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Water Division
Scottish Executive
Area 1-H
Victoria Quay
Edinburgh
EH6 6QQ

08 March 2006

Dear Sir/Madam,

2. Re: Diffuse Water Pollution from Rural Land Use

Ayrshire Rivers Trust (ART) welcomes the opportunity to respond to the above consultation.

Ayrshire Rivers Trust (ART) is a charitable organisation established in 2000 to reverse the significant decline in local freshwater fish stocks through improved scientific management and long-term restoration of local rivers. ART is a full member of the River and Fisheries Trusts Scotland (RAFTS) and the Scottish Fisheries coordination Centre (SFCC). The Trust carries out electrofishing and habitat surveying, and holds comprehensive data on fish populations and the environmental impacts affecting the freshwater environment.

ART considers the impact of agricultural activities to be the most important issue affecting the freshwater environment in Ayrshire. For example, in the River Irvine catchment, improved grassland is the biggest single land use category with over 62% of the catchment area. Across Ayrshire we have yet to find an example of a lowland, purely agricultural tributary/sub-catchment, where salmonid fish populations are not seriously impacted. The range of detrimental effects include siltation, organic enrichment and eutrophication and destruction of riparian habitat with consequent over widening and shallowing of the stream. In page 7 of the consultation, reference is made to the general improvement in water quality “the quality of water in our rivers and lochs has shown improvement”. Whilst this is undoubtedly true in areas where industrial and sewage effluent were the primary pollutants it is not the case in areas subject to intensive agricultural, where degradation of the freshwater environment continues. Ecosystem changes in response to this habitat degradation are having a serious environmental, economic and social impact on other stakeholders.

2.1 ART responses to the consultation questions are detailed below:

Q1. Yes.

Q2. It is important to recognise that there are two primary sources of siltation in the freshwater environment, that arising from surface run-off and that from bank erosion (EA, R&D Technical Report W2-046/TR3), with the relative importance

differing from one part of the country to another. However, the techniques for dealing with both sources are similar, i.e. stock-proof fencing and the establishment of a well vegetated buffer strip along watercourses.

Q3. During fieldwork it is very frustrating to see examples of the GAEC guidelines being openly flouted with feed rings situated on islands in burns, severe trampling on steep slopes above river banks or situations where cattle are kept in the same field all winter long. It begs the question that if the current regulations are so poorly enforced, who will be responsible for regulating the proposed legislation. ART believe that a fundamental change in the way that farming regulations are policed is required to drive change. In the same way that a regulator is being proposed to monitor the aquaculture industry, a robust and independent regulator with enforcement powers is essential if there is to be a significant reduction in the impact of diffuse pollution.

Q4. The advice contained in the PEPFAA code is very good. The problem would seem to be the implementation of that advice. Face to face meetings with farmers and advisors where the advantages of best practice can be discussed with the farmer have proven to be very effective in other areas of the country i.e. the West Country Rivers Trust Cornwall Rivers Project (www.wrt.org). Locally, Ayrshire and Arran FWAG have also found that farm visits and consultations meet with a very positive response.

Q5. ART would consider that the following elements should be eligible for financial support under Tier 3 of the LMC's:

- Riparian fencing - this is the single biggest improvement that can be made but must be applied on a sub-catchment scale to make a significant difference.
- Provision of alternative stock watering. This is essential if catchment wide fencing programs to exclude farm stock from watercourses are to be implemented.
- Individual farm nutrient budgets. Raising awareness of nutrient budgeting and soil requirements will yield both environmental improvements and financial gains for individual farmers.
- Constructed wetlands seem to provide an excellent solution for assimilating potentially harmful discharges from farm steadings. Professional design of constructed wetlands is essential to match capacity with loading.

Q6. A self audit may be a useful starting position but on its own they would be unlikely to make a significant difference. The value of having a farm visit, audit and report, by a professional, cannot be overstated. Organisations such as FWAG have had great success in improving farming practices through implementation of the Rural Stewardship Scheme. The most essential element of the scheme are the farm visits and reports.

Q7. There seems to be a surfeit of advice notes/guidance/voluntary code which have been effective with the more environmentally aware members of the farming community, however, it appears that large sections of the farming community continue to operate in an unsustainable manner. As mentioned above ART consider that farm visits and audits by professional advisors are much more effective in driving change than the production of more publications.

The concept of catchment officers may have some merit in coordinating activity so that measurable improvements can be achieved. Catchment officers employed by

SEPA, who would concentrate on freshwater and coastal issues only, could be a very effective initiative for implementing reforms designed to reduce the impact of diffuse pollution.

Structured auditing linked to Tier 3 improvements is essential.

Q8. Yes.

Q9. Yes.

Q10. Yes, but there must be effective auditing and enforcement of penalties in the event of non-compliance. As noted above many instances of breaches in the GAEC regulations can be observed throughout Ayrshire. ART believe for any meaningful drive towards a reduction in the effects of diffuse pollution will require a much more rigorous inspection and enforcement regime, with examples of bad practice penalised.

Q11. The Trust can see the benefits of the targeted approach for delivering improvements in at risk catchments, and this proposal this would seem to fit halfway between “normal” catchments and Nitrate Vulnerable Zones (NVZ). There may be merit in this approach as an initial measure to reduce the impact of diffuse pollution, with potential designation of a catchment as a NVZ as a backstop.

Q12. Yes, but there must be a robust enforcement mechanism to ensure that the requirements of the proposed GBR’s are adopted by all.

Q13 The proposed GBR’s must be drawn up in consultation with all stakeholders, including fisheries trust’s, as they hold detailed information on the results from monitoring a range of freshwater sites including those heavily impacted by agricultural activities. The example given in Annex A of the consultation mentions control of livestock and watercourses etc, but the wording is ambiguous. ART would like to see the definition of watercourses much more clearly so that even the smallest tributaries are protected from stock intrusion.

Supportive measures should include an increasing proportion of agricultural grant assistance through environmental measures, which must focus heavily on measures targeted at improving the status of watercourses flowing through agricultural land. The erection of riparian fencing and the establishment of a well vegetated buffer zone will result in benefits not only for water quality but also for a huge range of conservation priorities.

Q14 The approach detailed in the consultation, if implemented and enforced adequately will undoubtedly results in significant improvements in the status of our agricultural watercourses. For the approach outlined in this consultation to be developed quickly and efficiently there will have to be targeted grant assistance for the measures outlined in the GBR’s. A substantial investment in riparian fencing will be required to ensure that all watercourses running through improved land are stock proof. If reductions in the impact of diffuse pollution are to be delivered then it is essential that even the smallest burns are stock proof. Through experience in small scale habitat restoration projects ART has noted that projects must begin at the top of a catchment, and include the smallest tributaries if measurable improvements are to be delivered.

The sooner riparian fencing and the other measures outlined in point 5 above are given priority status through LMC or other agricultural grant schemes the sooner reductions in the impact of diffuse pollution will be delivered.

Q15 Much more emphasis should be put on linking agricultural subsidies to environmental improvements, particularly measures designed to reduce the impact of diffuse pollution.

Q16 Targeted subsidies/grant assistance, combined with enforcement of the proposed GBR's.

Q17 Improvements in forestry planting following the publication of the Forest and Water Guidelines, have lead to a major reduction in the impact of conifer forestry on freshwaters. However, given the long rotation time for a conifer crop, watercourses are still suffering from the legacy of earlier poorly conceived planting. Problems such as overshadowing, mechanical damage during harvesting operations and log jams caused by fallen trees are still common place. In due course once the older generation plantations have been cleared improvements in these issues will occur and we will have a modern more sustainable forestry industry.

The Trust considers the lack of retrospective legislation requiring older plantations to be brought up to the same standard as the newer generation

ART considers agriculture to be an essential, worthy and noble land-use. However, current intensive agriculture practices are having a major impact on the quality of our watercourses. Throughout Ayrshire, all lowland sub-catchments, where land-use is primarily agriculture, have severely impacted salmonid populations.

The Trust wholeheartedly supports the proposals outlined in the consultation, and considers that they will help to deliver a modern, sustainable Scottish agricultural industry, a vital component of a healthy and diverse rural environment.

I hope that comments are helpful. If you require any clarification please don't hesitate to get back in touch.

Yours sincerely,

Brian Shaw