



Environment  
Agency

# Introducing the Catchment Based Approach

Name: James Duke.

Job title: Catchment Coordinator: East Yorkshire.

Date 10<sup>th</sup> September 2014

# Topics

- ➔ Water Framework Directive history
- ➔ Evidence and classification
- ➔ Cost beneficial v affordable
- ➔ The catchment based approach
- ➔ Wider partnership work
- ➔ The Water Framework Directive consultation
- ➔ Summary
- ➔ Questions

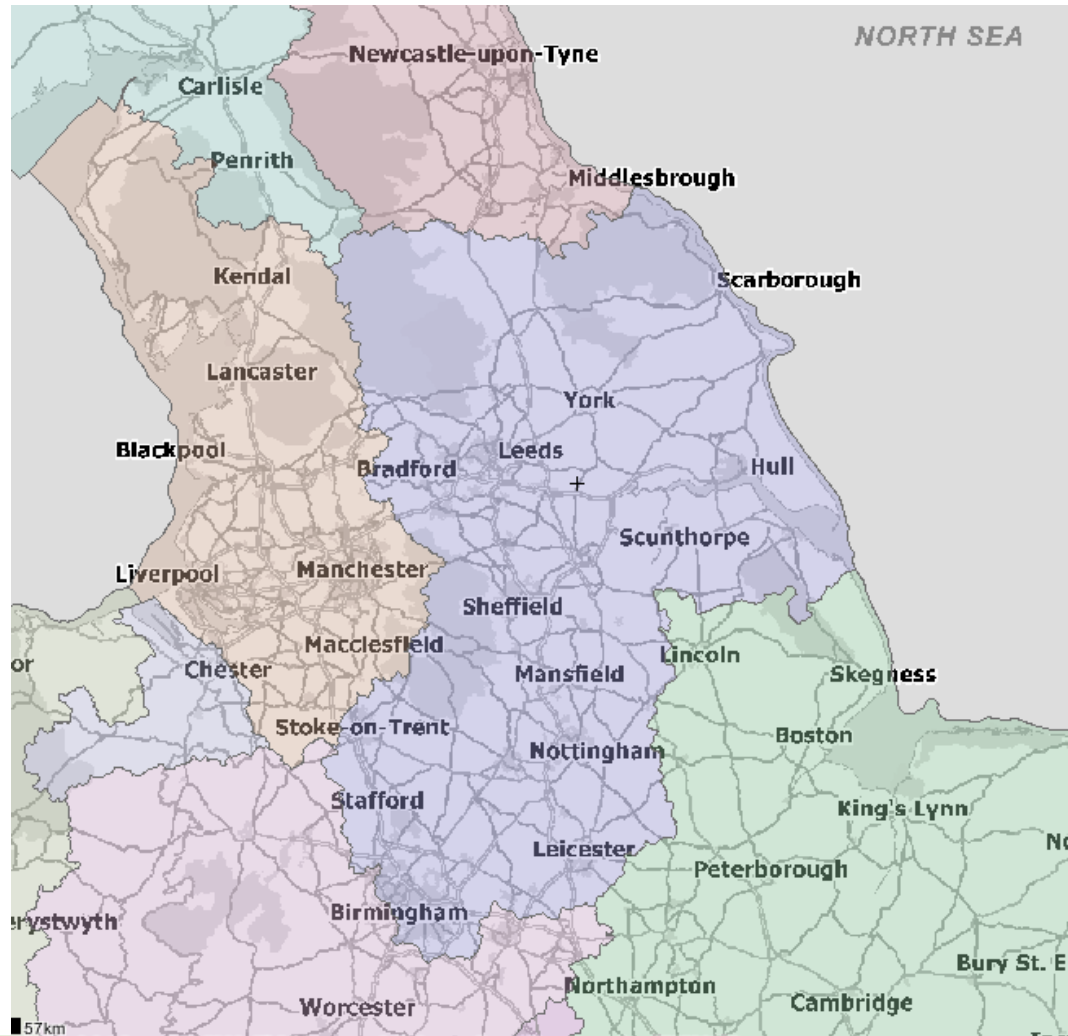
# Topics

- ➔ Water Framework Directive history
- ➔ Evidence and classification
- ➔ Cost beneficial v affordable
- ➔ The catchment based approach
- ➔ Wider partnership work
- ➔ The Water Framework Directive consultation
- ➔ Summary
- ➔ Questions

# Water Framework Directive History

- ➔ Introduced in 2000 and implemented in UK in 2003
- ➔ Focussed on holistic catchment planning
- ➔ Key Principles
  - ➔ Standardisation of water quality classification
  - ➔ 'One out, all out' principle

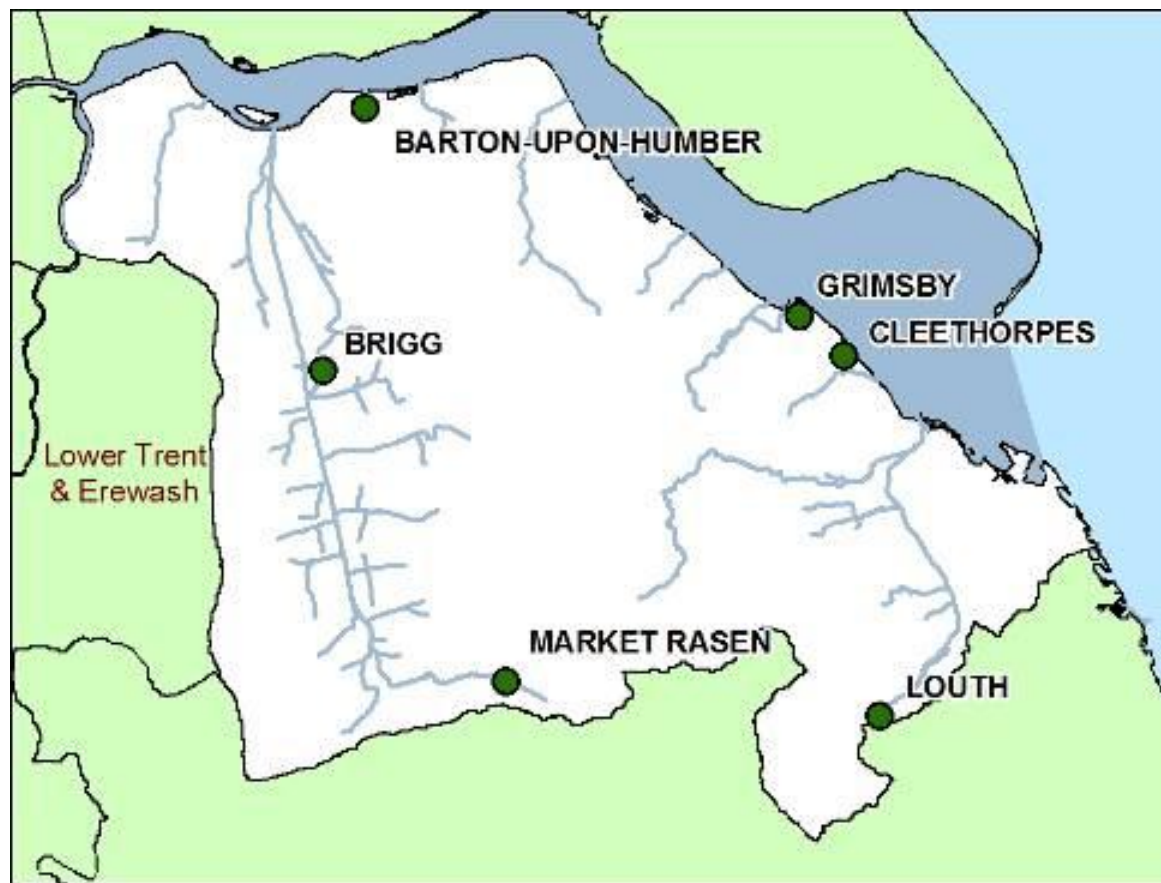
# The Humber River Basin District



# Hull and East Riding Management Catchment

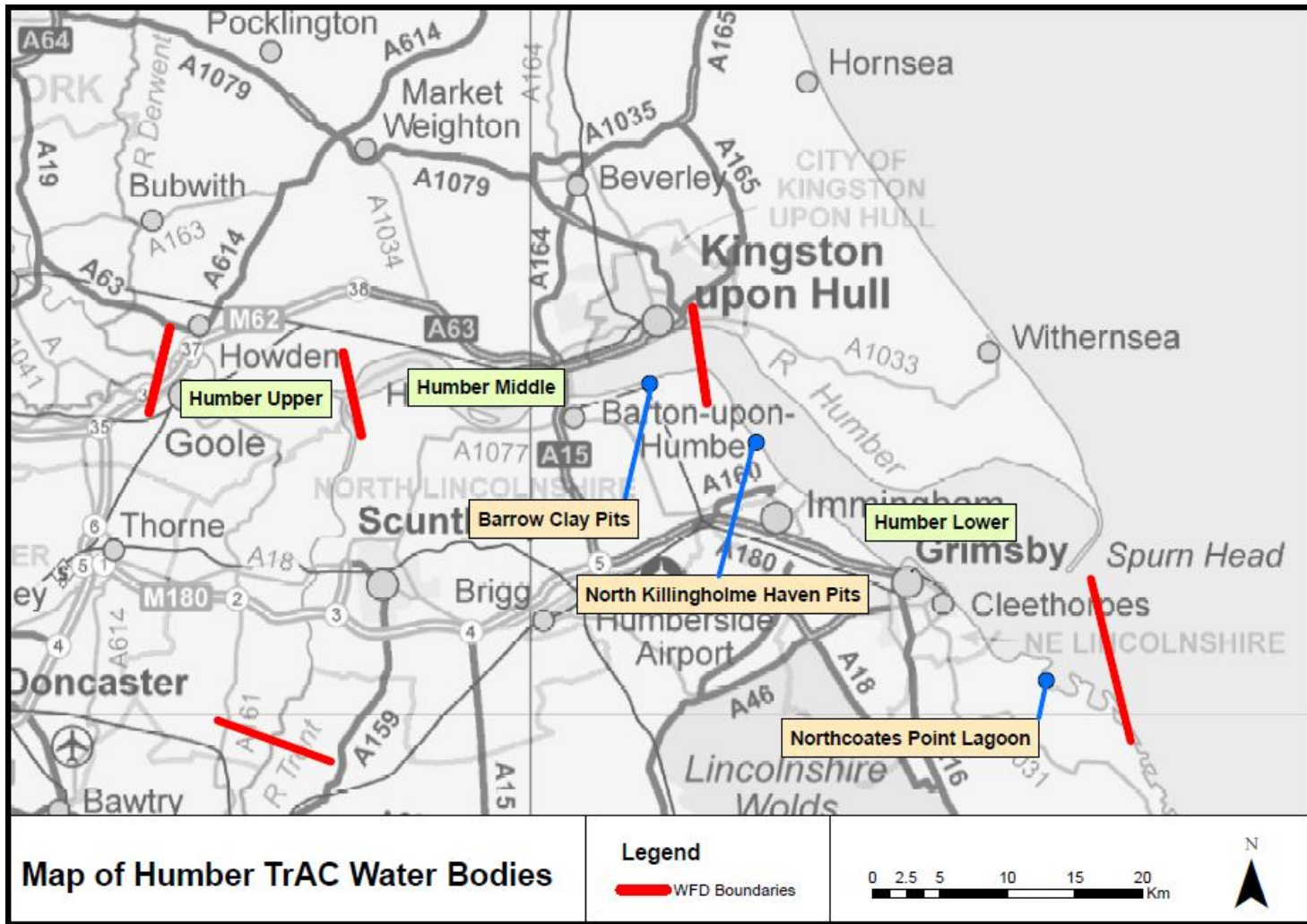


# Louth, Grimsby and Ancholme Management Catchment





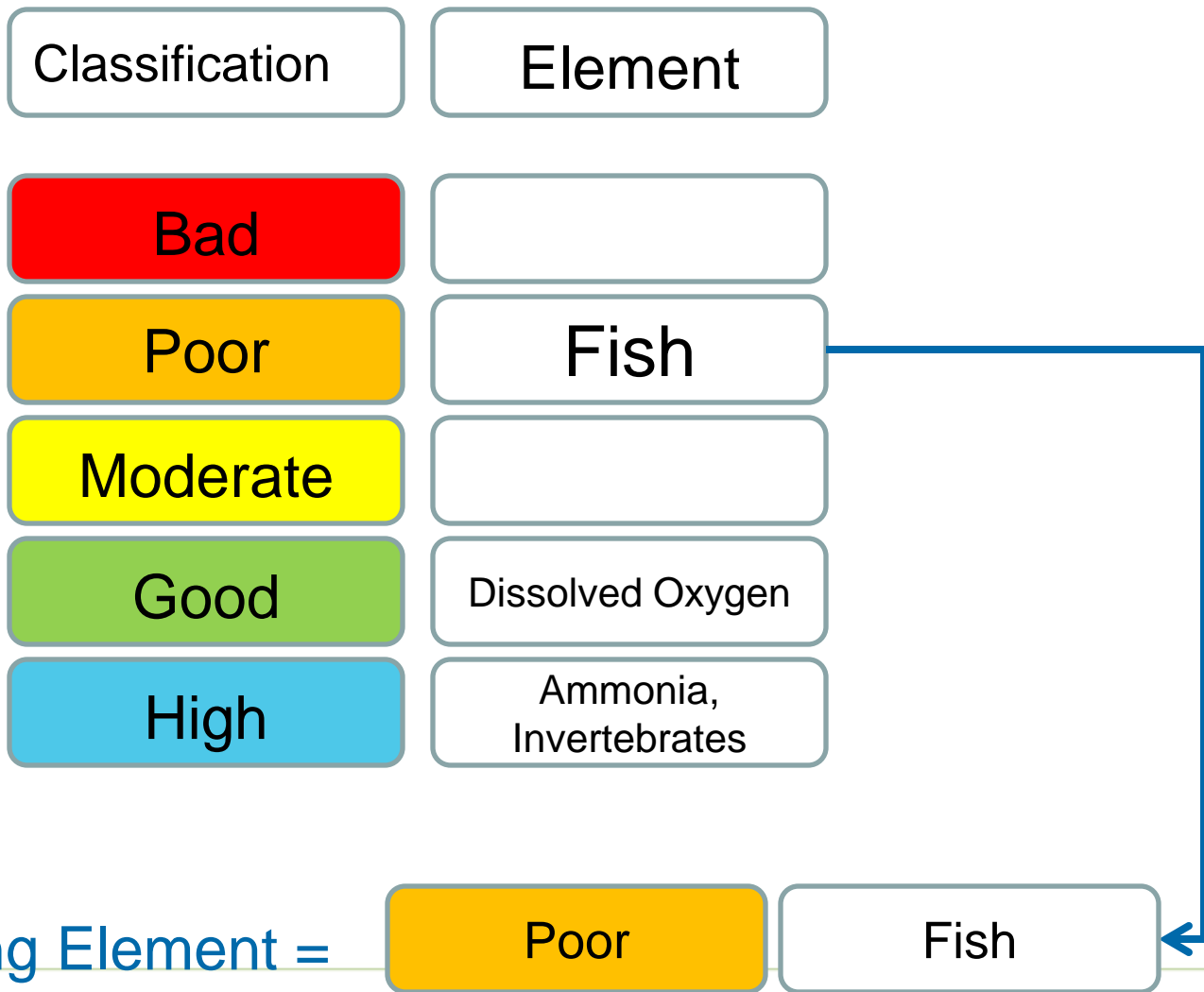
# Humber Estuary Operational Catchments



# Topics

- ⇒ Water Framework Directive history
- ⇒ Evidence and classification
- ⇒ Cost beneficial v affordable
- ⇒ The catchment based approach
- ⇒ Wider partnership work
- ⇒ The Water Framework Directive consultation
- ⇒ Summary
- ⇒ Questions

# 'One out all out' principle







# Humber Estuary Measures

- ➔ We have taken a stakeholder-centred approach to identifying measures to be included in the River Basin Management Plan.
- ➔ Workshops held to help us identify reasons for failure, the evidence to support this, and measures which will address the failures.
- ➔ An area we identified where improvements can be made is the hydro-morphology of the water bodies.
- ➔ We are currently undertaking work to include WFD measures in the Flood Risk Management Strategy.



# Topics

- ⇒ Water Framework Directive history
- ⇒ Evidence and classification
- ⇒ **Cost beneficial v affordable**
- ⇒ The catchment based approach
- ⇒ Wider partnership work
- ⇒ The Water Framework Directive consultation
- ⇒ Summary
- ⇒ Questions

# Cost Beneficial v Affordable

- ➔ Cost beneficial – greatest environmental improvement per £1.00
  - ➔ How do you monetise environmental improvement
  - ➔ Subjective
- ➔ Protected Areas and No Deterioration
- ➔ Affordable - do you have the money to complete the project?

# Topics

- ⇒ Water Framework Directive history
- ⇒ Evidence and classification
- ⇒ Cost beneficial v affordable
- ⇒ **The catchment based approach**
- ⇒ Wider partnership work
- ⇒ The Water Framework Directive consultation
- ⇒ Summary
- ⇒ Questions



# Catchment Based Approach

- ➔ Improving water at a local level
- ➔ To encourage collaborative working and a greater commitment to action
- ➔ Catchment coordinators
- ➔ Catchment partnership hosts

# Catchment Coordinator

- ➔ Work with internal partners to ensure that every aspect of the environment agency's work is structured around helping to ensure the agency meets its targets for Water Framework Directive.
- ➔ Work strategically with external partners, to achieve WFD and non-WFD outcomes.

# Catchment Partnership Hosts

- ➔ To work strategically with the Environment Agency to seek innovative ways to realise Water Framework Directive outcomes
- ➔ To work collaboratively with local partners and established interest groups to deliver environmental outcomes

# Topics

- ➔ Water Framework Directive history
- ➔ Evidence and classification
- ➔ Cost beneficial v affordable
- ➔ The catchment based approach
- ➔ **Wider partnership work**
- ➔ The Water Framework Directive consultation
- ➔ Summary
- ➔ Questions

# Including WFD Measures in the Humber Flood Risk Management Strategy

- ➔ The Strategy is currently in the process of being updated with the aim of delivering it as a partnership document.
- ➔ Work is ongoing to identify improvements to the water environment that can be delivered through flood defence schemes.
- ➔ Stakeholder engagement has been key to identifying where improvements might be delivered.
- ➔ Many measures are simple and cheap to include in scheme design.

# WFD and the Green Infrastructure Study

- ➔ The Environment Agency is in the process of delivering a project to identify how WFD measures can be delivered through FCRM activity.
- ➔ These measures largely focus on improvements to the local water environment around the riparian zone.
- ➔ We are also looking at producing more WFD guidance and information for our partners and the public.
- ➔ The project has now been extended to consider how we might deliver other social, economic and environmental objectives through the design of flood risk management schemes.

# Frontage at Melton



# Topics

- ➔ Water Framework Directive history
- ➔ Evidence and classification
- ➔ Cost beneficial v affordable
- ➔ The catchment based approach
- ➔ Wider partnership work
- ➔ **The Water Framework Directive consultation**
- ➔ Summary
- ➔ Questions



# Water Framework Directive Consultation

**Q1: Do you agree with the proposed changes to the river basin district and catchment, water body boundaries and artificial and heavily modified water body designations?**

**Q2 Do you agree with the objectives proposed for water bodies and protected areas?**

**Q3 Where flexibility exists, should the priority be maximising the number of water bodies at good status or improving the worst water bodies?**

**Q4 Do you agree the correct measures have been identified?**

**Q5 Do you agree with the way the economic process has been done?**

**Q6 What measures can you deliver to help achieve the long term objectives?**

**Q7: Do you have any further comments on this consultation**

# Topics

- ➔ Water Framework Directive history
- ➔ Evidence and classification
- ➔ Cost beneficial v affordable
- ➔ The catchment based approach
- ➔ Wider partnership work
- ➔ The Water Framework Directive consultation
- ➔ **Summary**
- ➔ Questions

# Summary

- ➔ Holistic approach to water management
- ➔ Tighter requirements for water quality
- ➔ Failures and measures on the estuary
- ➔ Environmental improvements through collaborative working
- ➔ Wider Estuary projects
- ➔ The consultation process

# Topics

- ⇒ Water Framework Directive history
- ⇒ Evidence and classification
- ⇒ Cost beneficial v affordable
- ⇒ The catchment based approach
- ⇒ Wider partnership work
- ⇒ The Water Framework Directive consultation
- ⇒ Summary
- ⇒ **Questions**

# Thanks.....

## ➔ Further Reading

### ➔ River Basin Management Plans

➔ <https://www.gov.uk/government/collections/river-basin-management-plans>

### ➔ The Catchment Based Approach

[www.catchmentbasedapproach.org/about](http://www.catchmentbasedapproach.org/about)

Environment Agency, Crosskill House, Mill Lane, Beverley, HU17 9JB.  
Tel: 01709 312951. Email: james.duke@environment-agency.gov.uk