

# WATER FRAMEWORK DIRECTIVE AND EMERGING SUBSTANCES

Implications for Policy Development,  
research & monitoring

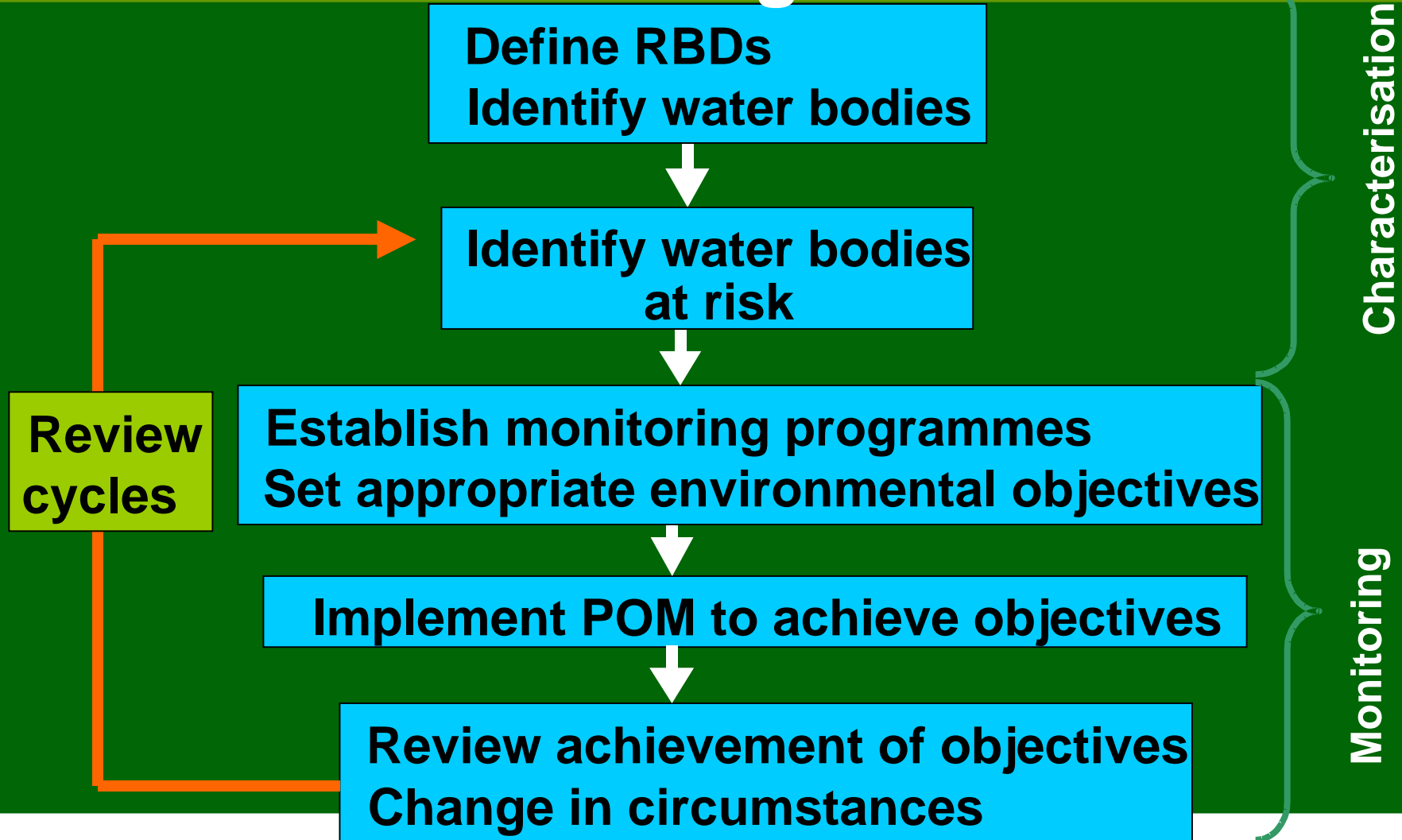
**Nick Cartwright**

creating a better place

# Layout

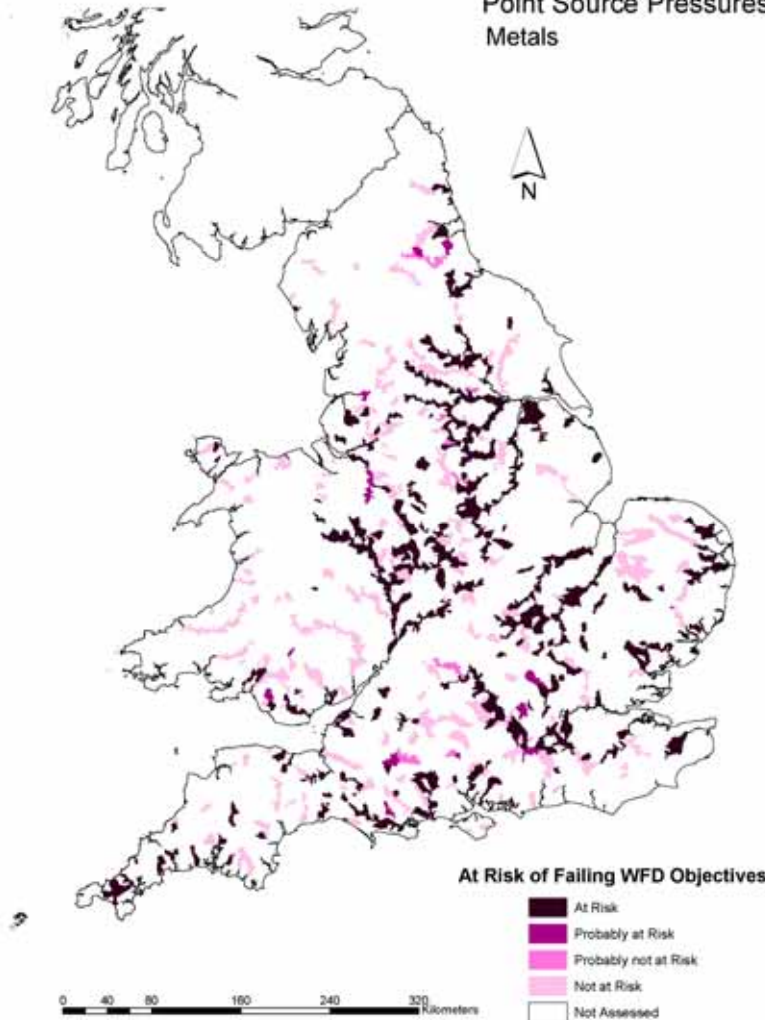
- River Basin Management Planning
- Identifying Risks
- What is the timeline
- How can we identify emerging pollutants
- What are the issues
- Relationship with chemicals regimes

# River Basin Planning



DRAFT

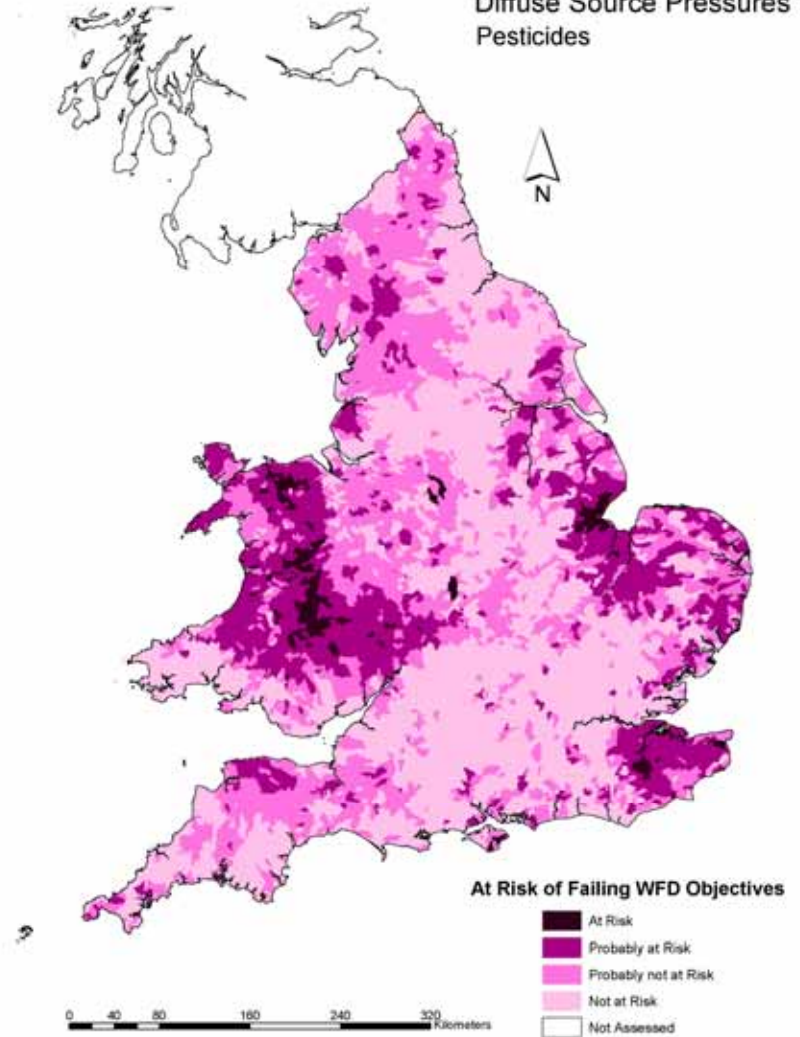
Rivers  
Point Source Pressures  
Metals



Point Sources

DRAFT

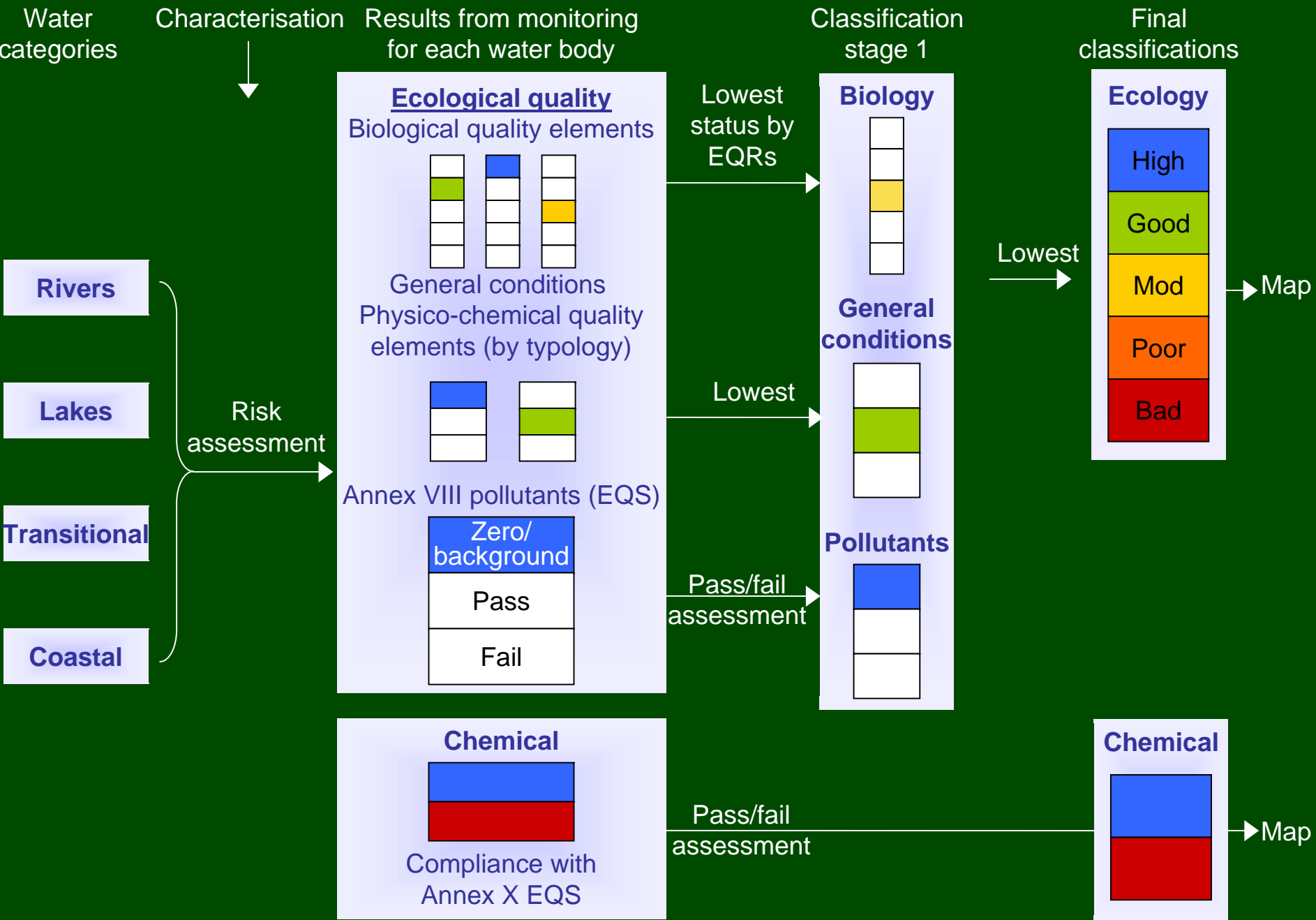
Rivers  
Diffuse Source Pressures  
Pesticides



Diffuse Sources

ent

# CLASSIFICATION OF SURFACE WATER BODIES



# Key Dates

- 2000 - Directive enters force
- 2004 - River Basin Characterisation and Risk Assessment
- 2008 - EC priority list reviewed?
- 2009 - River Basin Management Plans and  
- Programmes of Measures
- 2012 - EC priority list reviewed?
- 2013 - Review characterisation and  
Risk Assessment
- 2015 - Achieve objectives of first RBMPs  
- Publish second RBMPs to 2021 (3rd 2021 to 2027)

# Identifying emerging pollutants

Individual  
chemicals

Systematic  
screening

Groups

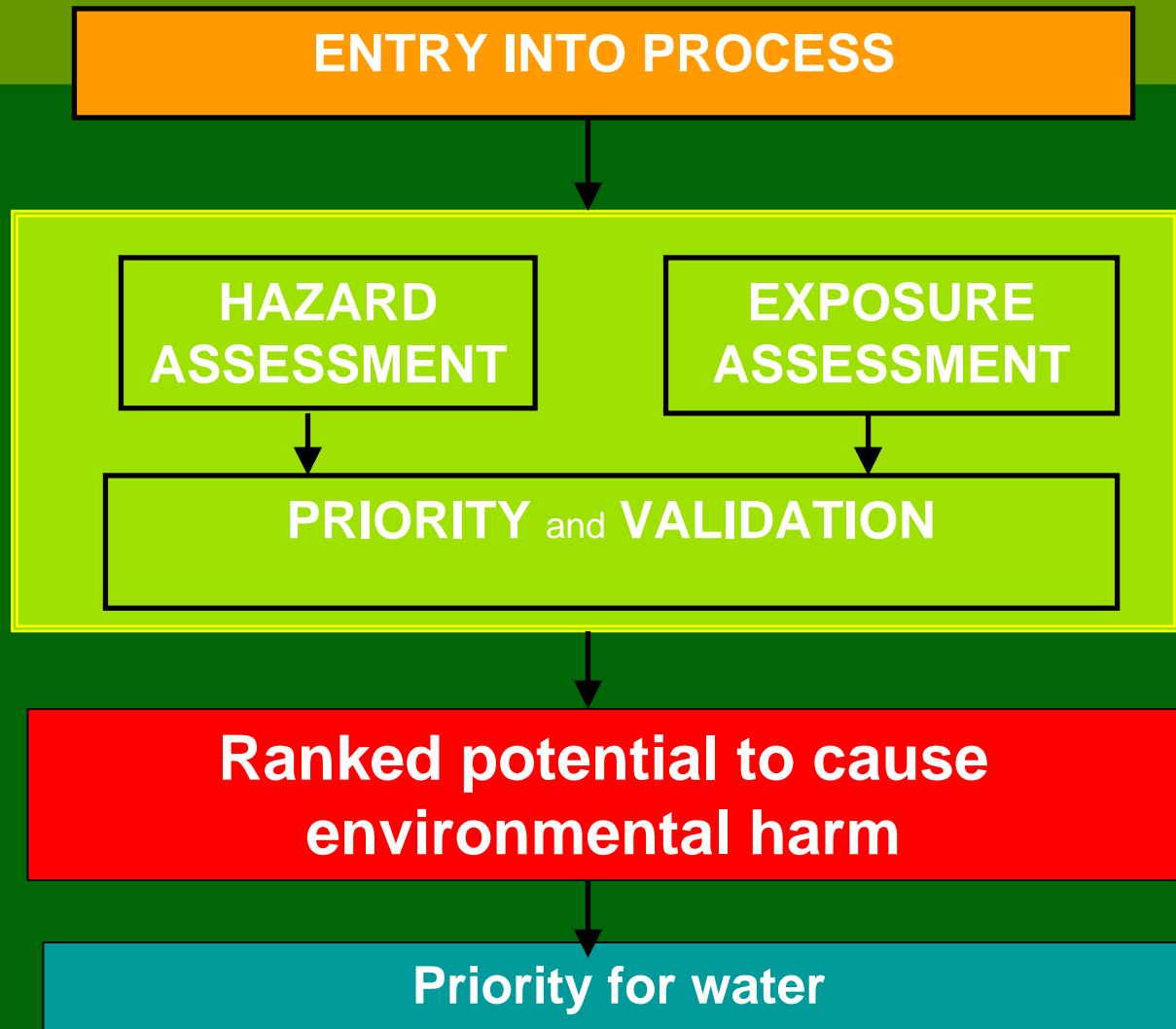
Hazard/Use Profile

Environmental  
Signals

Occurrence

Impacts

# Chemical Screening





# What is environmentally significant?

- Lack of hazard data
- The higher the uncertainty the lower the EQS
- Analysis required at environmentally relevant levels
- Problem substances:
  - PBTs, vPvB, EDs, naturally occurring substances

# Exposure

- Lack of source/use data
- Use of emission inventories
- Targeted monitoring
  - Appropriate analytical techniques
  - Where to monitor
  - What media to monitor
  - Limited resource

# Chemicals regimes

- National Programmes
- ESR
  - aquatic risks
  - risk reduction strategies
- REACH
  - Data generation
  - Authorisable substances
    - (PHS link to WFD objectives)

# Conclusions

- Initial River Basin Management Plans are likely to concentrate on traditional pollutants
- Need early views on emerging pollutants if they are going to be in second RBMPs
- Need to ensure WFD and chemicals regimes are integrated

# Further Information

[www.defra.gov.uk](http://www.defra.gov.uk)

[www.environment-agency.gov.uk/wfd](http://www.environment-agency.gov.uk/wfd)



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