

## The Rural Diffuse Pollution Plan for Scotland

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The rural diffuse pollution partnership for improving Scotland's waters

www.sepa.org.uk



#### Diffuse Pollution Management Advisory Group (DPMAG)

 Members include NFUS, Scottish Tenant Farmers Association, Scottish Rural Property and Business Association, Forestry Commission, Scottish Environment LINK, Scottish Natural Heritage, RAFTS, Scottish Government

#### Aims

- Create a robust governance, decision-making and coordination framework for the effective delivery of rural diffuse pollution in Scotland.
- Ensure input from a cross section of rural, environmental and biodiversity interests.





#### **Diffuse Pollution in Scotland**

Scotland's water quality is generally good

Main pollutants; Nutrients N and P, SS, faecal bacteria, pesticides

Main Sources; Agriculture, Urban run-off, Forestry Coal mining, Septic tanks, Recreation

Rural Diffuse Pollution is now the largest pollution pressure

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#### **Water Framework Directive**

Aims - prevent deterioration and enhance status. Ambitious objectives – 97% of waterbodies in Scotland to be good by 2027





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### **Scotland Rural Development Programme**

#### **Rural Priorities**

- fencing, water margins and riparian buffer strips, tracks, gates and river crossings, biobeds, constructed farm wetlands, arable reversion to grassland
- **Targeting** New National Target for water quality
- **Promotion** of SRDP water quality measures
- **Collaboration** wide catchment coverage required
- **Multiple benefits** biodiversity, climate change, flooding









#### Diffuse Pollution General Binding Rules (DP GBRs)

- Based on widely accepted standards of good practice e.g. PEPFAA, Forests and Water Guidelines
- Apply to all rural land use e.g. golf courses, parkland, forestry and agriculture
- Level playing field for all land managers
  - Agricultural Activities include; keeping of livestock, cultivation of land and storage and application of fertilisers



#### Scotland's approach to DP Mitigation

Managino maxim

Sound science demonstrate impact, pollutant source and pathways. **National approach** –awareness raising, guidance & training.



Priority catchment approach - a catchment management type approach – evidence gathering, awareness raising, one to one land manager inspections and advice, targeting measures and funding.

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## What and where are Scotland's priority catchments?

- Impacted surface and groundwaters
- Over 100 catchments identified
- Selection based on protected area status and risks to human health
- Cover some of Scotland's most important waters for bathing, drinking, conservation and recreation



http://www.sepa.org.uk/water/river\_basin\_planning/dp\_priority\_catchments.aspx



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#### **Priority catchment approach**





#### **Multiple benefits**

... cumulatively at the catchment/ landscape scale...



Biodiversity, habitat connectivity, landscape, river restoration









#### Where does the Lunan fit?

- Currently covered by national awareness raising
- Next basin planning cycle 2015-21 priority catchment
- Baseline against which to assess if measures effective
- Test of the voluntary approach
- Lessons learned will feed into process









## **Monitoring and Research**

- Development a data collection framework to assess and understand the effectiveness of measures and mitigate rural diffuse pollution.;
  - Land managers attitude and engagement
  - Land use and management
  - Environmental quality
  - Costs
- Research to support plan delivery and understanding of effectiveness



- Catchment walking almost complete, > 3000km walked to date
- Awareness raising events ongoing & well attended
  - 1:1 site visits due to start March 2011

# Where are we now?



#### **The South Esk Priority Catchment**

- High value agricultural land
- NVZ designation
- Montrose basin SPA, SSSI & Ramsar site
- SAC for Atlantic salmon and Freshwater pearl mussels





- Groundwater classed as poor
- Montrose Basin classed as moderate
- 7 out of 14 rivers classed as less than good status
- Natura 2000 site in unfavourable condition



#### South Esk Catchment walk

- Approximately 400km walked, identifying:
  - DP GBR breaches
  - Good practice
  - Land use in riparian zone
  - Point source issues, e.g. septic tanks
  - Invasive Non-native Species
  - Morphology pressures
  - Other issues e.g. fly tipping, fallen stock, farm tips





- Walks carried out by SEPA staff with assistance from Esk Rivers Fisheries Trust
- Project Officer for River South Esk CP also accompanied SEPA



## What did we find??





## **Findings (cont)**





### **Good Practice also noted**







#### **Catchment walk findings – the national picture**

Priority Catchment	River length (km)	Total no breaches	Fertiliser	Livestock	Cultivation	Drainage	Good Practice
Ayr	350	451	32	383	35	0	10
Doon	140	85	3	70	11	1	13
N Ayrshire coastal	45	66	1	59	5	0	3
Irvine	525	425	13	399	9	4	8
Garnock	252	335	4	331	0	0	2
Eye	130	286	1	263	18	4	7
Ugie	275	233	3	189	38	2	No info
Buchan Coastal	310	249	3	238	4	3	2
South Esk	400	507	10	257	234	6	95

• Total river length walked = 2425 km

• Total number of DP GBR breaches = 2637





## Livestock poaching & erosion



## **Cultivation & runoff**



#### **Other Problems We Came Across**





## **Next steps**

- Awareness raising ongoing in all PC's
  - Good partnership working being developed
  - Successful, well attended farm workshops in Ayrshire and South Esk
  - Positive feedback received from recent S Esk event
  - National press, local newsletters, Scottish Farmer articles, e-news bulletins and PC web pages
- 1:1 site visits due to begin March 2011





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## Thank you!

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