

South West Water

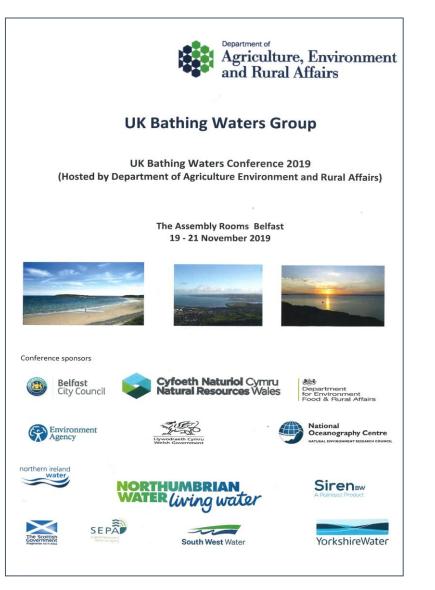
2019 NATIONAL BATHING WATER CONFERENCE - HIGHLIGHTS

Paul McNie – Waste Water Environment Manager

13th December 2019







Themes:

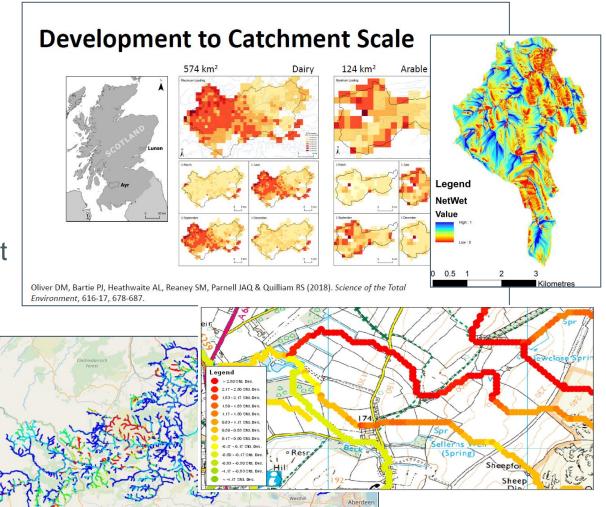
Tourism

- Access / Recreation
- > Quality
- Engagement
- Research & Development
- Benefits
- Emerging Risks
- Partnerships



Modelling

- Improved forecasting
- Relevant variables
- Catchment level
- Sources apportionment
- Pathways
- Understanding
- Communication

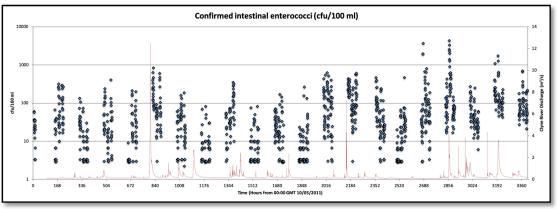


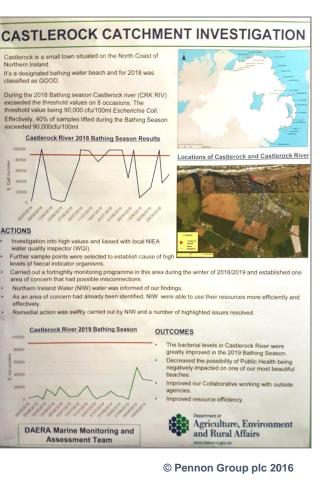
www.nercviper.co.uk ; www.fio.scimap.org.uk



Modelling

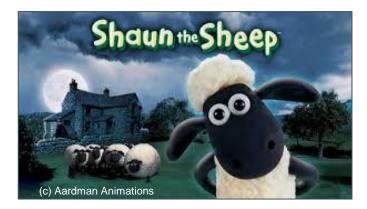
- Within day variability demonstrated at multiple 'at risk' bathing waters
- Up to 90% reduction in high flow bacti catchment loads achievable
- High cost/intensive sampling required
- Could routine predictions replace regulatory sampling (most of the time)?







Modelling



Newport North bathing water (Pembrokeshire)

Diffuse agricultural stream risk upto 1,000,000 Ec/100ml





E.coli 'equivalence'





Modelling





Intestinal enterococci 'equivalence'





2. On the 'Beach page' of website - read Frequently

vour preferred beach. NB If unsure about which piece

of equipment is best for you, contact MMF office.

4. Complete online booking request form. NB You

must send your request at least 72 hours in advance.

5. Await confirmation email with further instruction.

If no email is received contact Mae Murray

Foundation office on 0300 600 1166.

Asked Questions and Terms & Conditions.

What is an Inclusive Beach?

An Inclusive Beach is a barrier-free environment where people of differing ability, who may have been excluded until now, can come along and take part. All beaches will have beach mobility equipment available to prebook free of charge. Operating seasons, schedules and equipment options will differ from beach to beach. We ensure that we address toileting need, hoisting and adult changing bench facilities, wheelchair vehicle unloading areas, temporary walkways and accessible beach mobility equipment storage points. If you find you have a need we haven't thought of, please get in touch!

Access

- UN Declaration of Human Rights
- Inclusive / Enabling
- ➢ Free
- Membership led
- Individuals & families supported
- Council partnerships
- RNLI partnership

www.maemurrayfoundation.org



Blockages and Behavioural Change

- 80% of 40K blockages/yr = SRD
- Negative/directed messaging is disenfranchising
- Understanding social decision making processes
- Social collective normalisation
 - targeted marketing
 - moments of change
 - comparative marketing
 - 'gamification'
 - repetition
- 89% reduction in sanitary item flushing





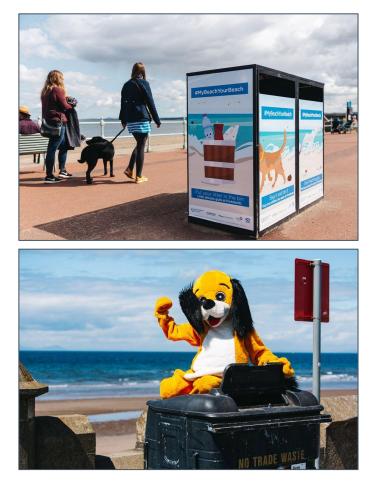
Dog & Gull Fouling, Littering and Behavioural Change

- Targeted 3 beaches
- 2 year campaign social media & site
- local groups and business engagement
- FOG/SRD & Misconnections
- Sustained presence / maintain facilities
- > Monitoring

Benefits:

- 95% engagement of beach users
- ➢ 48-70% reduction in litter (Yr 2)
- Dog fouling significantly reduced at all sites
- Online toolkit

(www.keepscotlandbeautiful.org/mybeachyourbeach/toolkit)





Benefits of Cold Water Swimming

- > What is meant by cold?
- > What is meant by swimming?
- Cold adaptation extends benefits
- Physiological responses
 - increased blood flow
 - improved heart function
 - immune response
 - reduced depression









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