

water for life and livelihoods

Consultation Response Document to the
draft Anglian River Basin Management
Plan

We are the Environment Agency. It's our job to look after your environment and make it **a better place** - for you, and for future generations.

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The Environment Agency. Out there, making your environment a better place.

Published by:

Environment Agency,
Kingfisher House, Goldhay Way, Orton Goldhay, Peterborough.
PE2 5ZR
Tel: 01733 464508
Email: enquiries@environment-agency.gov.uk
www.environment-agency.gov.uk

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Key outcomes

Water is central to our lives and livelihoods in Anglian region with close links to our health and prosperity. As well as being important for people and our economy, many of the rivers, lakes and coastlines across the Anglian river basin district are internationally important because of the vulnerable or rare wildlife and habitats they support.

Our consultation on the draft River Basin Management Plan generated 1,300 individual comments from a mixture of organisations and interested individuals reflecting the region's diversity. All the comments have been reviewed and taken into account during the development of the plan. This statement of response provides further details on the key points raised and how the Environment Agency has dealt with the comments received.

We engaged with over 900 individuals, representing a broad cross section of interests and organisations. The responses contained a mixture of support and challenge for the draft plan. Many of the comments received were common to all the draft River Basin Management Plans in England and Wales and a number of key themes emerged:

- Size and presentation of the draft plan
- Level of ambition in the first cycle i.e. how many of our waters will be improved by 2015
- Queries on our assessment of the health of water bodies – the fisheries classification in particular
- The need to engage a wider range of sectors, organisations and people in the delivery of the plan
- The need to secure funding for those unfunded measures (scenario C) that were included in the plan
- The need to present a clear view of the links between all the different legal requirements that apply to the water environment and how these link to other plans

The success of the River Basin Management Plan is reliant on people and organisations delivering actions to improve the water environment. We were pleased that so many organisations recognised that delivering the River Basin Management Plan will require new ways of working together and that they volunteered information on current and proposed projects.

We would like to thank everyone who took the time to make a contribution to the consultation. We look forward to working together to deliver the Anglian River Basin Management Plan and improving our water environment.

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Correction 15/10/09 – 3 Organisations added to list of respondents

1 Introduction

The Water Framework Directive¹ (WFD) establishes new and better ways of protecting and improving rivers, lakes, groundwater, transitional (where freshwater and sea water mix) and coastal waters. The WFD is based on a continuous six-yearly cycle of planning, action and review called River Basin Management Planning.

The WFD and River Basin Management Planning specifically encourages the active involvement of everyone in planning for, and delivering, a better water environment.

Draft River Basin Management Plans

On 22 December 2008 we published the draft Anglian River Basin Management Plan for consultation. The plan set out detailed proposals for improving the water environment for the next six years and beyond. It described the main issues for the Anglian river basin district and highlighted key actions proposed for dealing with them. Supporting annexes to the main document gave more detail on the current state of waters in the river basin district, the actions proposed and the mechanisms that can be used to progress these actions.

We worked closely with the Anglian River Basin District Liaison Panel to develop the draft River Basin Management Plan and promote the consultation. The liaison panel includes representatives of businesses, planning authorities, environmental organisations, consumers, navigation, fishing and recreation bodies and central, regional and local government, all with key roles in putting the plan into action.

This public consultation ran from 22 December 2008 until 22 June 2009. Responses from the consultation will be used to further develop the River Basin Management Plan and its delivery. The River Basin Management Plan will be published on 22 December 2009.

In the Anglian River Basin District we actively promoted the consultation to interested parties in the following ways:

Press and media

- Published a public notice of consultation on 22 December in the Eastern Daily Press
- Articles in trade and professional publications

Publications

- Published the draft River Basin Management Plan online on the Environment Agency's website at www.environment-agency.gov.uk/wfd. This website address was actively promoted on all relevant literature and through stakeholder's websites.
- Over 2000 regional WFD leaflets were produced and distributed. Sector specific leaflets were also produced for workshops and individual meetings.

Sector and catchment workshops

- Held a series of major workshops on both a sectoral and catchment basis from February – March 2009.

¹ Further information on the Water Framework Directive is available at www.environment-agency.gov.uk/wfd

Meetings

- Organised one to one and group meetings in order to respond to specific points of interest
- Given presentations at meetings for professional bodies and individual organisations as requested.

2 List of respondents

The table below shows which National and Regional organisations/interest areas responded. Data protection prevents naming individuals who have not given permission for their details to be made public.

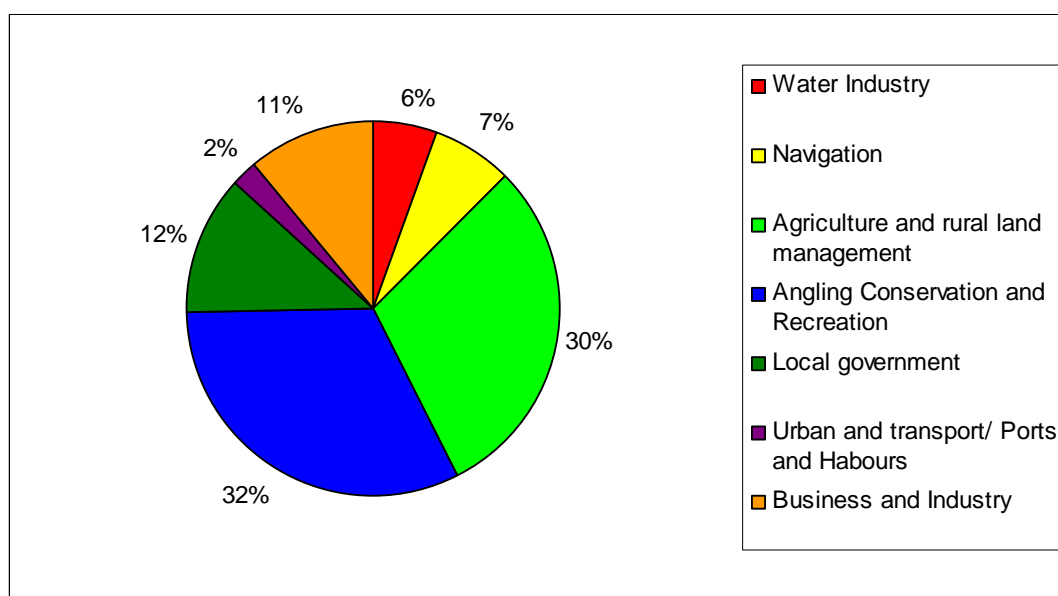
Figure 1: Organisations that responded to the Anglian River Basin District Consultation

Sector	Organisation
Agriculture and rural land management	The Ely Group of IDBs
	East of England Agriculture Workshop
	Central Association of Agricultural Valuers
	Cropwise LTD
	East Suffolk water Abstractors Group
	L F Papworth Ltd
	Jordans
	Middle level Commissioners
	Place UK
	Witham 3 rd Internal Drainage Board (IDB)
	Forum for Sustainable Farming
	Forestry Commission
	Sco Ruston Farms
	RJ & AE Godfrey
	Elveden Estate Farms representative
	North Level IDB
	Witham Fourth IDB
	East Norfolk and North Walsham National Farmers Union
	Stutton Farms
	Colks Farm
	Swaffham IDB
	Littleport and Downham IDB
	Welland and Deepings IDB
	Forum for Sustainable Farming
	Bedford Group of Drainage Boards
	Linking Environment and Farming (LEAF)
	Farming and Wildlife Advisory Group (FWAG)
	National Farmers Union
	Country Landowners Association
	Crop Protection Association
	Black Sluice IDB
	Bradenham Hall Farm
	Lakenheath IDB
	Middle Fen and Mere IDB
	Old West IDB
	Sutton Farms
	Crop Protection Association
	Lincolnshire Wildlife Trust
	Willow Brook Fly fishers
	Wildlife Trusts of Essex, Suffolk, Norfolk, Lincolnshire, Hertfordshire, Bedfordshire, Cambridgeshire, Northamptonshire and Peterborough
	East Midlands Biodiversity Partnership
	Natural England
	National Trust
	Royal Society for the Protection of Birds

Angling, Conservation and Recreation	<p> Cambridge Preservation Society East of England Environment Forum British Dragonfly Society Friends of the River Shep Wensum Valley Trust RSPB Our Rivers Campaign Natural England Inland Waterways Association Riverfly Partnership British Association of Shooting and Conservation Wild Trout Trust World Wildlife Federation River Nene Regional Park Angling Trust Woodland Trust Association Of Rivers Trusts Lincolnshire Chalk Streams project East of England Biodiversity Forum Wildlife Trust River Mel Restoration Trust Biodiversity Forum Gloucester Angling Club Angling Trust Marston Vale Trust Lincs. IWA BPEX Blueprint for Water Buglife National Federation of Fisherman Organisation Salmon and Trout Association Sea fish Industry Authority Shellfish Association of Great Britain The British Association for Shooting and Conservation Great Ouse Boating Association (GOBA) </p>
Business and Industry	<p> Aggregate Industries Association of Electricity Producers East of England Businesses Group Crop Protection Association British Hydropower Association British Marine nPOWER Coal Authority Environmental Industries Commission Royal Institution of Civil Engineers (RICE) Applegate Industries Crop Protection Association Lancaster University Royal Institution of Chartered Surveyors (RICS) Country Land and Business Association </p>

Local Government	Leicestershire County Council East Midlands Regional Assembly St Osyth PC Boston Borough Council East Lindsey DC Broadland DC North Herts DC Suffolk Coastal DC Luton Borough Council Essex CC New Romney Town Council Highways Agency Huntingdon DC
Navigation	Royal Yachting association Cams Conservators Essex Waterways Ltd (Chelmer and Blackwater Canal) Harwich Haven Authority Broads Authority British Waterways Inland Waterways Advisory Council Associated British Ports Canoe England
Urban and transport	British Ports Association Renaissance Bedford Port of London Authority
Water industry	British Ports Association Renaissance Bedford Water UK Anglian Water Services Water Management Alliance OFWAT British Water

Figure 2: Pie chart to show respondent break down by sector



3 Number and types of responses

A range of methods were used to enable organisations and individuals to give their comments on the draft River Basin Management Plan. These are described below:

Online system

An electronic questionnaire was available online alongside the main consultation document, annexes and other supporting information. We received 47 responses via the online system. These were from 28 organisations and 19 individuals.

Responses via email letter

We received 87 e-mails (7 via the 'Our Rivers' campaign environmental non-governmental organisations in April 2009), which was set up by a group of environmental NGOs in April) and 8 letter responses to the consultation. Many of these responses were from representative sectoral organisations on behalf of their wider membership. Some responses followed the set questions that were asked in the main consultation document and others choose to focus on the areas that were important to them.

Consultation queries

There were 23 queries and requests for information about the consultation, received by letter and email. They required clarification or specific data were provided in order to allow informed responses to be submitted.

Local workshops

Regionally, we held 11 primary workshops, which were split on a sectoral and catchment basis. Initially we sent out over 800 invitations and around 300 attended. The main purpose of these workshops was to inform people about the Water Framework Directive and explain how River Basin Management Planning works, in terms of the current position for the Anglian region, and looking forward to 2015. We also felt it was a good opportunity to show people how they could engage with the consultation and navigate through the document.

The workshops were split into two parts, the first gave delegates a chance to consider measures currently proposed in Annex C for their sector/catchment and suggest any new measures that may be appropriate, or inform us of any measures currently listed under Scenario C, which could be moved to Scenarios A or B. The second session gave us the chance to ask delegates how they might be able to help us engage effectively with their sector and to "get the message out".

Briefings and workshop reports are available on request. Section 5 tells you how to contact us.

Other meetings

Following the primary workshops we held a series of 29 focussed workshops; small group meetings and teleconferences. These were aimed at tackling more specific questions and providing any necessary additional information. Professional organisations such as CIWEM, RTPI, ICE and RICS received presentations and more targeted workshops

We have also issued over 2000 leaflets some of which have been distributed by our Regional Stakeholders and Liaison Panel members. Information has also been distributed to all our statutory Committee Members and all County Libraries have been provided with pamphlets and CD copies of the full plan. Organisations such as Association of Drainage Authorities (ADA), National Farmer's Union (NFU), Great Ouse

Boating Association (GOBA) and ENCAMS have published articles in their monthly newsletters and magazines with links to the consultation.

In addition to this, we have received 23 requests for information.

All appropriate new measures suggested by respondents have been included in the Plan. All ongoing measures have also been included. Suggested future measures have been noted for later cycles of river basin management planning. All other queries and comments have been logged and included where appropriate.

4 Summary of responses and action we will take

Over 1200 responses were received to the 11 River Basin Plan for England and Wales. There were 1300 separate comments received on the draft plan for this River Basin. The following pages set out our responses to the comments received. We have summarised the responses under topic areas and present the action we have taken or will take through the first plan cycle in relation to these topic areas.

The consultation asked the following questions.

This plan sets out objectives for the water environment for the next six years and beyond. To what extent do you agree with what we are planning to achieve?

1. Do you agree with the assessment of problems in water bodies? What would you change?
2. Do you agree with the proposed objectives? What would you change?
3. For some water bodies we have proposed objectives with deadlines after 2015 or a lower overall target. Do you agree with these changes? What would you change?

This plan sets out the actions required to meet the objectives. To what extent do you agree that the right actions have been identified (actions that are proportionate and feasible)?

4. We have followed a process to assess (appraise) these actions. This process is described in detail in Annex E. Do you agree with how we have done this?
5. What comments do you have on these actions? Are there any actions that have been missed, or any changes you'd propose?

There are some extra actions that could be put in place if there was more certainty they would be effective. These are listed under scenario C, and we would like to know if you can help to make these actions happen.

6. What comments on Scenario C actions do you have, including any additional information you can supply about specific actions?
7. What support can you offer, such as undertaking any actions or providing resources, to help deliver more for your environment?

Other comments you may have on this plan

8. Do you agree with our assessment of how climate change will affect the pressures on the water environment? What would you change?
9. What other comments do you have on this draft plan?

Some respondents used these questions to structure their response. However most did not. We refer to the question numbers where relevant in this section, but it was not possible to provide simple statistics as to the number of people who agreed/disagreed with each question.

Responses received

Overview of main national issues raised by stakeholders and our response

The Environment Agency is extremely pleased with the interest shown in the consultation on the draft River Basin Management Plan. We were impressed with the numbers of people who attended the various meetings and discussions we and co-deliverers organised during the consultation period. We appreciate the number of people who showed interest in the future of their water environment by taking the time to submit their responses to the consultation.

The draft River Basin Management Plan consultation set out a number of questions that we suggested to help those interested to focus on key issues. We believe it is evidence of the care that respondents have for their water environment that most chose to comment on the issues important to them, rather than the questions we had laid out.

Whilst many respondents told us what they would like to see changed in the draft plan, more comments were actually questions about how the planning process worked and how the details of the plan had been developed.

Whilst the Environment Agency sets out here the changes it has made as a result of the responses, we also wish to acknowledge the desire for more background information on what is not just the Environment Agency's plan but one belonging to society as a whole.

This may make the discussion of responses received lengthier than we might have envisaged. As a brief overview of the responses, and how they have influenced the plan, a brief summary of the main issues is as follows:-

Readability and Accessibility of the Plans

The draft plan consultation was primarily focussed at the strategic level, looking for comments on the overall improvement of water bodies. Many respondents wanted to comment in detail on proposals for individual water bodies, of which there could be more than a thousand in an individual river basin district.

The plans have been substantially modified to improve their readability, eliminating much replication but maintaining a level of clarity on the expectation from delivery sectors. The focus of activity will turn to the water body level when delivery of the plan starts. When looking at a single water body, it will be possible to present information (both map and data) in a more expansive way than will ever be practicable in a River Basin Management Plan covering many hundreds of water bodies.

From December 2009 there will be further improvement to local map information available on the 'What's in your backyard' (WIYBY) section of the Environment Agency Website.

Clearer information on individual water bodies is now presented in the main water body annex (Annex B) with National Grid Referencing to give another way of navigating.

Ambition of environmental outcomes

Release of the draft plan for consultation was accompanied by a letter signed jointly by the Department for Environment, Food and Rural Affairs (Defra), the Welsh Assembly Government and the Environment Agency that was open about the desire to increase ambition and asked other co-deliverers to come forward with their offers. Whilst useful local initiatives have been identified, unfortunately there have not been any additional measures sufficiently large enough to raise the status class of any individual water body.

The Environment Agency has worked hard to ensure we are capturing the full potential of available measures in the plan. This has involved harnessing a great deal of local knowledge to consider the potential for improvement at water body level. Defra has made available an additional £10million in 2009/10 that is being used to improve environmental outcomes, prevent deterioration and lay the foundations for future improvement.

Defra/Welsh Assembly Government have indicated that a number of additional measures are likely to become available during the first river basin planning cycle as long as the appropriate legislation can be secured. These include:-

- Hydromorphology - Defra is aiming to provide the Environment Agency with powers to carry out work to ensure that the physical characteristics of water bodies are such that they are capable of supporting the target ecological status. This will include a duty for flood and coastal erosion risk management authorities to exercise their functions so as to secure Water Framework Directive requirements. Both aspects have been consulted on in the Floods and Water Management Bill consultation and were supported by an overwhelming majority of respondents who commented on the proposals. Amendments will also be made to the Water Resources Act to enable Water Protection Zones to be used to address pressures on hydromorphological conditions such as habitat destruction and remobilisation of sediment, such as might be caused by inappropriate dredging.
- Water Protection Zones (WPZs) -Where voluntary measures do not achieve the required improvement in water quality under the Water Framework Directive, the intention is to use regulation in the form of WPZs. WPZs will be used to tackle both agricultural and non-agricultural diffuse pollution. The Environment Agency is currently developing "proof of concept" WPZ candidate sites. These may or may not develop into full WPZs, depending on the level of evidence gathered. Defra is running a WPZ sectoral working group with key stakeholders (NFU, eNGOs, ports and navigation, local authorities, small businesses and water companies). The group will discuss the statutory guidance that is being developed by Defra to the Environment Agency, and the designation process of WPZs, evidence required, local information, consultation period and Impact Assessment. The number of WPZs that will be used, will be based on an assessment of the impact voluntary measures have had, and the evidence required to justify the use of a WPZ.
- Sustainable Drainage Systems - A proposal in the Floods and Water Management Bill consultation requires that all new developments and redevelopments (both domestic and commercial) include sustainable drainage systems (SUDS) for the management of surface water. SUDS mimic natural drainage and help manage surface water flood risk, as well as improving water quality, by naturally filtering water, and providing amenity. Developers will seek

approval for drainage systems from a SUDS approving body, to ensure that they meet a set of National Standards before a connection to the surface water or combined sewer can be given. SUDS built to National Standards will then be adopted by the SUDS approving body, and maintained on an ongoing basis to ensure they continue to operate effectively. If the bill is approved, SUDS legislation is expected to come into force in 2011.

- **Misconnections** - Misconnections occur when a drainage pipe is connected to the wrong type of sewer, for example when a foul drain is connected to a surface water sewer, or a surface water drain connected to a foul sewer. Misconnections can overload sewerage systems and cause pollution. Defra estimate that 300,000 households are currently misconnected, this will rise to 500,000 by 2015. Currently only local authorities can remedy misconnections, water companies must liaise with local authorities to rectify misconnections nationally that they have identified. The Floods and Water Management Bill consultation proposed to give sewerage companies similar powers to local authorities, making it cheaper and easier to fix misconnections. If the bill is approved, it is expected that the misconnections clauses will be introduced in 2011.
- **Phosphates in Domestic Laundry Detergents** - Defra are proposing to ban the sale of domestic laundry detergents containing more than 0.4% of phosphates. Phosphates cause eutrophication, and a ban will be an important step in improving water quality by reducing phosphate pollution at source, supporting the polluter pays principle. A consultation on a ban received widespread support from industry as it provides a level playing field. If a ban is introduced, Defra are looking at a commencement date of 2015, providing industry with an adequate period of time in which to adapt their processes.

It has not been possible to evaluate the impact of these measures at water body level, but the Environment Agency has a goal of achieving an additional two percent of surface waters at Good Ecological Status (GES) by 2015, to reflect in part the availability of these measures.

Implementation of the plan will be led by the Environment Agency at the catchment level. A variety of methods for working with local co-deliverers and stakeholders will be explored, but it is a confident expectation that by working together with all the co-deliverers and sectors involved and viewing the catchment as a whole ultimately the ambition that is contained in the plan as of autumn 2009 is likely to be exceeded.

High proportion of water industry actions

River Basin Management Plans are not restricted to measures purely driven by the new requirements of the WFD. Pulling together the total effort on water environment improvement over the next six years, they also incorporate the substantial improvements arising from the requirements of pre-existing Directives. Earlier Directives were very much aimed at dealing with point source discharges, which are predominantly the responsibility of water companies. One of the main pressures needing attention, to move more water bodies towards achieving Good Ecological Status (GES), is phosphate and again water company discharges are an important source. This combination of work needed to fulfil commitments to older Directives, and phosphate releases from sewerage systems explains the high contribution required from water companies in the first cycle.

There are of course other sources of pollutants. Phosphate and agricultural chemicals are particularly important in England. Funded by Defra, the Environment Agency, working alongside Natural England, has a major programme of investment in advice to the farming community on sound, sustainable farming techniques through the England Catchment Sensitive Farming Delivery Initiative. Given the necessary time for improvements to have an impact on environment quality, this will eventually help to reduce the impact of farming activities. If, in certain locations, after voluntary initiatives have been attempted and insufficient progress towards Good Ecological Status (GES) and Good Ecological Potential (GEP) is made, firmer regulatory mechanisms such as Water Protection Zones will be available to enforce the required progress, and once piloting of mechanisms has proved their effectiveness, the Environment Agency is committed to their use.

With these introductory remarks we now examine the responses in more detail.

Note – we have laid out the following analysis thus:

- **Summary of comments received in consultation responses on a particular subject**

Our response to these comments, what we have changed, explanation of actions etc...

4.1 Principles and general direction

There was general support for the aims of the River Basin Management Plan and Water Framework Directive, and what we set out to achieve.

There was recognition for the scale of the job in putting this draft plan together, and praise for the Environment Agency's efforts within the river basin district to engage stakeholders.

4.2 Presentation and structure

4.2.1 Readability of the plan

- **Consultation Response** *The main document was broadly welcomed, but there was concern over the accessibility of the annexes and technical language used. It was felt that whilst there was necessarily a lot of detail there, it was not easy to find the most relevant information. Some respondents requested a briefer, more manageable plan. Others requested more information.*
- **Consultation Response** *Respondents asked for greater use of diagrams and tables to explain the statistics in the main document. Particular information was requested on reasons for failure to achieve good status and key measures proposed to address them. The need to show improvements that will happen to particular elements within 'good status' was also identified.*

The Draft River Basin Management Plans set out a strategic approach to environmental improvement at the river basin district scale and presented information at the more detailed water body level. This was a difficult task. The draft plan consultation was primarily focussed at the strategic level, looking for comments on the overall improvement of water bodies. Many respondents wanted to comment in detail on proposals for individual water bodies, of which there could be more than a thousand

in an individual river basin district.

We have substantially modified the plans to improve their readability, eliminating much replication, whilst maintaining clarity about the expectation from all sectors to play their part in delivering the actions. We have shown key improvements more clearly and more prominently in the document.

In response to the consultation we have expanded the description of issues and outlined the solutions at a catchment scale. This explains what will be achieved, what the issues are, their causes and sources, the practicable remedies and the challenges remaining for subsequent cycles.

Where appropriate information will be provided separately from the plan in more 'user-friendly' leaflets, update of 'What's in your backyard' (WIYBY), water body summary sheets, online presentation with case studies, measures and objectives in spreadsheets for usability.

- **Consultation Response:** *Headline messages were requested in the main document text regarding costs and benefits.*
- **Consultation Response:** *Respondents often identified other plans and processes that could assist with improving waters, and asked for greater clarity on the relationship with river basin management planning.*

We have included a short section within the main document titled 'costs and benefits of taking action'. A more detailed analysis is contained in the Impact Assessment made available alongside the plan.

We have created a new annex (Annex J) that identifies where and how relevant policies, planning processes, management processes, programmes, initiatives and methods are being aligned to deliver more sustainable outcomes for the water environment. Some of the main messages from this annex have also been incorporated into the main document.

4.2.2 Accessibility of information at the water body level

- **Consultation Response:** *Several respondents commented on the accessibility of information and data, especially at the water body level.*
- **Consultation Response:** *Some felt that the 'What's In Your Backyard' (WIYBY) tool used to help respondents access water body level information was difficult to use and did not hold the same data as Annex B for each water body.*
- **Consultation Response:** *Comments were received regarding the maps in Annex B. It was felt these were not clear enough to be able to identify some water bodies with certainty.*

The attempt to show so much background information in the plan, which is required by the Water Framework Directive itself, may well have led to confusion for the reader. Detailed water body information was presented in a variety of annexes, and the lack of correlation between the annexes is a frequent comment from respondents. We have now provided clearer information in the main water body annex (Annex B), with National Grid Referencing to allow another way of navigating through the Annex B

tables. When the plans are published in December 2009 we will have changed the order in which the water body tables appear in Annex B so that as far as is possible, adjacent water bodies appear next to each other. We have now provided better linkage between annexes and more information on the reasons for decisions, particularly the choice of alternative objectives as set out in a completely revised Annex E.

The ability to link information in the plan and its annexes to map based information has been a continuing dialogue throughout production and consultation on the draft plan. We have made digital geo-spatial information more freely available to co-deliverers than it was at the start of the consultation. Interactive map information for the general public will continue to be based on the "What's In Your Backyard" (WIYBY) section of the Environment Agency's website. We have recognised difficulties in interpretation of water body information in this system because of the presentation of background map information. We will improve the display of River Basin Management information when WIYBY is updated in December 2009.

As delivery of the plan starts, the focus of activity will turn to the water body level. When looking at a single water body, it will be possible to present information, both map and data, in a more expansive way than will ever be practicable in a River Basin Management Plan covering many hundreds of water bodies.

For those experienced in data manipulation more detailed spreadsheet information will be available to download from the Environment Agency website following publication of the plan in December 2009. Also, in December, hyperlinks throughout the online published plans will improve navigation around the documents.

4.2.3 Specific Anglian RBD consultation responses

We received 30 comments relating to the presentation and structure of our draft Plan. On the whole these were concerning the size and accessibility of the draft River Basin Management Plan. The general consensus was that the document was rather formidable and too large to comment on meaningfully.

In addition, respondents considered that it was difficult to obtain detailed information on specific water bodies; that there was insufficient data on estuaries, coastal waters and canals and that there was an absence of clear detail on key processes such as the identification of AWB/HMWB; the assessment of Good Ecological Status; identification of costs and actions, and the determination of extended deadlines

We have also received comments questioning the statistical significance of the data in the plan given that many rivers had not yet been assessed.

More specific points included:

- **Consultation Response:** *"The scale of plan provided in the report and the numbering system make it difficult to determine actions required on specific local water bodies. It is suggested that each water body is given a unique number that is used throughout the report. The numbering system needs to make identification straightforward, possibly by being linked to sub-catchments."*

For the implementation of the plan measures will be associated with specific water bodies. However, the format of the plan does not permit this level of detail. Linkages and numbers will be corrected for the first plan.

- **Consultation Response:** *“In the catchment tables compliance and improvement is inconsistently quoted in terms of water body numbers, water body length, and undefined percentages. One of these should be adopted and kept to throughout. Maybe percentage of water bodies by length.”*

In the plan the presentation of the data has been amended.

- **Consultation Response:** *“Where the significant issues have been listed on page 13, it may be useful to provide an assessment of the proportion of water bodies in the district failing to achieve good status due to each pressure. This would help to provide some clarity on which elements are causing the most failures and need prioritising for action. There also needs to be more clarity in what key measures are proposed or have been considered to address the main areas for failure.”*

It is not possible to allocate water body failures to issues without further investigation. Failure due to specific elements, rather than issues have been identified and included in the plan.

- **Consultation Response:** *“Alien species should be amended to invasive non-native species.”*

The plan now uses this more correct term

- **Consultation Response:** *“The information contained in Annex B relating to individual water bodies is not detailed enough. To improve clarity more information should be included on which measures have been considered and the reasons for their rejection, why certain measures are deemed technically infeasible, and what further measures or research is planned. It should be clear which elements would be addressed by each measure.”*

Annex B presentation has been improved, however, it is not possible to identify elemental changes for every circumstance at this stage.

4.3 Objectives and ambition

4.3.1 Ambition

- **Consultation Response:** *Some respondents agreed with and supported the proposed objectives and a staged approach to 2027.*
- **Consultation Response:** *Others felt that the level of progress by 2015 was too low to allow confidence that the 2027 targets would be met. They felt that the 2015 target was unambitious and were concerned about how the second and third cycle targets would be met.*

Release of the draft plan for consultation was accompanied by a letter signed jointly by Defra, Welsh Assembly Government and the Environment Agency that was open about the desire to increase ambition and asked other co-deliverers to come forward with their offers. Whilst useful local initiatives have been identified, the consultation did not reveal any additional measures significant enough to improve ambition at the water body, catchment, district or national scale.

The Environment Agency has worked hard to ensure we capture the full potential of available measures in the plan. This has harnessed a great deal of local knowledge, to find improvements at water body level.

Further work during the 6 month consultation on the Draft River Basin Management Plan has secured commitment from Government or third parties to deliver;

- Design and development of Water Protection Zones in England;
- projects to tackle invasive non-native species;
- promotion of best practice for use, disposal and treatment of pesticides;
- an enhanced programme of pollution prevention campaigns and enforcement action
- and an extended programme to implement best practice and remediation at abandoned metal mines is currently underway funded by Defra and Welsh Assembly Government.

Through work with Natural England and the Countryside Council for Wales, measures have now been identified and included in the plan to ensure objectives for Natura 2000 Protected Areas are met for water dependent Special Areas of Conservation and Special Protection Areas designated under the Habitats Directive and Birds Directive.

In cooperation with the Drinking Water Inspectorate and water companies, measures and further investigations are now included in the plan for Drinking Water Protected Areas.

Defra has made available an additional £10M in 2009/10 which is focused on improving environmental outcomes in England. In Wales, all relevant funding streams from the Welsh Assembly Government are being fully utilised. Future schemes, such as the forthcoming Glastir agri-environment scheme in Wales, are being reviewed to ensure that the full benefits for achieving River Basin Management Plan objectives are realised.

Defra and the Welsh Assembly Government, in partnership with the Environment Agency, will continue to develop and identify opportunities for appropriate additional measures to be implemented after the River Basin Management Plans have been submitted and approved.

Implementation of the plan will be led by the Environment Agency from the catchment level. A variety of methods for working with local co-deliverers and stakeholders will be explored. By working together it is hoped that the ambition in the plan will be exceeded.

The information collected during the preparation of the plan, supplemented by the results of investigations over the next few years, will be an excellent foundation for planning and delivering further improvements in future cycles.

Annex E of the plan contains information on additional measures that may yet be possible to put in place during the first cycle, or in cycles 2 and 3. Future plans will need to address those issues where only limited progress is currently possible. This will mean a greater emphasis on addressing the problems of diffuse urban and agricultural pollution, and restoring the physical habitat of the water environment.

Given the scale of improvement required, and the long standing complex pressures on the water environment, for some water bodies it may not be possible to achieve good status by 2027. We are not in a position to identify these particular water bodies yet, but in future cycles greater use of the Water Framework Directive's flexibility to set less

stringent objectives may be needed.

- **Consultation Response:** *Support was given for the inclusion of WFD objectives in the government Public Service Agreement targets and clarification was requested on the progress of this*

The current natural environment Public Service Agreement (PSA 28), which runs until the end of March 2011, contains a water quality headline indicator. This refers to year on year improvement in the biological quality and a year on year improvement in the trend of chemical quality of rivers as reported under the Environment Agency's General Quality Assessment (GQA). It also contains a proxy indicator with regard to the number of water bodies achieving Good Ecological Status. This will be reviewed as a result of the 2009 classification data. Discussions regarding the potential future PSA indicators under the next spending review period and the replacement of the GQA assessment as the headline indicator have started but it is not yet possible to confirm a new target measure.

4.3.2 Specific Anglian RBD consultation responses - ambition

We received 26 comments concerning the ambition of the draft River Basin Management Plan. Many feel our current level of predicted outcome of 7% of water bodies overall and 0% of coastal and estuarine waters to achieve Good Status by 2015 represents a major lack of ambition.

However, there is also an acceptance that the plan needs to be realistic and deliverable. The comment is made that the target is already stretching and needs to ensure steady progress is made to 2027 given the prevailing economic circumstances.

Others recognise that the effects of some measures may not be seen in the first cycle and that prioritisation of actions, monitoring and research and time lag between measures taken and benefits realised will affect achievement.

More specific points included:

- **Consultation Response:** *"The EEBF feels that the plan is not ambitious. The aim of the WFD is to achieve GES in all waters by 2015. We understand from the EA that under the current plan we will see only minimal improvements for 5% of rivers and lakes, but none whatsoever for coastal waters by the 2015 deadline. EEBF has particular concerns in the Broads, really one of the best wetland protected areas in England and the plan envisages that only a further 3 km of river and no further lakes at all will reach target status by 2015."*

We welcomed any suggestions to further improve ambition in the draft Plan. The draft Plan indicated an increase in 51kms river length achieving good ecological status not 3km. There are considerable within class incremental improvements in the Broads and other catchments and following the consultation we expect the published Plan to be more ambitious than the draft.

4.3.3 Protected area objectives and measures

- **Consultation Response:** Respondents were concerned that some protected area (Natura 2000 and Drinking Water Protected Areas) objectives and measures were not yet fully integrated into the plan.

A clear description of the interrelationship between Natura 2000 “Favourable Conservation Status” objectives and Water Framework Directive objectives is now included in Annexes B and D. Measures that have been developed by Natural England and the Countryside Council for Wales, the delivery of which will be overseen by them, are now given in Annexes C and D.

During the consultation period, the Environment Agency has carried out a risk assessment of Drinking Water Protected Areas (DrWPAs). The risk assessment has been informed by water company data, including those provided in Drinking Water Inspectorate returns. Where there is sufficient confidence that deterioration may take place, measures have been proposed and are now given in Annexes C and D. Where a risk has been identified, but confidence is low, the Environment Agency will carry out further monitoring and investigation and propose measures if the risk of deterioration can be confirmed.

4.3.4. Decisions for alternative objectives

- **Consultation Response:** Some respondents asked for better justification of extensions to the 2015 deadline. They felt the plan lacked transparency on why extensions (alternative objectives) had been applied.

At the Environment Agency we accept that the draft River Basin Management Plan provided a lack of clarity and transparency on the decisions made in setting alternative objectives for water bodies.

For the River Basin Management Plan we have:

- set out more clearly the process for using alternative objectives in Annex E;
- provided more information on the reason for failure that has led to the setting of an alternative objective;
- provided more information on what type of action results from the setting of the alternative objective e.g. investigation to identify appropriate measures for future cycles;
- provided more information on the types of measures that may be used to address the problem in future;
- provided a clear link between each water body element not at good by 2015 in the Annex B table with the decision making process, reasons for failure, types of investigation and potential future measure described in Annex E.
- provided information on the appraisal of and justification for alternative objectives set for Surface Water Drinking Water Protected Areas and Natura 2000 Protected Areas in Annex D.

4.3.5 Specific Anglian RBD consultation responses - objectives

71 comments were received focussing on objectives.

Much of the feedback received concerning the objectives of the draft Anglian River

Basin Management Plan has supported our aims and agree that there is the need to improve our understanding of the work that needs to be undertaken before we can judge the realism of the 2027 target.

Some respondents have expressed concern that N2K objectives and their associated measures have not been fully integrated into plan, especially Annex B.

There was an over-riding theme that the level of compliance expected to be achieved by the end of the first cycle is disappointingly low. The 'one out all out' principle of river basin planning leads to a pessimistic view of the water status in the Anglian River Basin District when overall classification of water bodies is viewed in isolation from its detailed components. It was felt that more detailed low level compliance data would help people to understand the issues better.

More specific points have included:

- **Consultation Response:** *"GB105033038080: River Shep. We are not entirely sure how your current assessment of "ecological status" has been reached but are concerned that it may still consider the river as "poor" by 2015. Whilst it is accepted that if the river was in a poor state (as it clearly was 10 years ago) then it would be a huge challenge to improve its status by 2015. However, ForShep have been working hard to properly manage and further enhance the river since 1999. This work has seen a very significant improvement in the visual appearance of the river (such as the diversity in the plant species and a reduction in the amount of filamentous algae) and of its biodiversity (wild brown trout are now present throughout the river's length, a mayfly hatch occurs every year and otters regularly use the river).*

The most recent review of this water body shows all supporting elements will be at Good Status or better by 2015. However, our prediction of fish scores for 2015 is that these will not exceed Moderate Status by 2015.

4.4 Assessment of Issues and Pressures

The main comments made by respondents on the assessment of issues and pressures included the range of pressures covered, the standards used, uncertainty of source apportionment, and access to data and information.

- **Consultation Response:** *There were a range of views regarding the assessment of problems in water bodies. Some respondents agreed with the assessment, or thought that it was broadly right. Others disagreed, as the draft plan did not contain sufficient information about the water bodies they were interested in, or they had a different view of the problems in water bodies.*
- **Consultation Response:** *Some of the issues highlighted by respondents include: road and urban run-off, hazardous substances, river morphology (including dredging), sewage treatment works and combined sewer outfalls, low flow, hydropower, drainage of wetlands, flooding, soils, excess nutrients, sediment, microbiology and future development pressure.*

In developing the draft plan the Environment Agency concentrated on those issues highlighted by Liaison Panels and the results from consultation on Significant Water

Management Issues. These were the pressures considered of greatest significance at river basin district level, matching the strategic nature of the plan. We accept that in individual water bodies, there are likely to be pressures and issues which are not reflected across the whole of a river basin district, but nevertheless are of local significance.

Those interested can see further information about particular water bodies or on risk assessments not presented in the plan, on 'What's in your backyard' on the Environment Agency's website. This contains all the risk assessment results for all water bodies. Detailed method statements for the assessments are also available on the Environment Agency's website at <http://www.environment-agency.gov.uk/research/planning/33238.aspx>.

- **Consultation Response:** *There were some comments questioning the standards used in the risk assessments, and whether they were appropriate to assess the risk of failing good status.*

The standards used include those that will be directed in Defra's "Directions to the Environment Agency on Classification". They are set out and justified in the method statements for each assessment. The method statements themselves were developed using guidance provided by the United Kingdom Technical Advisory Group (UKTAG), a group of technical experts drawn from environmental regulators across the UK. It is also worth noting that the risk assessments by themselves do not drive measures in water bodies, but provide the basis for highlighting potential problems and identifying sources. We will be working through the first and future cycles to improve the assessments using the responses gathered during the consultation, as well as other data.

- **Consultation Response:** *There were many comments referring to the uncertainty over the causes of problems and the subsequent uncertainty over appropriate actions to reduce the risk or impact to the water body.*

There is still substantial work to be done over the first cycle to improve the characterisation of sources and apportionment of pressures and their effect on water bodies. In Annex B it can be seen that there are a large number of water bodies where the reason for failure to achieve Good Ecological Status or Potential is uncertain. We have proposed a series of investigations to improve the confidence of the assessment of status. Several consultation responses have indicated specific areas of concern regarding source apportionment. Work is already underway to start to deal with some of these concerns.

For example:

For **abstraction issues**, we are undertaking investigations to determine the ecological significance of reduced flows where we are uncertain that there is an impact. Without these investigations measures to reduce abstraction could be premature and represent a high risk of being disproportionately expensive.

To this end we will:

- review both the derivation and application of the environmental flow indicators for all water bodies in England & Wales, with the aim of improving them to inform the revisions to the River Basin Management Plan in 2015.
- undertake site specific investigations to determine both the size and biological benefits of increased flows and to justify the need for measures to reduce the

impacts of abstraction.

All these investigations will be included within the Restoring Sustainable Abstraction programme with the WFD as a driver.

On **water quality** issues, we will be working to reduce the uncertainty that remains regarding:

- status assessments using new classification tools
- whether water bodies are adversely impacted, including adequate biological evidence for sites failing nutrient standards
- the predicted outcome of actions to address protected area requirements.
- the relative importance of different sources of pollution
- how much technology can be developed to enable greater water quality improvements
- the cost-effectiveness and benefit of measures to tackle diffuse water pollution
- the long-term impacts of climate change

And we are

- developing the use of national water quality predictive models
- working with United Kingdom Water Industry Research (UKWIR) on a source apportionment project to develop methodology for targeting measures
- working with a range of industries, including the water industry to better quantify releases of chemicals arising from their activities
- undertaking further investigations into phosphates in groundwater, including the development of robust Source-Pathway-Receptor conceptual models.
- developing and refining the conceptual models for groundwater bodies

On **land quality** issues, we are:

- Developing a sediment management framework to put in place appropriate sediment management plan for particular catchments/sub-catchments. A key part of this will be to develop a 'weight of evidence' that sediment is having an impact on the environment. This will draw a variety of evidence together (not just water quality sample data) to justify action to tackle sediment problems, e.g. biological indices and risk assessment data.
- Managing trial catchments for improving the evidence base and testing the effectiveness of mitigation measures for hydromorphology have been identified. These trial catchments are identified under the programme of measures in the first River Basin Management Plan.
- Undertaking improvements in the knowledge and evidence base. For example, improving our understanding of the ecological response to nutrients including the relative importance of soluble and sediment associated phosphates; the implications of this for source control and improving the effectiveness and targeting of measures.

4.5 Monitoring

- **Consultation Response:** *Some respondents felt there was a lack of monitoring on a large number of water bodies and queried why so many were 'unassessed' or 'not requiring assessment'.*

In the draft plan the majority of water bodies were given a status classification. Some of the mitigation measures assessments for heavily modified water bodies were not completed on time, so the overall ecological potential was reported as 'not yet assessed' despite having had ecological assessment. In the first River Basin Management Plan all water bodies have an assessment of status.

The label of 'not requiring assessment' is linked to chemical status rather than ecological status. An ecological assessment is required for all water bodies, but a chemical status assessment is only provided if a known priority substance is being discharged in significant quantities. For example, a water body receiving treated effluent from a town's sewage treatment works will have a chemical status assessment but water bodies in the upper catchment with no significant input of priority substances do not need to have a chemical status assessment.

- **Consultation Response:** *Comments were made on the lack of information on estuaries, coastal waters and canals*

The Environment Agency has developed new monitoring programmes for all types of waters, but there is a wide variation in the historic data we hold from previous programmes. As would be expected, there is a comprehensive archive of chemical monitoring data for inland surface waters, particularly below major point source discharges. At the other extreme, regular monitoring for some biological elements in estuaries and coastal waters only commenced in 2007. Practical considerations mean that there will not be data for all these water bodies until 2010. We have reviewed and realigned our monitoring programmes and with the information others may be able to offer, we will improve status assessments during the first cycle.

- **Consultation Response:** *Clarification was needed regarding what data ranges were used for monitoring.*

For many classifications the data we use to make the assessment is very recent. For example, the monitoring programme for physico-chemistry involves taking samples from every monitoring point twelve times a year, every year. We then use the monthly samples for three continuous years to make assessments – so the physico-chemistry dataset is based on 36 samples from 2006-2008 data. Our survey frequencies for biological monitoring programmes vary from one-in-three to one-in-six years, depending on the quality element we are interested in. We use a cut-off date beyond which the data is regarded as no longer being representative of the current environment. In the plan we are using any suitable data from 2003 to 2008 inclusive

- **Consultation Response:** *A few respondents asked the question about whether the Environment Agency will accept other organisations' data to complement the monitoring programme.*

The Environment Agency welcomes any evidence about the health of the water environment. In most cases this extra information will be most useful when investigating local problems and possibly in designing new monitoring programmes.

So that status assessments are on a level playing field across the UK and the EU most of the classification techniques that the Environment Agency uses are very prescriptive. They require measurements to be conducted in a certain way and data to be held in a specific format. Unless other organisations use the same assessment techniques and apply the same quality assurance measures the data will not be able to be used in status classifications.

- **Consultation Response:** *Information was requested on what the Environment Agency is doing to increase certainty.*

The Environment Agency is carrying out further investigations to determine the causes and sources of the failure to achieve good status. This work is referred to in the plan as Investigations. There are a wide variety of possible investigations. Some may simply involve one of our local environment officers walking the river bank to identify the source of a visible contaminant. Others require more sampling. We can use sophisticated modelling and assessment techniques to establish the reason for water quality problems. Data provided by other organisations can also contribute to our understanding of problems in water bodies. In the plan Annex E states where we need to carry out investigations explains, in general terms, the nature of the investigation.

We are currently in the process of designing our next environmental monitoring programme, which will be implemented in 2010 and run until 2012. We are focussing on collecting biological data where we have reason to believe that good ecological status might be compromised, to give us a better assessment of the extent to which the wildlife living in our water bodies is damaged.

4.6 Classification

4.6.1 Methodology

- **Consultation Response:** *The classification methodology was felt to be very complex and difficult to evaluate, and it was not clear how it accounts for seasonal variations. There were requests for detailed data underpinning the classification and for consultation on any changes to the classification.*

New method statements explaining the approach to classification system have been published on the UKTAG website. The website documents the method behind each classification tool at various levels of detail. Summaries of the methods can be found [here](#), and more detailed reports for our biological tools are available.

The Environment Agency's monitoring and classification systems are designed to remove the effects of seasonal variations from results. For example:

- water quality sampling is carried out on a monthly basis and the data from three consecutive years is used to classify the water body.
- For some types of biological assessments data from spring and autumn surveys is used and an average taken.

Our [classification method statement](#) has more information about the use of data in classifications.

(http://www.environment-agency.gov.uk/static/documents/Research/Classification_Method_Statement_FINAL.pdf)

All the classifications have been reviewed and remodelled leading to a higher confidence level for the plan. This has also included an initial review of groupings; further work will be carried out during the second cycle on groupings

Data used to underpin classification results can be requested from your local Environment Agency office, or through our National Customer Contact Centre on 08708 506 506, or email enquiries@environment-agency.gov.uk.

- **Consultation Response:** *Several respondents raised questions over how the water bodies were delineated*

The WFD water bodies were originally identified, delineated and reported to Europe in 2005. The Environment Agency followed specific rules set out by the Common Implementation Strategy and UKTAG Guidance produced for all water categories. In March 2008 we received a Direction from the Secretary of State for England to add in a number of smaller water bodies of biodiversity significance and we made additions to our river network, lakes, transitional waters and coasts. We are aware that there may be some anomalies that still exist in our water bodies and we will be reviewing the water body network for the second round of river basin planning.

- **Consultation Response:** *Some respondents disagreed with the classifications that were presented and asked whether they could be changed.*

The way in which water bodies are classified brings in a new way of thinking about the environment. In some case there may be a very localised problem within a water body that will not result in the whole water body being downgraded, and in other cases a water body previously judged as healthy may have been downgraded due to the results of new biological assessments. The Environment Agency welcomes information to identify gaps in our knowledge and to help us design future monitoring programmes. We have updated the classifications recognising the comments made during the consultation and the new assessments are reported in the River Basin Management Plan. These assessments make use of results from surveys conducted in 2008 and are based on modification to some classification assessment techniques.

We aim to control as many sources of error as is possible in the classifications. Precision and accuracy of laboratory instrumentation, variations in survey techniques, location and time of survey, frequency of sampling and calibration of our models are all potential sources of error. Because some degree of error always remains we have decided to report the level of certainty we have in the classifications. In Annex B of both the draft and first plans show how certain we are that a water body is failing to achieve good status is described. Future monitoring will be targeted at those water bodies where we are currently uncertain about the true status.

- **Consultation Response:** *Some respondents had issues with the standards used – whether the phosphate standard was too high, or too low; and whether the nitrate standard for drinking water was correct, for example.*

We have produced classifications and used environmental standards in line with the proposed Ministerial Directions on environmental standards and classification of water bodies. These were subject to a separate consultation (consultation on Directions to the Environment Agency on Classification of Water Bodies October to December 2008). These in turn were based on UKTAG guidance documents, themselves subject to consultation. There were consultations on 2 phases of environmental standards and one on classification.

4.6.2 Fish classifications

- **Consultation Response:** *There have been a number of comments about the accuracy of the fisheries classification in the draft plan, even to the extent of suggesting that the system needed to be completely redesigned.*

The Fisheries Classification Scheme (FCS2) is explained in the method statements. It assesses the biological status of rivers on the basis of the abundance of 23 fish species, as determined by our survey data.

FCS2 uses fish to classify based on the Ecological Quality Ratio (EQR), a measure of the observed fish community in relation to the expected fish community in a similar river type under reference conditions (without pressures). This EQR is then converted into one of the five status classes required by the Water Framework Directive (WFD).

The expectation for the number of fish at a site cannot be expressed as a single number, but is expressed as a probability distribution of possible values. This distribution is described in terms of the prevalence (the probability that the species will be present) and average abundance (at sites where the species is present).

The FCS2 model is then used to predict what fish community would be expected for a given river type (defined by the environmental variables and geographic location) under reference conditions.

For each species, the observed number of fish is compared to the model. The difference between observed and expected status is expressed as the probability (0 – 1) of getting an equal or lower numbers of fish at a comparable reference site. Some species are naturally scarce or patchily distributed even under reference conditions, and will provide a less sensitive indication of ecological quality.

The probabilities for each individual species are converted to a combined probability for all species at the survey site. The outcome is called an Ecological Quality Ratio (EQR), which is assigned to one of 5 ecological quality classes.

The results of the rivers fish classification for the first River Basin Management Plan are often markedly different to those presented in the draft River Basin Management Plan. The reason for these differences is due to changes in the FCS2 model and in the data used to produce the classification listed below.

- Additional environmental and pressure variables have been added to the model
- Sites upstream of natural barriers to fish migration have been identified and predicted fish communities adjusted accordingly
- Class boundaries for determining the status of water bodies have been modified to bring them in line with the normative definitions of status
- Survey data from 2003 to 2008 have been used to generate the classification
- Inappropriate survey sites and data have been removed from the classification results

4.6.3 Artificial and Heavily Modified Water Body Designation and Classifications

- **Consultation Response:** *There were several comments on the lack of transparency around identification of Artificial and Heavily Modified Water Bodies and their subsequent classification*
- **Consultation Response:** *Respondents asked for greater clarity between Good Ecological Status and Good Ecological Potential.*

Artificial and Heavily Modified waters (AWB/HMWB) have been identified and designated using nationally available datasets. These datasets provide information on both direct modifications to water bodies (e.g. presence of modifications for flood protection purposes using the national flood and coastal defence database, NFCDD) and on wider catchment scale pressures (e.g. areas of intense urbanisation derived from wider land use datasets).

The designation process detailed in Annex I looked at modifications that affect the whole water body. Considering the size and number of water bodies and available data it is not currently possible to provide detail of individual modifications in every water body.

Assessing the status of a water body was difficult particularly from the hydromorphological perspective. Relevant data is owned and collated by a number of external organisations. These external organisations differ in their ability to make relevant hydromorphological pressure data available for consultation. The Environment Agency has started a project to develop a centralised and fully supported database for all morphological data.

For the plan, all designations and classifications have been reviewed by local Environment Agency staff familiar with each water body and where possible, they have been discussed with other local bodies such as Internal Drainage Boards and the Broads Authority.

Good Ecological Status is an evaluation of the status of waters as indicated by the condition of a number of 'quality elements' (none of which can be more than slightly altered from their reference, or natural, conditions). In contrast, to assessment of the quality of the water, Good Ecological Potential is assessed by considering whether a series of mitigation measures that minimise the impact of the use of the water body are in place.

We are working with stakeholders to improve the understanding of the appropriateness of mitigations measures, and will undertake trials to assess their effectiveness. This will enable us to focus on implementing those measures where we have high confidence that they will deliver improvements to biological quality elements to bring our assessment of Good Ecological Status and Good Ecological Potential closer together.

In response to requests from some respondents, the Environment Agency is currently developing an easy guide for the HMWB designation and classification processes, similar to the classification method statement which will be available shortly.

- **Consultation Response** *A few respondents raised concerns over ownership of water bodies and responsibility for consequent measures where they were no longer in use for the purpose they were historically modified for.*

It is not always possible to identify who should take action to achieve the objectives in relation to morphology. This is especially difficult where the structures were constructed legally under a different statutory regime, perhaps even under requirements of Government; and/or where the ownership or use of the structure has changed over time. As many past damaging activities were delivered and funded through legally compliant schemes in place at the time, and as it is difficult to identify responsible parties, it is unlikely that reliance on the 'polluter pays' principle will deliver the extent of restoration works necessary. The Environment Agency is currently working with Defra to identify possible solutions to this issue.

- **Consultation Response:** *Concerns were raised regarding specific thresholds used as part of the designation process being applied to future management of water bodies and potential impacts on fish stock cultivation*

A 15% cultivation spatial cover rule was used as part of the designation process. It is not intended to form a threshold for limiting fishery activity in non-designated water bodies. If fishery activity expands in a water body to an extent where deterioration in status might occur, then the increased activity would be subject to WFD Article 4(7) tests on deterioration in order to ensure directive compliance.

- **Consultation Response:** *Respondents requested that actions regarding easement of fish passage need also to be included for Heavily Modified Water bodies.*

Where water bodies have been designated as AWB/HMWB for one of the following uses: water storage and supply, inland navigation, flood risk management, land drainage, urbanisation or coastal flood protection and had an impassable structure in place then the following mitigation measure: 'Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works' would be required for the water body to reach GEP

4.6.4 Specific Anglian RBD consultation responses

124 comments were received regarding water body assessments and classification. Many agree with the current water body assessments and information available at the time the assessments were made. However, there have been requests for and explanation of how classification will improve as new data is added to the plan.

General issues include the problem of water bodies that have yet to be assessed and therefore the lack of data available to give accurate responses on their current classification. Specifically, this issue has been highlighted by the Broads Authority in relation to the Broadland rivers and lakes.

The majority of comments received regarding water body classification are concerned with the designation of water bodies as artificial or heavily modified and the reasons for that designation.

- **Consultation Response:** *"We recognise that the protection, improvement and sustainable use of water is especially key for the Anglian River Basin District due to its susceptibility to flooding, vulnerability to climate change and low levels of rainfall. The challenge of ambitious housing growth targets will also apply additional pressure on our water resources. All of these issues need to be addressed in order to meet future commercial and societal needs over the life of the Anglian River Basin Management Programme and beyond."*

We recognise the importance of the linkage to spatial planning is important and it is clarified in the Plan.

4.7 Actions

- **Consultation Response:** *Many respondents welcomed the range of actions in the plan and the emphasis on local detail and projects.*
- **Consultation Response:** *There were many comments, particularly from those connected to the water industry on the predominance of actions to be funded by water companies and questions as to whether this complied with the Polluter Pays Principle.*

The River Basin Management Plan draws together the total effort on water environment improvement over the next six years and incorporates the substantial improvements arising from the requirements of pre-existing Directives. Earlier Directives were very much aimed at dealing with point source discharges, which are predominantly the responsibility of water companies.

One of the main classification elements needing attention, to move towards more water bodies at Good Ecological Status, is phosphate and water company discharges are an important source along with losses from agriculture. This combination of work needed to fulfil commitments from older Directives, and phosphate releases from sewage systems explains the high contribution required from water companies in the first cycle.

Nutrient and chemical losses from agriculture are particularly important in England. Funded by Defra, the Environment Agency, working alongside Natural England, has a major programme of investment in advice to the farming community on sound, sustainable farming techniques. Given the necessary time for changes in techniques to have an impact on environment quality, this will help to reduce the impact of farming activities on water bodies. If, in certain locations insufficient progress towards Good Ecological Status is made, firmer regulatory mechanisms such as Water Protection Zones will be available to enforce the required progress.

The section below on Impact Assessment (4.11) covers economic issues and the burden on the Water Industry

4.7.1 Scenarios

- **Consultation Response:** *Some respondents found the scenarios confusing, and were not sure how Scenario C actions would be included in the plan. Others suggested changes to the scenarios for some actions.*

The first volume of Ministerial River Basin Planning Guidance required the Environment Agency to include in each draft plan a “do nothing” scenario (setting out the baseline if no action was taken for Water Framework Directive purposes), and a small number of other scenarios describing alternative approaches. In developing the first scenario, it became apparent that a title of “do nothing” gave a very inaccurate impression of investment, particularly from the water industry, that was required to achieve compliance with existing Directives. We therefore decided to simply name this “Scenario A”. In line with the guidance, two further scenarios, “B” and “C”, were developed.

Scenario A included actions that were already planned to achieve improvements to the water environment. They were based on existing or secured measures, such as water company schemes included in their current investment programmes and future planned water company measures as required by the Urban Waste Water Treatment Directive and the Habitats Directive plus national level actions such as Catchment Sensitive

Farming and pollution prevention campaigns. This scenario included a range of actions to ensure no deterioration, a challenge in itself.

Scenario B included all the measures in Scenario A plus additional measures driven by the WFD alone. These additional measures included those at a national level those with a national framework, but with regional targeting such as the extension to the Catchment Sensitive Farming work and those at river basin district level such as measures to work with local authorities to ensure no deterioration in status. These were justified in the draft River Basin Management Plan on cost/benefit grounds and largely included measures where we are confident there is a delivery mechanism or a potential funding source.

Scenario C included Scenario A and Scenario B and measures likely to be cost-effective and proportionate, but where we were not as certain as to their effectiveness or likely benefit (or there was no certainty about funding).

The plan itself does not have scenarios. As required by Ministerial Guidance, the plan sets out “only one approach to the implementation of the WFD in the river basin district” – giving “everyone concerned with the river basin district a degree of certainty about the future of water management in the district” Not all scenario C measures have been incorporated into the plan, but we have done so where we have reasonable confidence that they can be delivered.

4.7.2 Confidence for Action

- **Consultation Response:** *Concern was raised that where there was uncertainty about the deliverability of measures, particularly those in Scenario C they were not going to be included in the plan*

For the degree of certainty required by Ministerial Guidance it is clear that the plan must be based on measures that are clearly defined, practicable and with a clear delivery mechanism. In other words, the plan cannot contain “wish lists” of ideas for which there could be little certainty about actual delivery. We must be clear that a water body is not a good status. We must also be clear that measures are based on reasonable certainty that the problem causing a water body not to achieve good status has been identified and that the measure proposed will actually address the problem. This is the approach that has been adopted in developing the plan.

In Annex E of the plan we have indicated what future actions may take place later in the first cycle or in future cycles when we have more certainty that they are required and can be applied in an effective way. This Annex also contains information on where alternative funding mechanisms have been considered.

- **Consultation Response:** *There was support for the emphasis on investigations in the first plan, in order to avoid unnecessary disproportionate expenditure. There were mixed opinions about the requirement for 95% certainty, some respondents felt it could prevent action taking place, others agreed with a cautious approach to setting of objectives and defining the programme of measures. Clarification was needed between confidence of classification and confidence for action.*
- **Consultation Response:** *There was a request for percentage confidence to be provided, rather than expressed as ‘low, medium, high’.*

Many aspects of water quality are highly variable in space and/or time. It is not possible to monitor all parts of every water body all the time (even if practical, the money would be better spent on making improvements to the water environment) and this leads to statistical uncertainty in classification. The Environment Agency calculates this uncertainty and expresses it in terms of our confidence that the water is in a particular class, or better than a class

Sometimes our expression of confidence will be based on corroborative evidence as well as statistical analysis. This is particularly important for instance when managing water bodies vulnerable to nutrient enrichment. The way in which different water bodies respond to nutrient enrichment can be complicated. Sometimes we find that the water body does not meet the required standard for a nutrient but the biological community shows no sign of damage. In such situations it would be misleading to say we are very certain that the water body is at less than good status. In other situations, the water body does not meet its standard for nutrients, and the nutrient sensitive biological elements – the diatoms and macrophytes – also show signs of damage. The result for each element on its own merit may have low precision and therefore low confidence. But the fact that all elements suggest the same thing – that there is an impact – means that we become more confident there is a problem, so we override the statistical confidence from each test and say that, overall, we are very confident there is a problem and can consider corrective action.

It would be wrong to impose high costs on those who would have to make improvements in cases where we have not been able to determine failure with confidence. In such cases we need to do more monitoring first.

There is no 'one size fits all' rule for determining the point at which we become confident enough to take action. If it is necessary to justify expensive or controversial actions we generally need to be at least 95% confident (or have good supporting evidence as described above for nutrients) that the water is truly worse than the class it needs to be in, or faces deterioration. But in other cases the action we need others to take may be agreed more readily and there will be no need to require a 95% level of certainty.

We have improved the terminology of our classifications in the plan. We now say how certain we are that a water body is less than good status.

- If there is 95% certainty that a water body is at moderate or worse status we say we are very certain that the water body is less than good status.
- If there is 75% certainty we say we are quite certain that the water body is less than good status. We expect this level of certainty to be appropriate in driving most types of action.
- Below 75% certainty we say we are 'uncertain'. Such water bodies are subject to more monitoring so that we can increase our certainty.

To communicate a simple message to users of the plan we do not include an expression of certainty if a water body is at high or good status, although we use our understanding of confidence in the data to drive decisions about future monitoring.

Having determined that there is a real problem to be addressed, we then turn to the need to be reasonably certain that a measure actually delivers the required environmental improvement. This clearly needs to be based on an understanding of cause and effect.

For Heavily Modified Water Bodies in particular we lack the understanding of the most

appropriate mitigation measures to take to maximise environmental improvement; and thereby meet true Good Ecological Potential. There is a clear danger that, without this knowledge, any mitigation measures put in place might prove to be of little value, or even worse have the potential to cause more harm than good. Improving our understanding in this area, through pilot trials etc. is therefore the key measure for the first cycle and our approach to this has been given in 4.6.3.

4.7.3 Assessment of Actions

- **Consultation Response:** *Some respondents disagreed with the outcome of assessments that had been carried out to determine the actions in the plan. They wanted to understand the process of choosing actions, the cost of implementing particular actions and which actions had not been included and why.*

We have revised Annex E (Actions appraisal) to incorporate more detail on the planning process and policy assumptions to ensure transparency of decision making. It includes consideration of technical feasibility and whether costs are disproportionate.

The annex makes clearer how the process has been used to identify actions to achieve the objectives of good status or good potential for this plan cycle. Where these objectives are not possible for this plan cycle the process shows how alternative objectives have been identified for each water body and the reason for this, with reference to disproportionate costs and technical feasibility.

Where alternative objectives are necessary Annex E considers what types of actions may be needed to achieve good status or potential in the future, with commentary on whether these actions could become technically feasible and proportionate in cost in future plan cycles.

The costs for implementing actions are covered in the Impact Assessments which accompany the plan. The Impact Assessments, use the results from the Preliminary Cost Effectiveness Appraisal (pCEA) undertaken as part of the Defra led Collaborative Research Programme. Cost estimates of actions have also been provided by Environment Agency staff and this has been reviewed as part of the process of moving from draft to final Impact Assessment to improve the quality of the estimates. We have gathered more information on costs but it has been difficult to obtain or attribute all of the benefits information.

- **Consultation Response:** *The relationship between the Water Framework Directive and Habitats and Birds Directives was highlighted. Respondents said the plan should reiterate that where more stringent objectives are required to achieve favourable conservation status in Natura 2000 sites, these should apply. Measures needed to be included to achieve these standards.*

Where Natura 2000 Protected Areas are failing their conservation objectives Natural England and the Countryside Council for Wales have identified the measures that need to be taken to achieve them. These measures are part of a programme of work to achieve the objectives of the Habitats Directive and Birds Directive.

The presentation of the relationship between the status objectives for water bodies (Annex B) with the protected area objectives (Annex D) has been improved in the plan. It is important to note that water body status and protected area objectives are not always directly comparable. Both water body status and protected area objectives may

apply in the same location and it is important to read both the objectives set out in Annex B and D in parallel. For example, where Natura 2000 Protected Areas coincide with water bodies we are aiming to achieve both the required River Basin Management Plan status objectives for each water body as well as the objective for the Natura 2000 Protected Area of Favourable Conservation Status. The introductory text to Annex D sets out this inter-relationship in more detail. The water body tables in Annex B indicate when Protected Area objectives also apply, and the Natura 2000 tables in Annex D indicate if, and if so which, water body they overlap with to help the reader understand the parallel objectives that apply to that site.

- **Consultation Response:** *Some actions were felt to be missing or inadequate, such as those to protect drinking water supplies. These actions would be necessary to reach the targets proposed.*

To repeat text from the earlier section on Protected Area Objectives (4.3.2): During the consultation period, the Environment Agency has carried out a risk assessment of Drinking Water Protected Areas (DrWPAs). The risk assessment has been informed by water company data, including those provided in Drinking Water Inspectorate returns. Where there is sufficient confidence that deterioration may take place, measures have been proposed and are now given in Annexes C and D. Where a risk has been identified but confidence is low, the Environment Agency will carry out further monitoring and investigation, and propose measures if the risk of deterioration can be confirmed.

- **Consultation Response:** *Some felt that the draft plan contained few novel or specific measures, and concentrated too much on existing or planned action.*

There is much work to complete as a result of predecessor directives which has been reported in the River Basin Management Plan. There are extensions to Catchment Sensitive Farming and source controls such as banning phosphates in domestic detergent. It is expected that the specific actions in the delivery plans will exploit innovative techniques and actions. Defra and/or the Welsh Assembly Government are exploring regulations to introduce streamlined Water Protection Zones, to prevent misconnections and deal with sustainable urban drainage and diffuse pollution from urban areas.

- **Consultation Response:** *Questions were raised about how the success of the actions will be measured.*

The objectives for each water body are set out in some detail in Annex B. Measures have been designed, overall, to contribute to the achievement of these objectives (and the objectives for protected areas in annex D) and this will be the main measure of their success.

- **Consultation Response:** *A small number of respondents were concerned that there was a failure to address source apportionment in the plan.*

This is about identifying and allocating a scale to a particular pressure and ensuring the 'polluter pays' principle is adhered to. Having a reasonable understanding of the source apportionment of pressures leading to failure to achieve objectives was an important part of appraising the measures. This is particularly the case where regulatory measures are to be used. Before additional site specific measures are

required to achieve objectives, source apportionment is considered. Without this it would not be possible to assess the effectiveness and therefore the benefits the potential measures would deliver. We agree there is more work needed in this area during the first plan cycle and as our understanding improves this will allow us to justify the use of additional measures.

- **Consultation Response:** *Comments were provided on the actions in the plan in terms of their relevance, the partners required, and on inconsistencies between the main document and the annexes, (Consultation Question 5).*

All the actions included in the plan have benefits for the water environment and for people. The plan includes a range of actions, from those on a small-scale, which are often voluntary initiatives that have benefits locally, through to large-scale and costly actions that benefit whole catchments.

The main document of the plan aims to summarise the extent of action that will take place and to highlight some of the key actions. Annex C (Actions to deliver objectives) specifies the numerous actions that will be implemented in the river basin district during the first plan cycle.

Actions have been included in the plan where assurances have been given that the owners of those actions will carry them out during this first plan cycle. Annex C notes the lead organisations and partners for each action. In some cases actions would benefit from the participation of further partners, and we encourage them to come forward as delivery plans are developed.

- **Consultation Response:** *It was felt that more existing activities should be recognised. Although a few respondents made specific suggestions for new actions or re-prioritisation of actions in the draft, little detail was forthcoming.*

It is agreed that existing activities need to be recognised better in the plan. Specific actions have now been listed in Annex C (Actions to deliver objectives). In other cases they are mechanisms that can be used as a way of implementing a range of specific actions at different locations. These include actions that can be put in place now and those that can be confirmed and implemented during the first plan cycle. These additional mechanisms have been included in Annex F (Mechanisms for action).

We have included further information on how the plan and programmes of other organisations, particularly public bodies, can be used to help in achieving the objectives of the River Basin Management Plan by incorporating these as policies and objectives for their own plans. This information is summarised in the main document and presented in more detail in an additional Annex (Annex J).

- **Consultation Response:** *Some respondents suggested that the appraisal of cost effectiveness of measures to be inadequate and queried why some measures were not assessed.*

Work to understand the cost effectiveness of measures started at a national level through Government work to ensure that a full suit of effective measures were in place to meet the Directive's requirements. As part of this work they developed and consulted on a range of new or amended measures to address issues of diffuse pollution and morphology. This work considered the cost effectiveness of different possible measures.

Working with a range of stakeholders, Defra and the Welsh Assembly Government also lead the Preliminary Cost Effectiveness Analysis (pCEA). This assessment considered:

- what should be done in the first planning cycle using consistent national measures, and what happens if we take longer to meet objectives;
 - the types and costs of measures to be decided at national or river basin district level, reducing the need for further detailed analysis;
 - the overall costs and what is affordable;
 - the role of industry and other organisations in implementing measures;
 - what measures could be ruled in or out of the first cycle from a national assessment.
- **Consultation Response:** *Respondents suggested that measures should be prioritised on the basis of which of them are the most cost effective*

There are many effectiveness attributes. The Collaborative Research Programme on WFD economics identified some 23 such attributes. While some may be more important than others, they all to some extent have an influence on the relative effectiveness of different measures. One of the most important and often overlooked attributes is the availability of cost effective delivery mechanisms. The only instances where the most cost effective set of measures have not been used are where doing so it would have been disproportionately expensive.

- **Consultation Response:** *Some respondents asked for detail about the measures to be taken at the water body level to be included in the first plan, or in supplementary plans.*

It is not possible to include this amount of detail in the main document to the plan. However, where we can unambiguously tie the action to a particular water body we have provided this information, either in Annex C (Actions to deliver objectives) or will be provided it in alternative formats in December 09.

It should be kept in mind that by identifying where the action takes place does not necessarily define where the action will provide its benefits. Actions may have a localised effect within a water body, or could affect a much larger area. For example, all the water bodies downstream of a sewage effluent discharge will benefit from improvement to the sewage treatment works concerned.

- **Consultation Response:** *The request was made for a Catchment / River Restoration Fund similar to that in Scotland which would be accessible to the Environment Agency, local government bodies and the voluntary sector.*

Defra have already undertaken a scoping project to identify options for the development of a catchment restoration fund. These options will be considered with stakeholders with a view to the establishment of a possible fund from within the first cycle

As described earlier, Defra have made available £10M to the Environment Agency, the Association of Rivers Trusts, Natural England and others to deliver Water Framework Directive objectives in England this year. A significant proportion of this will go towards addressing priority measures for hydromorphology i.e. removal of priority barriers to fish and sediment controls.

4.7.4 Specific Anglian RBD consultation responses

In total, we received 426 comments via consultation responses regarding measures and actions in the draft Plan. These comments included general remarks covering national and local actions.

Some examples of the comments received are given below:

- **Consultation Response:** *“Effectiveness of actions is however perhaps one of the most important elements of the plan to understand in order to prioritise resources, particularly where in combination effects of measures would provide added benefits”*
- **Consultation Response:** *“Please give priority to improving our worst waters, making improvements where people live and ensuring there is no deterioration in status in the river basin.”*
- **Consultation Response:** *“We have proposed substantial investment in our business plan which will contribute to meeting the WFD objectives in the first RBD cycle (subject to funding) and previous investment has provided environmental benefits.”*

We agree with these comments, Investment by water companies will contribute significantly to environmental improvements

From our workshops and the responses to the consultation a further 95 local actions have been incorporated into the Anglian River Basin Management Plan.

Examples of these new actions include:

- Inclusion of Eel Management Plans.
- More effective control of invasive non-native species
- Broads Wetland Enhancements as part of The Broads Whole Valley Approach and Living Landscapes initiative to create better wildlife areas in river corridors on a landscape scale in valleys of the Ant, Thurne and Bure; Norfolk: Broads Land Rivers;

35 existing measures have been amended and 7 measures have been deleted following advice from the Wildlife Trust, RICS, IWAC, Middle Level Commissioners, Essex Waterways Ltd and the Cam Conservators.

All offers of assistance have also been welcomed and the Environment Agency would like to thank stakeholders in advance for their help in implementing the Plan.

We received 18 queries regarding the inclusion of Scenario C measures in the RBMP. Listed below are some specific comments and questions and our individual responses.

- **Consultation Response:** *“It is unclear how the list of measures identified in Scenario C were arrived at. There are some quite high profile projects (including some in which the EA are a partner) which have been excluded. Without understanding its sources, it’s difficult to see where the strategic gaps might be. “*

An explanation of the source and use of scenarios in the draft plan has been given in section 4.7.1. Where errors have been found these have been corrected. We are grateful for the partnership working at local, regional and national levels to develop measures to achieve good status in water bodies.

- **Consultation Response:** *“Scenario C contains some of the most ambitious and environmentally beneficial measures. Given the need to raise ambition across the board it would be logical to move some measures into scenario B. In addition there is not enough clarity of information or clear justification for why many of these measures have been placed in Scenario C in the first place.”*

A series of workshops were held for stakeholders to identify measures for the Anglian River Basin District.

- **Consultation Response:** *“The East Midlands Biodiversity Partnership emphasises the need for a strategic effective approach to manage invasive non-native species and believes that the WFD can provide a driver for this. All work relating to invasive non-native species should be prioritised in accordance with the ‘Non Native Invasive Species Framework Strategy for Great Britain’. Where possible (e.g. Mink eradication to protect Water Voles), there is a need to identify clear actions that we are in a position to take forward as soon as possible.”*

We agree with these points. All work will be in accordance with the new strategy.

- **Consultation Response:** *“No activities within fisheries and conservation section relating to river flows and ground water pressures - a major issue for nature conservation in this region.”*

Angling and the conservation sector do not improve river flow, but clearly are affected by the consequences of measures taken to ameliorate problems. Measures are linked to relevant sectors such as agriculture and water industry.

- **Consultation Response:** *“Whilst we recognise the need for contributions from different sectors (p42), we feel that, as the Competent Authority, the EA should be more proactive in taking the lead in identifying lead organisations, the extent and type of pressure, the most appropriate mechanism for action and possible funding mechanisms. EA also have a role as the main co-ordinating bodies in these areas, working with the relevant sectors when necessary”*

Catchment implementation plans will be developed over the next few years. Whilst the Environment Agency and other government agencies can take a key role in leading remedial action many other stakeholders will be engaged in the process and will deliver what needs to be achieved at a water body level

- **Consultation Response:** *“Page 46 refers to additional actions that will happen if this plan is approved (Scenario B), which includes new Nitrate Vulnerable Zones. These are in force regardless of whether this plan is approved so should be included in Scenario A”.*

As discussed earlier in Section 4.7.1 the Plan itself does not now contain Scenarios.

- **Consultation Response;** *“On page 32, under Scenario B, Proposed*

flood alleviation schemes offer opportunities to create new habitat, such as salt marshes through managed realignment of coastal flood defences. There does not appear to be any evidence provided of a link between this and water quality. The Water Framework Directive does not require managed realignment to take place, and to do so would be damaging to food security.”

Water quality is not the only objective for the Water Framework Directive, we also need to consider biological measures and for the biology to flourish we need habitats such as salt marsh.

- **Consultation Response:** *“There appears to be no consideration or even mention of inland/freshwater swimming or bathing within the “Anglian” area, and I suspect the failure is much more widespread. This lawful and healthy activity is undergoing a revival nationally and internationally and yet it is currently actively and, I believe illegally, discouraged by the Environment Agency.*

Any regular user of inland waterways will be aware of the habit of the Environment Agency to erect signs apparently prohibiting swimming where the general right of navigation means that swimming is as lawful as boating. These ubiquitous “No Swimming” signs and the consistent refusal by the Environment Agency to remove or amend them make it clear that the Environment Agency intends to prevent members of the public swimming where they are quite entitled to. In many of these places swimming has traditionally been a popular and safe pastime for a very long time.

The failure of the draft plan even to acknowledge this widespread, popular and legitimate leisure use of waterways is not easily explained and appears quite unjustifiable. In my view the plan should include consideration of measures that would help safeguard swimmers in inland waters.”

The Environment Agency only discourages swimming on the grounds of safety.

- **Consultation Response:** *“Water protection zones must be a last resort and only used where other suitable measures have been tried and shown to have failed. Even Defra stated in their consultation on WPZs saying “ they are a last resort “*

It is agreed that water protection zones would only be proposed where voluntary measures are not achieving the required objectives. No WPZs have yet been identified in the Anglian RBD.

- **Consultation response;** *“I would like to see a system of rubbish collecting dingys used on a regular basis on the rivers. This I believe would be a relatively inexpensive method of reversing the state of the rivers in urban areas”*

The aims of the WFD can only be accomplished by encouraging a more widespread respect for the water environment. This is something we will be working on with the relevant authorities who have responsibilities for rubbish collection and responding to fly-tipping.

Consultation Response: *"I am concerned that actions are too sector focused rather than cross-sectoral. There should be an effort identify win-win situations that occur between sectors."*

The WFD encourages co-delivery. Measures have identified multiple partners and sectors. Where a measure is implemented by more than one sector it is listed multiple times within the plan.

- **Consultation Response:** *"Actions relating to HLS appear restricted to fenland area. Therefore, important areas of HLF targeting such as the Nene Valley appear to be missing from plans."*

Higher Level Scheme and Entry Level Scheme are administered by Natural England who are co-delivers of the Plan. There are a number of incentive schemes available to help facilitate activities that will benefit the water environment and we hope to make the best use of them to achieve the aims of the Water Framework Directive

4.8 Implementation

- **Consultation Response:** *Respondents largely supported the Scenario C actions (Consultation Questions 6 and 7). There was willingness to work with the Environment Agency to implement these actions, and statements about what the respondents could contribute. However, there was little detail provided about how the measures could actually be implemented.*
- **Consultation Response:** *There were offers of help and requests to be consulted on supplementary plans, possibly at the catchment scale. Stakeholders asked how more stakeholder engagement would happen at the catchment level and more local knowledge be used in implementation.*
- **Consultation Response:** *It was felt that the Liaison Panel role should change to focus on implementation. There were some requests to be involved with the Liaison Panel.*

The River Basin Management Plan has been developed following guidance from Defra and the Welsh Assembly Government, and with the advice of Liaison Panels in each river basin district. The Environment Agency has found the liaison panel approach extremely valuable, and will continue to work with them throughout the plan delivery period.

For the next two to three years, the role of the panels will change to monitoring overall progress of delivery, preparing for the second cycle and encouraging river basin district wide initiatives through their sector representative approach. By 2012, work will be starting to develop the second cycle plans.

Whilst the concept of sector representation at river basin district level has generally worked very well, it has become evident that it is not well suited to locally based organisations, notably Local Authorities. Given that delivery of the plan outcomes are focused on "on the ground" activities, it is clear that additional ways of working are needed to ensure maximum involvement and delivery from locally based organisations and people. We will explore ways of expanding the co-delivery concept that has proved so useful at river basin district level at a catchment level. There is an expectation that new, innovative ways of working together will help deliver more for the environment

than we have been able to be capture in the plan.

We will be working to translate 'in principle' support given to measures that were included in the draft plan Scenario C into positive action on the ground, by working closely with partners as we develop the detail of implementation

At this stage the Environment Agency does not wish to be prescriptive about the arrangements to be adopted in each catchment. The only pre-requisites that the Environment Agency would wish to promote would be that an integrated, catchment wide approach is adopted, and that delivery should be carried out in the most cost effective and efficient way. This is very likely to mean a sharing of roles and responsibilities depending on issues and locations. There are clearly administrative support constraints, but it is hoped that, if the delivery arrangements are truly shared, best use should be made of the resources available to co-deliverers as well as the Environment Agency.

4.8.1 Specific Anglian River Basin District consultation responses

4 comments were received regarding the implementation of the plan.

Respondents have emphasised the need for flexibility in implementation plans to take account of future development, planning for growth, and availability of information.

- **Consultation Response:** *"There needs to be flexibility in implementation to allow information gathering and further understanding."*

We will work with co-deliverers to identify the most appropriate solution.

- **Consultation Response:** *"The implementation of the plan needs further consideration so that co-ordination and leadership of the next steps is clear and organised."*

Implementation plans will need be drawn up with co-deliverers, but that should not prevent organisations and individuals contributing their own plans.

- **Consultation Response:** *"The Housing Planning and Transport (HPT) Board of the East Midlands Regional Assembly (EMRA) agree that the water environment plays a key role in the region and that the challenge is for us all to manage the whole water environment. Spatial Planning will affect how urban developments are managed. In the East Midlands we are facing the additional challenge of accommodating new Growth areas and Growth points, with associated development, around the region. There is therefore a need for us to work together to ensure that the objectives and implementation of our respective plans do not contradict, but rather contribute to a shared vision for the region."*

We agree that the Water Framework Directive and Spatial Plans must be closely linked. The Environment Agency and others will work with local authorities to ensure that all relevant actions are identified, prioritised, resourced and implemented.

- **Consultation Response:** *"The Lincolnshire Wildlife Trust is broadly supportive of the draft Plan and recognises the potential benefits that implementation of the Water Framework Directive could bring to our*

aquatic habitats. We are also pleased that the need for partnership working has been highlighted.....”

The Environment Agency is quite clear that partnership working will be fundamental to the success of the Plan.

4.9 Legislation and Water Framework Directive interpretation

- **Consultation Response:** *Many respondents felt that new legislation is required to assist with meeting River Basin Management Plan requirements. There was also a call for the Environment Agency to improve enforcement of existing legislation and be given all necessary legal powers. For instance the Environment Agency should be more willing to use existing powers to tackle diffuse pollution.*
- **Consultation Response:** *There was concern over a perceived reliance on soft, voluntary measures, and a request for a regulatory approach and greater use of new mechanisms such as Water Protection Zones.*
- **Consultation Response:** *It wasn't clear how actions required by other legislation, such as the Water Resources Act will contribute to good status.*

The Water Framework Directive requires member states to have in place “basic measures” for regulation of the water environment. In England and Wales most of these basic measures are already in place through existing legislation – notably the Water Resources Act 1991 and the Water Act 2003.

We have duties and powers to prevent and control pollution. We will continue to use these to set and enforce permits for discharges, to address the risk of pollution incidents, and to tackle diffuse pollution. New conditions in environmental permits will be determined where needed to meet the new River Basin Management Plan objectives and requirements. Our incident and enforcement policy will continue to target action in the context of the new objectives and requirements, whilst conforming to the principles of risk based regulation and the Regulators' Compliance Code.

Parts of the Water Resources Act are being transferred into the Environmental Permitting Regulations regime. These will provide a common platform for the enforcement of offences, and for determining all environmental permits. This will simplify and streamline the overall regulatory process and make it more efficient and effective.

Where we believe our existing powers, or softer or voluntary initiatives, will not do the job we will promote regulatory mechanisms such as Water Protection Zones. We are carrying out a pilot to better understand how Water Protection Zones can be used, and to ensure a streamlined approach to their use in the future.

We are also working with Government on a range of other approaches and the best tools for addressing diffuse pollution. Some of these may be for the targeted use of regulatory powers, such as General Binding Rules. Others will work through market incentives, the specifications of products, community partnerships, and catchment sensitive farming.

The abstraction licensing system set up by the Water Resources Act 1963, and amended in the Water Resources Act 1991 and the Water Act 2003 has generally stood the test of time as a means of authorising abstraction, but has limitations in the ability to review licences. Some currently exempt abstractions such as trickle irrigation, dewatering and navigation, and also areas that are currently exempt from abstraction licensing will be brought into control by regulations under the Water Act 2003. Additional mechanisms such as Catchment Abstraction Management Strategies (CAMS) and Water Company Water Resource Plan are providing the means to assess abstraction impacts and to find solutions where the impacts on the environment are not sustainable.

Many existing abstraction licences were granted in perpetuity, and some have the potential to adversely impact the environment. The Environment Agency has been working on this issue for some time under its Restoring Sustainable Abstraction Programme (RSA), but the legal mechanisms for changing these licences may be protracted, and may require the Environment Agency to pay compensation. Water company abstractions that may have the potential to adversely impact Habitats Directive sites are being submitted to the Office of Water Services (OFWAT) through the water company investment periodic review process (PR09) to fund changes. The cost of changing an abstraction/finding a new source of water are very high and will be borne by the water user. The time to plan and implement these changes may also be long to avoid jeopardising public water supplies.

Defra are consulting on proposals for all abstraction licences to be time limited, which would allow periodic review and changes to be made to abstraction licences

We will also work with Government to promote legislative change to meet the challenges of climate change, growth, and innovation.

- **Consultation Response:** *There were requests for more information on the link between the WFD and the Marine Bill.*

The Marine and Coastal Access Bill (currently passing through Parliament) aims to introduce a new strategic planning framework for the marine environment across England and Wales, underpinned by a UK-wide marine policy statement. The bill includes proposals for a new marine licensing system, marine conservation zones for protection of nationally important species and habitats and in England two new delivery bodies - the Marine Management Organisation (MMO) and Inshore Fisheries and Conservation Authorities (IFCAs). In Wales the devolved functions will be delivered by the Welsh Assembly Government. This new legislation should provide the framework necessary to implement the requirements of the Marine Strategy Framework Directive (for Good Environmental Status) which is complementary with and overlaps with the River Basin Management Plan in coastal waters.

At the coast and in estuaries marine plans will overlap with River Basin Management Plan. We are working closely with Defra, the Welsh Assembly Government and others to ensure that development of the marine policy statement and marine planning guidance is consistent with, and supports delivery of River Basin Management Plan measures to achieve good status. Likewise we are working with Defra and the Welsh Assembly Government to ensure that marine licensing decisions and inshore fisheries management in estuaries and coastal waters will be compliant with objectives of the River Basin Management Plan. The designation of marine conservation zones in these waters provides a further opportunity to contribute to achievement of Good Ecological Status.

- **Consultation Response:** *Respondents enquired how the requirement of Article 4(7) of the Water Framework Directive would be met in plan and how will the new developments be dealt with.*

The WFD requires an assessment of the impacts of all new physical modifications to ensure that they do not cause deterioration in the status of a groundwater body or ecological status or potential of a surface water body or prohibit a water body from meeting its ecological objectives. Article 4(7) sets out circumstances in which failure to achieve certain WFD objectives is permitted. Where a new modification does cause a water body to fail certain WFD objectives but meets a series of tests laid out in Article 4(7) then the modification can be permitted. Article 4(7) has been a requirement since December 2006. Article 4(7) assessments have been carried out for 'new developments' occurring between December 2006 to March 2009 and these are reported in the River Basin Management Plan (Annex B). Just 3 schemes were reported as causing deterioration in status and passed the Article 4(7) tests.

Future physical modifications in water bodies will need an assessment to determine whether they will impact on River Basin Management Plan objectives. The Environment Agency is writing a guide for organizations undertaking developments in water bodies. This will outline how to undertake Article 4(7) assessment to ensure compliance with WFD.

4.9.1 Specific Anglian RBD consultation responses

13 responses were received concerning WFD legislation and Interpretation.

These focus on the need for more effective legislation

Some of the specific comments include:

- **Consultation Response:** *"The Council support most of the relevant actions to the planning process which are inclusion of water efficiency and groundwater protection policies in planning policy documents (LDF, Regional plans etc)"*

Our planning teams will be working with local authorities to ensure that planning documents take into account River Basin Management Plan measures.

- **Consultation Response:** *"I am still concerned that people are not aware how massive and far reaching the Water Framework Directive is and how it will affect all our lives."*

As part of the implementation of the RBMP, individual catchment plans will be put into place, focused at water body level and will include working with partner organisations

4.10 Climate Change

- 4.10.3 **Consultation response;** Respondents supported the outcome of the assessment in Annex H in terms of changes to risks of pressures as a result of climate change and the effectiveness of the identified actions in a changing climate. However they wanted more information on how the Annex H assessment was performed.

- 4.10.4 **Consultation response;** Respondents commented on use of UKCP09 (United

Kingdom Climate Projections 2009) projections and it was mentioned that climate change would need to be considered more in ongoing river basin management and the Environment Agency should set an example in this respect.

Annex H looks at climate change impacts on the pressures, actions and achievement of Water Framework Directive objectives in the River Basin Management Plan. The assessment was qualitative. Measures were screened by considering whether they were likely to be in-flexible or vulnerable to conditions under a changing climate. These assessments were not intended to inform decision making on their own. More robust assessments have been done previously on existing measures and those coming through processes such as the water company investment periodic review process (PR09).

The information presented in Annex H of the draft plan includes UKCIP02 (United Kingdom Climate Impacts Programme 2002) projections and the assessments of pressures and measures were done with these projections in mind. This was the most up to date information available at the time the draft plan was written.

On 18th June 09 the new UKCP09 projections were released. We have replaced the UKCIP02 information with UKCP09 information in a revised Annex H. We have also re-screened the revised set of measures in the River Basin Management Plan with a consideration of this new information.

Respondents identified a number of Climate Change issues which were not listed in the Annex: such as pH changes in seawater. Additional text has been added in the revised Annex H to fill a number of these gaps.

- **Consultation Response:** *It was disputed whether the carbon impacts of measures had been adequately addressed when considering options for action or that the overall carbon impact of the selected programmes of measures had been adequately assessed.*

We have added text into Annex E of the plan to identify how the cost of carbon was included in option appraisal. For the first plan it has only been possible to quantify the carbon costs associated with Periodic Review 2009 water quality measures. This is where we expect the most significant carbon impacts will occur because the actions will include requirements for additional treatment, construction of new works or upgrades to existing work. The majority of other actions are likely to have low impact as they are investigations, partnerships or encouraging best practice management. We agree that for subsequent cycles, the carbon implications need to be adequately addressed to promote low energy measures for pressures.

For overall climate impact of the actions in the plan, the accompanying Strategic Environmental Assessment (SEA) report describes the potential carbon impacts of the programmes of measures. The SEA report identifies the positive and negative climatic effects associated with the actions in the plan.

- **Consultation Response:** *Respondents identified the need to consider broad-scale policy issues in considering priorities between, for instance, water environment objectives and food production or renewable energy*

We agree climate change will need greater consideration as we develop subsequent planning cycles. A great deal of work is going on within government, the Environment Agency and other organisations.

River Basin Management Plan implementation will help target sites that are already at risk from existing pressures, prevent deterioration and improve the ecological condition of the water environment. As highlighted in “Climate Change, Adapting for Tomorrow” this should build resilience into our aquatic systems from the further risks of climate change. There is also the need to use the capacity of catchments to retain water and to release that water slowly to help avoid climate change impacts from floods and droughts.

Defra, (on behalf of the UK Biodiversity Partnership of which the Environment Agency is a partner) has published ‘Conserving biodiversity in a changing climate: guidance on building capacity to adapt’ (2007).

The Welsh Assembly Government has also published ‘Responding to our changing climate’ a consultation on a climate change adaptation action plan for Wales (2007), which outlines impacts expected in Wales and actions needed in response.

These both confirm that conserving existing biodiversity and reducing new and existing pressures should be the core principles upon which we build the climate change adaptation strategy for freshwater ecology.

It is also clear is that we will have to find ways to manage our urban and rural environments to balance the delivery of a multitude of objectives such as food security, renewable energy production and environmental quality.

- **Consultation Response:** *A large number of respondents from a broad spectrum of sectors thought that river basin management should be the focus to restore the natural characteristics of catchments to build resilience to climate change impacts.*

The Environment Agency would generally agree that restoring the “naturalness” of catchments will help protect against the further risk from climate change. To this end we are engaged in the Wetland Vision for England and the Countryside Council for Wales’s similar strategic approach to managing wetlands. Experience gained by partners and ourselves will help to inform work over the first plan cycle.

Actions were already contained the draft plan for England and Wales. In this plan actions are:-

- Barriers to fish passage are one of the big issues affecting the ecology of rivers. This plan’s fish pass programme makes more room by addressing ten priority structures, such as gauging stations, flood gates and privately owned structures like mills. In addition we have planned 50 eel passes across the region. Together they will contribute to the ecological health of several hundred kilometres of river in the Anglian River Basin District. We received about £150k from Defra in 2009/10 to progress the programme.
- We are working in Partnership with Natural England and River Nene Regional Park and Essex & Suffolk Water to deliver Catchment Sensitive Farming advice in the River Nene, Great Ouse and Blackwater and Chelmer catchments. This will help deliver benefits for water quality through reducing diffuse pollution from agriculture and will benefit the quality of water for biodiversity and for drinking, reducing the burden of treatment .

- The River Nar SSSI in Norfolk is one of England's premier chalk rivers with transitions to fenland river. A partnership involving the Environment Agency, the Water Management Alliance, Natural England, Norfolk County Council and Anglian Water are working towards bringing the River Nar SSSI into favourable condition by 2010.

Examples from other plans include:-

- South-West Restoring the Mires on the moors project will restore significant areas of degraded bog and peat habitat. The intended benefits include re-establishing natural stream hydrology and encouraging water retention in the upland wetlands to delay and weaken peak river flows while augmenting low base flows at times of low rainfall. It will also improve water quality benefiting all river life including salmon and trout which are common in Exmoor river headwaters.
- The Sustainable Catchment Management Planning programme (SCAMP) in the North-West which is being delivered by United Utilities and Royal Society for the Protection of Birds. SCAMP is looking to implement land management conducive to meeting SSSI condition and water quality standards. Part of this work is to improve water quality further down the catchment by restoring degraded habitat higher in the catchment.
- Demonstration Test Catchment Projects. This is initially a 5-year Defra/Environment Agency funded programme which will work within three catchments: The Hampshire Avon, Wensum and Eden to implement mitigation Measures for reducing diffuse pollution at a catchment scale and monitor their effectiveness on water quality and ecology.

The Projects listed above within the river basin district and elsewhere will all increase our knowledge of effective techniques that can be deployed more widely in the later plan cycles.

The intent to improve catchment resilience has been reinforced and is now starting to be delivered through, for example, actions coming from the "Pitt Review" which followed flooding in 2007 and through the flood risk management "Making Space for Water" initiative. Surface water management plan, which have been proposed, from these initiatives are intended to prevent rapid water runoff by using more natural and sustainable approaches to water management

- **Consultation Response:** *Respondents identified the need to develop monitoring programmes to detect climate change, particularly water temperature monitoring and to consider climate change in objective setting.*

Water temperature is a useful indicator of climate change and UK organisations collect a lot of data on it. Until now that data has not been stored in one place or analysed for a climate change signal.

We are developing a Water Temperature Archive to address this problem. This will start with river data and move on to lakes and estuary sites. Once this is complete we will be looking at the long term monitoring network requirements and assessing the importance for River Basin Management Plan objectives of any temperature signals detected.

4.10.1 Specific Anglian RBD consultation responses

51 comments were received specifically focussed on climate change.

Generally, the respondents felt that the Plan has taken a responsible approach to climate change and assessing the potential impacts. However, more emphasis needs to be placed on ensuring there are measures to ensure efficient use of water. These include managing water demand; providing strategic infrastructure; enabling flood storage and integrating strategic planning.

Some respondents believe that the carbon sequestration capacity of wetland and water habitats and consequent contribution to climate change mitigation efforts is not given sufficient recognition in the River Basin Management Plan and should be part of cost-benefit analysis. They also believe there is scope for considering the benefits in relation to resilience to extreme weather events that habitat restoration and creation can generate e.g. reseeded eroded peat.

Our knowledge continues to grow and more information will be needed before a complete and robust assessment can be made, although measures that deal with the impact of climate change and acknowledgement of the potential damage to historic/archaeological sites would be welcomed.

Some of the specific comments include:

- **Consultation Response:** *"We are content that this is a reasonable assessment, given the uncertainties that exist over the precise impacts of climate change on water environment."*
- **Consultation Response:** *"The idea of climate change is not new, only 30 years ago we were told that the country was entering a mini ice age! We as Great Britain PLC have lost the power we once commanded over the world and have little influence on countries such as India and China who are having the greatest impact on CO₂ emissions. Within the next decade we will be back using fossil fuel and nuclear power to run the country and climate change will be forgotten."*

We will need to continue to work with the Local Planning Authorities to influence Local Development Frameworks in order to anticipate the impact of climate change especially in areas where growth will take place.

4.11 Impact Assessment, costs and benefits

- **Consultation Response:** *There was concern about the very large share of costs falling to the water industry.*
- **Consultation Response:** *There were concerns about the size of the increase in water bills necessary to fund the water industry investments, and the impacts on society. Coupled with this was the concern about the introduction of compulsory metering and the potential for 'water poverty'.*
- **Consultation Response:** *Some respondents wanted more information on disproportionate costs and technical feasibility*

The Impact Assessment has been amended in light of the consultation responses. The final Impact Assessment will describe the reference case of existing actions (Scenario A in the draft plan) but the main focus is on the costs and benefits of implementing the main policy option. This relates to the new policy actions arising from the introduction of the River Basin Management Plan on both private and public sectors.

The largest share of the costs in the main policy option will continue to relate to the water sector. This is in accordance with the findings from the Defra led Collaborative Research Programme which undertook a preliminary cost effectiveness assessment (pCEA) of measures. This work highlighted that the greatest certainty of outcomes was via those relating to the water industry rather than other sectors (e.g. agriculture) where further investigations were needed. It is also consistent with the updated National Impact Assessment published in February 2008 which recommended applying a phased approach to implementing the River Basin Management Plan over the 3 cycles. The assumption in the National Impact Assessment was that by undertaking investigations in the first cycle a more targeted and cost effective set of measures could be applied in subsequent cycles, thereby reducing the overall cost to deliver the target WFD outcome.

Our approach since the draft version of the Impact Assessment has been to review the cost information and ensure that only new measures (rather than existing) are included and to ensure that the costs relating to these measures are robust. There were also a number of measures with missing cost information which we have now included in the assessment.

The Environment Agency has also worked closely with OFWAT and Defra to undertake a distributional cost assessment of water company measures in accordance with the Ministerial River Basin Planning Guidance (Volume 2). This work took account of cost benefit and affordability considerations. The Environment Agency has also undertaken a peer review of the benefits values used in the Final Impact Assessment to ensure that the values used are accurate. The approach is clearly explained in a supporting document that will be issued at the same time as each of the River Basin Management Plan Impact Assessments.

Through a Collaborative Research Programme, Defra and the Welsh Assembly Government developed guidance on the evidence required to justify disproportionate cost or expense decisions under the WFD. This is contained in River Basin Planning Guidance Volumes 1 and 2. There is also EU guidance on the use of Exemptions and Disproportionate costs, which the Environment Agency has taken into account in its assessments.

The Environment Agency has worked closely with both Defra and OFWAT in following the guidance for disproportionate cost analysis for the water industry. The results from the analysis indicated that WFD PR09 actions had a low overall effect on water customer bills and a negligible effect on water poverty.

Disproportionate cost is not just about the overall balance between costs and benefits, but also about the distribution of those costs and benefits (who pays and who benefits). It should be noted that negative distributional consequences may only be transitory – for example losses of business and jobs may be compensated by increases in the activity of other firms within or outside the area being looked at.

4.11.1 Specific Anglian RBD consultation responses

29 comments were received concerning the impact assessment.

Comments focus on the need for cost benefits to be clearly and transparently quantified; a more balanced approach in costs and benefits; and the need to have more information on how costs and benefits have been derived.

Some of the specific comments include:

- **Consultation Response:** *“Annex E does not adequately set out the decision making process in a coherent or transparent manner. It is unclear how the pCEA and impact assessment for the Ministerial Guidance document have actually led to the measures being decided upon. Annex E should include a clear summary of the recommendations made by all these strategic documents and clear costings that explain why the rejected measures were considered disproportionate.”*
- **Consultation Response:** *“Costs are mostly unknown to users at this stage, yet recognised as substantial. Economic analysis and cost effectiveness is an area that has not had the profile it should have. More needs to be known about cost benefit and the work of the Collaborative Research Programme. The Environment Agency is under pressure to implement wide ranging measures and these need to be considered based on fact to allow the benefits and costs to be demonstrated.”*

The Plan contains a completely revised Annex E that is designed to make the process for deciding when measures are to be used much clearer. We shall relay the request for the working and results of the Collaborative Research Project and the pCEA to be more easily available to Defra.

5 Next steps

Individuals who wish to follow up their responses, or points made within this document, in more detail are welcome to contact us.

Responses from this consultation will be used to inform the development and/or delivery of the Anglian River Basin Management Plan. The plan will set out the issues facing the water environment in the Anglian River Basin District and the actions planned to improve it between 2009 and 2015.

All River Basin Management Plans will be presented to Government for approval on 22 September 2009 and will be published on 22 December 2009. Once the plan has been submitted to Government in September you will be able to view what was submitted on our website.

Further information about the Water Framework Directive, the Anglian River Basin District and delivery of the River Basin Management Plans can be found on our website at www.environment-agency.gov.uk/wfd. Alternatively you can contact:

- Regan Harris
WFD Communications
Kingfisher House
Goldhay Way
Peterborough
PE2 5ZR
- Email: anglianRBD@environment-agency.gov.uk

**Would you like to find out more
about us,
or about your environment?**

**Then call us on
08708 506 506 (Mon-Fri 8-6)**

**email
enquiries@environment-
agency.gov.uk**

**or visit our website
www.environment-agency.gov.uk**

**incident hotline 0800 80 70 60 (24hrs)
floodline 0845 988 1188**



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