in the context of Article 4(7).
191 Finally, the WFD objective of good status may need to be complemented by additional objectives in
192 order to ensure that conservation objectives for protected areas are achieved (Article 4(1)(c) and
193 Article 4(2)).

194 **Exemptions from these objectives** are defined within Article 4, outlining the conditions under which
195 the achievement of good status or potential may be phased or not be achieved, or under which
196 deterioration may be allowed. Article 4(4), 4(5), 4(6) and 4(7) describe the conditions and the process
197 in which they can be applied. They include the following:

- 198 • Extension of the deadline, in other words, good status/potential must be achieved by 2021 or
199 2027 at the latest (Article 4(4)) or as soon as natural conditions permit after 2027;
- 200 • Achievement of less stringent objectives under certain conditions (Article 4(5));
- 201 • Temporary deterioration of the status/potential in case of natural causes or "force majeure"
202 (Article 4(6));
- 203 • Deterioration or failure to achieve good status/potential as a result of new modifications to the
204 physical characteristics of a surface water body or alterations to the level of bodies of
205 groundwater, or status deterioration of a body of surface water from high status to good status
206 as a result of new sustainable human development activities (Article 4(7)).

207 All these exemptions contain distinct conditions to be met and have to be set out and explained in the
208 River Basin Management Plan.

209 Paragraphs 8 and 9 of Article 4 introduce two principles applicable to all exemptions,

⁹<https://circabc.europa.eu/sd/a/4e0cb9d2-c268-4d67-ac56-f1977c1b85fc/WFD%20statement%20May%20202010-%20Hydropower%20Development%20under%20the%20Water%20Framework%20Directive.pdf>

¹⁰https://circabc.europa.eu/sd/a/23d94d2d-6b9c-4f17-9e15-14045cd541f3/Issue%20Paper_final.pdf

¹¹http://ec.europa.eu/environment/water/water-framework/facts_figures/guidance_docs_en.htm

- 210 • first, exemptions for one water body must not permanently exclude or compromise the
211 achievement of the environmental objectives in other water bodies (see chapter 3.5);
212 • second, at least the same level of protection must be achieved as provided for by existing
213 Community law (including those elements to be repealed).

214 **This Guidance focuses on the exemptions under Article 4(7), which sets out the conditions for**
215 **exemption in the event of new modifications to the physical characteristics of a body of**
216 **surface water, alterations to the level of bodies of groundwater or new sustainable human**
217 **development activities.**

218 Integration with other sector policies is a key issue in this context. The Guidance contributes to the
219 "further integration of protection and sustainable management of water into other Community policy
220 areas such as energy, transport, agriculture, fisheries, regional policy and tourism" with a "continued
221 dialogue and for the development of strategies towards a further integration of policy areas"¹². It also
222 contributes to the "Better Regulation Initiative"¹³.

223 This to comply with the precautionary principle and with the principle of sustainable development, what
224 is a fundamental objective of the European Union, laid down in the Treaty¹⁴ and applicable to all EU
225 activities and policies and in the context that "a high level of environmental protection and the
226 improvement of the quality of the environment must be integrated into the policies of the Union and
227 ensured in accordance with the principle of sustainable development"¹⁵.

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¹² WFD preamble, paragraph 16.

¹³ Commission Communication Better Regulation: Delivering better results for a stronger Union (COM(2016) 615 final)

¹⁴ Treaty on European Union

¹⁵ Laid down in Article 37 of the Charter of Fundamental Rights of the European Union

232 2 INTEGRATION OF SECTOR POLICIES AS PREREQUISITE FOR POLICY 233 COHERENCE

234 Integrated approaches and policy coherence play a central role for the implementation of the WFD and
235 for informed assessments in relation to Article 4(7). New physical modifications, alterations, or new
236 sustainable human development activities, potentially causing deterioration, are frequently linked with
237 the achievement of the objectives of other EU policies such as energy, transport, flood protection,
238 coastal defence, water supply and wastewater treatment, irrigation, etc., next to relevant national
239 policies. Integration of the WFD and its links with the implementation of such policies therefore
240 strongly calls for a coordinated approach and a better streamlining of authorisation processes in
241 relation to Article 4(7).

242 Some of the relevant EU policies and programs include *inter alia* the following:

- 243 • Trans-European transport network (TEN-T)¹⁶
- 244 • Energy policy including renewable energy policy and its renewable energy action plans
- 245 • Industry policies such as the EU Raw Materials Strategy
- 246 • The flood risk management plans under the EU Floods Directive
- 247 • Marine Strategy Framework Directive and Maritime Spatial Planning Directive
- 248 • European Funding Instruments and the Common Agricultural Policy (CAP)
- 249 • Climate change policies including adaptation and mitigation
- 250 • Other environmental directives and policies, in particular the SEA, EIA, Birds and Habitats
251 Directives and the Urban Wastewater Treatment Directive

252 Involvement and consultation of authorities and stakeholders concerned with the implementation of
253 the WFD in the design and implementation of these policies allows integrating the objectives of the
254 WFD from the beginning and might even reduce the need for new modifications and hence the
255 possibility of deterioration of water bodies status due to increased transparency for decision makers on
256 expectable impacts.

257 Furthermore, assessments under Directive 2001/42/EC on the assessment of the effects of certain
258 plans and programmes on the environment (SEA Directive) can contribute to the integration of
259 environmental considerations into the preparation of certain plans and programmes as listed above,
260 which might be subject to an SEA. Assessments under the SEA Directive can help to fully take
261 significant effects on the environment into account, including effects on water.

262 The results of such integrated approaches can also provide valuable information for assessments
263 required in the context of Article 4(7), in particular when it comes to the strategic dimension of
264 overriding public interest, weighing benefits and impacts of modifications or for the assessment of
265 better environmental options (see chapters 5.3 and 5.4).

266 2.1 Transport policy

267 The TEN-T programme was established to support the construction and upgrade of transport
268 infrastructure across the European Union. The programme consists of projects – defined as studies or
269 works – whose purpose is to ensure the cohesion, interconnection and interoperability of the trans-
270 European transport network, as well as access to it.

¹⁶ For more information see http://ec.europa.eu/transport/themes/infrastructure_en

271 TEN-T projects, which are located in every EU Member State¹⁷, include different modes of transport¹⁸
272 which can be relevant in terms of their potential effects on water. This can for instance be the case for
273 projects related to the construction and upgrade of railway infrastructure or roads, but can be of
274 particular relevance for navigation covering inland waterways and several coastal and inland water
275 ports. The inland waterways dimension of the TEN-T covers all major rivers, canals and lakes used
276 traditionally for transport purposes in the EU (waterways of European dimension, following the
277 classification of the United Nations Economic Commission for Europe - UNECE). Articles 15 and 39 of
278 the TEN-T Guidelines¹⁹ set the following requirements:

- 279 • Rivers, canals and lakes comply with the minimum requirements for class IV waterways as
280 laid down in the new classification of inland waterways established by the European
281 Conference of Ministers of Transport (ECMT) and that there is continuous bridge clearance. At
282 the request of a Member State, in duly justified cases, exemptions shall be granted by the
283 Commission from the minimum requirements on draught (less than 2.50 m) and on minimum
284 height under bridges (less than 5.25 m);
- 285 • Rivers, canals and lakes are maintained so as to preserve "good navigation status", while
286 respecting the applicable environmental law.

287 Article 16 of the TEN-T Guidelines establishes priorities for inland waterway infrastructure
288 development, whereas Article 16(e) outlines that priority should *inter alia* be given to "paying particular
289 attention to the free-flowing rivers which are close to their natural state and which can therefore be the
290 subject of specific measures".

291 Due to the potential need for modifications to the hydromorphological conditions of water bodies for
292 meeting these objectives, navigation infrastructure projects may cause deterioration or failure to
293 achieve good status/potential and therefore trigger an Article 4(7) Test to assess to assess whether a
294 project can be authorised under the WFD. Since both, the WFD as well as the TEN-T regulations allow
295 for the application of exemptions, and since there is no hierarchical relationship between these two
296 policies, it is important to follow an integrated approach for a coherent implementation of both, water
297 and transport policy. Further guidance on the concept of "good navigation status", addressing also the
298 relationship with the WFD and other environmental legislation, is planned to be made available²⁰.

299 **2.2 Energy policies including renewable energy policy**

300 The focus of the EU Energy Strategy is to make energy supply more secure, affordable and
301 sustainable. Conventional energy generation installations are expected to still play an important role
302 for energy supply in the foreseeable future. However, renewables play an increasingly central role to
303 achieve these targets. The EU's Renewable Energy Directive (2009/28/EC)²¹ sets a binding target of
304 20% final energy consumption from renewable sources by 2020. Renewables will continue to play a
305 key role in helping the EU meet its energy needs beyond 2020. EU countries have agreed on a new
306 renewable energy target of at least 27% of final energy consumption in the EU as a whole by 2030 as

¹⁷ For more information see <https://ec.europa.eu/inea/ten-t/ten-t-projects/projects-by-country>

¹⁸ For more information see <https://ec.europa.eu/inea/ten-t/ten-t-projects/projects-by-transport-mode>

¹⁹ Regulation (EU) No 1315/2013 of the European Parliament and of the Council of 11 December 2013 on Union guidelines for the development of the trans-European transport network and repealing Decision No 661/2010/EU; See: <http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32013R1315>

²⁰ During the drafting process of this document work was ongoing on guidelines towards achieving 'good navigation status', addressing also the linkage to the WFD. Related documents will be made available as soon as finalised.

²¹ Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC; See: <http://eur-lex.europa.eu/legal-content/en/ALL/?uri=CELEX%3A32009L0028>

307 part of the EU's energy and climate goals for 2030²². On 30 November 2016 the Commission
308 published a proposal for a revised Renewable Energy Directive towards meeting these targets²³. The
309 long-term goal is to reduce greenhouse gas emissions by 80-95% until 2050.

310 A number of measures are required to achieve these targets, including the increase of energy
311 efficiency and the increase of energy production from renewable sources. EU countries have
312 committed to reaching their own national renewables targets which are varying amongst Member
313 States. Renewable energy can be produced from different sources including wind, solar, hydropower,
314 geothermal, biomass and also tidal. All EU countries have adopted national renewable energy action
315 plans²⁴ under the Renewable Energy Directive. These action plans outline how Member States want to
316 achieve their Renewable Energy targets. Beside others these plans cover:

- 317 • individual renewable energy trajectories for electricity, heating and cooling, and transport
- 318 sectors;
- 319 • the planned mix of different renewables technologies.

320 Hydropower constitutes an important renewable energy source, although the share of contribution
321 from other sources of renewable energy is increasing. Specific hydropower facilities can also play an
322 important role to integrate other sources of variable renewables, such as wind and solar. By impacting
323 on hydromorphology new hydropower plants or new modifications at existing facilities altering
324 hydromorphology are likely to be subject to an Article 4(7) Test by causing deterioration of water
325 status.

326 **2.3 EU Raw Materials Strategy and Extractive Waste Directive**

327 In 2008, the Commission adopted the Raw Materials Initiative²⁵ which set out a strategy for tackling
328 the issue of access to raw materials in the EU. This strategy has three pillars which aim to ensure i)
329 fair and sustainable supply of raw materials from global markets, ii) sustainable supply of raw
330 materials within the EU, and iii) resource efficiency and supply of "secondary raw materials" through
331 recycling. The strategy covers all raw materials used by European industry except materials from
332 agricultural production and materials used as fuel.

333 Waste from extractive operations (i.e. waste from extraction and processing of mineral resources) is
334 one of the largest waste streams in the EU. It involves materials that must be removed to gain access
335 to the mineral resource, such as topsoil, overburden and waste rock, as well as tailings remaining after
336 minerals have been largely extracted from the ore.

337 Directive 2006/21/EC²⁶ provides for measures, procedures and guidance to prevent or reduce as far
338 as possible any adverse effects on the environment²⁷, in particular water, air, soil, fauna and flora and

²² European Council (23 and 24 October 2014) Conclusions on 2030 Climate and Energy Policy Framework; See: <http://data.consilium.europa.eu/doc/document/ST-169-2014-INIT/en/pdf>

²³ Proposal for a Directive of the European Parliament and of the Council on the promotion of the use of energy from renewable sources COM/2016/0767 final - 2016/0382 (COD); See: <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52016PC0767>

²⁴ See <https://ec.europa.eu/energy/node/71>

²⁵ Communication from the Commission to the European Parliament and the Council - The raw materials initiative — meeting our critical needs for growth and jobs in Europe COM(2008) 699 final; See: https://ec.europa.eu/growth/sectors/raw-materials/policy-strategy_en

²⁶ Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC; See: <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006L0021-20090807>

²⁷ The directive does not apply for injection of water and re-injection of pumped ground-water as defined in the first and second indents of Article 11(3)(j) of Directive 2000/60/EC, to the extent authorised by that Article.

339 landscape, and any resultant risks to human health, brought about as a result of the management of
340 waste from the extractive industries.

341 In regard to water the construction and management of waste facilities need to meet the conditions in
342 the short and long-term perspectives that preventing pollution of the soil, air, groundwater or surface
343 water, taking into account the groundwater directive and the WFD. The operator of such a facility has
344 to take the necessary measures in order to meet Community environmental standards in that regard.
345 The requirement for such measures can only be reduced if an environmental assessment (Art 13 of
346 the Directive) shows that the waste facility poses no potential hazard to soil, groundwater or surface
347 water.

348 Further according to Article 13(5) when placing extractive waste back into excavation voids, whether
349 created through surface or underground extraction, which will be allowed to flood after closure, the
350 operator shall take the necessary measures to prevent or minimise water status deterioration and soil
351 pollution. The operator shall provide the competent authority with the information necessary to ensure
352 compliance with Community obligations, in particular those in WFD.

353 **2.4 Flood risk management**

354 In 2007, the EU Floods Directive (FD)²⁸ entered into force with the aim to reduce the adverse
355 consequences on human health, the environment, cultural heritage and economic activity associated
356 with floods in the Community. Under Art 9 the FD requires Member States to develop flood risk
357 management plans. These have to include a summary of measures and their prioritisation aiming to
358 achieving the appropriate objectives of flood risk management (FD article 7). The first flood risk
359 management plans have been adopted for the 2016-2021 cycle.

360 Furthermore, Member States shall take appropriate steps to coordinate the application of all aspects of
361 implementation focusing on opportunities for improving efficiency, information exchange and for
362 achieving common synergies and benefits (FD Article 9) and more specifically:

- 363 • The flood maps and the reviews of the characterisation analysis required under WFD Article
364 5(2) and the information in the flood maps shall be consistent with relevant information
365 presented under the WFD (FD Article 9(1));
- 366 • The development and review of the FRMPs and RBMPs shall be coordinated, and may be
367 integrated (FD Article 9(2));
- 368 • The active involvement of all stakeholders under both Directives shall be coordinated, as
369 appropriate (FD Article 9(3)).

370 The implementation of both the WFD and FD would benefit from Member States taking an integrated
371 approach to maximise the synergies between the two policies (e.g. via natural water retention
372 measures²⁹) and minimise conflicts between them. When designing programmes of measures under
373 both directives it is important to be clear on what synergies are being taken advantage of and what
374 potential conflicts there may be. New flood risk management projects triggered by the FD could result
375 in changes to the hydromorphology, e.g. hard defence systems. Such planned changes can require
376 being subject to Article 4(7) assessments.

²⁸ Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risks; See: <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32007L0060>

²⁹ For more information see: <http://ec.europa.eu/environment/water/adaptation/ecosystemstorage.htm>

377 **2.5 Marine Strategy Framework and Maritime Spatial Planning Directives**

378 The *Marine Strategy Framework Directive* (Marine Directive or MSFD, 2008/56/EC) aims at achieving
379 the 'good environmental status' of European marine waters by the year 2020 through the
380 implementation of two overarching principles: the ecosystem-based approach to the management of
381 human activities and an integrated, coordinated approach at regional and sub-regional level.

382 In the context of exemptions, it is important to consider the scope and differences of the MSFD and
383 the WFD in defining environmental objectives:

- 384 • Both the MSFD and the WFD address coastal water bodies but the MSFD clarifies its scope in
385 covering coastal water bodies to those particular aspects of the environmental status of the
386 marine environment which are not already addressed through the WFD. The MSFD
387 consequently applies to WFD coastal water bodies for additional topics such as birds,
388 cetaceans, fish, litter, underwater noise and other aspects not already addressed by the WFD.
- 389 • Both the WFD and the MSFD use similar concepts for their environmental objectives. Good
390 Ecological Status in coastal water bodies under the WFD refers to defined pelagic and benthic
391 biological objectives taking into account physico-chemical and hydromorphological
392 parameters. Good Environmental Status under the MSFD is broader and covers 11 qualitative
393 descriptors, including all aspects of biodiversity (birds, mammals, reptiles, fish, cephalopods,
394 pelagic and benthic habitats, food webs) and a number of pressure-based descriptors (non-
395 indigenous species, eutrophication, hydrographical changes, contaminants, litter and energy).
396 There are overlaps between the definitions of good status under the WFD and MSFD,
397 particularly for eutrophication and contamination issues.

398 Article 14 of the MSFD provides for certain exceptions to achieving good status in its coastal and
399 marine waters (Note: not to confuse with the WFD's "exemptions"). Among other reasons, Article 14(1)
400 (d) provides that Member States must notify the Commission in case it identifies an instance where it
401 cannot achieve good status due to modifications or alterations to the physical characteristics of marine
402 waters brought about by actions taken for reasons of overriding public interest which outweigh the
403 negative impact on the environment, including any transboundary impact. Member States have to take
404 appropriate ad-hoc measures aiming to continue pursuing their environmental targets, to prevent
405 further deterioration in the environmental status and to mitigate the adverse impact at the level of the
406 marine region or sub-region concerned or in the marine waters of other Member States. In addition
407 Article 14(1)(2) specifies that Member States shall ensure that the modifications or alterations do not
408 permanently preclude or compromise the achievement of good environmental status at the level of the
409 marine region or sub-region concerned or in the marine waters of other Member States.

410 As the WFD covers all coastal waters out to one nautical mile beyond the baseline from which
411 territorial waters are drawn, new physical modifications, like dredging, port construction, drainage or
412 flood protection taking place within this area or with an impact on this area must be assessed for WFD
413 compliance and the possible application of Article 4(7) requirements.

414 The *Maritime Spatial Planning Directive* 2014/89/EU (MSP) creates a common framework for maritime
415 spatial planning in Europe. This since competition for maritime space – for renewable energy
416 equipment, aquaculture and other growth areas – has highlighted the need for efficient management,
417 to avoid potential conflict and create synergies between different activities. Several marine activities
418 (even if offshore) might trigger a modification of the coast (e.g. oil and wind platforms require landing
419 of cables and pipelines).

420 Engaging at an early stage with marine planners can help to reach improved policy coherence and
421 might reduce the need for Article 4(7) cases in coastal water bodies.

422 2.6 European Funding Instruments

423 The European Funding Instruments promote the implementation of specific policies. Each instrument
424 has a dedicated focus and targets certain actors and activities. Proposed operations and investments
425 for new projects, which might require assessments in relation to WFD Article 4(7), are frequently linked
426 with investments financed under these instruments and *inter alia* need to meet the requirements of EU
427 legislation, including the WFD. In the following, some of the main European Funding Instruments
428 related to water are briefly described.

429 2.6.1 European Structural and Investment Funds

430 The European Structural and Investment Funds (ESIF) are the European Regional Development Fund
431 (ERDF), the Cohesion Fund (CF), the European Social Fund (ESF), the European Agricultural Fund
432 for Rural Development (EAFRD), and the European Maritime and Fisheries Fund (EMFF), aiming to
433 invest in job creation and a sustainable and healthy European economy³⁰. The ESIF is also the main
434 EU funding instrument for water related projects.

435 Member States were required to submit strategic level Partnership Agreements to the European
436 Commission setting out how the funds will be used during the current funding period at national level.
437 Specific investment programmes then detail how funds will be spent in the different regions and
438 through projects in policy areas concerned.

439 The ERDF and CF (which form together with the European Social Fund the so-called Cohesion Policy)
440 are managed through Operational Programmes, which cover an entire Member State or regions
441 therein. Cohesion Policy³¹ is an important source of funding for technical flood defence infrastructure
442 like dykes, dams, retention walls, etc., or investments in the water, energy or transport sectors. The
443 EAFRD is administered through Rural Development Programmes. Member States have the possibility
444 to request co-financing for the construction of new irrigation networks including reservoirs, drainage of
445 agriculture land and flood risk prevention measures like dykes and dams.

446 Projects financed by ESI funds *inter alia* need to meet the requirements of EU legislation, including the
447 WFD, and its exemptions. As an example, Article 6 of Regulation 1303/2013 points out that
448 "*Operations supported by the ESI Funds shall comply with applicable Union law and the national law*
449 *relating to its application ('applicable law')*"³². More specifically, Annex 1 of Regulation 1303/2013
450 requests that investments shall be in line with the water management hierarchy in line with the WFD³³
451 and contains a specific ex-ante-conditionality related to the WFD³⁴. Therefore, ensuring compliance,

³⁰ The funds have a total EU budget of EUR 454,446,693 implemented in the framework of 533 programmes for the period 2014-2020. More information: <https://cohesiondata.ec.europa.eu/overview>.

³¹ 11 investment priorities or "thematic objectives" are supported in the 2014-2020 programming period. Thematic objective 6 applies to water.

³² Regulation (EU) No 1303/2013 of the European Parliament and of the Council of 17 December 2013 laying down common provisions on the European Regional Development Fund, the European Social Fund, the Cohesion Fund, the European Agricultural Fund for Rural Development and the European Maritime and Fisheries Fund and laying down general provisions on the European Regional Development Fund, the European Social Fund, the Cohesion Fund and the European Maritime and Fisheries Fund and repealing Council Regulation (EC) No 1083/2006; see: <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32013R1303>

³³ Annex 1 "Common Strategic Framework", Point 5.2.3 of EU Regulation (No 1303/2013); <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32013R1303>

³⁴ Annex XI to CPR 1303/2013, ex-ante-conditionality for Thematic Objective 6, p.123: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:347:0320:0469:en:PDF>

452 also with Article 4(7), is a compulsory prerequisite and an obligation for a project proposal in order to
453 be selected and subsequently eligible.³⁵

454 **2.6.2 Connecting Europe Facility (CEF)**

455 The Connecting Europe Facility³⁶ (CEF) is a key EU funding instrument, financed by the Cohesion
456 Fund, to promote growth, jobs and competitiveness through targeted infrastructure investment at
457 European level. It supports the development of interconnected trans-European networks in the fields
458 of transport (TEN-T), energy and digital services. CEF investments fill the missing links in Europe's
459 energy, transport and digital backbone. The CEF is divided into three sectors: CEF Energy, CEF
460 Transport and CEF Telecom. The CEF is implemented through direct management by the European
461 Commission (direct grants). Article 23 of Regulation 1316/2013³⁷ calls for compliance of projects
462 proposed to be financed under CEF with EU legislation, including the WFD and Article 4(7), as a
463 prerequisite for eligibility.

464 **2.6.3 Instrument for Pre-Accession**

465 The Instrument for Pre-accession Assistance³⁸ (IPA) is the means by which the EU supports reforms
466 in the 'enlargement countries' with financial and technical help. The IPA funds build up the capacities
467 of the countries throughout the accession process. The EU operates comprehensive approval
468 procedures to ensure new members are admitted only when they can demonstrate they will be able to
469 play their part fully as members, namely by complying with all the EU's standards and rules. The
470 conditions and timing of the candidate's adoption, implementation and enforcement of all current EU
471 rules (the "acquis") are negotiated between the EU and the respective candidate country.

472 Chapter 27 is "Environment". The acquis comprises over 200 major legal acts including the WFD
473 covering horizontal legislation, water and air quality, waste management, nature protection, industrial
474 pollution control and risk management, chemicals and genetically modified organisms (GMOs), noise
475 and forestry. Compliance with the acquis, including the application and enforcement of the WFD in the
476 IPA countries, requires significant investment.

477 **2.7 Climate change policy including adaptation and mitigation as a cross-** 478 **cutting issue**

479 At the Paris climate conference (COP21) in December 2015, 195 countries adopted the first-ever
480 universal, legally binding global climate deal. The agreement set a framework for mitigation and
481 adaptation framing also the EU climate policy.

482 Climate change adaptation and mitigation strategies respectively plans have been and are developed
483 at different administrative levels. The main aim is to reduce the vulnerabilities to climate change or to
484 mitigate greenhouse gas emission. They can therefore trigger a set of measures, such as flood
485 defence infrastructure, reallocation of existing infrastructure, water storage (incl. hydropower) and
486 water abstraction, but also investments in green infrastructure like natural water retention measures.

³⁵ Commission Implementing Regulation 2015/207 of 20 January 2015 lays down detailed rules for major projects related to the WFD;
<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32015R0207>

³⁶ Art. 5 of Regulation (EU) No 1316/2013 of the European Parliament and of the Council of 11 December 2013 establishing the Connecting Europe Facility, amending Regulation (EU) No 913/2010 and repealing Regulations (EC) No 680/2007 and (EC) No 67/2010. The total EU Budget is EUR 33,242,259,000 for the period 2014 to 2020.

³⁷ Art. 23 EU Regulation 1316/2013 Compliance with Union policies and Union law: "Only actions which are in conformity with Union law and which are in line with the relevant Union policies shall be financed under this Regulation".

³⁸ Regulation (EU) No 231/2014 of the European Parliament and of the Council of 11 March 2014 establishing an Instrument for Pre-accession Assistance (IPA II). IPA II dedicates EUR 11.7 billion for the period 2014-2020.

487 CIS Guidance Document No. 24 on River Basin Management in a changing climate³⁹ points out that
488 "the implementation of specific adaptation measures, for instance infrastructure projects, might invoke
489 exemptions according to Article 4(7) of the WFD more often". And further that "certain adaptation
490 measures to climate change can be counterproductive to WFD aims, e.g. storage basins. Such
491 measures need to meet the conditions set in Article 4(7) of the WFD on new modifications".

492 The elaboration and implementation of climate adaptation and mitigation plans would benefit from an
493 integrated approach by taking WFD requirements into account in order to maximise the synergies
494 between the two policies and minimise conflicts between them.

495 **2.8 Other environmental policies**

496 The WFD is strongly linked with other environmental directives and policies. WFD Article 4(9) indicates
497 that steps must be taken to ensure that the application of Article 4(7) (as well as Article 4(3) to 4(6))
498 guarantees at least the same level of protection as existing Community legislation. In other words,
499 compliance with other environmental legislation must be ensured despite the application of
500 exemptions under the WFD.

501 Ensuring compliance also provides the opportunity to utilise synergies and reduce the work load in the
502 assessments required for a proposed project under different legislation. As such grouping of
503 assessments and streamlining can be efficient (e.g. in terms of data collection and public
504 participation)⁴⁰.

505 In the following, key environmental directives are described, including the Strategic Environmental
506 Assessment (SEA Directive), Environmental Impact Assessment (EIA) Directive and the Habitats
507 Directive (HD). The specific linkages and potentials for streamlining of assessments are addressed in
508 more detail in the subsequent chapters of the Guidance. A comparative overview table summarising
509 relevant requirements of these directives is provided in Annex A.

510 **2.8.1 Strategic Environmental Assessment (SEA) Directive**

511 Directive 2001/42/EC on the assessment of the effects of certain plans and programmes on the
512 environment (SEA Directive)⁴¹ aims to provide a high level of protection of the environment and to
513 contribute to the integration of environmental considerations into the preparation of certain plans and
514 programmes with a view to promote sustainable development. The SEA Directive seeks to protect the
515 environment by laying down requirements with respect to the procedures to be followed by the
516 Member States when identifying, recording and assessing the environmental effects of certain plans
517 and programmes which are likely to have significant effects on the environment.

518 The SEA Directive applies to plans and programmes which meet all four criteria:

³⁹ https://circabc.europa.eu/sd/a/a88369ef-df4d-43b1-8c8c-306ac7c2d6e1/Guidance%20document%20n%2024%20-%20River%20Basin%20Management%20in%20a%20Changing%20Climate_FINAL.pdf

⁴⁰ For more detailed information of such approaches see e.g. Guidance on Streamlining environmental assessment procedures for energy infrastructure Projects of Common Interest (PCIs), http://ec.europa.eu/environment/eia/pdf/PCI_guidance.pdf; Commission guidance document on streamlining environmental assessments conducted under Article 2(3) of the EIA Directive <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:C:2016:273:FULL&from=DE>

⁴¹ Directive 2001/42/EC of the European Parliament and the Council on the assessment of the effects of certain plans and programmes on the environment, OJ L 197, 21.7.2001, p. 30–37.

- 519 (i) the plan or programme should be subject to preparation and/or adoption by an authority at
520 national, regional or local level;
- 521 (ii) the plan and programme is required by legislative, regulatory or administrative provisions;
- 522 (iii) it is prepared for any of the sectors listed in Article 3(2)(a) of the SEA Directive (e.g.
523 agriculture, fisheries, energy, industry, transport, water management, town and country
524 planning or land use); and
- 525 (iv) sets the framework for future development consent of projects listed under Directive
526 85/337/EEC, or which, in view of the likely effect on sites, have been determined to require an
527 assessment pursuant to Article 6 or 7 of Directive 92/43/EEC.

528 Therefore, plans and programs as described in the previous chapters might, prior to their adoption, be
529 required to be subject to an assessment of their environmental effects under the SEA Directive.

530 Also CIS Guidance Document Nr 11 on the planning process⁴² points out that land use planning and
531 water planning should support each other as far as possible and that, where applicable, the SEA
532 should be taken into account as well. The collection of baseline data, the identification and
533 assessment of the reasonable alternatives and cumulative effects, the mitigation measures, the
534 development of monitoring procedures, the development of consultation and public participation
535 procedures are potential issues to consider for synergies between the SEA process and Article 4(7)
536 related assessments. If the plans and programmes are expected to affect water bodies, it is
537 recommended that the assessment under SEA includes a chapter on the WFD and Article 4(7). This
538 can result in the saving of resources, strengthening of the assessment procedures and generation of a
539 more holistic approach in management planning⁴³.

540 The application of the SEA procedure can in particular:

- 541 • be used as a first indication if Article 4(7) assessments might be required;
- 542 • help to assess cumulative effects of a number of individual projects in their entirety;
- 543 • facilitate relevant assessments on overriding public interest / weighing of interests and the
544 assessment of better environmental options under an Article 4(7) procedure.

545 Therefore, to ensure the effectiveness and the efficiency of the two assessments (SEA and Article
546 4(7)), it is recommended that competent authorities coordinate and closely cooperate with each other
547 throughout the process, e.g. by gathering of environmental information, assessing the likely significant
548 impact of the particular activity on the environment including on water status, providing access to
549 information, consultation and participation to the concerned stakeholders and the public.

550 2.8.2 Environmental Impact Assessment (EIA) Directive

551 Directive 2011/92/EU⁴⁴ on the assessment of the effects of certain public and private projects on the
552 environment (EIA Directive) as amended by Directive 2014/52/EU aims to ensure that projects which
553 are likely to have a significant effect on the environment are adequately assessed before they are
554 approved. Hence, before any decision is taken to allow such a project to proceed, the possible impacts

⁴² CIS Guidance Document No. 11 – Planning process; See: [https://circabc.europa.eu/sd/a/4de11d70-5ce1-48f7-994d-65017a862218/Guidance%20No%2011%20-%20Planning%20Process%20\(WG%202.9\).pdf](https://circabc.europa.eu/sd/a/4de11d70-5ce1-48f7-994d-65017a862218/Guidance%20No%2011%20-%20Planning%20Process%20(WG%202.9).pdf)

⁴³ Carter, J.; Howe, J. (2006): The Water Framework Directive and the Strategic Environmental Assessment Directive: Exploring the linkages, Environmental Impact Assessment Review 26(3):287-300

⁴⁴ Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment, OJ L 26, 28.1.2012, pp.1-21, as amended by Directive 2014/52/EU of the European Parliament and of the Council of 16 April 2014, OJ L 124, 25.4.2014, pp. 1-18

555 it may have on the environment (both from its construction, operation or demolition) need to be
556 identified and assessed.

557 An assessment is obligatory for projects listed in Annex I of the Directive, which are considered as
558 having significant effects on the environment. Other projects, listed in Annex II of the Directive, are not
559 automatically subject to an EIA procedure. For Annex II projects, the Member States have a margin of
560 discretion to decide on a case-by-case basis or according to thresholds or certain criteria whether the
561 project is to be made subject to an assessment because of its likely significant effects on the
562 environment taking into account the relevant selection criteria set out in Annex III of the Directive. In
563 the case where the Member State decides that the project will have significant effects on the
564 environment an environmental impact assessment has to be carried out.

565 The relevance and potentials for synergies and streamlining of assessments required under the EIA
566 and Article 4(7) are specified in more detail in the subsequent chapters of the Guidance (see in
567 particular chapter 4.2 and Annex A).

568 **2.8.3 Birds and Habitats Directives**

569 Directive 92/43/EEC⁴⁵ on the conservation of natural habitats and of wild fauna and flora aims to
570 ensure the survival of Europe's most endangered and vulnerable species. Together with the Birds
571 Directive 2009/147/EC, it sets the standard for nature conservation across the EU and enables
572 Member States to work together within the same legislative framework in order to protect the most
573 vulnerable species and habitat types across their entire natural range within the EU. The protected
574 areas designated under these directives form the Natura 2000 network.

575 Together with the Directives' species protection requirements the establishment and management of
576 Natura 2000 sites⁴⁶ are the key tool for maintaining or bringing protected species and habitats into a
577 favourable conservation status. The Birds Directive protects around 500 bird species naturally
578 occurring in Europe. The Habitats Directive protects around 1,200 European species other than birds
579 which are considered to be endangered, vulnerable, rare and/or endemic. Included in the Directive are
580 sites hosting the natural habitat types listed in Annex I (e.g. coastal and halophytic habitats, fresh
581 water habitats) and habitats of the species listed in Annex II such as mammals, reptiles, fish,
582 crustaceans, insects, molluscs, bivalves and plants.

583 The key requirements for the protection and management of Natura 2000 sites are set out in Article 6
584 of the Habitats Directive. In particular, any plan or project likely to damage a Natura 2000 sites has to
585 be subject to an appropriate assessment within the meaning of Article 6(3) of the Habitats Directive
586 and can only be authorised if it does not affect the integrity of the site, or if it fulfils the conditions for
587 derogations under Article 6(4) of the Habitats Directive⁴⁷. A proposed project affecting a water body
588 might therefore not only require assessments related to Article 4(7) of WFD; it might also lead to the
589 need for assessments in relation to a Natura 2000 site hosting such a water body under Article 6(3)
590 and 6(4) of the Habitats Directive⁴⁸.

⁴⁵ Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora

⁴⁶ Special Areas of Conservation under the Habitats Directive and Special Protection Areas under the Birds Directive.

⁴⁷ For more detailed information see Guidance documents on Article of the 'Habitats Directive' 92/43/EEC at:
http://ec.europa.eu/environment/nature/natura2000/management/guidance_en.htm
http://ec.europa.eu/environment/nature/natura2000/management/docs/art6/new_guidance_art6_4_en.pdf

⁴⁸ For more detailed information on links between those assessments see the relevant document, section 4.3, at:
<http://ec.europa.eu/environment/nature/natura2000/management/docs/FAQ-WFD%20final.pdf>

591 Thus, both, the WFD and the Habitats Directive allow for the use of exemptions under certain
592 conditions, although there are some differences in the procedures and conditions. In both cases
593 authorities need to carry out the relevant procedures and tests under each Directive. However, there
594 are also potentials for synergies and streamlining of the related data collection and assessments,
595 which are outlined in more detail in the subsequent chapters of the Guidance.

596

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598 3 GENERAL CONSIDERATIONS AND SCOPE OF ARTICLE 4(7)

599 3.1 Principle relationship between assessments

600 The following chapters provide a recapitulation of the WFD environmental objectives and clarification
601 on the scope of Article 4(7), its applicability and examples for conditions under which an Article 4(7)
602 Test is triggered.

603 The process for determining whether a

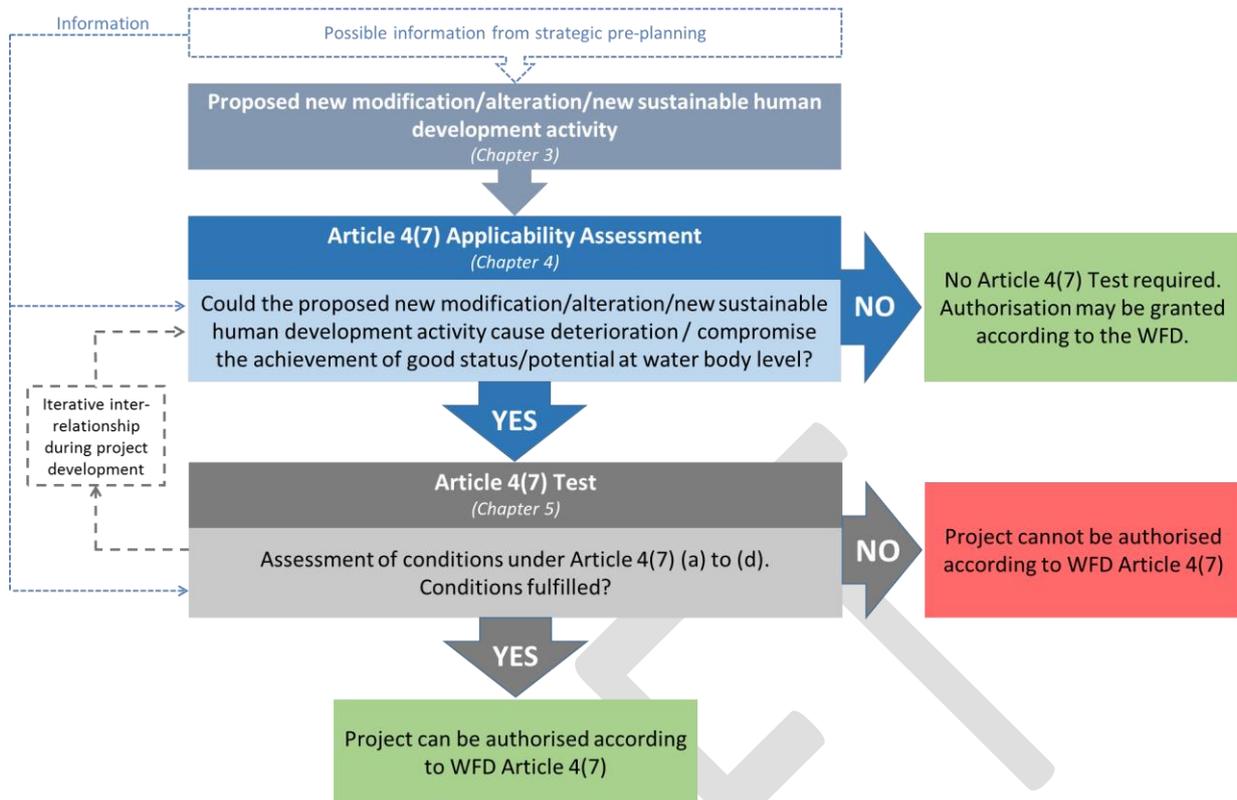
- 604 • new modification to the physical characteristics of a body of surface water / alterations to the
605 level of bodies of groundwater might lead to deterioration / non-achievement of good status /
606 potential, or
- 607 • a new sustainable human development activity might lead to deterioration from high status to
608 good status

609 is a first step in an authorisation or licensing process and needs to be accomplished in advance. This
610 process is called in this context "Applicability Assessment" in relation to Article 4(7) (see chapter 4).
611 This step is necessary to give effect to the obligations of the Directive as it is essential to assess how
612 a proposed project or licensable activity⁴⁹ is expected to affect the environmental objectives of the
613 affected water bodies. It is an important first step to determine whether an "Article 4(7) Test" is
614 required (see chapter 5). The "Applicability Assessment" needs to be distinguished from the "Article
615 4(7) Test". If a project is expected not to cause deterioration, or jeopardizing the achievement of good
616 status/potential (e.g. due to the application of mitigation measures which should be an inherent
617 element of a project), then no Article 4(7) Test is required and the project can be authorised under the
618 WFD.

619 On the other hand, if the project may cause deterioration / jeopardizing the achievement of good
620 status/potential, then it can only be authorised in case the conditions as outlined under Article 4(7) (a)
621 to (d) are fulfilled, and hence the "Article 4(7) Test" is passed. It follows that if the conditions are not
622 fulfilled and the Article 4(7) Test fails, the project cannot be authorised under the WFD.

623 Figure 1 illustrates the principle relationship between the "Article 4(7) Applicability Assessment" and
624 the "Article 4(7) Test". Both are later on specified in more detail, including the iterative inter-
625 relationship between "Applicability Assessment" and "Article 4(7) Test" during project development.
626 Strategic pre-planning (e.g. for specific sectorial development plans) may inform the elaboration and
627 selection of projects, WFD related assessments and overall the decision making process.

⁴⁹ In the remainder of this document, the term "project" should be taken to include other types of licensable activity with the potential to affect the status or potential of water bodies.

628 **Figure 1: Principle relationship between "Article 4(7) Applicability Assessment" and "Article 4(7) Test"**

629

630 Note that next to the conditions of Article 4(7) it needs to be ensured that other relevant WFD
 631 requirements are fulfilled (e.g. Article 4(8) and 4(9), specified later in the document). The
 632 investigations undertaken during the "Applicability Assessment" phase but also the "Article 4(7) Test"
 633 provide the opportunity to utilise synergies with assessments which might be required under other EU
 634 environmental legislation, in particular the Environmental Impact Assessment (EIA) Directive, the
 635 Habitats Directive (HD) and the Strategic Environmental Assessment Directive (SEA). The
 636 relationships are described later on in more detail.

637 3.2 Recap of the WFD Environmental Objectives and Article 4(7)

638 The objective of the Water Framework Directive is to 1) achieve good status/potential of all water
 639 bodies by 2015 and 2) prevent further deterioration of any water body. These objectives apply to both,
 640 surface water bodies (including natural, artificial and heavily modified), and groundwater bodies in
 641 accordance to Article 4(1).

642 For natural surface water bodies, ecological status is defined through biological quality elements
 643 (BQEs) as well as the hydromorphological, chemical and physico-chemical elements supporting the
 644 biological elements (see WFD Annex V). Chemical status is defined by the environmental quality
 645 standards for chemicals set at EU level in Directive 2008/105/EC amended by Directive 2013/39/EU
 646 (priority substances and certain other pollutants).

647 MS are allowed, under certain conditions, to designate surface water bodies as artificial or heavily
 648 modified water bodies (HMWBs). Artificial water bodies are surface water bodies created by human
 649 activity. HMWBs are surface water bodies which, as a result of physical alterations by human activity,
 650 are substantially changed in character (Article 4(3)). The environmental objective for artificial and
 651 heavily modified water bodies is to achieve good ecological *potential* rather than good ecological
 652 status (Article 4(3)), and good chemical status.

653 Groundwater status consists of both quantitative and chemical components. Quantitative status is
654 defined by the available groundwater resource not exceeded by the long-term annual average rate of
655 abstraction; and the groundwater levels and flows are sufficient to meet environmental objectives for
656 associated surface waters and groundwater dependent terrestrial ecosystems; and anthropogenic
657 alterations to flow direction resulting from level change does not cause saline or other intrusion.
658 Chemical status is defined by conductivity and concentrations of pollutants (for details see WFD
659 Annex V and Directive 2006/118/EC).

660 These objectives established by the WFD are legally binding. Article 4(7) sets out circumstances in
661 which failure to achieve certain of the WFD objectives are permitted.

WFD Article 4(7):

Member States will not be in breach of this Directive when:

- *failure to achieve good groundwater status, good ecological status or, where relevant, good ecological potential or to prevent deterioration in the status of a body of surface water or groundwater is the result of new modifications to the physical characteristics of a surface water body or alterations to the level of bodies of groundwater, or*
- *failure to prevent deterioration from high status to good status of a body of surface water is the result of new sustainable human development activities*

and all the following conditions are met:

- a) *All practicable steps are taken to mitigate the adverse impact on the status of the body of water;*
- b) *The reasons for those modifications or alterations are specifically set out and explained in the river basin management plan required under Article 13 and the objectives are reviewed every six years;*
- c) *The reasons for those modifications or alterations are of overriding public interest and/or the benefits to the environment and to society of achieving the objectives set out in paragraph 1 are outweighed by the benefits of the new modifications or alterations to human health, to the maintenance of human safety or to sustainable development, and*
- d) *The beneficial objectives served by those modifications or alterations of the water body cannot for reasons of technical feasibility or disproportionate cost be achieved by other means, which are a significantly better environmental option.*

662

663 Member States are required — unless an exemption under Article 4(7) is granted — to refuse
664 authorisation for an individual project where it may cause deterioration of a water body or failure to
665 achieve good status or potential⁵⁰. The decisive governing factor on whether an Article 4(7) Test
666 needs to be applied is the potential effect of the new modification/alteration or new sustainable
667 development activity on the water body status (see chapter 3.4), irrespectively of whether it is an
668 entirely new activity (new modification/alteration or new sustainable development activity) or
669 amendments (e.g. expansions) to already existing activities or infrastructure (e.g. modifications or
670 extensions at an existing dam or weir). In this context, note that also the renewal of an existing
671 authorisation or licensed activity, e.g. a water abstraction permit, can require an Article 4(7) Test - if
672 the conditions of the permit are changed and the change of activities undertaken according to the
673 renewed permit could cause deterioration. For pressures on water bodies stemming from activities
674 authorised under existing permits, a timely review, and potential amendment, is important for the
675 achievement of the WFD objectives.

⁵⁰ See Case Ruling C-461/13 Bund für Umwelt und Naturschutz Deutschland e.V. versus Bundesrepublik Deutschland: <http://curia.europa.eu/juris/document/document.jsf?text=&docid=165446&pageIndex=0&doclang=en&mode=lst&dir=&occ=first&part=1&cid=1112450>

676 As outlined in Article 4(7), Member states will not be in breach of the Directive if a new
677 modification/alteration/new sustainable human development activity leads to deterioration or
678 compromising the achievement of good status/potential at water body level, and the conditions as
679 outlined under Article 4(7) (a) to (d) are met. Following a precautionary approach, competent
680 authorities may authorise a project in absence of an Article 4(7) Test only if there is no reasonable
681 doubt that it will not cause deterioration or compromise the achievement of good status / potential (see
682 chapter 4.1 for further considerations). Such evidence should be documented.

683 It follows that assessments as to whether a new modification/alteration may lead to deterioration or
684 compromise the achievement of good status / potential need to be determined in advance (*ex-ante*),
685 representing the Article 4(7) "Applicability Assessment" phase.

686 In this context it is important to bear in mind that the designation of artificial or HMWBs in accordance
687 with Article 4(3) is not considered as a type of exemption. Artificial and HMWBs are considered as a
688 specific water body category with its own classification scheme and objectives. Therefore, also for
689 water bodies designated as artificial or heavily modified, non-achievement of good ecological potential
690 or deterioration due to a new modification can only be allowed in case the conditions under Article 4(7)
691 are met.

692 **3.3 Scope of Article 4(7)**

693 Under the first limb of Article 4(7), failure to achieve good groundwater status, good ecological status
694 or, where relevant, good ecological potential, or to prevent deterioration in the status of a body of
695 surface water or groundwater is addressed as the result of new modifications to the physical
696 characteristics of a surface water body or alterations to the level of a groundwater body. Furthermore,
697 under the second limb of Article 4(7), failure to prevent deterioration from high status to good status of
698 a body of surface water is addressed as the result of new sustainable human development activities.

699 In the following, clarification on the above terms is provided⁵¹:

- 700 • New modifications: Modifications to the physical characteristics of surface water bodies mean
701 modifications to their hydro-morphological characteristics (hydrological regime, river continuity,
702 morphological conditions, tidal regime). There is no requirement here regarding the size or
703 spatial extent of the modifications brought about by the project. Also small modifications are
704 covered by this provision. The effects on status may result directly from the modification or
705 alteration or may result from changes in the quality of water brought about by the modification
706 or alteration. Non-exhaustive examples can include hydropower plants, flood protection
707 schemes, future navigation projects or abstractions which are covered by this provision. Also
708 the hydro-morphological characteristics of impoundment created for hydropower and water
709 supply can dictate the oxygen and temperature conditions resulting in a deterioration of
710 ecological status in the impounded water and in the downstream river (see also chapter 3.5).
711 These may be different from those in an unmodified water body.

712 The effects on status of those modifications and alterations may be limited to the water bodies in
713 which modification works are undertaken; or extend to water bodies beyond those in which the
714 modification works are undertaken. For example, the abstraction of water from a body of
715 groundwater may cause adverse effects in an associated surface water body and then an Article
716 4(7) Test might also be required in such an associated surface water body (see chapter 3.5).

⁵¹ See also CIS Guidance No 20: http://ec.europa.eu/environment/water/water-framework/economics/pdf/Guidance_document%2020.pdf

717

718 • Alterations to the level of groundwater: These can result from new groundwater abstractions via
719 new boreholes or increased abstractions from existing boreholes. Also modifications to surface
720 waters can lead to alterations to the level of groundwater.

721

722 • New sustainable human development activities: The Directive does not give a definition of those
723 activities; however, sustainability includes economic, social and environmental aspects. In
724 general, such activities cannot be defined per se through a set of criteria or policies but are
725 framed by the relevant decision making process requirements within an open ended and iterative
726 procedure. The exact definition for an activity falling under sustainable development will thus
727 depend on aspects such as time, scale, involved stakeholders and information available.
728 Relevant process requirements are provided in the WFD itself, the Strategic Environment
729 Assessment, Environmental Impact Assessment and "Aarhus" Directives and should be guided
730 by the principles of the EC Treaty, being the polluter pays principle, the precautionary principle
731 and preventive action, the principle of rectification of pollution at source and the principle of
732 sustainability.

733 Guidance on sustainable development can be found in the UN Sustainable Development Goals
734 as articulated, for example via the Communication on next steps for a sustainable European
735 future and the related staff working document, which was adopted by the European Commission
736 on 22 November 2016⁵². Furthermore, the decision making process should follow the principles of
737 "good governance", including policy coherence, social inclusion and transparency and make best
738 use of the availability of alternatives. A generic approach for small business developments
739 affecting the same water body may be considered when applying the second point of 4(7).

740 Table 2 provides an overview on the modifications and activities covered by Article 4(7) and the
741 relationship and potential effects on the different quality elements of surface and groundwater bodies.

742 1. New modifications to the physical characteristics of surface water bodies (hydromorphological
743 alterations) can have potential direct and/or indirect effects on the biological quality elements and
744 relevant supporting quality elements of surface water bodies, as well as potential indirect effects
745 on groundwater quantitative status (e.g. changes in surface water hydrology or morphology might
746 lead to alterations to the levels of groundwater). There are also potential indirect effects on the
747 chemical status of surface or groundwater bodies (e.g. abstraction might reduce dilution capacity
748 and therefore increase concentrations).

749

750 2. Alterations to the level of groundwater can have potential direct effects on groundwater
751 quantitative status but in some cases also indirect effects on quality elements determining surface
752 water ecological status and/or the chemical status of groundwater (see also chapter 3.4.2).

753

754 3. The second point of Article 4(7) relates to deterioration of surface water bodies from high status
755 to good status as a result of new sustainable human development activities. Deterioration of
756 groundwater is not covered by this point (neither quantitative nor chemical status), and neither
757 are heavily modified or artificial water bodies due to the direct reference to "status". It is also not
758 relevant for surface water chemical status since the quality classes for chemical status only cover
759 "good" or "failing to achieve good" (WFD Annex V 1.4.3), but not "high". An example where the
760 second point of Article 4(7) could be relevant is a new urban waste water treatment plant (if it can
761 be judged as a new sustainable human development activity) discharging into a high status

⁵² Available at: http://ec.europa.eu/environment/sustainable-development/SDGs/implementation/index_en.htm

762 surface water body, where deterioration from high to good ecological status (but not below) would
763 only be allowed in case 4(7) criteria are met.

764 **Note that Article 4(7) does not provide an exemption if deterioration caused by inputs of**
765 **pollutants from point or diffuse sources drives the water body to a status below good⁵³.** This
766 because the first limb of Article 4(7) only addresses new modifications to the physical characteristics of
767 a surface water body or alterations to the level of bodies of groundwater, but not point or diffuse
768 sources of pollution. Input of pollutants is therefore potentially only covered under the second limb of
769 Article 4(7) - new sustainable human development activities - which only relates to deterioration of
770 surface water bodies from high status to good status.

771 **Table 2: Modifications according to Article 4(7), quality elements and possible effects**

Modification / alteration / sustainable human development activity according to Article 4(7)	Surface water bodies				Groundwater bodies	
	Ecological status / potential			Chemical status	Quantitative status	Chemical status
	Biological quality elements	Supporting elements				
		Hydro-morphological quality elements	Chemical and physico-chemical quality elements			
1) Modification to the physical characteristics of a body of surface water	Possible direct and/or indirect effects	Possible direct and/or indirect effects	Possible direct and/or indirect effects	Possible indirect effects	Possible indirect effects	Possible indirect effects
2) Alterations to the level of bodies of groundwater	Possible indirect effects	Possible indirect effects	Possible indirect effects	Possible indirect effects	Possible direct effects	Possible indirect effects
3) New sustainable human development activities*	Possible direct and/or indirect effects	Possible direct and/or indirect effects	Possible direct and/or indirect effects	Not applicable (because no definition of high status)	Not applicable (because not addressed in this specific context)	

772 * Not further defined, potential effects could therefore be direct or indirect. Groundwater not addressed, only deterioration of
773 surface waters from high to good, therefore not relevant for surface water chemical status since no definition for high chemical
774 status for surface waters. Also not relevant for artificial or heavily modified water bodies and therefore the ecological potential
775 since "new sustainable human development activities" only address deterioration of surface water bodies from high to good.

776 3.3.1 Considerations regarding the time-span of effects on water body status/potential

777 An issue to be considered is the time-span with regard to the effects of proposed activities on water
778 body status/potential. Proposed activities can lead to

- 779 i. Temporary effects on quality elements, allowing water body status/potential to recover within a
780 short period of time;
- 781 ii. Permanent effects, where water body status/potential is changed permanently or over a long
782 period of time, and is not expected to recover.

783 If the status or potential of a water body is affected only temporarily over a short period of time and is
784 expected to recover within a short period of time, such fluctuations do not constitute deterioration of
785 status/potential and the application of an Article 4(7) Test will not be required. If the effects on water

⁵³ CIS Guidance Document No. 20: https://circabc.europa.eu/sd/a/2a3ec00a-d0e6-405f-bf66-60e212555db1/Guidance_documentN%C2%B020_Mars09.pdf

786 body status/potential are expected to be permanent over a long period of time, such activities should
787 be subject to an Article 4(7) Test.

788 No definition will be given of "short period of time" or "long period of time". However, the frequencies
789 mentioned for the monitoring programmes⁵⁴ can serve as an indication.

790 The time-span of effects depends on the nature of the proposed activity. Permanent long-term effects
791 can occur as a result of permanent or ongoing modifications or activities (e.g. deterioration due to
792 substantial hydromorphological changes, deterioration from high to good status due to the continuous
793 discharge of pollutants, deterioration of groundwater status due to continuous groundwater
794 abstraction).

795 Temporary short-term effects can occur as a result of short-duration human activities, such as
796 construction or maintenance works. For example, temporary effects due to the establishment of the
797 modification during the building phase are not required to be addressed if no deterioration of status or
798 potential could be expected thereafter in the water body.

799 With regard to maintenance, the frequency can have an influence on the effects on the status or
800 potential of a water body. A shift from frequent maintenance actions to more observing practice and
801 action on demand with only short-term effects can reduce impacts while allowing preserving the use.
802 However, in other cases if maintenance has not been carried out regularly or recently, it might also
803 have the same effects on ecological status/potential as completely new works. In other words, if water
804 body status/potential has recovered/stabilised since the last time maintenance was carried out, the
805 fact it is considered to be 'maintenance' from an engineering perspective does not necessarily mean
806 that it cannot affect water body status. In such cases, 'maintenance' activity should be assessed in the
807 same way as a proposed new physical modification and the Article 4(7) Test may need to be applied.

808 Note that regular maintenance works (e.g. maintenance dredging) can potentially contribute to a
809 failure to achieve good ecological status. However, whilst discontinued maintenance could enable the
810 water body to reach good status, stopping or constraining maintenance activities in designated heavily
811 modified water bodies could also result in a "significant adverse effect on the use" in the meaning of
812 Article 4(3), for which the designation has been made. In such cases, maintenance works could be
813 taken into account in the process of defining "good ecological potential" and would therefore not be
814 subject to an Article 4(7) Test.

815 In specific cases temporary negative effects on quality elements might also occur as a result of the
816 implementation of measures according to the Program of Measures meant for the improvement of
817 water body status or potential (e.g. morphological restoration measures). This due to the fact that
818 nature might require time to recover or measures might need time to reach full ecological effectiveness
819 following the intervention to the ecosystem. Such cases might be subject to exemptions according to
820 Article 4(4) based on 'natural conditions' (see chapter 5.5.3) but should not require an Article 4(7) Test.

821 Finally, the above time-span considerations with regard to effects in the context of Article 4(7) need to
822 be distinguished from 'temporary deterioration' in the meaning of Article 4(6), which is restricted to
823 *natural cause or force majeure* which are exceptional or could not reasonably have been foreseen
824 (e.g. deterioration due to extreme floods or prolonged droughts).

⁵⁴ See WFD Annex V 1.3.4 and 2.2.3

825 3.3.2 Considerations regarding the size of a modification and water body delineation

826 The size of a modification, or the obligation to carry out an EIA, is not necessarily a relevant criterion
827 to answer the question whether an Article 4(7) Test is required. The relevant approach is to assess if a
828 given project, whatever its importance is, may result in deterioration of the status/potential of a water
829 body or prevent the achievement of good status/potential. Thus, projects of any size may fall under
830 Article 4(7).

831 Potential effects of modifications on status/potential of the water body might differ, independently from
832 the size of a proposed modification but depending e.g. whether important habitats for the status of a
833 water body are affected. Therefore, effects might be different for modifications in sections of a water
834 body without significant importance for the ecosystem, compared to very sensitive stretches hosting
835 key habitats e.g. for spawning of a certain fish species.

836 Another important aspect in this context is the thorough delineation of water bodies. A “water body”
837 should be a coherent discrete and significant element of surface or ground water in the river basin
838 (district) to which the environmental objectives of the Directive must apply. Hence, the main purpose of
839 identifying “water bodies” is to enable the status to be accurately described and compared to
840 environmental objectives⁵⁵. The thorough delineation of water bodies is therefore essential. This
841 because the results of an assessment of the effects of a certain project on water body status/potential
842 can differ depending whether the water body is properly delineated.

843 Furthermore, although the size of a modification can be relevant (e.g. the length of a morphological
844 modification or the area where the groundwater level is altered), criteria which are purely considering
845 the share of a water body which is proposed to be modified are not necessarily meaningful. For
846 instance, smaller modifications in a certain sensitive stretch of a water body might have more severe
847 effects compared to larger modifications in a less sensitive stretch of the same water body.

848 Hence, the relevant criterion is whether or not the proposed modification may affect the
849 status/potential of a water body. Otherwise Member States will be unable to apply the Directive’s
850 objectives correctly. Drawing from experiences gained during the pressures-impacts assessments of
851 existing modifications can be useful in this context.

852 3.3.3 Projects outside the scope of Article 4(7)

853 The guidance focuses on projects which are within the scope of Article 4(7) and its applicability. For
854 completeness projects which are outside the scope are here also briefly addressed. Projects which are
855 not considered as new modifications to the physical characteristics of surface water bodies, alterations
856 to the level of groundwater, or new sustainable human development activities, and which are therefore
857 outside the scope of Article 4(7), may affect the status/potential of water bodies. The steps as outlined
858 in the "Article 4(7) Applicability Assessment" can be useful in that wider context for the assessment
859 whether such projects may lead to deterioration or jeopardize the achievement of the WFD objectives.

860 If the assessment concludes that such projects are not expected to lead to deterioration or jeopardize
861 the achievement of good status/potential of water bodies, authorisation may be granted according to
862 the WFD. Note that if the assessment concludes that deterioration or jeopardizing the achievement of

⁵⁵ Guidance Document No 2 - Identification of Water Bodies; See: <https://circabc.europa.eu/sd/a/655e3e31-3b5d-4053-be19-15bd22b15ba9/Guidance%20No%20-%20Identification%20of%20water%20bodies.pdf>

863 good status/potential is expected and such projects are outside the scope of Article 4(7), authorization
864 may not be granted according to the WFD.

865 **3.4 Conditions triggering an Article 4(7) Test**

866 The environmental objectives of the WFD are set out in Article 4 of the Directive (for a summary see
867 chapter 3.2). The scope of Article 4(7) and potential effects of projects in the meaning of Article 4(7) –
868 1) new modifications to the physical characteristics of a surface water body, 2) alterations to the level
869 of groundwater, and 3) new sustainable human development activities – are explained in chapter 3.3.
870 The two key objectives against which such new developments have to be assessed are whether they
871 cause

- 872 • Deterioration of status (or potential) of a surface or groundwater body, and
- 873 • Preventing the achievement of good groundwater status, good ecological status / potential for
874 water bodies currently failing to achieve this status / potential.

875 The following clarifications have been provided⁵⁶ on the way in which compliance with the Directive's
876 environmental objectives should be interpreted in the assessment of new developments:

- 877 • consent for the development must not be granted by an authorising authority where the project
878 may cause a deterioration in the status of a body of surface water or where it jeopardises the
879 attainment of good surface water status or of good ecological potential and good surface
880 water chemical status by the date laid down in the directive, unless a derogation is granted;
- 881 • “deterioration of the status” of the relevant body of surface water includes a fall by one class
882 of any element of the “quality elements” within the meaning of Annex V of the WFD even if the
883 fall does not result in a fall of the classification of the body of surface water as a whole;
- 884 • if the quality element is already in the lowest class, any deterioration of that element
885 represents deterioration of status within the meaning of WFD Article 4(1)(a)(i).

886 The following chapters aim to illustrate examples and considerations for the practical application of the
887 above outlined principles for surface and groundwater bodies. Note that the practical application of
888 these principles and related assessments whether a planned project is expected to cause
889 deterioration or jeopardise the attainment of good status/potential can be more straightforward and
890 reliable for some projects, but pose greater challenges for other cases. Related practical
891 considerations are also addressed in chapters 3.7 and 4.1 of the guidance.

892 **3.4.1 Practical considerations and examples for surface water bodies**

893 Based on the above clarifications the following practical examples are provided for surface water
894 bodies to illustrate the conditions under which an Article 4(7) Test is triggered for taking a decision
895 regarding authorisation of a new modification or new sustainable human development activity.

896 Example 1 illustrates a case, where the overall ecological status of a water body may deteriorate due
897 to a proposed new modification, therefore triggering an Article 4(7) Test.

⁵⁶ Case C-461/13 Bund für Umwelt und Naturschutz Deutschland e.V. versus Bundesrepublik Deutschland:
<http://curia.europa.eu/juris/document/document.jsf?jsessionid=9ea7d0f130d6146e624bf57c46808158f287aced950b.e34Kaxilc3eQc40LaxqMbN4Pax8Le0?text=&docid=165446&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=11661>

898 **Table 3: Example 1 - Deterioration of overall status**

Example 1									
Starting point: Overall ecological status determined by quality element in worst condition (in this case moderate).									
Effect due to modification: Overall status may deteriorate due to deterioration of individual quality elements (in this example benthic invertebrate and fish fauna), therefore triggering an Article 4(7) Test. The example includes in this case a change in overall status of the water body from moderate to poor.									
Quality elements	Biological quality elements			Hydromorphological quality elements supporting the biological elements			Chem. and phys. chem. quality elements supporting the biological elements		Overall ecological status
	Aquatic flora	Benthic invertebrate fauna	Fish fauna	Hydrology	Morphology	Continuity	General conditions	River basin specific pollutants	
Starting point	2	2	3	worse than 2**	2*	worse than 2**	2*	2	3
Effect due to modification	2	3	4	worse than 2**	worse than 2**	worse than 2**	2*	2	4

899 1: High; 2: Good; 3: Moderate; 4: Poor; 5: Bad

900 * Conditions consistent with the achievement of the values specified for good status

901 ** Conditions not consistent with the achievement of the values specified for good status

902

903 Example 2 illustrates a case, where the overall ecological status is maintained but one biological
 904 quality element may deteriorate due to a proposed new modification, therefore triggering an Article
 905 4(7) Test.

906 **Table 4: Example 2 – Overall status remains but deterioration of a biological quality element**

Example 2									
Starting point: Overall ecological status determined by quality element in worst condition (in this case good).									
Effect due to modification: Overall ecological status maintained as good but one biological quality element may deteriorate, in this example fish fauna due to deterioration of the quality elements hydrology and continuity, therefore triggering an Article 4(7) Test.									
Quality elements	Biological quality elements			Hydromorphological quality elements supporting the biological elements			Chem. and phys. chem. quality elements supporting the biological elements		Overall ecological status
	Aquatic flora	Benthic invertebrate fauna	Fish fauna	Hydrology	Morphology	Continuity	General conditions	River basin specific pollutants	
Starting point	2	1	1	1	1	1	2*	1	2
Effect due to modification	2	1	2	2*	1	2*	2*	1	2

907 1: High; 2: Good; 3: Moderate; 4: Poor; 5: Bad

908 * Conditions consistent with the achievement of the values specified for good status

909

910

911

912

913 Example 3 illustrates a case, where the overall ecological status of a water body may deteriorate from
 914 high to good due to a proposed new modification, therefore triggering an Article 4(7) Test.

915 **Table 5: Example 3 - Deterioration from high status to good status**

Example 3									
Starting point: Overall ecological status high since all quality elements in high status class.									
Effect due to modification: Individual quality elements may deteriorate (in this example benthic invertebrate fauna, fish fauna and morphology) and hence overall status may deteriorate from high to good, therefore triggering an Article 4(7) Test.									
Quality elements	Biological quality elements			Hydromorphological quality elements supporting the biological elements			Chem. and phys. chem. quality elements supporting the biological elements		Overall ecological status
	Aquatic flora	Benthic invertebrate fauna	Fish fauna	Hydrology	Morphology	Continuity	General conditions	River basin specific pollutants	
Starting point	1	1	1	1	1	1	1	1	1
Effect due to modification	1	2	2	1	2*	1	1	1	2

916 1: High; 2: Good; 3: Moderate; 4: Poor; 5: Bad

917 * Conditions consistent with the achievement of the values specified for good status

918

919 Example 4 illustrates a case, where the quality element which is already in the lowest class (bad) may
 920 further deteriorate. Note that any further deterioration of a quality element which is already in the
 921 lowest class is considered as deterioration, therefore triggering an Article 4(7) Test.

922 In practical terms, considerations with regard to any further deterioration of a quality element which is
 923 already in the lowest class can include aspects whether such further deterioration would be
 924 measurable, or have detectable adverse effects on the structure and function of the ecosystem based
 925 on a reasonable assessment. Furthermore, the overall context of the WFD and the specific
 926 requirements of Article 4(7) need to be reflected, i.e. that the **Article 4(7) conditions apply in cases**
 927 **where a proposed modification prevents the achievement of good status/potential**. Further
 928 deterioration of a water body which is currently failing to achieve this status or potential, and which is
 929 actually in the lowest class, drives the water body further away from achieving the WFD objectives and
 930 thus the need to protect, enhance and restore such water bodies. It follows that authorities should be
 931 particularly vigilant with regard to further deterioration of a quality element which is already in the
 932 lowest class.

933

934

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937

938 **Table 6: Example 4 – Deterioration of a quality element of a surface water body which is already in the**
 939 **lowest class**

Example 4									
Starting point: Overall ecological status bad since one quality element in bad status class.									
Effect due to modification: The quality element which is already in the lowest class (bad) is further deteriorating (in this example e.g. further loss of composition or abundance of fish fauna due to morphological changes), therefore triggering an Article 4(7) test. Note that any further deterioration of a quality element which is already in the lowest class is considered as deterioration and drives the water body further away from achieving the WFD objectives.									
Quality elements	Biological quality elements			Hydromorphological quality elements supporting the biological elements			Chem. and phys. chem. quality elements supporting the biological elements		Overall ecological status
	Aquatic flora	Benthic invertebrate fauna	Fish fauna	Hydrology	Morphology	Continuity	General conditions	River basin specific pollutants	
Starting point	2	3	5	worse than 2**	2*	worse than 2**	worse than 2**	worse than 2**	5
Effect due to modification	2	3	5↓	worse than 2**	worse than 2**	worse than 2**	worse than 2**	worse than 2**	5

940 1: High; 2: Good; 3: Moderate; 4: Poor; 5: Bad

941 * Conditions consistent with the achievement of the values specified for good status

942 ** Conditions not consistent with the achievement of the values specified for good status

943

944 **Practical considerations for the role of supporting elements**

945 The lists of quality elements for each surface water category are subdivided into 3 groups of
 946 'elements': (1) biological elements, (2) hydromorphological elements supporting the biological
 947 elements; and (3) chemical and physico-chemical elements supporting the biological elements (see
 948 WFD Annex V).

949 *Hydromorphological elements supporting the biological quality elements*

950 As outlined in CIS Guidance Document No. 13⁵⁷, the values of the hydromorphological quality
 951 elements must be taken into account when assigning water bodies to the high ecological status class
 952 (and the maximum ecological potential class), i.e. when downgrading from high ecological status (or
 953 maximum ecological potential) to good ecological status (or potential). For the other status/potential
 954 classes, the hydromorphological elements are required to have conditions consistent with the
 955 achievement of the values specified for the biological quality elements. Therefore, the assignment of
 956 water bodies to the good, moderate, poor or bad ecological status/potential classes may be made on
 957 the basis of the conditions of the biological quality elements.

958 Note that the conditions of the supporting elements should be consistent with the achievement of the
 959 values specified for the biological quality elements and the competent authorities should be in a
 960 position to ascertain in a given case whether the supporting quality element has conditions consistent
 961 with the values specified for the biological quality elements. Examples 2 and 3 above illustrate cases
 962 where biological quality elements are expected to deteriorate because of the deterioration of individual
 963 hydromorphological quality elements, supporting the biological elements, due to the proposed
 964 modification, therefore triggering an Article 4(7) Test.

⁵⁷ See CIS Guidance Document No. 13, chapter 2 and Figure 1, on the overall approach to the classification of ecological status and ecological potential: [https://circabc.europa.eu/sd/a/06480e87-27a6-41e6-b165-0581c2b046ad/Guidance%20No%2013%20-%20Classification%20of%20Ecological%20Status%20\(WG%20A\).pdf](https://circabc.europa.eu/sd/a/06480e87-27a6-41e6-b165-0581c2b046ad/Guidance%20No%2013%20-%20Classification%20of%20Ecological%20Status%20(WG%20A).pdf)

965 Also the question whether a new modification may jeopardize the achievement of good
 966 status/potential needs to be considered in that context. An example can be a water body which is
 967 currently in less than good status/potential, e.g. due to pollution, but the hydromorphological
 968 conditions are consistent with the requirements to achieve good status/potential. A planned new
 969 modification, which is expected to deteriorate a hydromorphological quality element (e.g. morphology
 970 to values consistent only with moderate status/potential), may not immediately deteriorate a biological
 971 quality element (which are already in less than good status due to pollution), but may jeopardize the
 972 achievement of good status/potential following the implementation of measures for pollution reduction
 973 in line with the Program of Measures of the River Basin Management Plan. In such a case an Article
 974 4(7) Test would be required, even though none of the biological quality elements is expected to
 975 deteriorate following the execution of the modification.

976 The above presupposes that assessment methods for the biological quality elements should be able
 977 to capture modifications in hydromorphological elements in order to determine whether these would be
 978 tantamount to deterioration of the status/potential or a failure to achieve good status/potential on the
 979 biological quality elements. If not, a more targeted methodology relating specifically to these
 980 supporting quality elements may be necessary.

981 As pointed out, there is a need that Member States have developed methodologies which allow
 982 capturing the expected effects of changed conditions of the supporting quality elements on the
 983 biological quality elements. This issue can be of particular relevance for cases where the biological
 984 quality elements are for instance in good status/potential, and a hydromorphological quality element is
 985 expected to deteriorate from high status to conditions not consistent with the high status class
 986 anymore following the execution of the modification. In absence of consistent methodologies it would
 987 be prudent to follow a precautionary approach, and therefore performing an Article 4(7) Test during the
 988 authorisation process of the planned modification.

989 Hence, in practical terms, information (i.e. from the monitoring programs) on the existing conditions of
 990 the quality elements for a water body, including the supporting elements, and pre-determined
 991 hydromorphological standards for different classes (e.g. high, good, moderate, poor, bad) can be
 992 instrumental to be able to assess the risk of a proposed new modification to the biology. Deterioration
 993 of any of them (hydrology, morphology or continuity) indicates a significant risk to one or more
 994 biological quality elements and supports decisions whether a proposed new modification may lead to
 995 deterioration and hence require an Article 4(7) Test (see also the respective case study from
 996 UK/Scotland).

Case study 1: How hydromorphological standards are used to prevent deterioration of status

Country: UK/Scotland

Under Scotland's [regulatory framework](#), there is a requirement for prior-authorisation for any activity with the potential to adversely affect the water environment, including the abstraction of water; the building of impounding works; and the carrying out of any other building or engineering works in, or in the vicinity of, surface waters.

As a first step in the prior-authorisation process, the regulator ([the Scottish Environment Protection Agency](#)) assesses the risk posed by the proposed activity to the water environment.

This risk assessment involves predicting how:

- (i) the water body's hydromorphological quality elements (hydrology, morphology and continuity) are likely to be altered by the proposed activity; and
- (ii) how those alterations are likely to affect the water body's biological quality elements.

Predicting how the hydromorphological quality elements will be altered requires information on the elements' existing condition. This is provided by SEPA's monitoring and modelling programmes supplemented, if required, by information supplied by the developer. For example, SEPA maintains modelled estimates for all

rivers on the degree to which their flows have been altered by existing abstractions, discharges and impoundments.

To assess the risk to the biology, SEPA compares the changes a proposal will cause to the water body's hydromorphology with pre-determined hydromorphological standards for high, good, moderate and poor. These standards have been set such that a breach of any of them (hydrology, morphology or continuity) indicates a significant risk to one or more biological quality elements. Where SEPA considers that a proposal is likely to result in a breach and hence deterioration of status, it can only [authorise the proposal](#) if the requirements of Article 4(7) are met.

The hydromorphological standards are derived, and updated from time to time, via a nationally-coordinated process bringing together research, data and technical experts from across the UK and beyond. The standards are issued to SEPA in the form of [Ministerial Directions](#). Among other things, the Directions list standards for river flows, lake levels and river morphological condition. In 2017, a major review of the standards for the latter will be completed and revised standards issued to reflect improvements in scientific understanding.

The standards allow SEPA to:

- efficiently and consistently assess the risk of deterioration posed by developments, whether that risk is to a water body's overall status or to the status of individual biological quality elements that are in a higher status class than that of the water body overall (e.g. where the water body is in good status overall but some biological elements are in a high status condition);
- in the case of water bodies that are worse than good status (e.g. because of pollution), assess the risk that the development will compromise the future achievement of good status (e.g. by breaching one or more of the hydromorphological standards for good); and
- assist prospective developers by providing information on the scales of development that are likely to be possible in different parts of the water environment without risking deterioration or compromising the future achievement of good status.

997

998 *Chemical and physico-chemical elements supporting the biological elements*

999 The chemical and physico-chemical quality elements supporting the biological elements include the
1000 general conditions and the river basin specific pollutants. The values of the chemical and physico-
1001 chemical quality elements supporting the biological quality elements must be taken into account when
1002 assigning water bodies to the high and good ecological status classes and to the maximum and good
1003 ecological potential classes (i.e. when downgrading from high status/maximum ecological potential to
1004 good ecological status/potential as well as from good to moderate ecological status/potential). For the
1005 other status/potential classes the chemical and physico-chemical elements are required to have
1006 "conditions consistent with the achievement of the values specified for the biological quality elements"
1007 (see WFD Annex V and CIS Guidance Document No. 13).

1008 The **general conditions** appear to be relevant in the context of Article 4(7) due to the scope of Article
1009 4(7) and related effects (see chapter 3.3). Note that the general conditions form a group of conditions.
1010 In practical terms the general conditions (transparency, thermal conditions, oxygenation conditions,
1011 salinity, acidification status, nutrient conditions) should also be reflected by the status of the biological
1012 quality elements and the competent authorities should be in a position to ascertain in a given case
1013 whether the supporting quality element has conditions consistent with the values specified for the
1014 biological quality elements. Deterioration of any of them indicates a significant risk to one or more
1015 biological quality elements and supports decisions whether a proposed modification may lead to
1016 deterioration and hence require an Article 4(7) Test. Similar considerations as outlined above for
1017 hydromorphological quality elements supporting the biological quality elements may be relevant.

1018 Finally, it cannot be ruled out that concentrations of certain river basin specific pollutants might
1019 increase due to indirect effects of a proposed project (see chapter 3.3). If this was expected to lead to
1020 failure in meeting their (national) environmental quality standards, such failure would be considered as
1021 deterioration, thus triggering an Article 4(7) Test. Any further measurable increase in concentrations of
1022 pollutants already failing to meet their environmental quality standards would also be considered as
1023 deterioration, because it would drive the water body further away from achieving the WFD objectives.

1024 Similar considerations apply in relation to the environmental quality standards set for the priority
1025 substances and other pollutants at EU level that determine chemical status.

1026 In this context, it should be recognised that, for an Article 4(7) exemption to be applicable, the
1027 deterioration needs to result from activities within the scope of Article 4(7) (new modifications to the
1028 physical characteristics of a surface water body, alterations to the level of groundwater, new
1029 sustainable human development activities). Article 4(7) does not provide for exemption if deterioration
1030 to a status below good is caused by inputs of pollutants from point or diffuse sources unconnected
1031 with those activities (see chapter 3.3).

1032 **Practical considerations for heavily modified (HMWB) and artificial water bodies (AWB)**

1033 A new modification to the physical characteristics of a surface water body might also be planned in
1034 water bodies which have been designated as heavily modified or artificial in previous WFD planning
1035 cycles (existing HMWB or AWB). In principle, the tables above illustrating examples on the conditions
1036 under which an Article 4(7) Test is required for the authorisation of a modification in natural water
1037 bodies are also applicable to existing HMWBs and AWBs with reference to their ecological potential
1038 and related quality elements.

1039 When assessing the impact of a new physical modification on the ecological potential of a HMWB it is
1040 important to be able to distinguish this impact from the impact caused by the existing physical
1041 modification which led to the HMWB designation. In practice, this distinction should be possible to do,
1042 if there is a proper assessment of the hydromorphological and biological quality elements in the
1043 current ecological potential.

1044 Therefore, a precondition for determining during the Article 4(7) Applicability Assessment whether a
1045 new modification could lead to a deterioration or non-achievement of good ecological potential due to
1046 a new modification is that the environmental objective of the heavily modified or artificial water body
1047 (good ecological potential – GEP) has to be clearly defined according to WFD principles.

1048 As explained in chapter 5.5.2, if an Article 4(7) exemption is granted for a new physical modification in
1049 an existing HMWB or AWB, the need to re-define the ecological potential of this water body needs to
1050 be checked, taking into account the additional physical modification.

1051 **3.4.2 Practical considerations and examples for groundwater bodies**

1052 In the following, practical considerations and examples are derived for groundwater bodies based on
1053 the above outlined principles described for surface water bodies. If the criteria are met, Article 4(7)
1054 exemptions can be applied for alterations to the level of groundwater (a physical characteristic of
1055 groundwater bodies) which can result in direct effects on groundwater status. **Alterations to the level
1056 of groundwater are particularly relevant for failure to achieve good groundwater quantitative
1057 status.** Groundwater quantitative status is defined as being either ‘Good’ or ‘Poor’. The definition of
1058 good quantitative status is set out in WFD Annex V 2.1.2. Elements of quantitative status assessment
1059 are further specified in CIS Guidance Document No. 18⁵⁸. For a groundwater body to be of good
1060 quantitative status the following criteria (objectives) covered by the definition of good status must be
1061 met:

⁵⁸ For details see Guidance Document No. 18 on Groundwater status and trend assessment: https://circabc.europa.eu/sd/a/ff303ad4-8783-43d3-989a-55b65ca03afc/Guidance_document_N%C2%B018.pdf

- 1062 1) available groundwater resource is not exceeded by the long term annual average rate of
1063 abstraction;
- 1064 2) no significant diminution of surface water chemistry and/or ecology resulting from
1065 anthropogenic water level alteration or change in flow conditions that would lead to failure of
1066 relevant Article 4 objectives for any associated surface water bodies;
- 1067 3) no significant damage to groundwater dependent terrestrial ecosystems resulting from an
1068 anthropogenic water level alteration;
- 1069 4) no saline or other intrusions resulting from anthropogenically induced sustained changes in
1070 flow direction.

1071 According to Guidance Document No. 18, all relevant tests, considering those elements which are at
1072 risk, should be carried out independently of each other, with the results subsequently being combined
1073 for an overall assessment of quantitative status. The worst classification among the relevant tests for
1074 quantitative status is reported as overall quantitative status, and if any test results in poor status, then
1075 this overall classification of the groundwater body will be poor status. It follows that if one (or more) of
1076 the relevant groundwater tests could fail as a result of the alteration to the groundwater level,
1077 groundwater quantitative status would deteriorate from "good" to "poor" and an Article 4(7) test would
1078 be triggered.

1079 For a groundwater body which is already in "poor" quantitative status due to existing conditions
1080 causing a failure of one or more of the criteria, failure to reach the objective of achieving "good status"
1081 due to further alteration to the level of groundwater is possible. Therefore, in case further alteration to
1082 the level of groundwater would lead to "*failure to achieve good groundwater status*", an Article 4(7) test
1083 would be triggered. Note that in case good status cannot be achieved due to prior and further
1084 alteration, exemptions according to Article 4(4) or 4(5) will have to be justified in the river basin
1085 management planning process according to their distinct conditions (see also chapter 5.5.3).

1086 In the following text, examples are provided to illustrate the conditions under which an Article 4(7) test
1087 is required for taking a decision regarding authorisation. The tables are simplified for illustration
1088 purposes. CIS Guidance No. 15⁵⁹ should be taken into account for the assessment of the risk for
1089 deterioration.

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⁵⁹ https://circabc.europa.eu/sd/a/e409710d-f1c1-4672-9480-e2b9e93f30ad/Groundwater%20Monitoring%20Guidance%20Nov-2006_FINAL-2.pdf

1096 **Table 7: Example 5 – Deterioration of overall groundwater quantitative status from "good" to "poor"**

Example 5					
<p>Starting point: Overall groundwater quantitative status is classified as "good" since each criterion meets the conditions for "good".</p> <p>Effect due to modification: Due to the modification one criterion is expected to deteriorate from "good" to "poor" (in this example due to the damage of a groundwater dependent terrestrial ecosystem), as well as the overall quantitative status, therefore triggering an Article 4(7) test.</p>					
	Criteria				Overall quantitative groundwater status
	1) Available groundwater resource is not exceeded by the long term annual average rate of abstraction	2) No significant diminution of surface water chemistry and/or ecology resulting from anthropogenic water level alteration or change in flow conditions that would lead to failure of relevant Article 4 objectives for any associated surface water bodies	3) No significant damage to groundwater dependent terrestrial ecosystems resulting from an anthropogenic water level alteration;	4) No saline or other intrusions resulting from anthropogenically induced sustained changes in flow direction.	
Starting point	G	G	G	G	G
Effect due to modification	G	G	P	G	P

1097 G: Good; P: Poor;

1098

1099 **Table 8: Example 6 – Groundwater body which is already classified as "poor" and one further criterion**
 1100 **does not meet the conditions**

Example 6					
<p>Starting point: Overall groundwater quantitative status is classified as "poor" since one criterion does not meet the conditions for "good" (in this example due to saline intrusions).</p> <p>Effect due to modification: Further alteration to the groundwater level would lead to further deterioration (in this example a terrestrial ecosystem would be damaged) and "<i>failure to achieve good groundwater status</i>", therefore triggering an Article 4(7) test.</p>					
	Criteria				Overall quantitative groundwater status
	1) Available groundwater resource is not exceeded by the long term annual average rate of abstraction	2) No significant diminution of surface water chemistry and/or ecology resulting from anthropogenic water level alteration or change in flow conditions that would lead to failure of relevant Article 4 objectives for any associated surface water bodies	3) No significant damage to groundwater dependent terrestrial ecosystems resulting from an anthropogenic water level alteration;	4) No saline or other intrusions resulting from anthropogenically induced sustained changes in flow direction.	
Starting point	G	G	G	P	P
Effect due to modification	G	G	P	P	P

1101 G: Good; P: Poor;

1102 **Table 9: Example 7 – Further deterioration of a criterion which is already classified as "poor" leading to**
 1103 **failure of achieving "good"**

Example 7					
<p>Starting point: Overall groundwater quantitative status is classified as "poor" since one criterion does not meet the conditions for "good" (in this example due to the damage of a groundwater dependent terrestrial ecosystem).</p> <p>Effect due to modification: Due to the modification the same criterion which is already failing is further deteriorated (e.g. further damages on the same or additional damage of another terrestrial ecosystem) leading to "failure to achieve good groundwater status" and therefore triggering an Article 4(7) test.</p>					
	Criteria				Overall quantitative groundwater status
	1) Available groundwater resource is not exceeded by the long term annual average rate of abstraction	2) No significant diminution of surface water chemistry and/or ecology resulting from anthropogenic water level alteration or change in flow conditions that would lead to failure of relevant Article 4 objectives for any associated surface water bodies	3) No significant damage to groundwater dependent terrestrial ecosystems resulting from an anthropogenic water level alteration;	4) No saline or other intrusions resulting from anthropogenically induced sustained changes in flow direction.	
Starting point	G	G	P	G	P
Effect due to modification	G	G	P _↓	G	P

1104 G: Good; P: Poor;

1105 The consequences for the Article 4(7) case can be very distinct depending on the actual effects of the
 1106 alteration to the level of groundwater. For instance, in case the proposed alteration would cause
 1107 deterioration of a quality element of an associated surface water body (see criteria no. 2 above), not
 1108 only the quantitative status of the groundwater body would deteriorate but also the surface water body.
 1109 An Article 4(7) test would in such a case have to address both water bodies (see also chapter 3.5 with
 1110 regard to effects on other water bodies).

1111 With regard to the groundwater balance test (available groundwater resource is not exceeded by the
 1112 long term annual average rate of abstraction - see criteria no. 1 above), failure of meeting this test
 1113 indicates over-abstraction and a long-term imbalance, which could lead to a "continuous" lowering of
 1114 the groundwater table. If continued in the long-term this could lead to a loss of the resource.

1115 Finally, **alterations to the level of groundwater can also cause deterioration of groundwater**
 1116 **chemical status**. This can be the case for saline or other intrusion due to groundwater abstraction
 1117 (see criterion 4 above), leading to failure of both groundwater quantitative status and groundwater
 1118 chemical status. Alterations to the level of groundwater might also cause **indirect effects** and
 1119 changes to geochemical processes influencing groundwater chemistry, leading to failure of
 1120 groundwater chemical status (see Guidance No. 18, chapter 5.3.4). In this context, note that Article
 1121 4(7) does not provide an exemption if deterioration caused by inputs of pollutants from point or diffuse
 1122 sources drives the water body to a status below good.

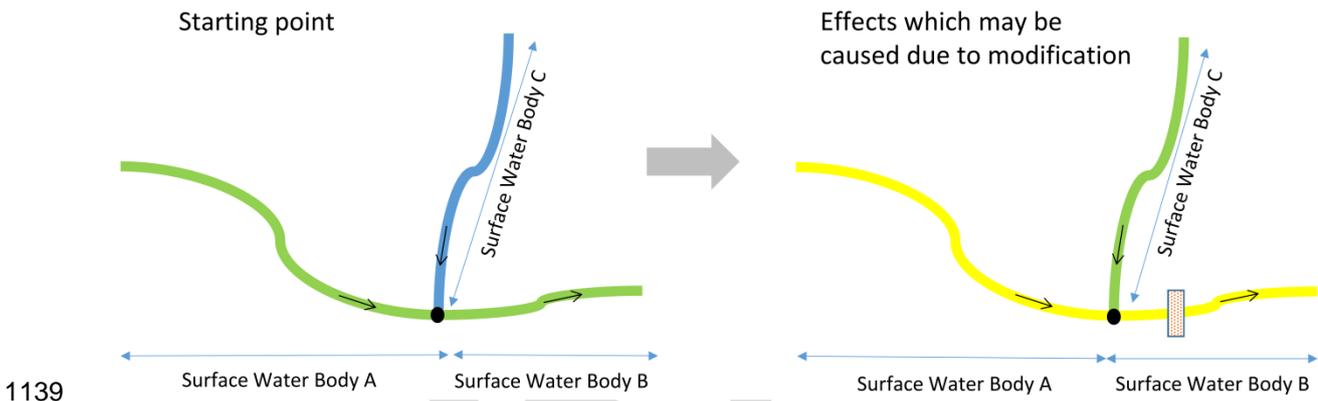
1123

1124 **3.5 Effects on other water bodies**

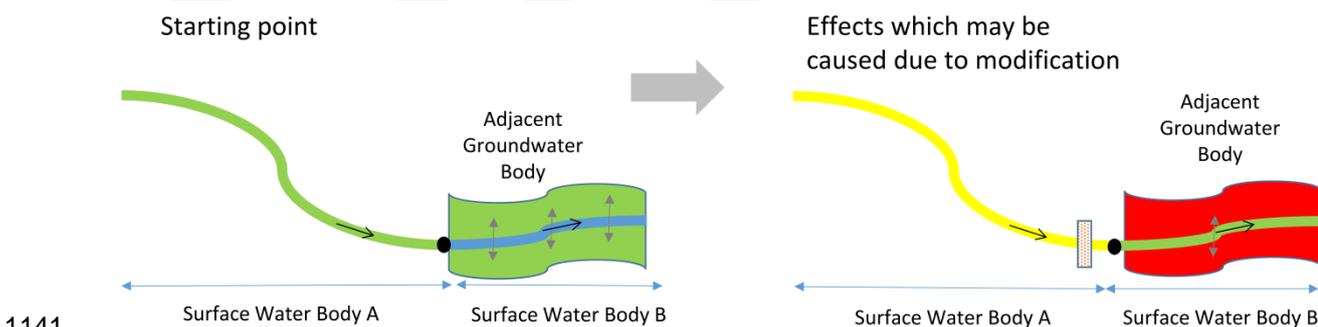
1125 When applying an Article 4(7) exemption to a water body, "a Member State shall ensure that the
 1126 application does not permanently exclude or compromise the achievement of the objectives of this
 1127 Directive in other bodies of water within the same river basin district and is consistent with the
 1128 implementation of other Community environmental legislation" (Article 4(8)).

1129 In practice the modification of a water body might cause impacts in other (adjacent) water bodies, in
 1130 specific cases even in another river basin district (e.g. an artificial water body that connects two river
 1131 basins or an adjacent coastal water body in the neighbouring river basin district). Figure 2 illustrates
 1132 an example for a modification in a water body (e.g. a proposed dam in Surface Water Body B),
 1133 causing deterioration from good to moderate ecological status. The adjacent surface water bodies
 1134 (Surface Water Body A and C) are impacted as well (e.g. due to impacts on continuity and important
 1135 habitats), leading to deterioration of Surface Water Body A and C. Similar other examples can be
 1136 drawn, e.g. impacts of a modification in a surface water body on the adjacent groundwater body, e.g.
 1137 due to reduced flow in the surface water body and related drop of the groundwater table (Figure 3).

1138 **Figure 2: Example for effects beyond one surface water body**



1140 **Figure 3: Example for effects beyond one water body in relation to groundwater**



1142 In the above examples⁶⁰ and as the result of an Applicability Assessment, an Article 4(7) Test needs to
 1143 be applied for all water bodies in which deterioration occurs. Similarly, in case modifications are
 1144 undertaken across several water bodies, an Article 4(7) Test needs to be applied for all water bodies
 1145 concerned. This might increase the need for justification during the Article 4(7) Test. If the conditions
 1146 are fulfilled for all water bodies concerned, the project can be authorised (see also Step 4 in Figure 6).
 1147 Note that the number of water bodies actually requiring an Article 4(7) Test might be lower compared

⁶⁰ Note that the examples are simplified for illustration purposes. Deterioration / non-achievement of good status/potential needs to be understood as outlined in the previous chapters.

1148 to the number of water bodies addressed in the Applicability Assessment. This since as a result of the
1149 Applicability Assessment deterioration might not be expected for all water bodies which were
1150 assessed.

1151 Under certain circumstances it might also be the case that the water body, where the proposed
1152 modification is located, may not deteriorate, but another water body might be affected (to be assessed
1153 in the Applicability Assessment). In such a case an Article 4(7) Test needs to be applied for the water
1154 body which could deteriorate. In this context it is recapitulated that the Article 4(7) exemption needs to
1155 be applied within the limits of its scope, as outlined in chapter 3.3.

1156 Finally, in case other Community environmental legislation is affected (e.g. a Natura 2000 site), it has
1157 to be pointed out that an Article 4(7) exemption does not replace the respective procedures and
1158 assessments which have to be undertaken according to other regulatory requirements under other
1159 Community environmental legislation, although the potential for synergies (i.e. during the Applicability
1160 Assessment procedure) can be utilised (see chapter 4).

1161 **3.6 Cumulative effects**

1162 Whilst a new project might not, on its own, have effects that trigger the application of an Article 4(7)
1163 Test, it is possible that two or more such actions could, cumulatively, cause deterioration or affect the
1164 ability of the water body to reach the objective of good status/potential. Practical examples can include
1165 cumulative effects of several modifications to the morphological features (e.g. flood risk measures) on
1166 habitats, multiple transversal structures like dams or weirs on fish migration and sediment transport,
1167 several projects of different nature in the same water body, widespread maintenance works, or
1168 multiple water abstraction points having commonly a significant effect on groundwater quantitative
1169 status. Therefore, in practical terms there is a need to consider effects of cumulative modifications
1170 when using Article 4(7)⁶¹. The spatial extent of impacts is a relevant consideration in deciding if this is
1171 the case⁶².

1172 The assessment of cumulative effects can be challenging in practical terms due to different reasons,
1173 e.g. due to administrative reasons (permitting authorities are not necessarily the water authorities),
1174 lack of availability of information on planned projects to the permitting authorities, or timing issues (e.g.
1175 simultaneous submission of projects within the same catchment).

1176 A possible entry point for the assessment of cumulative effects of multiple proposed projects can be
1177 the screening stage during the Article 4(7) Applicability Assessment (see chapter 4.1). Data from the
1178 RBMPs, i.e. information on already existing pressures, planned measures and monitoring data on the
1179 current status of water bodies, can shape the starting point for the assessment. In order to be able to
1180 consider cumulative effects of multiple proposed projects, information on such proposed developments
1181 needs to be available to the permitting authority. Relevant sources can include existing applications for
1182 permits, information on planned projects from the flood risk management plans or sectorial
1183 development plans (e.g. for hydropower development or agricultural irrigation).

⁶¹ See also WFD & Flood Risk Management, Workshop Manchester (UK) 2008: <https://circabc.europa.eu/sd/a/5fedffc5-e4d1-427c-b9d8-b3047f1cb8d2/Key%20Conclusions%20Workshop%20WFD%20%26%20Flood%20Risk%20Management%20-%20Manchester%20-%20February%202008.pdf>

⁶² Key Conclusions Workshop WFD and Hydropower, Brussels 2011: https://circabc.europa.eu/sd/a/23d94d2d-6b9c-4f17-9e15-14045cd541f3/Issue%20Paper_final.pdf

1184 As a result the permitting authorities can be enabled to come to better informed decisions with regard
 1185 to the need for Article 4(7) Tests for individual projects which, cumulatively, may cause deterioration or
 1186 affect the ability of the water body to reach the objective of good status/potential. Note that making full
 1187 use of the RBMPs as a planning tool - by introducing also potential Article 4(7) cases – can provide
 1188 the opportunity for authorities to take into account not only information on already existing pressures
 1189 but also of the effects of potential future developments (see chapter 5.5.1). Also the use of information
 1190 from SEAs can be of relevance in that context.

Case study 2: Cumulative impact of reservoirs on the aquatic environment. Joint scientific appraisal

Country: France

The creation of new water storage structures raise a whole host of environmental issues, such as the impact of reservoirs on the aquatic environment, particularly in areas where there are already a number of reservoirs and water resources are in high demand. By law, building a new reservoir requires a planning application or government authorization, which require an environmental impact study. Such studies must now assess the cumulative effects of the project together with other known similar projects. The “cumulative” aspect of the impact of water storage structures on a single catchment area is often poorly understood, probably due to a lack of relevant knowledge and methods. Consultants and government services therefore face a lack of operational tools for processing new reservoir applications, which gives rise to other problems around water management planning and the supervision of the development of new reservoirs. In this context, the French Ministry of the Environment, Energy and Marine Affairs (MEEM), supported by ONEMA, requested a joint scientific assessment (ESCo) from Irstea, in partnership with INRA, on the cumulative impact of reservoirs on the aquatic environment. It was produced by around fifteen experts from a range of disciplines and research organizations, and is based on analysis of a thousand or so international scientific articles and reports.

The scientific assessment has revealed a lack of knowledge about the cumulative environmental effect of reservoirs. Very few studies address the cumulative effect of reservoirs on all the different functional characteristics investigated in the assessment, even though there are strong interactions between them. The presence of reservoirs in a catchment area modifies all the functional characteristics. This modification can become problematic when it affects an already vulnerable river. Assessing the significance of effects on a given catchment therefore requires identification of the issues for a catchment, and characterization of its condition with respect to these issues. A two-pronged approach can be used to characterize the entirety of a catchment area by identifying the most vulnerable sub-basins and associated issues before starting to assess the cumulative effects of new projects on these sub-basins.

By analysing the cumulative effects of reservoirs, the processes involved and the influencing factors, the assessment identified the main interactions between the functional characteristics and the need to take them into account when assessing cumulative effects. The variety of contexts encountered in the scientific literature and the lack of data and knowledge noted here restricts the number of relevant indicators and validated methods for immediate characterization of the influence of a set of reservoirs on a catchment area, or indeed forecasting the effect of building one or more new reservoirs: The acquisition of knowledge and orders of magnitude in the hexagonal context remains necessary. The analysis performed can be used to develop a methodological framework to address the issue of cumulative effects of reservoirs on a given catchment area. This forms the focus of the operational phase which is following this scientific appraisal.

Links: t.b.d.

1191

1192 3.7 Managing uncertainty

1193 Uncertainty is an inevitable feature of planning in general and also has to be managed in the context
 1194 of Article 4(7). Uncertainty can be an issue in particular with regard to the question whether a
 1195 proposed project is expected to cause deterioration or affect the ability of a water body to reach good
 1196 status/potential since this assessment has to be undertaken ex-ante (before the implementation of the
 1197 modification). It is also of relevance regarding the effects of mitigation measures, which should be an
 1198 inherent element of (the design of) a new project, and the question how far deterioration / non-
 1199 achievement of good status/potential can be avoided in the first instance due to the application of such
 1200 mitigation measures.

1201 Some specific actions can be taken in order to reduce uncertainty, including for instance:

- 1202 • Establishment of a solid baseline regarding the current status/potential (which is essential for
1203 the estimation of effects) by using sensitive methods and monitoring designs but also by
1204 having a sensitive classification system (see respective CIS Guidance Documents on
1205 monitoring and status assessment for surface and groundwater bodies⁶³). In case a quality
1206 element is just slightly above a threshold value distinguishing two status classes, deterioration
1207 due to a proposed project can be more likely and/or more difficult to ascertain;
- 1208 • Additional monitoring for the improvement of the baseline regarding the current
1209 status/potential of a water body. This can particularly be an issue for water bodies where
1210 status was assessed based on grouping or where reliable information on certain quality
1211 elements is missing;
- 1212 • Conduction of specific studies or modelling of the expected effects of the proposed project
1213 (e.g. specific studies assessing expected effects on the aquatic biology, application of a
1214 groundwater model for the assessment of the expected effects on groundwater quantitative
1215 status, etc.);
- 1216 • Drawing from experiences on the pressure-impact relationship at existing modifications
1217 (monitoring data at already existing similar modifications);

1218 A proportionate risk-based approach by distinguishing between clear-cut cases (e.g. large
1219 impoundments) from proposed projects where deterioration might be less certain can help to strike a
1220 balance between reducing uncertainty and the required resource input for assessments (e.g. question
1221 how far and which additional studies or modelling is needed – see also chapter 4.1 in that context).

1222 An adaptive approach may also be considered, if applicable in the respective context of the planned
1223 activity, e.g. by issuing time constrained permissions assessed as not likely to cause deterioration.
1224 Any such constrained permission should be supported by an Article 4(7) Applicability Assessment and
1225 measures to control, monitor and assesses effects on water body status/potential from the time
1226 constrained new modification or alteration. Furthermore, follow-up monitoring results (e.g. in the frame
1227 of the project and regular WFD monitoring) can be used to verify effects on water body status/potential
1228 following project execution.

1229 Finally, the application of the precautionary principle (including worst-case considerations) can help to
1230 avoid situations where ex-post evaluations provide evidence that deterioration actually occurred
1231 without applying an Article 4(7) Test. Such situations should be avoided by applying Article 4(7) Tests
1232 also in cases where no reasonable assessment of risk could be made, despite efforts to reduce
1233 uncertainty, and therefore the level of uncertainty about the effects of the planned activity remains
1234 significant. This can also be relevant for such cases in terms of transparency and documenting
1235 evidence which supports decisions by competent authorities whether an Article 4(7) Test needs to be
1236 undertaken.

⁶³ http://ec.europa.eu/environment/water/water-framework/facts_figures/guidance_docs_en.htm

1237 **4 ARTICLE 4(7) APPLICABILITY ASSESSMENT AND STREAMLINING WITH** 1238 **OTHER DIRECTIVES**

1239 As outlined above, during the authorisation procedure for a new modification, alteration or new
1240 sustainable human development activity, it needs to be determined prior to authorisation whether the
1241 proposed project is expected to lead to deterioration or affect the ability of a water body to reach good
1242 status/potential. This process is called in this context "Article 4(7) Applicability Assessment" and is an
1243 important step to determine whether an Article 4(7) Test is required (or not) during the permitting
1244 phase of a project.

1245 The WFD does not prescribe specific steps how such an assessment has to be conducted. However,
1246 in the absence of such an assessment the question remains how competent authorities can come to a
1247 decision whether an Article 4(7) Test has to be performed and therefore – as a result - whether
1248 permission for the project can be granted or not. Moreover, the absence of an Applicability
1249 Assessment bears the risk of violating WFD requirements since a project might be authorised which
1250 leads to deterioration / non-achievement of good status / potential, while the Article 4(7) requirements
1251 are not met.

1252 It follows that an "Applicability Assessment" should be an inherent element during the permitting phase
1253 of a new project. The results need to be well documented in both cases, when the conclusion is that
1254 an Article 4(7) Test is required during the permitting phase, but also in case deterioration / non-
1255 achievement of good status / potential is not expected and therefore no Article 4(7) Test has to be
1256 conducted. This in particular to ensure transparency of the decision making process, to demonstrate
1257 compliance and to avoid potential problems with stakeholders or other competent authorities (e.g.
1258 during an audit or check of compliance with WFD requirements).

1259 The investigations undertaken during the "Applicability Assessment" provide the opportunity to utilise
1260 synergies with assessments which might be required under other EU environmental legislation, in
1261 particular the Environmental Impact Assessment (EIA) Directive and the Habitats Directive (HD). Note
1262 that also the provisions of the Aarhus Convention and related EU Directives can be relevant in that
1263 context⁶⁴.

1264 **4.1 Approach for an Article 4(7) Applicability Assessment**

1265 The objective of an Applicability Assessment in relation to Article 4(7) is to determine whether the
1266 proposed project is expected to cause deterioration / non-achievement of good status / potential (see
1267 chapter 3.4) and therefore require an Article 4(7) Test (see chapter 5) during the permitting phase. The
1268 Applicability Assessment provides answers to the following questions:

- 1269 • Is the project likely to have effects on water body status / potential?
- 1270 • Is the project expected to cause a deterioration / non-achievement of good status / potential?
- 1271 • Is an Article 4(7) Test required during the authorisation phase?

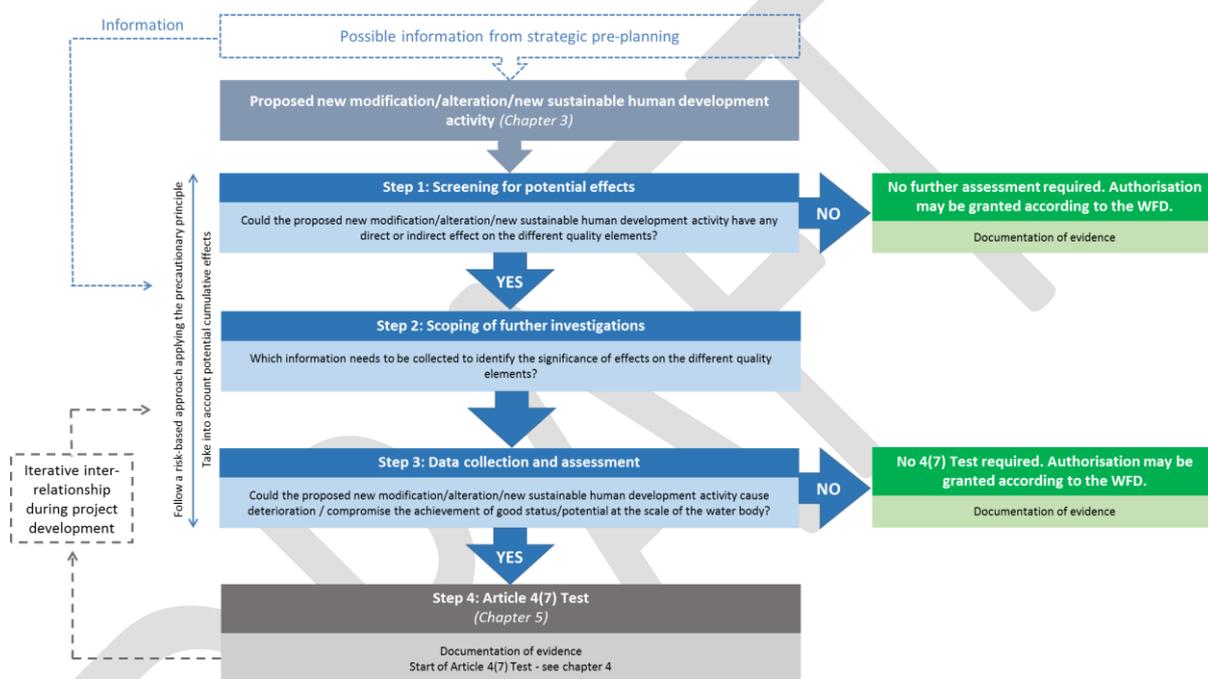
1272 Pre-condition for performing the assessment effectively is the availability of an appropriately sound
1273 dataset, in particular with regard to monitoring data on water body status, as well as information on the
1274 proposed project in order to predict the effects on status/potential. Project-related data also needs to

⁶⁴ Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention); See: <http://www.unece.org/fileadmin/DAM/env/pp/documents/cep43e.pdf>

1275 include information on project-specific mitigation measures, which are an inherent part of the project
 1276 and which need to be taken into account during the assessment since they are aimed towards
 1277 reducing the negative effects.

1278 Figure 4 below outlines a step-wise approach for an Applicability Assessment in relation to Article 4(7)
 1279 which is then described in more detail. If the proposed project is modified (e.g. if it is concluded during
 1280 an Article 4(7) Test that not all practicable steps are taken to mitigate the adverse effects - see
 1281 feedback loop on the iterative inter-relationship during project development in Figure 1), relevant steps
 1282 of the Applicability Assessment might need to be repeated in order to obtain a sound investigation of
 1283 the expected effects of the proposed project. Possible information from strategic pre-planning (e.g. for
 1284 specific sectorial development plans and their impacts) and related SEA's may inform the assessment.

1285 **Figure 4: Outline for a step-wise approach for an Article 4(7) Applicability Assessment**



1286

1287 Note that for groundwater different criteria are applied to determine the status of the groundwater body (see chapter 3.4.2)

1288 **Step 1: Screening for potential effects**

1289 This is a screening step to determine whether there is a mechanism for any relevant direct and/or
 1290 indirect effects on the different quality elements determining status/potential of the concerned water
 1291 body(ies) (see chapter 3.3). The purpose of this step is to broadly filter and "screen out" projects that
 1292 will clearly not affect water body status/potential and to identify quality elements which require in a
 1293 second step (scoping) further attention for more detailed investigations. It focuses on identifying
 1294 potentially affected elements and sub-elements to help ensuring that subsequent assessments are
 1295 proportionate. Relevant data needs for the screening step can inter alia include the following:

- 1296 • Information on project design (including alternatives) in sufficient detail and mitigation
 1297 measures which are applied;
- 1298 • Identification of potentially affected water bodies, including up- and downstream, as well as
 1299 adjacent water bodies (e.g. an adjacent groundwater body next to a surface water body, or
 1300 vice versa);
- 1301 • Size of each water body;

- 1302
- 1303
- 1304
- 1305
- 1306
- 1307
- 1308
- Existing pressures, current status/potential of relevant surface and groundwater water bodies and related quality elements, including failing elements and information on distance of particular EQRs to threshold values distinguishing two status classes, terrestrial ecosystems directly depending on groundwater, etc.;
 - WFD objective for the water body / planned mitigation measures;
 - Other projects which may cause cumulative effects;
 - Other legislation which might be concerned (e.g. EIA, Habitats Directive or MSFD).

1309 For small projects not falling within the scope of the EIA Directive (2011/92/EU) a more generic
1310 approach can be considered in order to reduce the assessment burden⁶⁵. The result of Step 1 is a
1311 conclusion whether the proposed project may affect the status/potential of concerned water bodies
1312 (i.e. Is there a potential cause-and-effect mechanism?). Pre-determined standards (e.g. for
1313 hydromorphological modifications and their effects on the biological quality elements) or checklist
1314 tools, elaborated on a sound scientific basis, can help in assessing whether the project may have
1315 relevant effects.

- 1316
- 1317
- 1318
- ➔ If no, then evidence supporting this conclusion should be documented in the frame of the authorisation procedure and no further assessments are required;
 - ➔ If yes or uncertain, then continue to Step 2.

1319 **Step 2: Scoping of further investigations**

1320 Step 2 is a scoping step to identify further data needs and to define the necessary assessments which
1321 are required for determining the significance of the effects on quality elements. It is a preparatory step
1322 for Step 3 – data collection and assessment – which has the objective to answer the question whether
1323 the proposed project is expected to cause deterioration or compromising improvement to good status /
1324 potential.

1325 Step 2 focuses on the necessary investigations for potentially affected quality elements and sub-
1326 elements (e.g. the different biological and hydromorphological quality elements, chemical and physico-
1327 chemical quality elements, criteria determining groundwater quantitative status, etc.). Step 2 also
1328 allows for the identification of existing data gaps (e.g. absent monitoring data for a certain quality
1329 element) requiring additional (ad-hoc) data collection and analysis for the completion of the data set.

1330 For quality elements where potential causal mechanisms were identified, Step 2 allows for a first
1331 differentiation between effects that are expected to be temporary or local in a water body context vs.
1332 longer term or water body scale effects. For quality elements where no possible causal link was
1333 identified under Step 1, no further assessments are required. A precautionary approach should,
1334 however, be taken, which means that in cases where a causal link cannot be excluded with high
1335 certainty, further assessments should be performed.

1336 At that point the potential for alignment of data collection and assessments which might be required
1337 under other environmental legislation (e.g. performance of an EIA or necessary assessments under
1338 the Habitats Directive) should be identified, providing the opportunity to gain from synergies (see
1339 chapter 4.2).

⁶⁵ See CIS Guidance Document No. 20

1340 **Step 3: Data collection and assessment**

1341 Under Step 3 the necessary data collection and assessments are performed, as defined under Step 2.
 1342 The purpose of this step is to determine the expected effect the project (including its mitigation
 1343 measures) on the status or potential of the concerned water bodies at quality element level (i.e. cause
 1344 deterioration or compromise expected improvement). A judgment can for instance require
 1345 investigations performed by experts and/or modelling. The potential for synergies for joint/coordinated
 1346 data collection and assessments with other environmental legislation (e.g. EIA or Habitats Directive) is
 1347 utilised under Step 3.

1348 Investigations of the significance of the effects should not only consider the current status/potential but
 1349 also planned improvements due to the implementation of measures from river basin management
 1350 planning (e.g. restoration measures) to achieve good status/potential. Therefore, cumulative effects of
 1351 other interventions may need to be taken into account (see chapter 3.6). The assessment should also
 1352 conclude on the time-span of effects (see chapter 3.3.1).

1353 If the result of Step 3 is that

- 1354 → The proposed project is not expected cause deterioration of the water body at quality element
 1355 level or compromise improvement, or if the effects are expected to be only temporary short-
 1356 term, the evidence supporting this conclusion needs to be documented in the frame of the
 1357 permitting procedure, no Article 4(7) Test is required and authorisation may be granted
 1358 according to the WFD;
- 1359 → If the project is expected to cause deterioration of the water body at quality element level or
 1360 compromise improvement, proceed to Step 4.

1361 **Step 4: Article 4(7) Test**

1362 If the project is expected to cause deterioration / compromising the achievement of good
 1363 status/potential, then evidence should be documented and the Article 4(7) Test needs to be launched.
 1364 The project can only be authorised if the conditions as outlined under Article 4(7) a) to d) are fulfilled,
 1365 and hence the Article 4(7) Test is passed. It follows that if the conditions are not fulfilled and the Article
 1366 4(7) Test fails, the project cannot be authorised according to the WFD. The conditions and
 1367 requirements for the Article 4(7) Test are outlined in chapter 5.

Case study 3: A WFD compliance assessment checklist tool developed for JASPERS

Country: /

Joint Assistance to Support Projects in European Regions (JASPERS) aims at improving the quality of investment supported by EU Funds (European Regional Development Fund, ERDF and Cohesion Fund and IPA Funds). In order to comply with WFD Article 4(7) a four-step approach has been developed:

1. Understand the context: Is there a potential causal mechanism for an effect on ecological or chemical status? If no, keep record for audit but no further assessment required. If yes perform step 2.
2. Determine scope: Consider whether effects are temporary or are not significant at the scale of the water body. WFD assessment required only for elements that could be affected
3. Investigations: data collection; evaluation; consider mitigation measures. Is there a residual effect on WFD status? If yes perform step 4
4. Apply the Article 4(7) tests (as set out in the CIS Guidance Nr. 20)

The approach was used for projects in Poland (for flood protection) and in Latvia (for port development including dredging), and will be further elaborated for wider application in the near future.

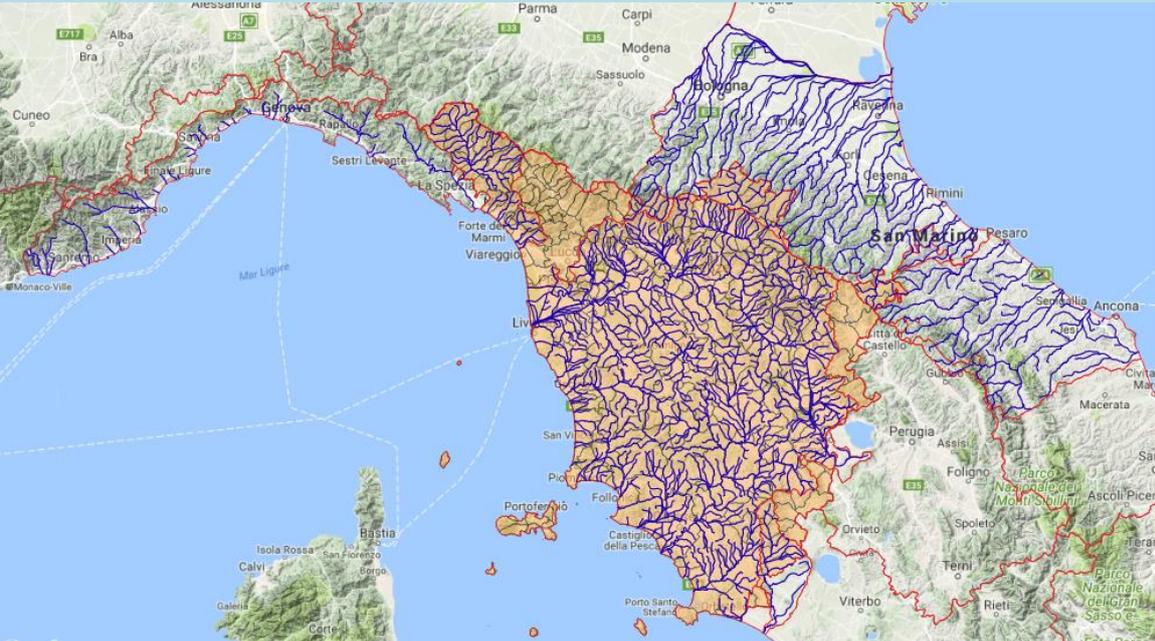
Links:

<http://www.jaspersnetwork.org/download/attachments/19464342/WFD%20compliance%20-%20a%20checklist%20tool.pdf?version=1&modificationDate=1434121070000&api=v2>

1368

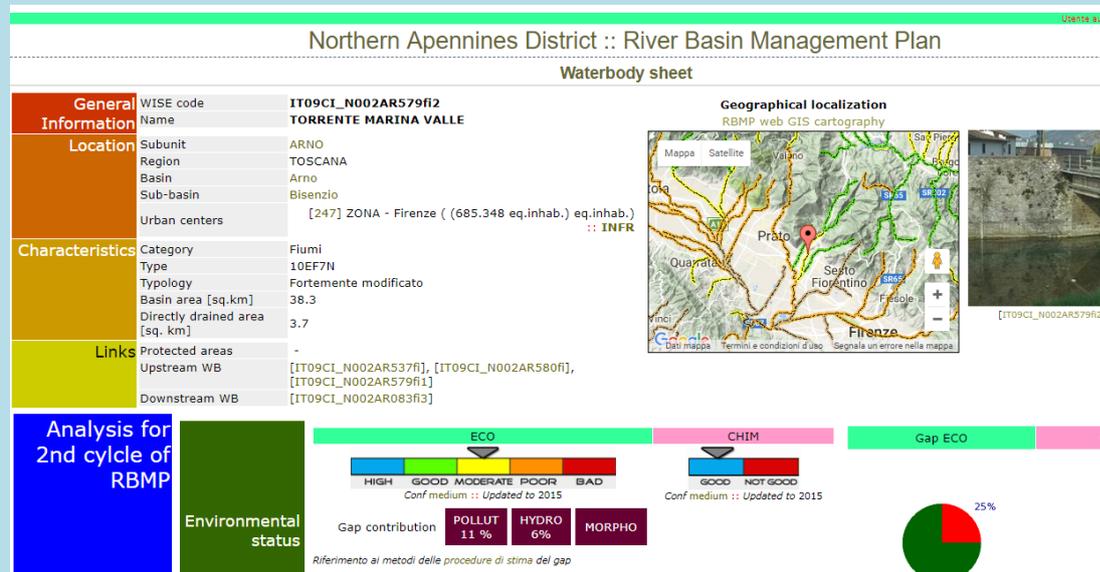
<p>Case study 4: High Speed 2 Rail Construction scheme – Phase 1 (London to West Midlands)</p>
<p>Country: United Kingdom (UK)</p>
<p>HS2 is a multimillion pound national government scheme to provide a high-speed rail link from London and the south to the north of England. Phase1 covers four River Basin Districts (Thames, Anglian, Severn and Humber) and might have an impact on 61 surface waterbodies and 15 groundwater waterbodies.</p> <p>Of the 61 surface waterbodies originally assessed, no scheme elements were assessed as certain to result in objective non-compliance for the waterbodies. However, 5 have ultimately been assessed as being at risk from deterioration or prevention of achieving GES/GEP due to the construction of HS2 Phase1. Of the 15 groundwater bodies originally assessed, 4 groundwater waterbodies have been ultimately assessed as being at risk from deterioration or being prevented from achieving GES due to the construction of HS2 Phase1. The remaining surface and groundwater waterbodies were discounted as being assessed as not being at risk, or due to the inclusion of mitigation measures and other measures brought about by ‘Additional Provisions’.</p> <p>A WFD Compliance Assessment Review document was published in March 2016 providing more details on the reasons why deterioration may occur for each of the waterbodies, along with generic mitigation measures, and providing information on how the four tests for Article 4.7 can be met. The assessment follows a precautionary risk based approach and was advocated by the Environment Agency to ensure that all potential adverse effects were to be reported and detailed, even where the likelihood an effect occurring was very low, or the extent of that effect was limited; the primary driver being to ensure that WFD effects continued to be considered and addressed through the design development and into the consenting phase.</p>
<p>Links:</p> <p>https://circabc.europa.eu/sd/a/e9885e5b-9638-4ff6-baee-2815c6300ce8/22 - MS United Kingdom - 4.7 Case Study.pdf</p> <p>https://www.gov.uk/government/publications/water-framework-directive-compliance-assessment-review</p>

1369

<p>Case study 5: Flood Risk Management Plan (FRMP) measures’ impact evaluation for the assessment of Art. 4(7)</p>
<p>Country: Italy</p>
<p>The case study area is located in the Northern Apennines District (ITC), specifically in the area of the Region of Tuscany (about 20.000 sq.km, 60% of District’s surface). The aim is to estimate the impacts of a structural measure of the FRMP on water status/potential.</p>
 <p>The map displays the Northern Apennines District in Italy, highlighting the extensive river network in the Tuscany region. Major cities like Florence, Pisa, and Livorno are visible, along with the coastline of the Tyrrhenian Sea. The map uses color coding to represent different river basins and their proximity to the coast.</p>
<p>The procedure has been applied to all surface waterbodies in the area ranging from small rivers with about 10 sq.km to main river channels like the Arno river (downstream reach), about 8.000 sq.km basin area.</p>

The structural measures of the FRMP might cause a physical alteration of water body as it might embrace longitudinal or transversal rivers’ modification, including levees’ restoration, dams’ elevation, diversion spillways, expansion areas with related inlet / outlet culverts, river bank restoration.

In order to pre-asses the possibility of Art. 4(7) application, the 2nd cycle RBMP of Northern Apennines Basin District includes a detailed analysis of FRMP’s structural measures. Each intervention based on a physical alteration of river or lakes was georeferenced and related to one or more water bodies. The list of flood defences’ interventions is reported in a specific section of WB’s reporting sheet in the Executive Information System of RBMP (see below).



Extract from EIS – Executive Information System for the ITC RBMP. Top portion of WB’s sheet.

Since the linked interventions are mainly planned measures to be defined in terms of hydraulic solutions and structural details, the aim of the proposed list, related to each water body, is to focus the attention on the future potential application of Art. 4(7) for the interested water bodies. The real impact in terms of physical alteration will be tested in the evolution of planned activities, applying common criteria for the evaluation morphological alteration and Art. 4(7) eligibility.

The described procedure has brought general benefits for an effective and coordinated analysis of RBMP and FRMP relationship. Reporting in an official information sheet all structural interventions potentially altering the physical characteristics of WBs allows public and private stakeholders to be aware of potential application of Art. 4(7). The discussion on the real impact of flood defence measures can be applied already in a preliminary project’s phase, in order implement a more inclusive process regarding technical solutions’ choices, and a specific awareness on the exemption to WFD’s objectives.

As critical aspect, financial coverage issues can alter or invalidate technical analysis, bringing to incomplete or only partially useful project choices.

Links. <http://www.appenninosettentrionale.it/eis/>

1370

1371 4.2 Streamlining of assessments with the EIA and Habitats Directive

1372 A proposed project might not only require assessments in the context of WFD Article 4(7) but also,
 1373 depending on the size, nature and location of the project, an Environmental Impact Assessment (EIA)
 1374 under the EIA Directive or appropriate assessments under the Habitats Directive in relation to Natura
 1375 2000 sites affected (see chapter 2.8). Compliance with other relevant legislation must be ensured (see
 1376 also WFD Article 4(1)(c)). As such grouping of assessments and streamlining can be efficient (e.g. in

1377 terms of data collection and public participation)⁶⁶, providing the opportunity to utilise synergies and
1378 reduce the work load in the assessments required for a proposed project under different legislation.

1379 While such a streamlining is mandatory – ‘where appropriate’ – as regards the EIA and the ‘appropriate
1380 assessment’ under the Habitats Directive, it is up to the individual Member States to decide whether to
1381 apply it to the EIA Directive and the Water Framework Directive⁶⁷.

1382 Referring to the approach and different steps for an "Applicability Assessment" in relation to WFD
1383 Article 4(7) as described in the previous chapter, equivalent steps are required under the EIA and the
1384 Habitats Directives that could be taken alongside with the steps under the WFD. This refers
1385 particularly to "Screening", "Scoping" and the necessary data collection. Such a streamlined approach
1386 can lead to significant cost and time savings, notably in relation to the data collection stage which can
1387 be jointly performed once the data requirements under each Directive are clarified during the previous
1388 steps.

1389 However, it should be borne in mind that the focus of the various tests is quite distinct in each
1390 Directive, so the various steps of the process should be carried out in accordance with the
1391 requirements for each Directive⁶⁸. If the conditions of one Directive are fulfilled but not of the other,
1392 then the authorities may not authorise the project because in such a case the project would still
1393 infringe EU legal provisions. Instead, it should be examined whether amendments can be made to the
1394 project so that it satisfies the requirements of all relevant directives.

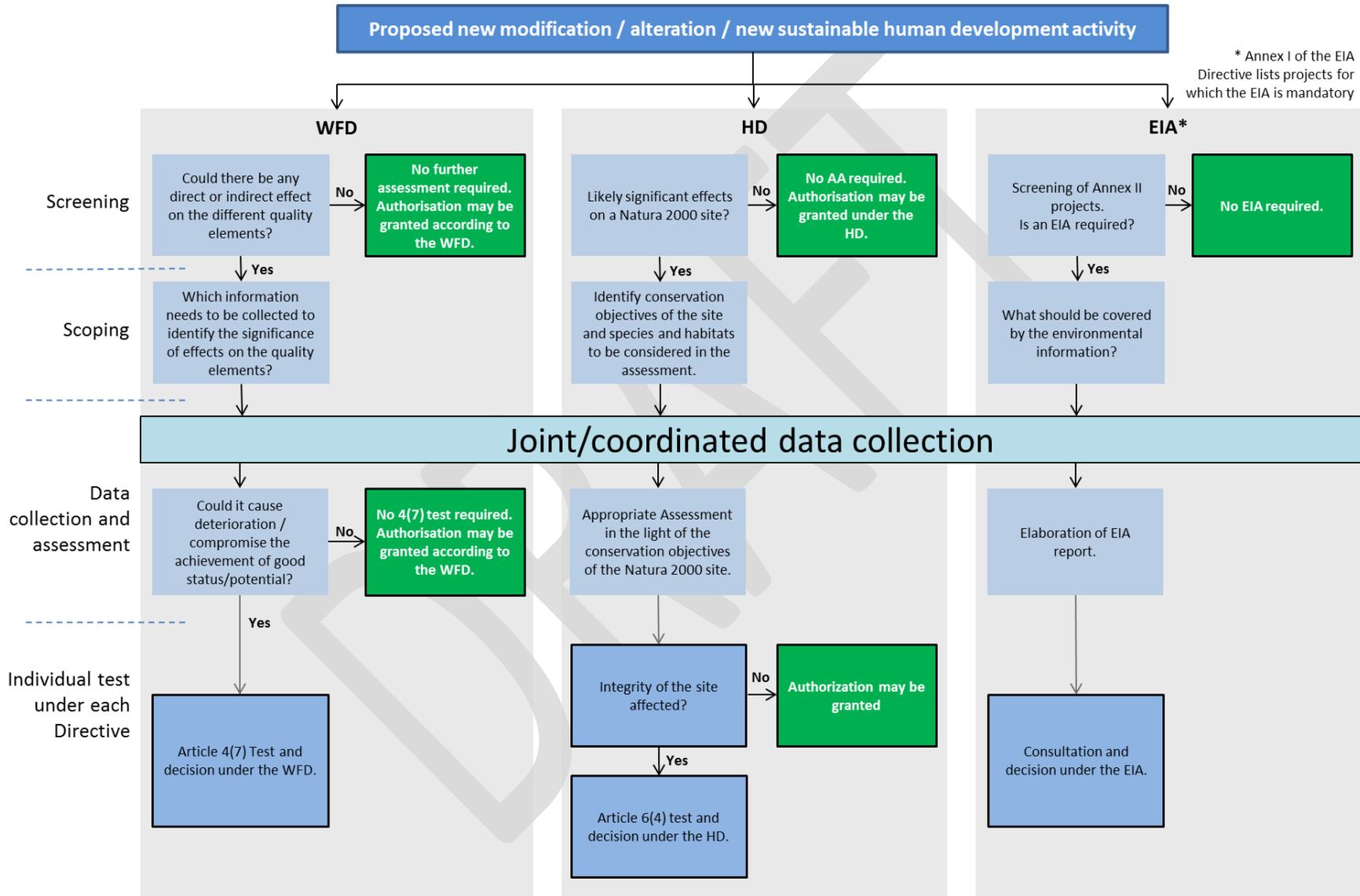
1395 Figure 5 outlines the steps for an "Applicability Assessment" in relation to WFD Article 4(7), and the
1396 equivalent steps under the EIA and Habitats Directives. Following, the main requirements under the
1397 EIA and Habitats Directives, and the relationship and linkages with Article 4(7) are described in more
1398 detail. Further information can also be drawn from chapters 2.8.2 (EIA), 2.8.3 (Habitats Directive) and
1399 Annex A (comparative overview table).

⁶⁶ See for instance Guidance on Streamlining environmental assessment procedures for energy infrastructure Projects of Common Interest (PCIs), http://ec.europa.eu/environment/eia/pdf/PCI_guidance.pdf; Commission guidance document on streamlining environmental assessments conducted under Article 2(3) of the EIA Directive <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:C:2016:273:FULL&from=DE>

⁶⁷ See Commission guidance document on streamlining environmental assessments conducted under Article 2(3) of the EIA Directive <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:C:2016:273:FULL&from=DE>

⁶⁸ Where possible, synergies could still be used, for instance regarding the search for alternatives or mitigation measures.

1400 **Figure 5: Streamlining of assessments under the WFD, HD and EIA Directive**



1401

1402 **Projects which are subject to an EIA**

1403 The EIA Directive aims to ensure that projects which are likely to have a significant effect on the
1404 environment are adequately assessed before they are approved. Before any decision is taken to allow
1405 such a project to proceed, the possible impacts it may have on the environment (both from its
1406 construction, operation or demolition) need to be identified and assessed.

1407 An assessment is obligatory for projects listed in Annex I of the Directive, which are considered as
1408 having significant effects on the environment (for example: dams and other installations designed for
1409 holding back or permanent storage of water, where a new or additional amount of water held back
1410 exceeds 10 million cubic metres (p.15, Annex I).

1411 Other projects, listed in Annex II of the Directive (for example inland waterways, projects not included
1412 in Annex I, canalization and flood-relief works; urban development projects, etc.), are not automatically
1413 subject to an EIA procedure. The Member States have a margin of discretion to decide on a case-by-
1414 case basis or according to thresholds or criteria (for example size), location (sensitive ecological areas
1415 in particular) and potential impact (surface affected, duration) whether these projects are likely to have
1416 significant environmental effects and if they have to be liable to the EIA procedure. The process of
1417 determining whether Annex II projects may have significant effects on the environment and therefore
1418 be subject to an assessment is called "*screening*" under the EIA Directive. Scoping is not mandatory,
1419 but accepted as good practice.

1420 EU law can sometimes require several assessments for a single project. Each assessment is
1421 designed to maximise environmental protection of a specific kind. However, the multiple statutory
1422 requirements and parallel assessments can lead to discrepancies, delays, duplication and
1423 administrative uncertainties. The EIA Directive provides for enhanced assessment procedures, leading
1424 to more effective and efficient outcomes (Article 2(3), EIA Directive, as revised).

1425 The following potentials for synergies and streamlining of assessments required under the EIA and
1426 Article 4(7) have been identified:

- 1427 • Assess whether the project may lead to deterioration of the status/potential of a water body or
1428 relevant quality element (WFD Article 4(7)). This assessment might be part of the assessment
1429 of the factor water (EIA Article 3);
- 1430 • Defining mitigation measures to reduce the adverse effects;
- 1431 • Assess the project specific component of the assessment of better environmental options
1432 according to WFD Article 4(7)(d) and Article 5(1)(d) EIA;
- 1433 • Synergies in terms of consultation prior to a project's approval by using the EIA process for
1434 public consultation in case a project should be approved within an RBM cycle.⁶⁹

1435 In this context it is important to note that the level of detail in the environmental report required under
1436 the EIA may be less than what would be required for assessments in relation to WFD Article 4(7). An
1437 EIA does not require (but also does not prevent) an assessment on quality element level but rather the

⁶⁹ See page 11 and 12 of the PCI Guidance: http://ec.europa.eu/environment/eia/pdf/PCI_guidance.pdf

1438 likely significant impact of the project on water (Article 3 EIA)⁷⁰. This can be explained by the fact that
 1439 an EIA assesses the impacts of a project on the environment, while an Article 4(7) assessment
 1440 addresses the impacts on a water body. In other words, carrying out an EIA does not guarantee
 1441 fulfilment of Article 4(7), but it could contribute if the assessments are streamlined.

1442 In cases where a project is subject to an EIA, under good practice this could be done in close
 1443 coordination with the Article 4(7) Applicability Assessment during the data collection and assessment
 1444 stage⁷¹. In doing so Member States may nationally establish an EIA procedure/approach investigating
 1445 all requirements of Article 4(7) where all projects potentially deteriorating water or precluding
 1446 achievement of water environmental objectives will be assessed, even if they fall outside Annex I & II.
 1447 Their integration offers the opportunity to adopt a new approach to optimize the mutual synergies and
 1448 minimize conflicts between them.

Case study 6: Development of an Article 4(7) assessment framework and linkage to EIA

Country: Croatia (HR)

The Article 4(7) assessment in the Republic of Croatia is linked to the environmental impact assessment in order to decrease administrative burden and simplify procedures for new development. It is clear that EIA and Article 4(7) assessment have coinciding elements such as data collection and public participation processes.

In an integrated procedure, the competent authorities are given a possibility to reach a single decision based on the agreed pool of data and taking account of all environmental protection aspects (not only the achievement of objectives in terms of the WFD). The availability of complete information is extremely important particularly in the event of larger projects which have significant impacts and for which the justification required for the application of WFD Article 4(7) needs to be provided. As such, the author of an environmental impact study is required as part of the study to analyse the project's impacts on water bodies (in terms of the achievement of WFD objectives), thus identifying the scope and significance of such impacts. When required, they shall collect data and justify the application of the provisions of WFD Article 4(7).

It has to be noted that, if EIA is not required, a comparable procedure for Article 4(7) assessment is envisaged in the Water Act as a part of water-permitting procedure. It should be mentioned that the same procedure is followed for the Plans and Programmes that are subject to the SEA.

The overall procedure related to the identification of project impacts on the water status in terms of WFD objectives is based on the data and information contained in the current River Basin Management Plan, which – according to the provisions of the Water Act – contains a Flood Risk Management Plan adopted by the Croatian Government. In that way, the status of water bodies identified and the programme of measures foreseen by the current RBMP were made the starting point for the identification of potential impacts of future activities and projects in the basin. This has also enabled continuous communication and exchange of information between the RBMP and the (planned) developments in the basin, and the authors of the RBMP are given a better insight and sound background data for the RBMP updates.

Insights into the whole process leads to the following key conclusions:

- Data about water bodies collected for the purposes of RBMP is valuable resource for both EIA and Article 4(7) assessments and there is a significant need for such data.
- It seems convenient to have the Article 4(7) assessment “back to back” with EIA and sharing some elements of procedure.

Links: RBMP (including FRMP) and supporting documents are published at <http://www.voda.hr/hr/plan-upravljanja-vodnim-podrucjima>

1449

⁷⁰ Art 3 EIA states: The environmental impact assessment shall identify, describe and assess in an appropriate manner, in the light of each individual case, the direct and indirect significant effects of a project (...).

⁷¹ For more detailed information of such approaches see e.g. Guidance on Streamlining environmental assessment procedures for energy infrastructure Projects of Common Interest (PCIs), http://ec.europa.eu/environment/eia/pdf/PCI_guidance.pdf Commission guidance document on streamlining environmental assessments conducted under Article 2(3) of the EIA Directive <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:C:2016:273:FULL&from=DE>

1450 Projects with relevance for Natura 2000 sites

1451 The Birds and Habitats Directives aim to contribute towards ensuring biodiversity through the
1452 conservation of natural habitats and wild fauna and flora. The establishment and sound management
1453 of sites under the Natura 2000 network is a key tool for that. Article 6 of the Habitats Directive lays
1454 down the requirements for the management and protection of the Natura 2000 sites, which are the
1455 "Sites of Community Importance" (SCIs) (subsequently designed by the Member States as Special
1456 Areas of Conservation (SACs)) under the Habitats Directive and the Special Protection Areas – SPAs
1457 – classified under the Birds Directive 2009/147/EC.

1458 Both the WFD and the Habitats Directive allow for the use of exemptions, although there are some
1459 differences in the procedures and conditions. Under the Habitats Directive, Article 6(3) and 6(4)
1460 establish a procedure for the assessment and authorisation of plans or projects that may affect Natura
1461 2000 sites. In particular, the aim of Article 6(3) is to avoid adverse effects of plans and projects on
1462 Natura 2000 sites and thereby maintain the integrity of the Natura 2000 sites and the coherence of the
1463 network and its features. Hence an appropriate assessment (AA) must be made of any plan or project
1464 likely to have a significant effect on a site in the light of the conservation objectives of the site.

1465 The step of the Article 6(3) process where it is determined whether a project or a plan is likely to cause
1466 significant effects to a Natura 2000 site, either alone or in combination with other plans and projects,
1467 corresponds to what is commonly called "screening". If it cannot be excluded, following the screening,
1468 that the plan or project will have a significant effect on the site, an AA is required.

1469 Similarly, even though not explicitly mentioned, scoping is accepted as good practice and aims to
1470 precisely identify the potential issues that the AA should cover, as well as the appropriate information
1471 to gather. The focus of the AA is on the conservation objectives of the site. Any possible mitigation
1472 measures (e.g. in relation to location of the project, timing, construction method, etc.) may be
1473 considered in the context of the AA so as to avoid adverse effects on the integrity of the site.

1474 In case of a negative conclusion of the AA, the provisions of Article 6(4) may apply still if the relevant
1475 conditions are met (lack of alternative solutions, presence of imperative reasons of overriding public
1476 interest, implementation of compensation measures). Further detailed information can be obtained
1477 from the flow chart on the specific Article 6(3) and Article 6(4) procedure according to the Habitats
1478 Directive which is provided in Annex B⁷².

1479

⁷² See relevant guidance, documentation and jurisprudence on the implementation of Article 6(3) and 6(4) at http://ec.europa.eu/environment/nature/natura2000/management/guidance_en.htm

1480 **5 ARTICLE 4(7) TEST AND RELATIONSHIP TO THE RBMPs**

1481 If, as a result of the "Applicability Assessment" in relation to Article 4(7) (see chapter 4), a new
1482 modification, alteration or new sustainable human development activity is expected to cause
1483 deterioration or compromise the ability of the water body to reach the objective of good
1484 status/potential, an "Article 4(7) Test" needs to be performed during the authorisation procedure.

1485 Via the Article 4(7) Test it is determined whether permission for a proposed project can be granted
1486 despite it may cause deterioration / compromise the achievement of good status/potential. This is the
1487 case if the relevant conditions as outlined in the WFD are fulfilled, which are described in more detail
1488 in the following chapters. If the conditions are not fulfilled, then the project cannot be authorised.

1489 **5.1 Step-wise approach for an Article 4(7) Test**

1490 An Article 4(7) Test requires a number of assessments which need to be performed. These are
1491 presented in Figure 6 below in a stepwise approach. This flow chart aims to be a practical tool
1492 illustrating the different steps and relationships of assessments when considering the application of an
1493 Article 4(7) Test for the affected water body(ies). It follows the basic logic of an earlier flow chart
1494 elaborated for CIS Guidance Document No. 20⁷³ and was further developed. The different steps of the
1495 Article 4(7) Test are specified in more detail, and the iterative relationship with the Applicability
1496 Assessment in relation to Article 4(7) is indicated, following the basic logic that modifications to the
1497 project can lead to changes with regard to the effects it may cause on the status/potential of water
1498 body(ies), which might require to be re-evaluated under the Applicability Assessment. Under specific
1499 circumstances a modified or re-design project may even not lead to deterioration or compromising the
1500 achievement of good status/potential, thus making an Article 4(7) Test obsolete.

1501 The order of the different steps representing different requirements under the WFD is not strictly
1502 following the order of the text in the WFD. This was done for different reasons. For instance, the
1503 considerations under Step 1 (mitigation) and 2 (better environmental option), but potentially also step 3
1504 (weighing process), may result in adaptations of the project. In such a case a re-assessment of
1505 relevant elements, also in the frame of the Applicability Assessment, may be needed in an iterative
1506 manner. This is not necessarily the case for later steps in the process.. Like all WFD exemptions,
1507 Article 4(7) cannot be applied when the provisions of Articles 4(8) and 4(9) are not fulfilled. In other
1508 words, the use of exemptions is only allowed when they guarantee at least the same level of
1509 protection as existing EU legislation and provided that they do not permanently exclude or
1510 compromise the achievement of the wider objectives of the WFD in other bodies of water within the
1511 same river basin district. The requirements for compliance with these provisions were further specified
1512 under Step 4 and 5.

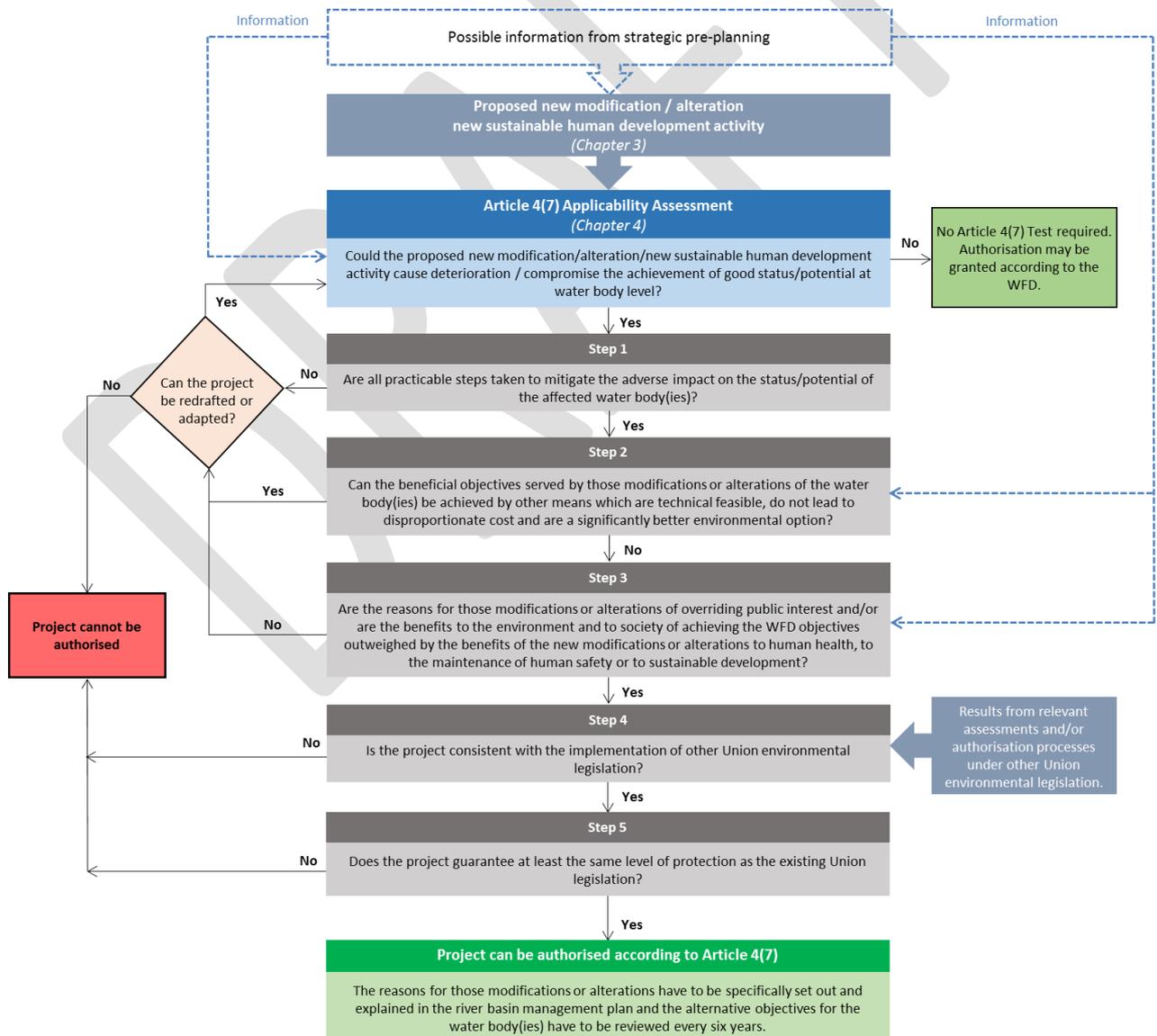
1513 Where a project also causes effects on other bodies of water, it can only be authorised if exemptions
1514 can also be justified for these other affected water bodies. In such a case it can be considered as
1515 reasonable to apply the Article 4(7) Test for the affected water bodies within the same procedure (see
1516 also chapter 3.5). Information on the results from relevant assessments and/or permission processes
1517 under other EU legislation, where relevant, allows performing Step 4 of the Article 4(7) Test (e.g.
1518 relevant assessments under an EIA or appropriate assessment under the Habitats Directive – see

⁷³ See CIS Guidance Document No. 20, Figure 4

1519 chapter 4.2). Finally, the Article 4(7) Test can be concluded and the project authorised in the case the
 1520 conditions are fulfilled, including also the requirement that the reasons for those modifications or
 1521 alterations have to be specifically set out and explained by the competent authority in the river basin
 1522 management plan and the alternative objectives for the water body(ies) have to be reviewed every six
 1523 years.

1524 Note that strategic pre-planning mechanisms (e.g. for specific sectorial development plans) may
 1525 inform the elaboration and selection of projects, WFD related assessments and overall the decision
 1526 making process, including different steps of the Article 4(7) Test. Furthermore, the different steps, as
 1527 outlined in Figure 6, do not necessarily have to be followed in a strict sense and the most appropriate
 1528 order can depend on the approach and level of planning. For instance, for some projects it might be
 1529 more reasonable to perform step 2 (better environmental option) before step 1 (mitigation measures),
 1530 e.g. in case strategic pre-planning mechanisms are in place. However, it has to be ensured that the
 1531 different requirements of Article 4(7) are fulfilled.

1532 **Figure 6: Example for a step-wise approach for an Article 4(7) Test and the iterative relationship with the**
 1533 **Article 4(7) Applicability Assessment**



1534

1535 In the following chapters, the different steps and considerations of the Article 4.7 Test are explained in
1536 more detail.

1537 **5.2 Taking all practicable steps to mitigate adverse impacts**

1538 One of the conditions for granting an exemption under Article 4(7) is that "*all practicable steps are*
1539 *taken to mitigate the adverse impact on the status of the body of water*" (Article 4(7)(a)). In other
1540 words, this condition requires taking all practicable actions leading to less deterioration of the
1541 conditions in the impacted water body.

1542 Unlike the EU Habitats Directive where the terms mitigation and compensation are strictly
1543 differentiated⁷⁴, the WFD neither defines nor constrains the definition of mitigation measures. The
1544 'practicable steps to mitigate the adverse impact on the status of the water body' required under Article
1545 4(7)(a) can therefore cover a wide range of actions. What matters is that **the objective of these**
1546 **actions is to avoid or reduce an identified potential effect on the status** of a WFD quality
1547 element. In other words, the measure will minimise or even prevent the risk of deterioration or the
1548 compromising of an otherwise expected improvement in status.

1549 The most appropriate type of action to mitigate the adverse effect will vary according to the specific
1550 local circumstances. For those not familiar with the requirements of the EU Habitats and EIA
1551 Directives, it is worth providing clarification on the following important points:

1552 ***Compensatory measures under the Habitats Directive***

1553 As the final part of the Article 6(4) 'tests', the Habitats Directive requires that compensatory measures
1554 be provided to offset the negative effects of a plan or project so that the overall ecological coherence
1555 of the Natura 2000 network is maintained. In the context of the Habitats Directive, this typically means
1556 restoring or recreating habitat on a new or enlarged site that is subsequently incorporated into the
1557 Natura 2000 network as compensation for the impacts on an existing site caused by a project
1558 authorised under the Article 6(4) exemption.

1559 There is no equivalent requirement for such compensatory measures under Article 4(7) of the Water
1560 Framework Directive. Rather the WFD accepts that – if it can be demonstrated that the requirements
1561 of the Article 4(7) Tests are met – there will be a residual adverse effect on the status of the water
1562 body in question.

1563 ***Mitigation measures in the context of the EIA Directive***

1564 Unlike the Habitats Directive, the EIA Directive does not define or explicitly differentiate between
1565 mitigation and compensation measures⁷⁵. Nonetheless, when different types of mitigation actions
1566 under EIA are being considered, evolving good practice – supported by the various references in the

⁷⁴ This distinction is highlighted in CIS Guidance Document No. 20, which notes that mitigation measures aim to minimise or even cancel the adverse impact on the status of the body of water, whereas compensatory measures aim to compensate in another body of water the "net negative effects" of a project and its associated mitigation measures.

⁷⁵ For example, Directive 2014/52/EU refers in various places to the 'measures envisaged in order to avoid, prevent or reduce and, if possible, offset likely significant adverse effects on the environment' and notes that Member States 'should ensure that mitigation and compensation measures are implemented'.

1567 EIA Directive to measures that 'avoid, prevent or reduce and if possible offset' adverse impacts –
1568 favours measures taken at source (on-site) over those 'off site' and promotes the application of the so-
1569 called 'mitigation hierarchy'.

1570 When a potential adverse impact is identified this hierarchy therefore emphasises the need, in order of
1571 priority, to:

- 1572 1. Avoid adverse impacts, for example by changing the location, method or timing of the activity or
1573 by the use of other preventative measures at source;
- 1574 2. Take measures at source or as close as possible to the source of the effect, which aim to
1575 minimise or reduce adverse impacts to negligible, low or otherwise acceptable levels;
- 1576 3. Where there are residual adverse effects (i.e. impacts that are unavoidable or cannot be
1577 reduced further on site), to remedy, offset or otherwise compensate for these effects by taking
1578 measures elsewhere that help to reduce the net adverse impact to negligible, low or otherwise
1579 acceptable levels.

1580 Whilst there is no specific requirement to apply the mitigation hierarchy when considering practicable
1581 steps to mitigate the adverse impact on the status of the water body in the context of the WFD, it is
1582 nonetheless recommended that good practice is applied and that all practicable measures that avoid,
1583 minimise or reduce effects at source are implemented before other, off site measures.

1584 ***Mitigation measures in WFD Article 4(7)(a)***

1585 The notion of "steps" as outlined in Article 4(7)(a) addresses potentially a wide range of measures in
1586 all phases of development, including facilities' design, maintenance and operation conditions,,
1587 restoration and creation of habitats.

1588 The wording "all practicable steps", in analogy with the term "practicable" used in other legislation,
1589 suggests those mitigation measures should be technically feasible, not disproportionate costly and
1590 compatible with the new modification, alteration or new sustainable human development activity.
1591 Requirements for mitigation measures for different types of modifications can be set out in guidance
1592 documents (e.g. guidance for fish migration aids) or specific recommendation documents (e.g. Best
1593 Environmental Practice (BEP), Best Available Techniques (BAT)).Mitigation measures aim at
1594 minimising or even cancelling the adverse effects on the status of a water body and should be an
1595 integral part of the project. As such, these measures might also be taken in other water bodies as long
1596 as their effects occur in the water body for which Article 4(7) is applied. Depending on their scope,
1597 some mitigation measures might, in some cases, even allow the improvement of status. If all
1598 practicable mitigation measures are not taken, an exemption under Article 4(7) cannot be granted. If it
1599 is assessed that implementing all practicable mitigation measures would lead to avoidance of
1600 deterioration or failure to achieve good status/potential, there is no need to apply an Article 4(7) Test,
1601 as a result of the Article 4(7) Applicability Assessment (see iterative feedback loop in Figure 6).

1602 As an example for mitigation measures, in the case of a new hydropower plant important mitigation
1603 measures normally include the construction of functional fish migration aids for relevant fish species
1604 and/or the establishment of ecological flows. Examples for related types of mitigation measures are

1605 addressed in the frame of the CIS (e.g. work on Good Ecological Potential – Water Storage⁷⁶). In the
1606 case of a new abstraction of groundwater, next to the limitation of the amount of groundwater allowed
1607 to be abstracted, mitigation measures might include natural water retention measures (NWRM) for
1608 additional groundwater recharge and therefore supporting to maintain a balance of groundwater
1609 abstraction and recharge.

1610 Mitigation measures do not necessarily need to be only of hydromorphological nature. In some cases,
1611 e.g. for projects including water abstraction, mitigation measures might also include the reduction of
1612 pollution from point or diffuse sources in order to address the reduced dilution capacity of a water body
1613 due to the abstraction and hence avoiding increased concentrations of pollutants.

1614 Bearing in mind the wide range of possible projects, impacts and types of mitigation, dealing with all
1615 the different types of mitigation measures to be considered under Article 4(7)(a) would exceed the
1616 scope of this guidance. Therefore, this section of the guidance concentrates on how and when all
1617 practicable mitigation measures should be considered, established and monitored in the Article 4(7)
1618 assessment procedure and permitting process for new projects.

1619 ***Consideration of mitigation during the project design stage***

1620 Mitigation measures need to be considered both in the initial Article 4(7) Applicability Assessment to
1621 determine whether the project may cause deterioration / non achievement of good status/potential and
1622 therefore trigger an Article 4(7) Test, as well as in the Article 4(7) Test itself to determine whether the
1623 conditions for granting an exemption under Article 4(7) are met. Mitigation measures to reduce
1624 adverse effects can be required as conditions of the authorisation (permit/license) for a new project,
1625 including also requirements for the maintenance and monitoring of the effectiveness of mitigation
1626 measures (for example to ensure the functioning of fish migration aids) and for potential adaptation
1627 needs.

1628 It is reasonable to consider "all practicable steps to mitigate adverse impacts" already in the early
1629 project design stage for the following reasons:

- 1630 • To reduce or even eliminate impacts on water bodies;
- 1631 • For consideration in the initial Article 4(7) Applicability Assessment - if deterioration / non-
1632 achievement of good status / potential can be avoided in the first instance, no Article 4(7) Test
1633 and therefore no Article 4(7) exemption will be required;
- 1634 • If deterioration / non-achievement of good status / potential cannot be avoided – for the Article
1635 4(7) Test itself since taking "all practicable steps to mitigate the adverse impacts" is an integral
1636 part of the requirements to allow for an Article 4(7) exemption;
- 1637 • To avoid protracted discussions and uncertainty over the project which could unduly delay its
1638 authorisation;
- 1639 • And finally, since the integration of mitigation measures is usually cheaper and easier in the
1640 early project design stage compared to exploring mitigation options once the design is already
1641 fixed, what can have several advantages, i.e. in terms of cost-savings but also in terms of
1642 efficiency gains for the administrative procedures during the project authorisation phase.

⁷⁶ Common understanding of using mitigation measures for reaching Good Ecological Potential for heavily modified water bodies - Part 1: Impacted by water storage: <https://ec.europa.eu/jrc/en/publication/working-group-ecostat-report-common-understanding-using-mitigation-measures-reaching-good-ecological>

1643 During the Article 4(7) Test, competent authorities will have to evaluate whether all practicable steps to
1644 mitigate adverse impacts are included as part of the proposed project, or whether additional
1645 practicable mitigation measures will be required (additional to those proposed by the project owner) in
1646 order to further reduce the impacts. This may lead to modifications of the initial project design and
1647 therefore have an influence on the results of the Article 4(7) Applicability Assessment. Therefore,
1648 taking the effects of mitigation measures into account can be an iterative process, which may lead to
1649 an updated evaluation of the effects the project may have on the status / potential of a water body due
1650 to mitigation.

1651 For defining specific mitigation measures, synergies can be gained with the process of an EIA for
1652 projects under its scope, but it is important to note that the Article 4(7) Test needs to be carried out in
1653 a distinct way.

1654 Knowledge gained from monitoring results on the effects of mitigation measures implemented as part
1655 of the programs of measures in previous planning cycles can be useful for selecting relevant and
1656 effective mitigation measures. Possible mitigation requirements are usually set out in guidance
1657 documents used in authorisation processes or catalogues of measures elaborated at national level
1658 which list and describe state-of-the-art measures and Technology / Best Available Technology /
1659 obligatory minimum requirements for different types of modifications. The latter (catalogues of
1660 measures) are also relevant for other steps in WFD implementation such as the HMWB designation
1661 process and the consideration of mitigation measures when defining ecological potential.

1662 Mitigation measures considered in the definition of good ecological potential (GEP) (measures that do
1663 not have significant adverse effects on the use of the HMWB or on the wider environment) are also
1664 relevant for the definition of practicable mitigation measures under Article 4(7)(a). They should be
1665 considered as a starting point, but the range of mitigation measures under Article 4(7) is potentially
1666 wider compared to mitigation measures for GEP definition of an existing HMWB. This because it can
1667 be easier to integrate mitigation measures already in the project design phase compared to the
1668 implementation of measures on existing infrastructure. Another important reason why GEP mitigation
1669 measures are only a sub-set of those that could be applied in the case of Article 4(7) is that
1670 construction methods can be modified to reduce impacts, whereas there is no construction phase for
1671 ongoing operations and activities.

1672 Where practicable mitigation measures exist, but for some of them there is uncertainty about the
1673 magnitude or timing of their effects on status, adaptive management principles might be applied.

1674 The adaptive management concept provides a potentially useful way forward in such situations (i.e.
1675 where there are residual uncertainties) because decisions on the need for and implementation of
1676 actions required to manage or mitigate the residual effects of a project or activity can be informed by
1677 the outcomes of an agreed programme of monitoring. Adaptive management can therefore be relevant
1678 in situations where:

- 1679 • there is a reasonable level of understanding about the likely implications of the project or
1680 activity in question and
- 1681 • the risks are negligible or low and/or there is high certainty in the ability of the proposed
1682 management actions (or mitigation measures) to address the effects.

Case study 7: City water supply development and mitigation**Country: Finland (FI)**

New abstraction of ground water by pumping has been planned to secure drinking water supply of a large city depending on one water source, the nearby river. Of the designated water bodies at the proposed site, a few small lakes and a smaller amount of rivers were estimated to be possibly at risk due to water abstraction. There are also springs and brooks, not designated as water bodies, at the area.

- A. The waterworks initially applied for a permit for abstraction of 32,500 m³/day. The application was rejected due to impacts on areas protected by the habitats directive. The process restarted with survey on the alternatives for other water intake areas within a radius of 80-100 km from city centre.
- B. Based on the options found, an interactive multi-criteria decision analysis was carried out. The target was not only to find an economically, technically, socially and ecologically sustainable option, but also to support open discussion between parties. Two alternative options were eventually recommended by the project group; one of them being the original area, but, with a considerably smaller water abstraction volume. Uncertainty on the quantity and quality of ground water and also a considerably longer time period required for the implementation of the project were seen as major weaknesses of the alternative option.
- C. As mitigation means at the original site it was decided to relocate the water pumping sites, reduce their number and decrease the daily intake by two thirds, to 11,000 m³/day, which would be the lowest possible intake needed for raising the security level status for the city from low to medium. Also the regulation of water level at a lake was abandoned. The ground water flow modelling showed that in spite of these actions, changes in water quality would be observed in some lakes and brooks, especially during the low flow periods. Therefore, additional means of diminishing the impacts were suggested: directing water from some pumping stations to watersheds and reducing the intake of certain stations during low flow. Also blocking of forest drainage ditches in certain areas has been suggested.
- D. To compensate the losses for springs at the impact area, a large number of springs outside it will be restored.
- E. E. Natura 2000 impact assessment report for the renewed project and reports of field and modelling surveys have been forwarded together with the permit application to the authorizing body. During the permitting procedure, it will assess whether the methods and results are reliable and whether the mitigation and compensation actions are sufficient with respect to e.g. nature conservation act, water act and Art 4(7).

Links:

<http://www.ymparisto.fi/download/noname/%7B5DC260B6-B2EC-468B-9E83-90DC9F2C28EE%7D/78444>

1683

1684 ***Practicability of mitigation***

1685 As mentioned above, practicable mitigation measures should be technically feasible, should not lead
 1686 to disproportionate costs and should be compatible with the new modification, alteration or new
 1687 sustainable human development activity.

1688 Assessing which mitigation measures are practicable can be done on the basis of good-practice
 1689 principles to be applied to all projects of a certain type. Nevertheless, the selection of practicable
 1690 mitigation measures also has a case-specific component. Certain mitigation measures may not be
 1691 technically feasible in a specific location or may not be reasonable due to type-specific natural
 1692 conditions. For example, in the case of hydropower plants, ensuring ecological flow and the installation
 1693 of fish migration aids are usually required as mitigation measures for water bodies within fish regions.
 1694 The installation of fish migration aids will not be reasonable in water bodies outside of such regions
 1695 where natural fish habitats have not existed. Note that fish habitats could be restored if they got lost
 1696 due to an existing pressure.

1697 **5.3 Assessing significantly better environmental options**

1698 According to Article 4(7)(d) "*the beneficial objectives served by those modifications or alterations of*
1699 *the water body cannot for reasons of technical feasibility or disproportionate cost be achieved by other*
1700 *means, which are a significantly better environmental option*". It is therefore necessary to assess
1701 "alternative means" for proposed new modifications, alterations or new sustainable human
1702 development activities.

1703 Guidance Document No. 20 already outlines in this context that those means or alternatives solutions
1704 could involve alternative locations, different scales or designs of development, or alternative
1705 processes. Alternatives should be assessed in the early stages of development and at the appropriate
1706 geographical level (e.g. EU, national, RBD) against a clear view of the beneficial objectives provided
1707 by the modification. For projects under its scope, the use of the requirements of the EIA Directive can
1708 help to assess the different possible alternatives, but might not always be sufficient.

1709 Technical infeasibility is justified if no technical solution is available. With regard to disproportionate
1710 costs, "disproportionality" is a judgment which has a political, technical and social dimension informed
1711 by economic information and analysis of costs and benefits⁷⁷.

1712 The scope for "alternative means" can include two dimensions – the strategic level and the project
1713 specific level, whereas assessments at the strategic level can feed into the project-specific
1714 assessment for decision making.

1715 **5.3.1 Strategic level**

1716 For judging significantly better environmental options strategic components need to be considered,
1717 going beyond the local level. Examples for "other means" for the beneficial objectives served by those
1718 modifications can for instance include:

- 1719 • Other forms of renewable energy generation, measures to increase energy efficiency or
1720 alternative locations for hydropower generation, other forms to balance energy supply and
1721 demand;
- 1722 • Assessment of capacities and possibilities for other forms of transport, e.g. rail and/or road for
1723 navigation;
- 1724 • Possibilities and effects of water retention measures with regard to flood protection;
- 1725 • Potentials for water saving measures for drinking water supply or irrigation projects;
- 1726 • etc.

1727 Depending on the nature of the new modification, alteration or new sustainable human development
1728 activity, consideration of relevant sector policies is crucial in this context, including for instance the
1729 Renewable Energy Action Plans, TEN-T Programme, Flood Risk Management Plans, Rural
1730 Development Programmes, etc. (see Chapter 2). In other words, a strategic level assessment taking
1731 account of a range of possible options is required for an informed judgement on whether deterioration
1732 / non achievement of good status / potential can be justified or not. Life cycle considerations (such as

⁷⁷ For more details see CIS Guidance Document No. 1 Economics and the environment: [https://circabc.europa.eu/sd/a/cffd57cc-8f19-4e39-a79e-20322bf607e1/Guidance%20No%201%20-%20Economics%20-%20WATECO%20\(WG%202.6\).pdf](https://circabc.europa.eu/sd/a/cffd57cc-8f19-4e39-a79e-20322bf607e1/Guidance%20No%201%20-%20Economics%20-%20WATECO%20(WG%202.6).pdf)

1733 energy demand) may also have a part to play in the decision process⁷⁸. Consideration of the strategic
 1734 component also helps to improve policy coherence. The results of Strategic Environmental
 1735 Assessments according to the SEA Directive, which applies to plans and programmes, can be useful
 1736 in this context, but might not always be sufficient.

1737 Finally, there is a need to consider potential cumulative effects of modifications (see Chapter 3.6).
 1738 Since the spatial extent of impacts is a relevant consideration, the strategic level can be the
 1739 appropriate scale for related assessments.

Case study 8: ICPDR Guiding Principles on Sustainable Hydropower Development

Country: International Commission for the Protection of the Danube River (Danube River Basin, including the 9 EU Member States AT, BG, CZ, DE, HR, HU, RO, SI, SK and 5 non EU Member States BA, MD, ME, RS and UA)

Countries in the Danube River Basin are planning new hydropower development in order to increase the share of renewable energy. At the same time countries are committed to meet the environmental protection objectives, including the WFD.

Acknowledging the challenge of sustainable hydropower development in the frame of the existing legal and policy framework, the ICPDR elaborated "Guiding Principles on Sustainable Hydropower Development". The Guiding Principles recommend the application of a strategic approach, including the strategic (national/regional) and project specific level. Criteria for both levels are included in the document. This is also due to the fact that the required assessments and acquisition of data is only feasible on the respective levels. Therefore, a two-level assessment is suggested for the strategic planning approach as illustrated below.

The Guiding Principles which have been developed by an interdisciplinary team, including representatives from authorities (energy and environment), the hydropower sector and NGOs, were finalised and adopted in June 2013 and recommended by the ICPDR for application at national level.

Strategic planning approach – national/regional and project-specific assessments FIGURE 13

Links: <http://www.icpdr.org/main/activities-projects/hydropower>

1740

⁷⁸ See Royal Commission on Environmental Pollution (1988): 12th report: Best Practicable Environmental Option

1741 5.3.2 Project level

1742 At the project level alternatives have to be assessed against the criteria whether other means can
1743 serve the same purpose while being a significantly better environmental option. This includes for
1744 instance different project designs which are technically feasible and not disproportionate costly. Also
1745 other legislation (e.g. EIA or Habitats Directives) can require the assessment of alternative means⁷⁹.

1746 Potential synergies can be gained with assessments according to the EIA Directive (if applicable) for
1747 determining environmental impacts of a planned project, prescribing a description of the reasonable
1748 alternatives studied by the developer, which are relevant to the project and its specific characteristics,
1749 and an indication of the main reasons for the option chosen, taking into account the effects of the
1750 project on the environment⁸⁰. It has to be clarified in this context that neither the EIA (nor SEA)
1751 procedures prescribe the design of projects, nor recommend its improvement or change.

1752 5.4 Weighing interests: Overriding public interest / benefits versus impacts

1753 A further condition which needs to be complied with is that "*the reasons for those modifications or*
1754 *alterations are of overriding public interest and/or the benefits to the environment and to society of*
1755 *achieving the objectives set out in paragraph 1 are outweighed by the benefits of the new*
1756 *modifications or alterations to human health, to the maintenance of human safety or to sustainable*
1757 *development"* (Article 4(7)(c)). To comply with this test at least one of the two criteria of Article 4(7)(c)
1758 has to be fulfilled (overriding public interest or the weighing test) by the new modification, alteration or
1759 new sustainable human development activity, or both⁸¹.

1760 5.4.1 Overriding public interest

1761 In EU legislation the public or general interest can serve as a ground for justifying derogations. A
1762 range of "public interests" exist within the EU and at national level such as energy security, food
1763 security, economic activities and job creation, environmental protection, etc. Since not all public
1764 interests can automatically be "overriding", it is important to distinguish between "public interest" and
1765 "overriding public interest" which is addressed by Article 4(7)(c). "Overriding" practically means that
1766 the other interest overrides achieving the objectives of the WFD. Member States must be allowed a
1767 certain margin of discretion for determining whether a specific project is of such interest⁸².

1768 CIS Guidance Document No. 20 outlines that a similar concept is also used in the Habitats Directive
1769 (92/43/EEC) ("Imperative Reasons of Overriding Public Interest") and other EC law. The European
1770 Commission's "Guidance on the provisions of Article 6 of the Habitats Directive 92/43/EEC"⁸³ may
1771 bring some clarification. It is reasonable to consider that the reasons of overriding public interest⁸⁴
1772 refer to situations where plans or projects envisaged prove to be indispensable within the framework
1773 of:

⁷⁹ See for instance Case C-239/04 Castro Verde special protection area - Lack of alternative solutions:
<http://curia.europa.eu/juris/liste.jsf?language=en&num=c-239/04>

⁸⁰ See EIA Directive Article 5.1(d)

⁸¹ See also Austrian National High Administrative Court Decision (VwGH 24.11.2016, Ro 2014/07/0101), ruling that the fulfilment of one
criteria of Article 4(7)(c) is sufficient, thus overriding public interest or the weighing test, and not necessarily both.

⁸² See Case C-346/14 Commission v Austria:

[http://curia.europa.eu/juris/document/document.jsf?text=&docid=177722&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1
&cid=320623](http://curia.europa.eu/juris/document/document.jsf?text=&docid=177722&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=320623)

⁸³ See Guidance on Article 6(4) and Methodological guidance on Assessment of Plans and Projects significantly affecting Natura 2000 sites
available at: http://ec.europa.eu/environment/nature/natura2000/management/guidance_en.htm; See Chapter 2.7

⁸⁴ Note that the consideration of "overriding public interest" only applies to the first part of Article 4(7) c, not to the second part.

- 1774 • Actions or policies aiming to protect fundamental value for citizen's lives (health, safety,
1775 environment);
- 1776 • Fundamental policies for the state and the society;
- 1777 • Carrying out activities of an economic or social nature, fulfilling specific obligations of public
1778 services.

1779 Case law from the European Court of Justice on the application of this concept to the Habitats
1780 Directive can bring further clarification⁸⁵. Furthermore, public participation can contribute considerably
1781 in determining overriding public interest.

1782 The following additional sources of information can help to provide further clarification on the question
1783 what to consider as "public interest" or "overriding public interest"⁸⁶:

- 1784 • The CIS Guidance Document No. 1 (WATECO)⁸⁷ outlines a number of key elements which
1785 need to be considered (e.g. to fulfil public interests, not all types of public interest can apply,
1786 aim to protect fundamental values for citizens' lives and society (e.g. health, safety), within the
1787 framework of fundamental policies for the State and society).
- 1788 • The EU court has clarified⁸⁸ that irrigation and the supply of drinking water may⁸⁹ constitute an
1789 overriding public interest that can justify a water diversion project in the absence of alternative
1790 solutions (for considerations relating to human health or beneficial consequences of primary
1791 importance for the environment). It has also noted⁹⁰ that the construction of a hydropower
1792 plant may in fact be an overriding public interest.
- 1793 • In the relation to hydropower projects, within the CIS process it was concluded that a
1794 hydropower activity is not automatically of overriding public interest just because it will
1795 generate renewable energy⁹¹.
- 1796 • In relation to the EU Habitats Directive (Natura 2000 sites which might also be affected by a
1797 new modification), Article 6(4) first subparagraph stipulates that imperative reasons of
1798 overriding public interest include those of social or economic nature, while the second
1799 subparagraph mentions human health, public safety and beneficial consequences of primary
1800 importance for the environment as examples of such imperative reasons of overriding public
1801 interests⁹².

⁸⁵ See "Article 6 of the Habitats Directive - Rulings of the European Court of Justice" at:

http://ec.europa.eu/environment/nature/legislation/caselaw/index_en.htm

⁸⁶ Note that the references provided do not claim completeness as new decisions might appear.

⁸⁷ [https://circabc.europa.eu/sd/a/cffd57cc-8f19-4e39-a79e-20322bf607e1/Guidance%20No%201%20-%20Economics%20-%20WATECO%20\(WG%202.6\).pdf](https://circabc.europa.eu/sd/a/cffd57cc-8f19-4e39-a79e-20322bf607e1/Guidance%20No%201%20-%20Economics%20-%20WATECO%20(WG%202.6).pdf)

⁸⁸

<http://curia.europa.eu/juris/document/document.jsf?jsessionid=9ea7d0f130d679e412f3db944bbd8ceeb4d91f8fe99e.e34KaxilC3eQc40LaxqMbN4Pah4Te0?text=&docid=126642&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=55628> ;

<http://curia.europa.eu/juris/document/document.jsf?jsessionid=9ea7d0f130d679e412f3db944bbd8ceeb4d91f8fe99e.e34KaxilC3eQc40LaxqMbN4Pah4Te0?text=&docid=111201&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=55628>

⁸⁹ Please note it is stated that such activities may be of "overriding public interests", what is important in the context of the whole judgment, and, by analogy, in the context of WFD 4(7)

⁹⁰

<http://curia.europa.eu/juris/document/document.jsf?text=&docid=177722&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=320623>

⁹¹ https://circabc.europa.eu/sd/a/23d94d2d-6b9c-4f17-9e15-14045cd541f3/Issue%20Paper_final.pdf

⁹² Please note that the WFD does not use the term "imperative" as it is used in Article 6.4 of the Habitats Directive, what is important to be considered for a comparison. As regards the "other imperative reasons of overriding public interest" of social or economic nature, it is clear from the wording that only public interests, irrespective of whether they are promoted either by public or private bodies, can be balanced against the conservation aims of the Directive. Thus, projects developed by private bodies can only be considered where such public interests are served and demonstrated.

- 1802 • On the national level, additional issues related to the application of WFD Article 4(7) might
1803 also play a role such as military security (e.g. causing Article 4(7) cases on coastal areas)⁹³.

1804 Based on the above sources which summarize approaches to distinguish "public interests" from
1805 "overriding public interests", it can be reasonably considered that a simple declaration without further
1806 well-grounded assessments is not sufficient to declare a planned new modification or new sustainable
1807 human development activity as "overriding public interest". A broad and transparent discussion
1808 process underpinning such assessments with involvement of relevant authorities and stakeholders can
1809 help in this regard, including a transparent and clearly documented decision making process for each
1810 case. Guidance on the different levels of public participation and how to organise public participation
1811 can be found in CIS Guidance No. 8 - Public Participation in Relation to the Water Framework
1812 Directive.⁹⁴

1813 Results from an SEA on relevant plans and programs can also be helpful in this regard, next to the
1814 public participation process required under WFD Article 14 which can support the debate to determine
1815 overriding public interests. However, it should be noted that a specific project context will in most
1816 cases be needed as Article 4(7) cases can have a different scale, different timing and different
1817 stakeholder groups which might need to be involved compared to the consultation process of the
1818 RBMPs.

1819 **5.4.2 Weighing benefits of the modification versus foregone benefits and opportunities**

1820 The second part of Article 4(7)(c) addresses the question whether "*the benefits to the environment*
1821 *and to society of achieving the objectives set out in paragraph 1 are outweighed by the benefits of the*
1822 *new modifications or alterations to human health, to the maintenance of human safety or to*
1823 *sustainable development*".

1824 An analysis of the costs and the benefits of the project adapted to the needs of the Directive is
1825 necessary to enable a judgement to be made on whether the benefits to the environment and to
1826 society of preventing deterioration of status or restoring a water body to good status are outweighed
1827 by the benefits of the new modifications or alterations to human health, to the maintenance of human
1828 safety or to sustainable development. The benefits of achieving the environmental objectives of Article
1829 4 include⁹⁵:

- 1830 • In case of deterioration of status, those benefits and opportunities foregone as a result of the
1831 deterioration of status (e.g. loss of biodiversity, loss of ecosystem services); and
1832 • In case of failure of reaching good status or potential, those benefits that would be provided if
1833 the achievement of good status or good ecological status were not prevented (e.g. drinking
1834 water supply is no longer possible⁹⁶ or the foregone benefits due to the necessary increase in
1835 the level of purification treatment; if a water body may deteriorate from moderate to poor the
1836 gap between good and poor).

⁹³ See Treaty on European Union Art 42 (3)

⁹⁴ <https://circabc.europa.eu/sd/a/0fc804ff-5fe6-4874-8e0d-de3e47637a63/Guidance%20No%208%20-%20Public%20participation%20%28WG%202.9%29.pdf>

⁹⁵ For an extended list see Annex I: Costs & Benefits of CIS Guidance No. 20

⁹⁶ Note that WFD Article 7(3) requires that Member States shall ensure the necessary protection for the bodies of water identified with the aim of avoiding deterioration in their quality in order to reduce the level of purification treatment required in the production of drinking water.

1837 The "water costs" (negative benefits) have to be put in balance with the potential benefits and other
1838 costs (increased use of other natural resource, including global impacts) of the new modifications and
1839 alterations to human health, to the maintenance of human safety or to sustainable development⁹⁷.
1840 Thus, other categories of possible benefits and costs will have to be considered and - if possible –
1841 calculated, taking into account the specific quality element which is expected to deteriorate or be
1842 compromised to improve.

1843 In addition, CIS Guidance Document No. 1⁹⁸ outlines the following steps:

- 1844 1. Investigating issues similar to those considered in analysing the "sustainability status" of new
1845 activities. These include: improvement in human health, improvements in human safety (e.g.
1846 in the case of flood protection projects), increase in economic activity or production.
- 1847 2. Assessing the foregone benefits resulting from the failure to achieve the environmental
1848 objectives of the Directive, based on the evaluation of the environmental, economic and social
1849 water-related benefits. In both cases, it should be attempted to quantify and express benefits
1850 or foregone benefits in monetary terms so as to make both parts of the analysis comparable.
1851 In many cases, however, it will be difficult to express and quantify all benefits or foregone
1852 benefits in monetary terms. Thus, the different benefits and impacts should be presented,
1853 whether in monetary terms, quantified or assessed qualitatively, in a multidimensional table.

1854 Hence, this does not mean that it will be necessary to monetise or even quantify all costs and benefits
1855 to make such a judgement as this might be methodologically challenging. The appropriate mix of
1856 qualitative, quantitative and, in some cases, monetised information should depend on what is
1857 necessary to reach a judgement and what is proportional and feasible to collect⁹⁹. In this context and
1858 due to the range of expertise which may be needed for such assessments, close cooperation of the
1859 relevant competent authorities is considered as good practice.

1860 The challenge in quantifying and monetizing the environmental benefits and losses arise in an
1861 economic assessment. Thus one could perform a multi-criteria analysis which might produce more
1862 relevant information and results than a cost-benefit analysis. This method can enable to consider a
1863 wide range of criteria¹⁰⁰, with not only monetary indicators, and can therefore lead to better informed
1864 decisions. In the event of two analyses being performed separately to assess the benefits and losses
1865 to the environment and the welfare effects, one should keep in mind that a methodology will need to
1866 be designed in order to compare the results of both analysis and perform the final judgement on the
1867 overall benefits. Regardless of the methodology and assessment tool which is applied to make a
1868 judgement, it should be noted that the assessment of economic and social welfare is linked to the
1869 environmental one, and its justification needs to be transparent and accountable.

1870

1871

⁹⁷ http://ec.europa.eu/environment/sustainable-development/SDGs/implementation/index_en.htm

⁹⁸ <http://ec.europa.eu/environment/water/water-framework/economics/pdf/Guidance%201%20-%20Economics%20-%20WATECO.pdf>

⁹⁹ For assessing benefits or comparing benefits, inspiration can be found in the Guide to Cost-Benefit Analysis of Investment Projects - Economic appraisal tool for Cohesion Policy 2014-2020: http://ec.europa.eu/regional_policy/sources/docgener/studies/pdf/cba_guide.pdf

¹⁰⁰ Also the use of results from mapping and assessment of ecosystems and their services (MAES process), if available, may be useful in that context; See: <http://biodiversity.europa.eu/maes>

Case study 9: Criteria Catalogue for Hydropower

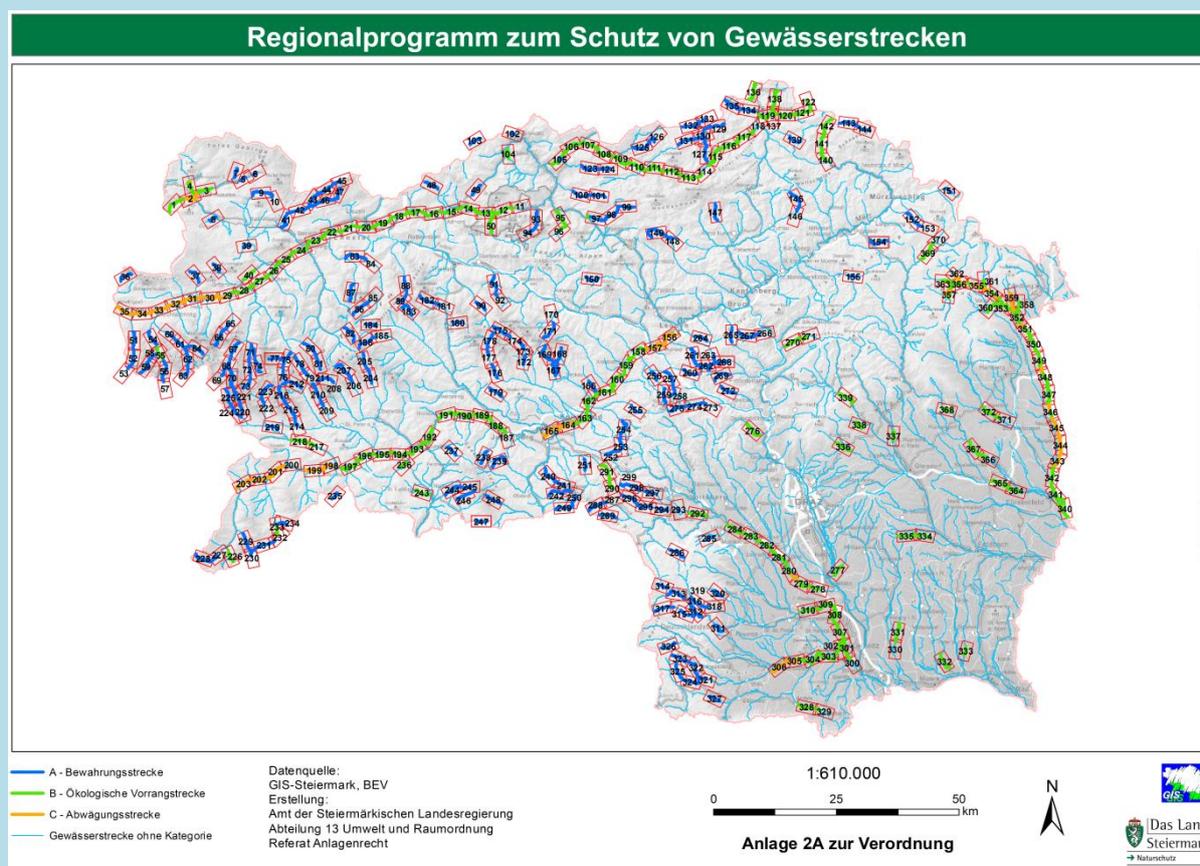
Country: Austria (AT)

Austria has laid down principles for hydropower development in the first RBMP as well as the “Criteria Catalogue for new hydropower development” (Österreichischer Wasserkatalog: Wasser schützen – Wasser nutzen. Kriterien zur Beurteilung einer nachhaltigen Wasserkraftnutzung) which is a decision support system as basis for regional planning. The main goals of the catalogue are:

- to assist water authorities in weighing the diverse public interests
- to summarise technical knowledge on most relevant aspects (energy management, ecology and other relevant water management aspects)
- give information on the criteria to assess the ecological value of WBs
- to ensure an Austrian wide common understanding and application of Art. 4 (7) test
- to assist transparency
- supporting tool - not forestalling the final decision of authorization body
- additional support for the assessment of better environmental options
- basis for further strategic planning for hydropower development on regional level
- will help hydropower planners to evaluate at a very early stage the chances of a new project to get an approval before detailed project planning is done

In order to implement this approach, in a first step the development of the criteria catalogue was included as a measure in the Program of Measures (PoM) of the 1st River Basin Management Plan to be used for weighing public interests in case of status deterioration (Article 4(7) WFD) as well as a basis for regional planning of hydropower development. The catalogue was published by the Ministry and provided to the regional authorities as an order for application (Erläss).

As an example for the second step (practical application), the regional program from the provincial government of Styria is provided, outlining "preservation stretches", "ecological priority stretches", and "weighing stretches" (see map).



Links:

https://www.bmlfuw.gv.at/wasser/wasser-oesterreich/wasserrecht_national/planung/erneuerbareenergie/Kriterienkatalog.html and
<https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=LrStmk&Gesetzesnummer=20001250>

1873 **5.5 Relationship to the River Basin Management Plans**

1874 Article 4(7) exemptions are linked to a number of issues with the River Basin Management Plans. The
1875 main ones are outlined as follows.

1876 **5.5.1 Reporting in the River Basin Management Plans**

1877 Article 4(7)(b) includes a general provision that "*the reasons for those modifications or alterations are*
1878 *specifically set out and explained in the river basin management plan required under Article 13 and*
1879 *the objectives are reviewed every six years*". Furthermore, WFD Annex VII A.5, A.7 and B1 is referring
1880 to Article 4(7) exemptions and the need to report them in the RBMP. The core rationale behind these
1881 requirements is to support the public participation process and to ensure that the use of exemptions is
1882 made transparent and traceable, allowing for public scrutiny. The public participation process can also
1883 be useful in other terms, e.g. for determining overriding public interest due to feedback provided by
1884 relevant actors and stakeholder if potential Article 4(7) cases are included in the draft RBMPs.

1885 Guidance Document No. 20 outlines in this context that this is a reporting obligation and does not
1886 mean that Member States must wait until the publication of the River Basin Management Plan before
1887 allowing a new physical modification or new sustainable development activity to proceed. In many
1888 cases projects will be developed within the RBMP six year cycle.

1889 For modifications and alterations within the scope of the Environmental Impact Assessment Directive,
1890 Member States must ensure that the public concerned is given the opportunity to express an opinion
1891 before the project is initiated.

1892 Even if timing of a project is such that consultation on the RBMPs will not provide the opportunity for
1893 interested parties to express their views in advance of those decisions, Article 14 requires Member
1894 States to encourage the active involvement of all interested parties in the implementation of the
1895 Directive. It is recommended that Member States ensure that such opportunities¹⁰¹ are provided in
1896 relation to projects that are outside the scope of the Environmental Impact Assessment Directive but
1897 likely to result in deterioration of status or to prevent the achievement of good ecological Status, good
1898 ecological potential or good groundwater status.

1899 The information provided through such consultations will help Member States in reaching a judgment
1900 on whether the exemption conditions are met and will reduce the likelihood that interested parties will
1901 challenge the subsequent decision.

1902 If a modification or alteration goes ahead part way through a river basin management planning cycle,
1903 the reason for that modification or alteration must be set out in the subsequent (update of the) RBMPs.

1904 Furthermore, the PCI Guidance¹⁰² for energy infrastructure Projects of Common Interest, which is a
1905 Commission Guidance, provides some further direction, outlining that "*where a project is put forward*
1906 *in the middle of the 6 years cycle and was not included in the previous RBMP, under strict and short*
1907 *time limits, Member States will be de facto amending their RBMPs and with no public consultation.*

¹⁰¹ Note that the provisions of the Aarhus Convention can be relevant in that context.

¹⁰² Guidance on Streamlining environmental assessment procedures for energy infrastructure Projects of Common Interest (PCIs),
https://ec.europa.eu/energy/sites/ener/files/documents/20130919_pci-en-guidance.pdf

1908 *Therefore, the preferred course of action would be to formally update the existing RBMPs. An*
 1909 *alternative would be to rely on a proper ad hoc public consultation, e.g. using the EIA process or other*
 1910 *proper consultation. (...) Failing to carry out a proper public consultation could run the risk that*
 1911 *Member States lose sight of the links between the proposed project and other water uses in the basin*
 1912 *or that citizens are partly deprived of their right to be consulted as provided under the WFD. It is*
 1913 *therefore recommended that time limits for the consultations are sufficient to allow a proper*
 1914 *consideration of the project in the RBMP context. In cases where the projects are developed in the*
 1915 *middle of the WFD planning cycle, they will then need to be included in the subsequent RBMP, which*
 1916 *will be subject to public consultation in its entirety."*

1917 In addition, the following information can be considered as useful to be included the RBMPs (and the
 1918 draft RBMPs) that is available at the time of publishing the plans:

- 1919 • Potential 4(7) cases before the project is assessed or where assessment is ongoing, e.g. flood
- 1920 protection measures outlined in the FRMP, other infrastructure projects (e.g. navigation,
- 1921 hydropower, irrigation schemes) which may be subject to an Article 4(7) Test, or other projects
- 1922 for which an authorisation procedure was launched;
- 1923 • Other projects which may have effects on water body status/potential but which may not
- 1924 trigger, individually, an Article 4(7) Test;
- 1925 • Information on potential interaction with existing pressure and uses in the basin;
- 1926 • Information and links to relevant background documents;

1927 An added value can also be information in the RBMP about projects where an Article 4(7) Test was
 1928 not required (since the proposed project was assessed to not cause a deterioration / non-achievement
 1929 of good status / potential). This information can inter alia be relevant for the update of the review of the
 1930 environmental impact of human activity and the economic analyses required under WFD Article 5 and
 1931 Annex III. Here in particular for the identification of pressures, the assessment of impacts and the risk
 1932 of failing to achieve the environmental objectives. It can also be useful for transparency reasons, i.e. if
 1933 information is requested by interested parties¹⁰³.

Case study 10: Instruction of the Spanish Water Director in relation to Article 4(7)

Country: Spain (ES)

Spain has developed technical Instruction that applies to all interregional RBDs in the country. The instructions establish a technical procedure to analyse new modifications of physical characteristics of water bodies, new sustainable human development activities and alterations to the level of groundwater bodies that could lead to the consideration of possible art 4(7) exemptions. For each potential Art 4(7) case a fact sheet needs to be filled out.

The final factsheet that has to be included in the RBMP as a summary of the 4(7) evaluation. It can be used as a summary (that can be used in the public participation process) but also as a check list for water planning officers to follow all the steps of a complete analysis. Furthermore, it enables to compile all the information as structured data in a computer system.

Links: <https://circabc.europa.eu/sd/a/f72ae44f-23e3-4cb6-9cba-74a79bf5c331/19 - MS Spain - 4.7 Case Study 1.pdf>

1934

¹⁰³ See for example Court Case C-75/08, concerning the EIA Directive, available at <http://curia.europa.eu/juris/document/document.jsf?text=&docid=73330&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=194020>

1935 **5.5.2 Article 4(7) and the designation of heavily modified water bodies (HMWB)**

1936 If Article 4(7) is applied for a new modification to the physical characteristics of a surface water body
1937 (hydromorphological alteration), a water body might then qualify to be designated as HMWB in the
1938 next RBMP where the water body is deteriorated / cannot reach Good Ecological Status.

1939 Guidance Document No. 20 outlines in this context that after a new hydro-morphological alteration has
1940 occurred, it may be that the water body qualifies for designation as a heavily modified water body in
1941 accordance with Article 4(3) in the next planning cycle. There is no requirement that the designation
1942 has to wait until the publication of the next River Basin Management Plan. However, water bodies
1943 cannot be designated as HMWBs before the new modification has taken place because of the
1944 anticipation of the significant hydro-morphological alteration.

1945 After the application of Article 4(7) and in case of designation of new HMWBs, the step by step
1946 approach developed within the HMWB guidance document should be applied without the "provisional
1947 identification-step".

1948 There are similarities between the Article 4(7) exemption and HMWB designation test, addressing e.g.
1949 physical modifications or requiring mitigation measures. CIS Guidance Document No. 4 already
1950 outlines that HMWB designation tests according to Article 4(3) can become relevant for newly modified
1951 water bodies, for instance for water bodies that have become substantially changed in character as a
1952 result of the application of the Article 4(7) derogation¹⁰⁴. Therefore it can be reasonable to ensure
1953 coherence between the required assessments under Article 4(7) and the tests according to Article
1954 4(3). At the same time, a new hydro-morphological alteration will not always lead to a designation of
1955 the respective water body as heavily modified (e.g. in case of deterioration from high to good).

1956 Once a water body is designated as HMWB following the Article 4(7) exemption and Article 4(3) test,
1957 HMWB designation needs to be checked every 6 years in subsequent RBMPs whether the
1958 requirements for HMWB designation and GEP are achieved. This is required for proving if new
1959 approaches and possibilities for mitigating impacts might have emerged which have to be considered.

1960 In case an Article 4(7) exemption is granted for a new physical modification in an existing HMWB (see
1961 chapter 0), the ecological potential of this water body might subsequently need to be re-defined based
1962 on the WFD 6-years planning cycle to take account of the additional physical modification.

1963 **5.5.3 Relationship of Article 4(7) to Article 4(4) and 4(5)**

1964 In case the Article 4(7) criteria are met it is possible to apply Article 4(7) exemptions under the first
1965 limb (new modifications to the physical characteristics of a surface water body or alterations to the
1966 level of bodies of groundwater) to water bodies which are already subject to exemptions under Article
1967 4(4) or 4(5). This question is not relevant for exemptions under the second limb (new sustainable
1968 human development activities) since it only applies to deterioration of surface water bodies from high
1969 to good status, for which there is no need to consider the application of exemptions under Article 4(4)
1970 or 4(5).

¹⁰⁴ See chapter 8.3.2 of CIS Guidance Document No. 4: [https://circabc.europa.eu/sd/a/f9b057f4-4a91-46a3-b69a-e23b4cada8ef/Guidance%20No%204%20-%20heavily%20modified%20water%20bodies%20-%20HMWB%20\(WG%202.2\).pdf](https://circabc.europa.eu/sd/a/f9b057f4-4a91-46a3-b69a-e23b4cada8ef/Guidance%20No%204%20-%20heavily%20modified%20water%20bodies%20-%20HMWB%20(WG%202.2).pdf)

1971 There can be cases where the application of Article 4(4) or 4(5) exemptions may need to be justified
1972 following the application of an Article 4(7) exemption and modification of a water body. An example
1973 can be to apply an Article 4(7) exemption for a new modification which deteriorates water status,
1974 followed by an Article 4(4) exemption based on natural conditions since it takes the ecosystem longer
1975 to recover although the necessary mitigation measures to reach good status are implemented (see
1976 also chapter 3.3.1 in this context). Similarly, in case Article 4(7) is applied for an alteration to the level
1977 of groundwater, exemptions according to Article 4(4) or 4(5) will have to be justified in the following
1978 river basin management planning process according to their distinct conditions and reviewed every 6
1979 years. Therefore it can be reasonable to ensure coherence between the required assessments and
1980 tests under Article 4(7) and the required assessments according to Article 4(4) or 4(5).

1981 Take note that the application of Article 4(7) exemptions on water bodies which are subject to Article
1982 4(4) or 4(5) exemptions does not obviate the need for measures to improve status. The drivers and
1983 pressures that underpin the application of Article 4(4) or 4(5) still need to be addressed what may or
1984 may not be influenced by a new modification for which an Article 4(7) exemption is applied.

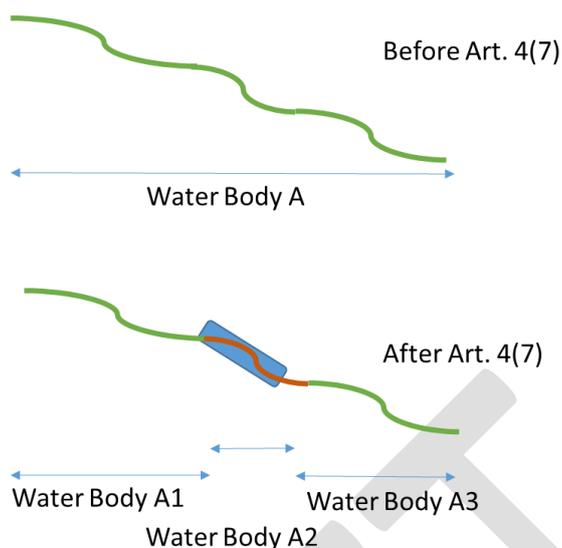
1985 Inter-relations with existing pressures from other uses on a water body need to be considered. A
1986 typical example could be a water body where an Article 4(4) exemption is applied due to nutrient
1987 pollution from agriculture (for a phased implementation of measures taken by the polluter addressing
1988 the existing pressure) and at the same time an Article 4(7) exemption is applied for a new modification.
1989 Generally the impacts of nutrient pollution may not be affected but in some cases, and depending on
1990 the nature of the new modification, it may actually make impacts of pollution worse (e.g.
1991 hydromorphological changes that affect the capacity of the ecosystem to absorb nutrients). Therefore,
1992 it should be considered how mitigation measures for a new project can be combined and interact with
1993 other measures necessary to improve status (e.g. a fish ladder combined with morphological
1994 measures for habitat recreation and ecological flow requirements).

1995 **5.5.4 Change in water body delineation and/or typology due to an Article 4(7) exemption**

1996 Once the project is implemented, a change in water body delineation might be required (for
1997 subsequent RBMPs). According to CIS Guidance Document No. 2¹⁰⁵, physical features (geographical
1998 or hydromorphological) that are likely to be significant in relation to the objectives of the Directive
1999 should be used to identify discrete elements of surface water. It further makes clear that HMWBs
2000 should be designated as single water bodies. In other words, depending on the water body size before
2001 the application of Article 4(7), a further split into water bodies might be needed. For the water bodies
2002 that result from the split, a reassessment in terms of objectives and exemptions is needed, considering
2003 what was applied in the previous RBMP.

¹⁰⁵

<https://circabc.europa.eu/sd/a/655e3e31-3b5d-4053-be19-15bd22b15ba9/Guidance%20No%20-%20Identification%20of%20water%20bodies.pdf>

2004 **Figure 7: Changing water body designation due to the application of Article 4(7)**

2005

2006 In cases where water bodies are grouped, such a grouping might not be longer possible after a
 2007 modification has taken place as the criteria for grouping (contiguous elements of surface water within a
 2008 type are of the same status)¹⁰⁶ will not be longer given.

2009 Note that the need for an update of the typology might also stem from measures for the improvement
 2010 of water body status, e.g. by re-introducing natural processes (e.g. removal of a sluice, re-introducing
 2011 tidal processes) leading to a change of the water body type.

2012 **5.5.5 Article 4(7) in a transboundary context**

2013 Transboundary coordination is a key issue for international river basins and addressed by the WFD.
 2014 Article 3.4 outlines that “*Member States shall ensure that the requirements of this Directive for the*
 2015 *achievement of the environmental objectives established under Article 4, and in particular all*
 2016 *programmes of measures are coordinated for the whole of the river basin district. For international*
 2017 *river basin districts the Member States concerned shall together ensure this coordination and may, for*
 2018 *this purpose, use existing structures stemming from international agreements*”.

2019 This is of particular relevance in cases where a proposed project requires Article 4(7) assessments for
 2020 water bodies which form the border between two countries, where the water body is crossing the
 2021 border, or where the proposed project might cause transboundary impacts in more than one water
 2022 body. Practical examples might be flood protection measures, hydropower plants or water abstraction
 2023 from transboundary groundwater bodies. In such cases the Member States concerned need to
 2024 coordinate the Article 4(7) Applicability Assessment as well as Article 4(7) Test, ensuring that
 2025 common/coordinated procedures, thresholds and methodologies are used. Bilateral and multilateral
 2026 transboundary river basin commissions might act as facilitators of such coordination¹⁰⁷.

¹⁰⁶ See Guidance document number 2, available at: <https://circabc.europa.eu/sd/a/655e3e31-3b5d-4053-be19-15bd22b15ba9/Guidance%20No%20-%20Identification%20of%20water%20bodies.pdf>

¹⁰⁷ See also the UNECE Convention on the Protection and Use of Transboundary Watercourses and International Lakes and the UN Watercourses Convention in that context.

2027 **6 OUTLOOK AND FOLLOW-UP**

2028 The guidance aims to further clarify different aspects in relation to the practical application of
2029 exemptions to the environmental objectives according to WFD Article 4(7). While many issues gained
2030 in clarity and understanding, the constraints of the CIS process are also recognised, since for many
2031 aspects no "one-size-fits-all approach" can be elaborated in the frame of the CIS, requiring more
2032 specific attention, methodologies, tools and suitable approaches at Member State level.

2033 Therefore, the practical application of the guidance would benefit from further follow-up activities,
2034 potentially covering a range of topics. These can include for instance the following:

- 2035 • Exchange on experiences with assessments whether a planned project is expected to cause
2036 deterioration or jeopardize the achievement of the WFD objectives (Applicability Assessment);
- 2037 • Assessments of the cause-and-effect relationships between modifications/alterations and
2038 different quality elements;
- 2039 • Exchange of practical experiences on aspects related to the Article 4(7) Test itself, e.g.
2040 exchange on mitigation measures for different modifications, assessing alternative options,
2041 weighing of interests/overriding public interest, etc.;
- 2042 • Strategic planning approaches for different sectors and linkage to the WFD and Article 4(7)
2043 assessments, including sector-specific workshops;
- 2044 • Streamlining of assessments with other Directives;
- 2045 • Administrative settings at Member State level for project authorisation.

2046 The CIS process can provide an appropriate framework for such potential follow-up activities.
2047 Therefore some of these issues may be given specific attention when developing the next CIS work
2048 programme. However, it may also be explored whether other coordination mechanisms and supporting
2049 tools might provide opportunities for a continued follow-up exchange and capacity building.

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2054 **ANNEX A: Comparative overview table WFD, HD, EIA and SEA Directive**

Legislation	WFD 2000/60/EC	Habitats Directive 92/43/EEC	EIA Directive 2011/92/EU	SEA Directive 2001/42/EC
Aims of the procedure	<p>The Directive aims at maintaining and improving the aquatic environment. The Directive requires that Member States implement measures to prevent deterioration of the status and to achieve good status of all water bodies.</p> <p>The planning of "new modifications" requires the carrying out of an assessment of the impacts on the status of the affected water bodies. If the new modification is liable to cause deterioration or prevent the achievement of good status, the competent authority needs to ensure that the conditions of Article 4.7, but also 4.8 and 4.9, are met before granting the project authorisation.</p>	<p>The Habitats Directive aims to contribute towards ensuring biodiversity through the conservation of natural habitats and wild fauna and flora. It requires Member States to take measures to maintain or restore habitats and species to a favourable conservation status, including through the establishment and conservation of sites (SCIs and SACs) for the Natura 2000 network. The Birds Directive 2009/147/EC contains similar provisions for wild birds. SPAs classified under the Birds Directive form part of the Natura 2000 network.</p> <p>Art. 6 of the Habitats Directive lays down the requirements for the management and protection of the Natura 2000 sites. Art. 6(3) and (4) establish a procedure for the assessment and authorisation of plans or projects that may affect Natura 2000 sites. The aim to maintain the integrity of the Natura 2000 sites and the overall coherence of the network.</p>	<p>To ensure a high level of protection of the environment and of human health, through the establishment of minimum requirements for the environmental impact assessment of projects.</p> <p>Hence, Member States shall adopt all measures necessary to ensure that, before development consent is given, projects likely to have significant effects on the environment by virtue, inter alia, of their nature, size or location are made subject to a requirement for development consent and an assessment with regard to their effects on the environment (Article 2(1)).</p>	<p>To provide for a high level of protection of the environment and to contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to promoting sustainable development, by ensuring that, in accordance with this Directive, an environmental assessment is carried out of certain plans and programmes which are likely to have significant effects on the environment (Article 1).</p>
Types of developments covered	<p>Any project and activity that can lead to deterioration or otherwise affect the status/potential of a water body. Article 4(7) allows under certain conditions for exemptions for new modifications to the physical characteristics of a surface water body, alterations to the level of a groundwater, or new sustainable human development activities.</p> <p>Even if certain projects are not covered by the EIA Directive, Article 4(7) may apply. The determining factor is whether the project is liable to cause deterioration of the status/potential of the affected water bodies or prevent the achievement of good status/potential.</p> <p>Some measures to improve status may fall within the scope of the EIA Directive and hence require an EIA (e.g. urban waste water treatment plants).</p>	<p>Any plan or project likely to have adverse effect on a Natura 2000 site</p>	<p>Projects listed in Annex I, EIA Directive.</p> <p>Annex II projects determined on a case by case basis and/or through thresholds or criteria.</p>	<p>All plans and programmes and their modifications: (a) which are prepared for agriculture, forestry, fisheries, energy, industry, transport, waste management, water management, telecommunications, tourism, town and country planning or land use and which set the framework for future development consent of projects listed in Annexes I and II to the EIA Directive or (b) which, in view of the likely effect on sites, have been determined to require an assessment pursuant to Article 6 or 7 of the Habitats Directive. Other plans and programmes (P/P), P/P for the use of small areas at local level or minor modifications to P/P determined on a case by case basis and/or by specifying types of P/P.</p>
Screening	<p>No specific prescription, however, the step of the Art. 4(7) process where it is determined whether a new modification/alteration/new sustainable human development activity may affect water body status/potential. If the results of the screening step indicate that no significant effects are to be expected, there is no need to carry out further assessments.</p>	<p>The step of the Art. 6(3) process where it is determined whether a project or a plan is likely to cause significant effects to a Natura 2000 site, either alone or in combination with other plans and projects, corresponds to what is commonly called "screening procedure". If the results of the screening step indicate that no significant effects are to be expected, there is no need for an AA to be carried out.</p>	<p>Annex I of the EIA Directive lists projects for which the EIA is mandatory. For projects listed in Annex II of the Directive, the Member States have to determine if an EIA should be undertaken, based on the characteristics of the project; through a case-by-case examination and/or setting thresholds or criteria⁷. This is known as "screening procedure". The screening have to take into account the criteria set in Annex III, i.e. the characteristics of the project; its location, and the characteristics of the potential impact.</p>	<p>Identify whether a plan or programme is a "plan or programme" as defined by Article 2(a) and whether it is likely to have significant environmental effects (Article 3(4)). If the answer to both of the above is "yes" then the plan or programmes will require SEA.</p>

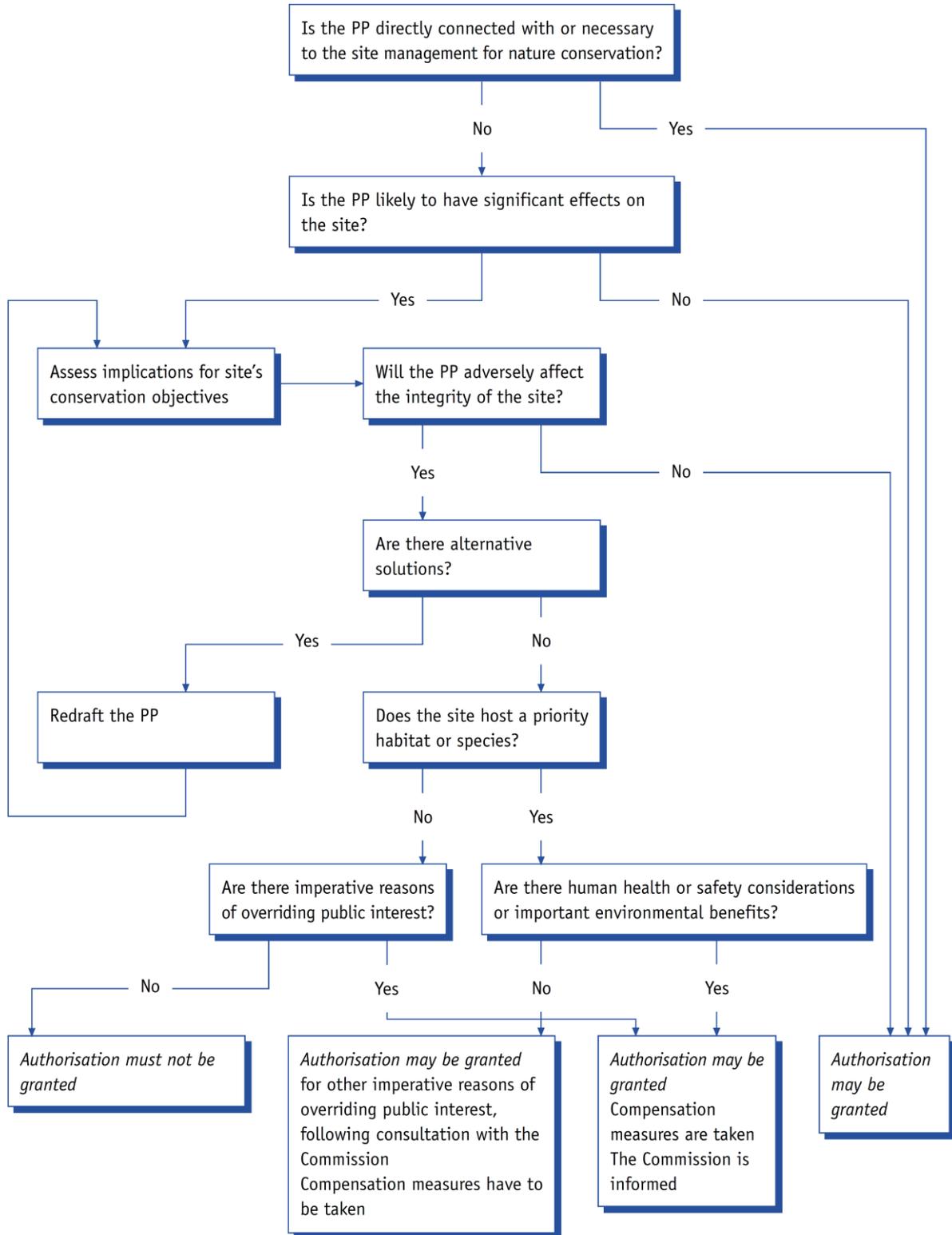
Legislation	WFD 2000/60/EC	Habitats Directive 92/43/EEC	EIA Directive 2011/92/EU	SEA Directive 2001/42/EC
<p>Scope and level of detail of the environmental information</p>	<p>No specific prescription, however, scoping aims to identify the assessments which are needed to determine the effects on water body status/potential at quality element level.</p>	<p>Although not explicitly mentioned, scoping is accepted as good practice and aims to precisely identify the issues that the AA should cover, as well as the appropriate information to gather.</p>	<p>Scoping is not mandatory, but accepted as good practice.</p>	<p>Mandatory requirement to consult designated authorities on the "scope and level of detail of the information which must be included in the environmental report"(Article 5(4)).</p>
	<p>Information is needed about the status of the quality elements that form the definition of ecological status (e.g. fish, macroinvertebrates, etc.) and the potential impact of the project on those. This is the first assessment that needs to be carried out, to assess whether the project may deteriorate status or prevent the achievement of good status. If this is the case, then the project cannot be authorised unless the conditions in article 4(7) are fulfilled.</p> <p>In Article 4.7 it is indicated that it is necessary to demonstrate that the beneficial objectives served by the modifications or alterations of the water body cannot for reasons of technical feasibility or disproportionate cost be achieved by other means, which are a significantly better environmental option. Those means or alternative solutions could involve alternative locations, different scales or designs of development, or alternative processes. Alternatives should be assessed in the early stages of development and at the appropriate geographical level against a clear view of the beneficial objectives provided by the modification. For projects under its scope, the use of the requirements of the EIA Directive can help to assess the different possible alternatives.</p> <p>Additional conditions are that the project is of overriding public interest (similar concept as used in the Habitats Directive) or that the projects benefits outweigh the impacts of not achieving the WFD objectives.</p> <p>In addition, all practicable mitigation measures need to be included in the project. Again the EIA procedures can be helpful to identify adequate mitigation measures.</p> <p>It is important to realise that the WFD is only concerned about permanent impacts at water body level, whereas the EIA also deal with local impacts of temporary nature.</p>	<p>If it cannot be excluded, following the screening, that the plan or project will have a significant effect on the site, an Appropriate Assessment is required. The focus of the AA is on the conservation objectives of the site, which relate to the species and habitat for which the site was designated. (NB: Although the HD does not specify the content of the AA, this is clarified through relevant Commission guidance drawing on Court rulings). All kinds of effects, including cumulative, have to be assessed. Any possible mitigation measures (e.g. in relation to location of the project, timing of operations, construction method, etc.) can be considered in the context of the AA so as to avoid adverse effects on the integrity of the site.</p> <p>In case of a negative conclusion of the AA, the provisions of Art. 6(4) may apply and they define key elements to be considered (alternative solutions, imperative reasons of overriding public interest, compensation measures). (NB: These elements are clarified in relevant Commission guidance on Article 6 of the Habitats Directive. The examination of alternatives does not fall within the scope of Article 6(3) but within the scope of Article 6(4) (C-441/03, C-241/08).</p>	<p>The environmental impact assessment report to be provided by the developer for a project should include a description of reasonable alternatives studied by the developer which are relevant to that project, including, as appropriate, an outline of the likely evolution of the current state of the environment without implementation of the project (baseline scenario), as a means of improving the quality of the environmental impact assessment process and of allowing environmental considerations to be integrated at an early stage in the project's design (Article 5(d), Annex IV, EIA Directive as amended).</p>	<p>The environmental report shall be prepared and it shall identify, describe and evaluate "reasonable alternatives taking into account the objectives and the geographical scope of the plan or programme" (Article 5(1)).</p>
<p>Public participation and consultation</p>	<p>One of the conditions of article 4(7) is that the reasons for the project are specifically set out and explained in the river basin management plan, which is compulsory subject to a 6 months public consultation. This provision allows consultation of the project in the context of the plan, which enables the assessment of interactions with other</p>	<p>Not obligatory in the context of decision making under Art. 6(3) but encouraged ("if appropriate").</p>	<p>The authorities likely to be concerned by the project by reason of their specific environmental responsibilities or local and regional competences are given an opportunity to express their opinion on the information supplied by the developer, and on the request for development consent.</p> <p>The public shall be informed electronically and by</p>	<p>The draft plan or programme and the environmental report shall be made available to (i) the authorities which by reason of their specific environmental responsibilities are likely to be concerned by the environmental effects of implementing the plans and programmes and (ii) the public. The</p>

Legislation	WFD 2000/60/EC	Habitats Directive 92/43/EEC	EIA Directive 2011/92/EU	SEA Directive 2001/42/EC
	new projects and existing water uses in the basin.		public notices or by other appropriate means. (Article 6(1)-(2)). The public concerned shall be provided with access to the information described in Article 6(3) (a)-(c) within reasonable time-frames. The public shall be given early and effective opportunities to participate in the environmental decision making procedures.	authorities and the public shall be given an early and effective opportunity within appropriate time frames to express their opinion on the draft plan or programme and the accompanying environmental report before the adoption of the plan or programme (Article 6 (1)-(2)).
Decision-making	The environmental objectives are binding for plans and projects. This means that if a new project is liable to cause deterioration of status or prevent the achievement of good status in the affected water bodies, the authorities are bound to refuse the authorisation unless the conditions in article 4(7) are fulfilled.	The results of the AA are binding, i.e. the competent authorities can authorise the plan or project only if the AA concludes that it will not adversely affect the integrity of a Natura 2000 site. However, if the AA concludes that adverse effects cannot be ruled out, the competent authority must be satisfied that all conditions set out in Article 6(4) are met (there are no alternative solutions, there are imperative reasons of overriding public interest, compensation measures for damage have been found to ensure coherence of the Natura 2000 network. In that case the Commission must be informed, and, in specific circumstances, give an opinion.	The objective of an EIA is to describe the potential environmental impacts of a project, to ensure that results of consultations and information gathered during the EIA process is duly taken into account in the decision making process and to inform of the final decision taken. (Article (8), (8a) and (9)).	The environmental report, the opinions expressed and the results of any transboundary consultations, shall be taken into account during the preparation of the plan or programme and before its adoption or submission to the legislative procedure (Article 8). When a plan or programme is adopted Member States shall ensure that the authorities which by reason of their specific environmental responsibilities, the public and any Member State consulted in a transboundary consultation are informed and the information described in Article 9(1) (a)-(c) is made available.
Monitoring	The WFD includes the requirement to establish monitoring programmes for the monitoring of water status in order to establish a coherent and comprehensive overview of water status within each river basin district (Article 8 and Annex V).	Considered good practice. In particular, monitoring of the mitigation or compensation measures will be important to ensure their effectiveness with regard to their objective (respectively no adverse effects on the integrity of the site, or maintenance of the coherence of the network).	Member States shall ensure that the features of the project and/or measures envisaged to avoid, prevent or reduce and, if possible, offset significant adverse effects on the environment are implemented by the developer, and shall determine the procedures regarding the monitoring of significant adverse effects on the environment. The type of parameters to be monitored and the duration of the monitoring shall be proportionate to the nature, location and size of the project and the significance of its effects on the environment. Existing monitoring arrangements resulting from Union legislation other than this Directive and from national legislation may be used if appropriate, with a view to avoiding duplication of monitoring. (Article 8a(4)). Where appropriate the monitoring measures shall be incorporated in the decision to grant development consent (Article 8a (1)(b)).	Member States shall monitor the significant environmental effects of the implementation of plans and programmes in order, inter alia, to identify at an early stage unforeseen adverse effects, and to be able to undertake appropriate remedial action” (Article 10(1)). The Environmental Report shall include “a description of the measures envisaged concerning monitoring” (Annex I (i)). Monitoring allows the actual significant environmental effects of implementing the plan or programme to be tested against those predicted. It thus helps to ensure that any problems which arise during implementation, whether or not they were foreseen, can be identified and future predictions made more accurately. As good practice monitoring can be integral to compiling baseline information for future plans and programmes, and to preparing information which will be needed for EIAs of projects.

2055 **ANNEX B: Flow chart of the Article 6(3) and 6(4) procedure of the Habitats**
 2056 **Directive**

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CONSIDERATION OF A PLAN OR PROJECT (PP) AFFECTING A NATURA 2000 SITE



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