

Monitoring a Bathing Site

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Coming up...

- Key Definitions
- Statutory monitoring at a bathing site
- Novel Initiatives
 - Ludlow
 - Shrewsbury
 - Informing the public

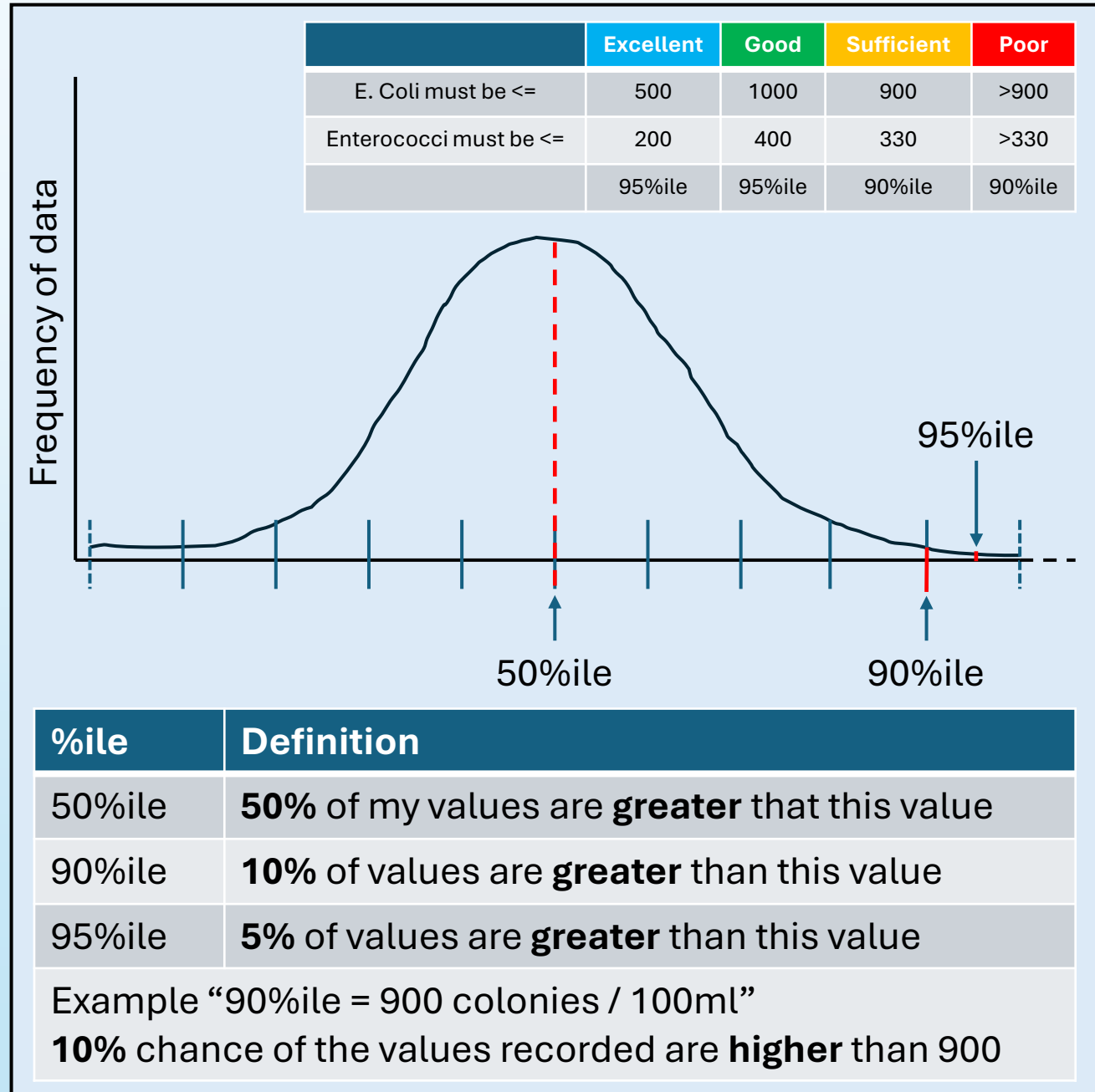
Key Definitions

Sources of bacteria:

- Sewage
- Agriculture
- Wildlife
- Pets

Responsibilities

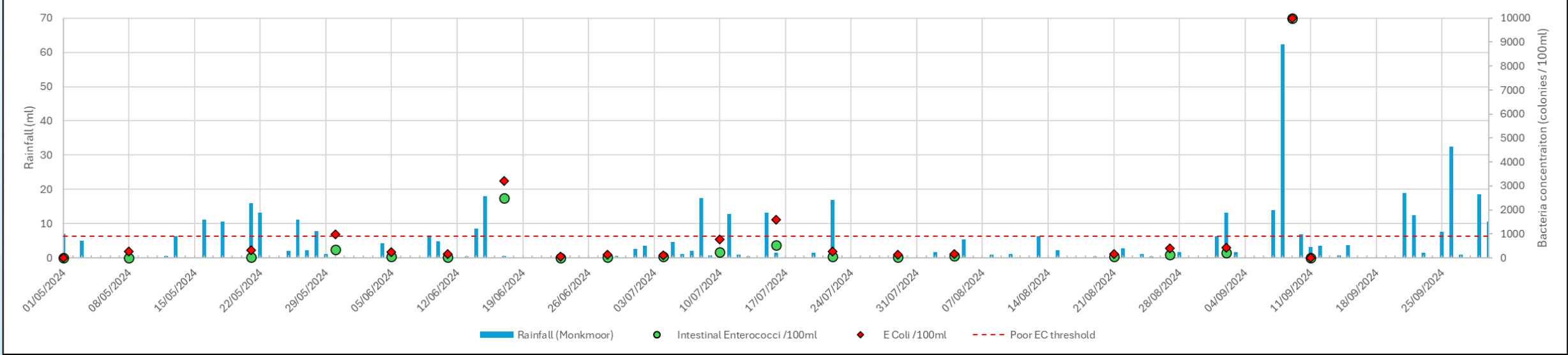
EA	Local Authorities / UKHSA
Monitoring	Public Health
Improvement Plans	Bathing Site Safety and Signage
Managing Pollution Events	Public Communication



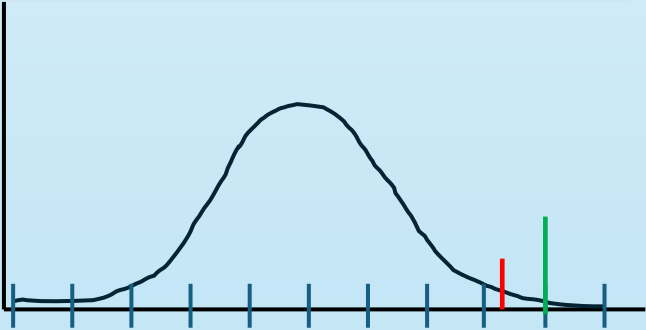
Shrewsbury monitoring

	Excellent	Good	Sufficient	Poor
E. Coli must be <=	500	1000	900	>900
Enterococci must be <=	200	400	330	>330
	95%ile	95%ile	90%ile	90%ile

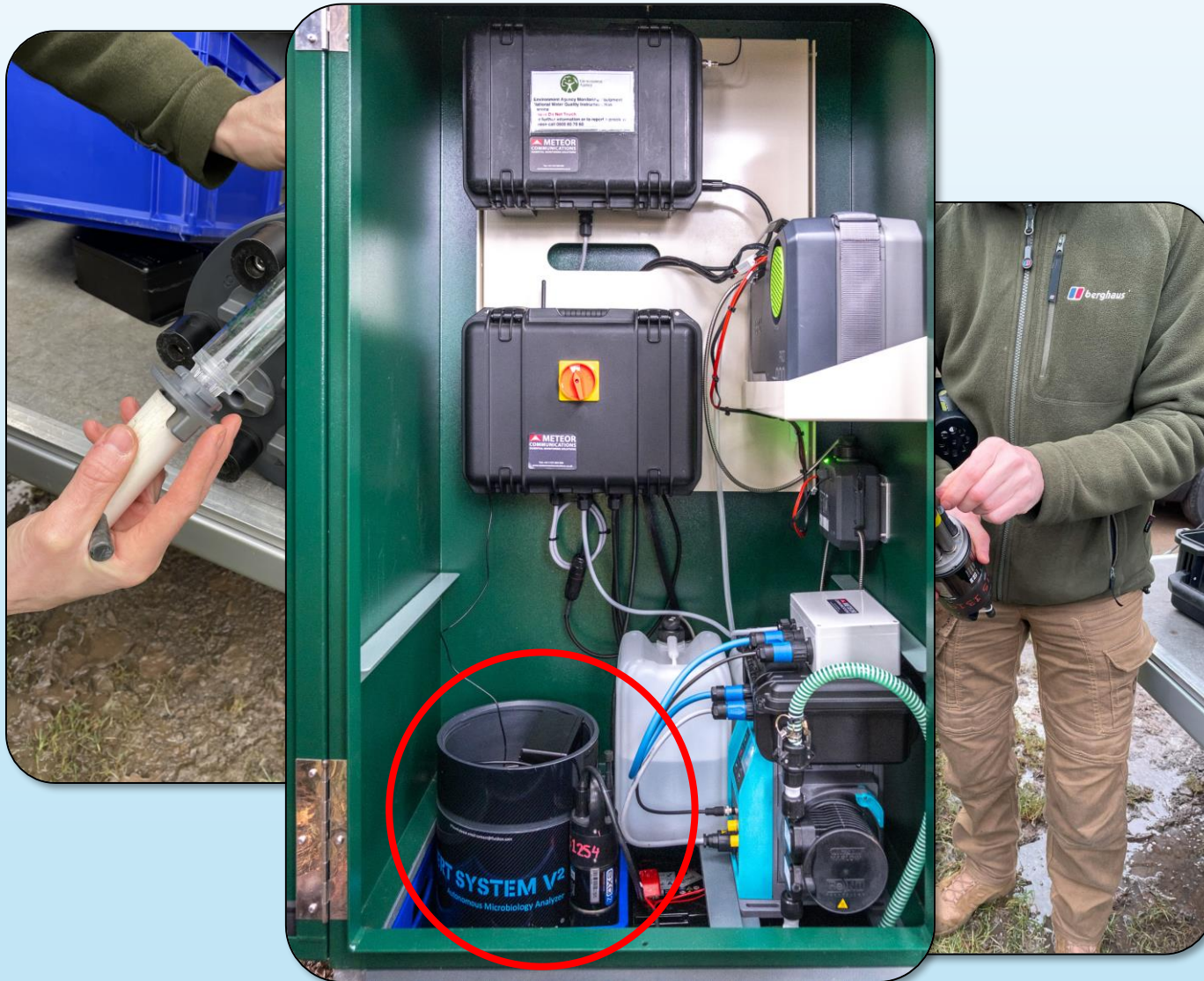
Statutory bacteriological monitoring (colonies / 100ml) at the River Sever in Shrewsbury over the 2024 bathing season compared to rainfall (ml, Monkmoor rainfall gauge)



Bacteria type	Number of results	95%ile	90%ile	Poor (> 900) EC threshold %ile	Likelihood of FAILING (approx.) Bathing Water Standards
<i>E. coli</i>	20	3168	1955	83 rd	1:5
<i>Intestinal Enterococci</i>	20	2068	1044	81 st	1:5



Monitoring - Novel Initiatives



Advanced
Wireless
Innovation
Region

Rhanbarth
Arloesi
Di-wifr
Uwch



METEOR
COMMUNICATIONS

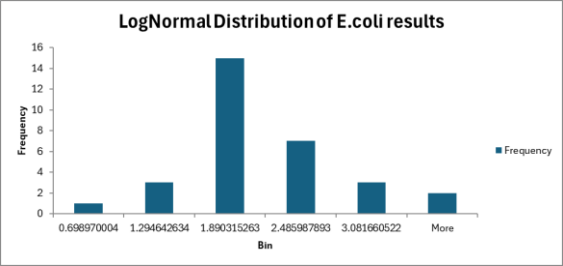
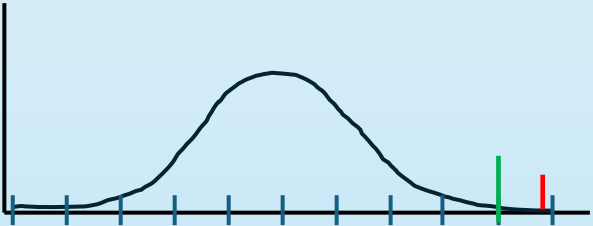
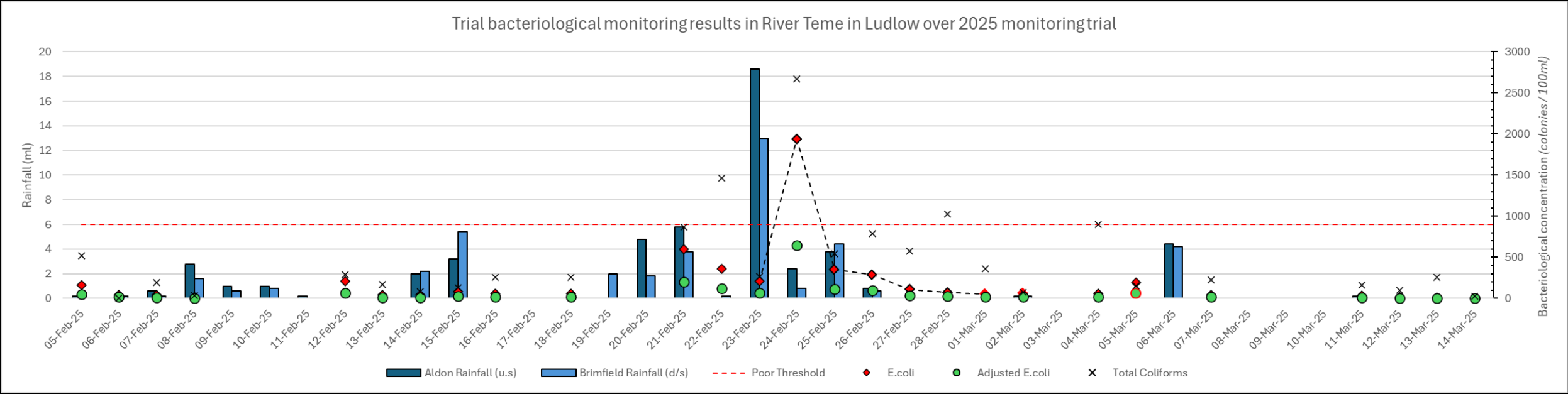
ESSENTIAL
MONITORING
SOLUTIONS



wolf logic



Environment
Agency



	Excellent	Good	Sufficient	Poor
E. Coli must be <=	500	1000	900	>900
	95%ile	95%ile	90%ile	90%ile

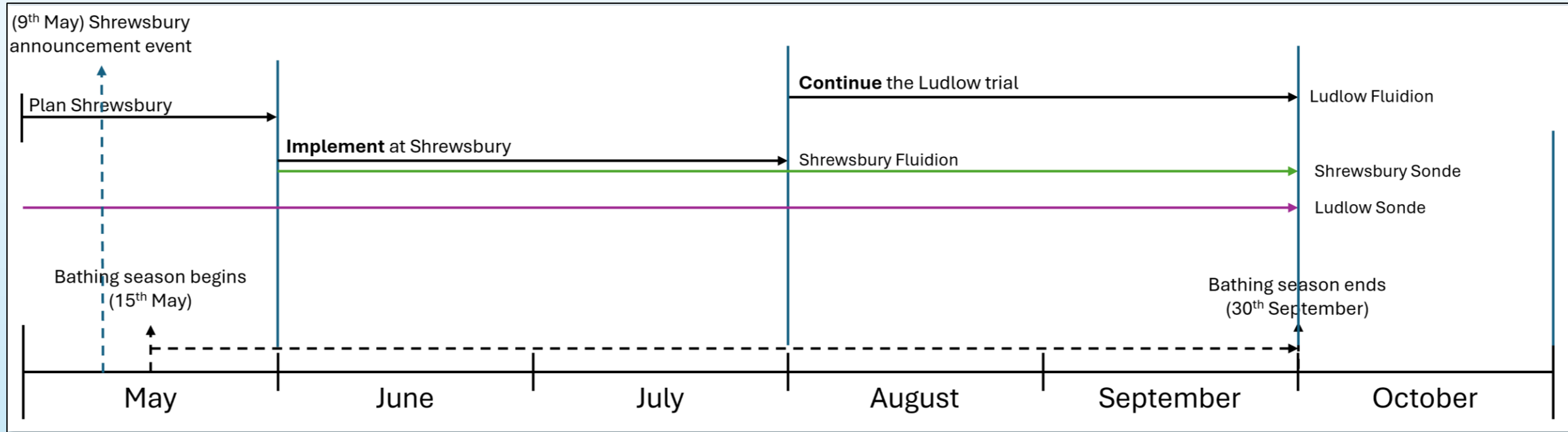
Bacteria type	Number of results	95%ile	90%ile	Poor (>1000) EC threshold %ile	Likelihood of <u>worse</u> than Poor (approx.)
<i>E. coli</i>	23	554	355	97 th	1:30

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Shrewsbury Launch event

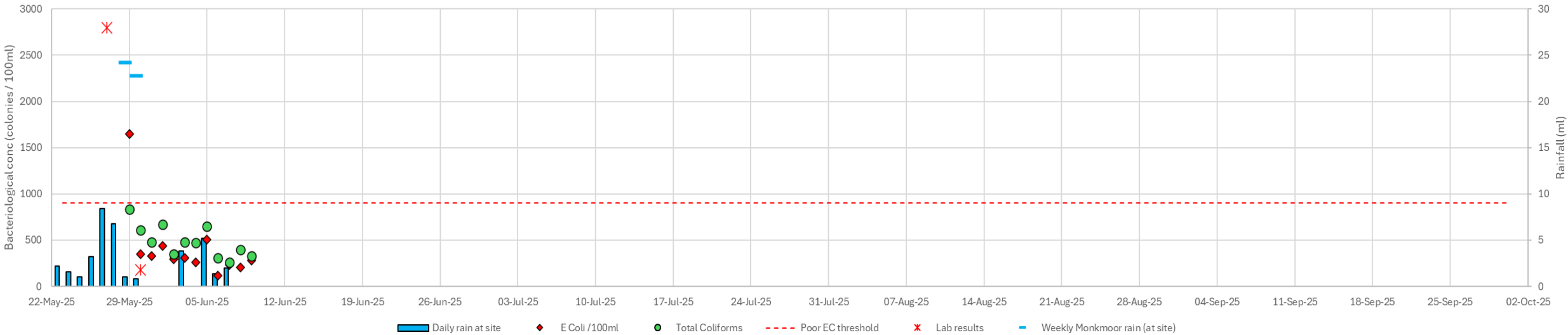


Project extension plans



Novel Initiatives – Daily Bacterial monitoring

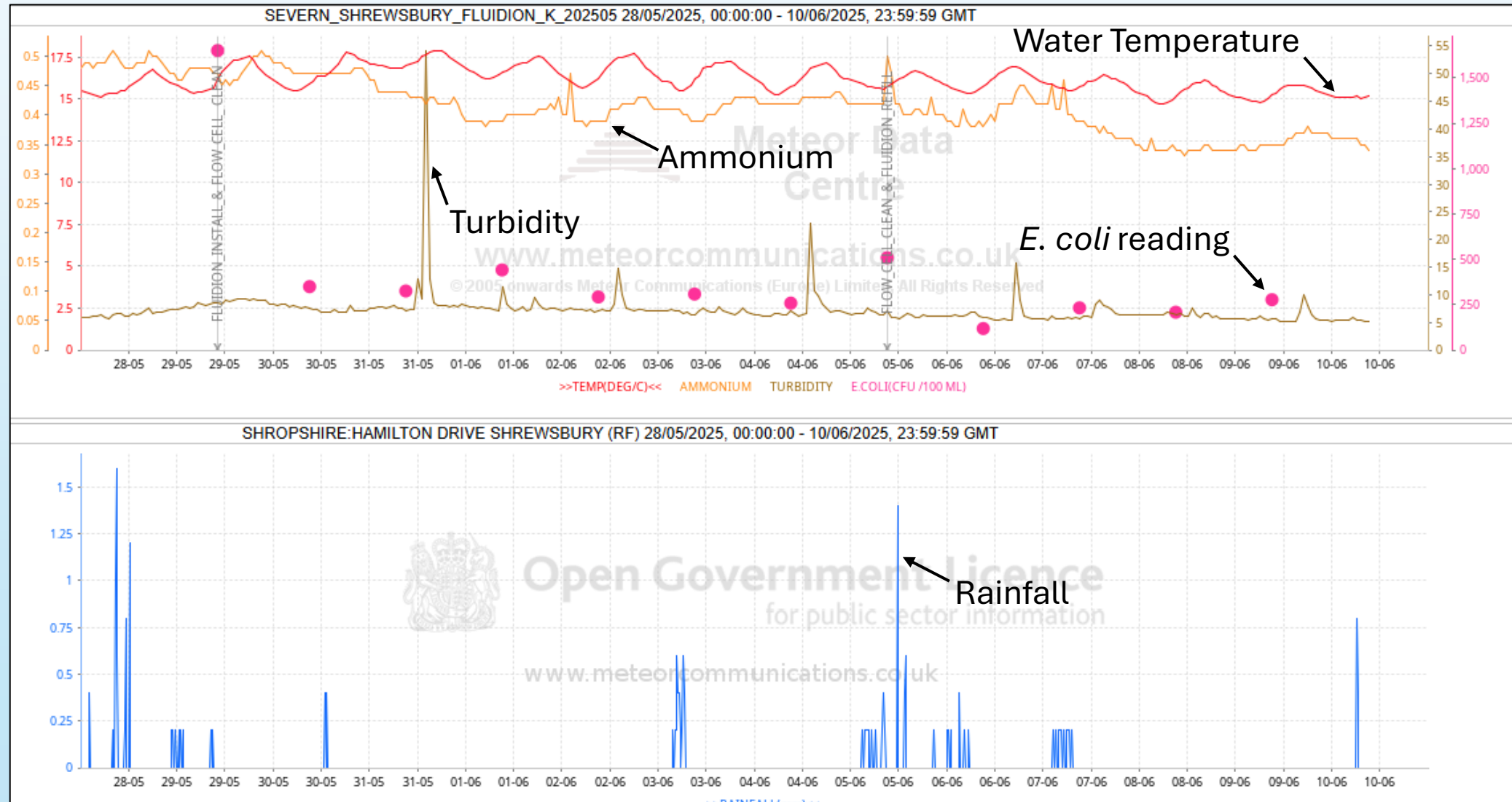
Summer results of Shrewsbury Fluidion reporting project



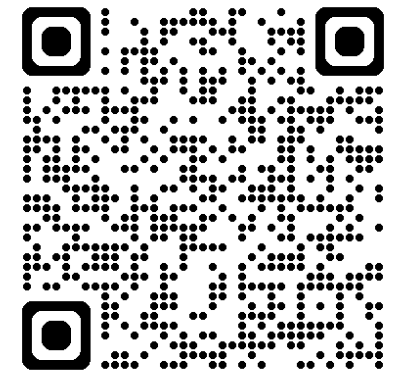
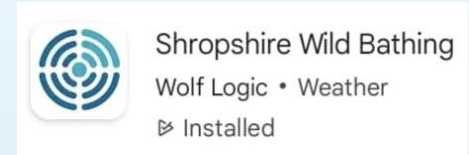
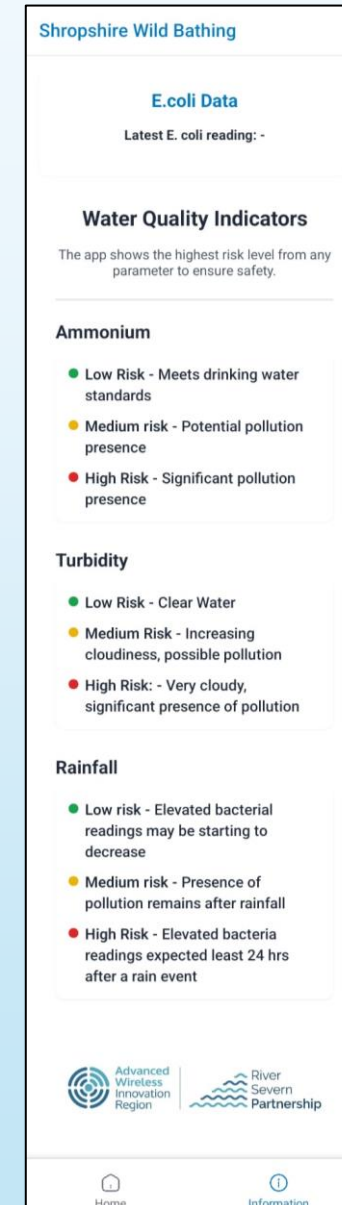
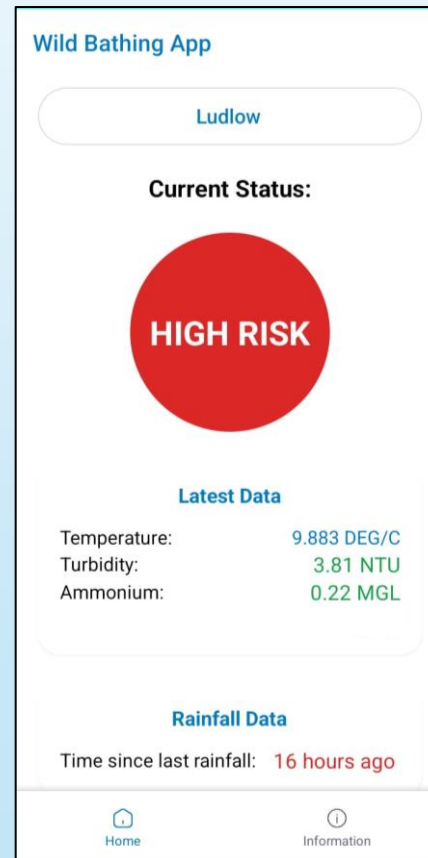
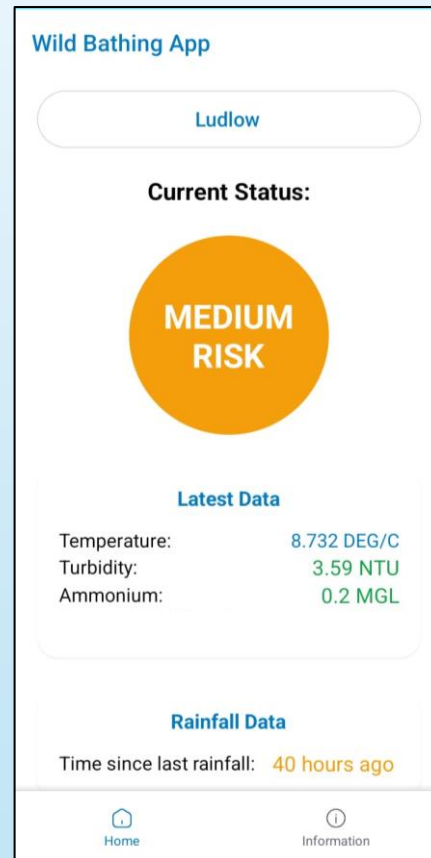
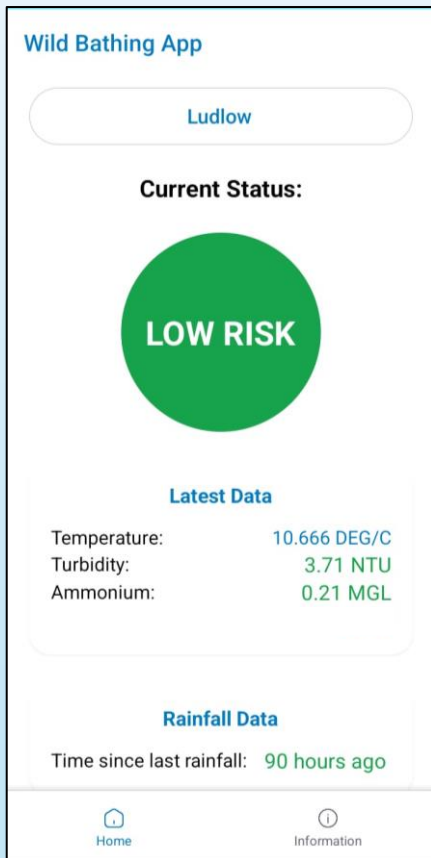
Bacteria type	Number of results	95%ile	90%ile	Poor (>1000) EC threshold %ile	Likelihood of worse than Poor (approx.)		Excellent	Good	Sufficient	Poor
<i>E. coli</i>	12	927	735	94 th	1:20	E. Coli must be <=	500	1000	900	>900
							95%ile	95%ile	90%ile	90%ile

Current data indicates: **Good**

Novel Initiatives – Water Chemistry



Shropshire Wild Bathing App



Any Questions?