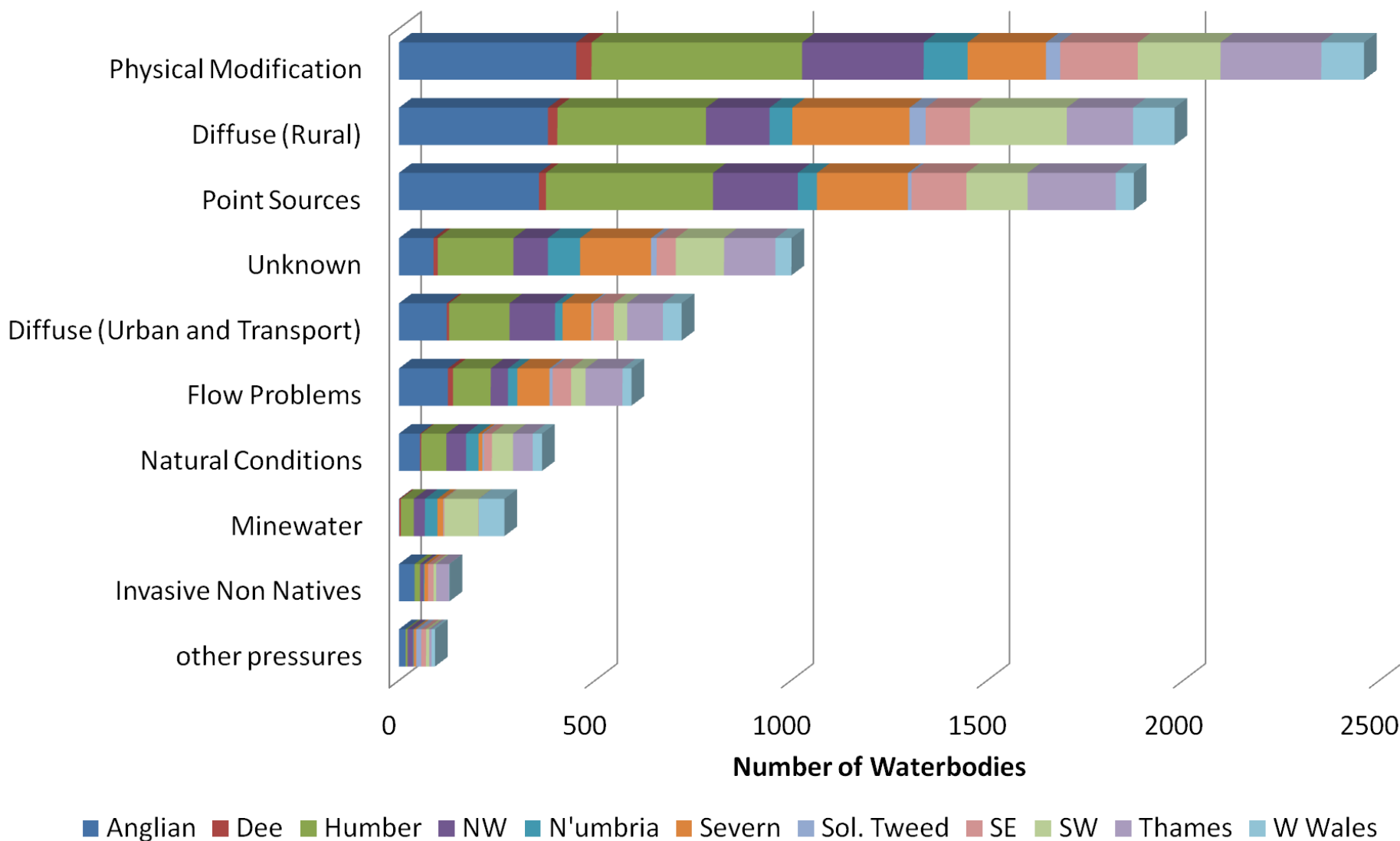


Mending lowland rivers

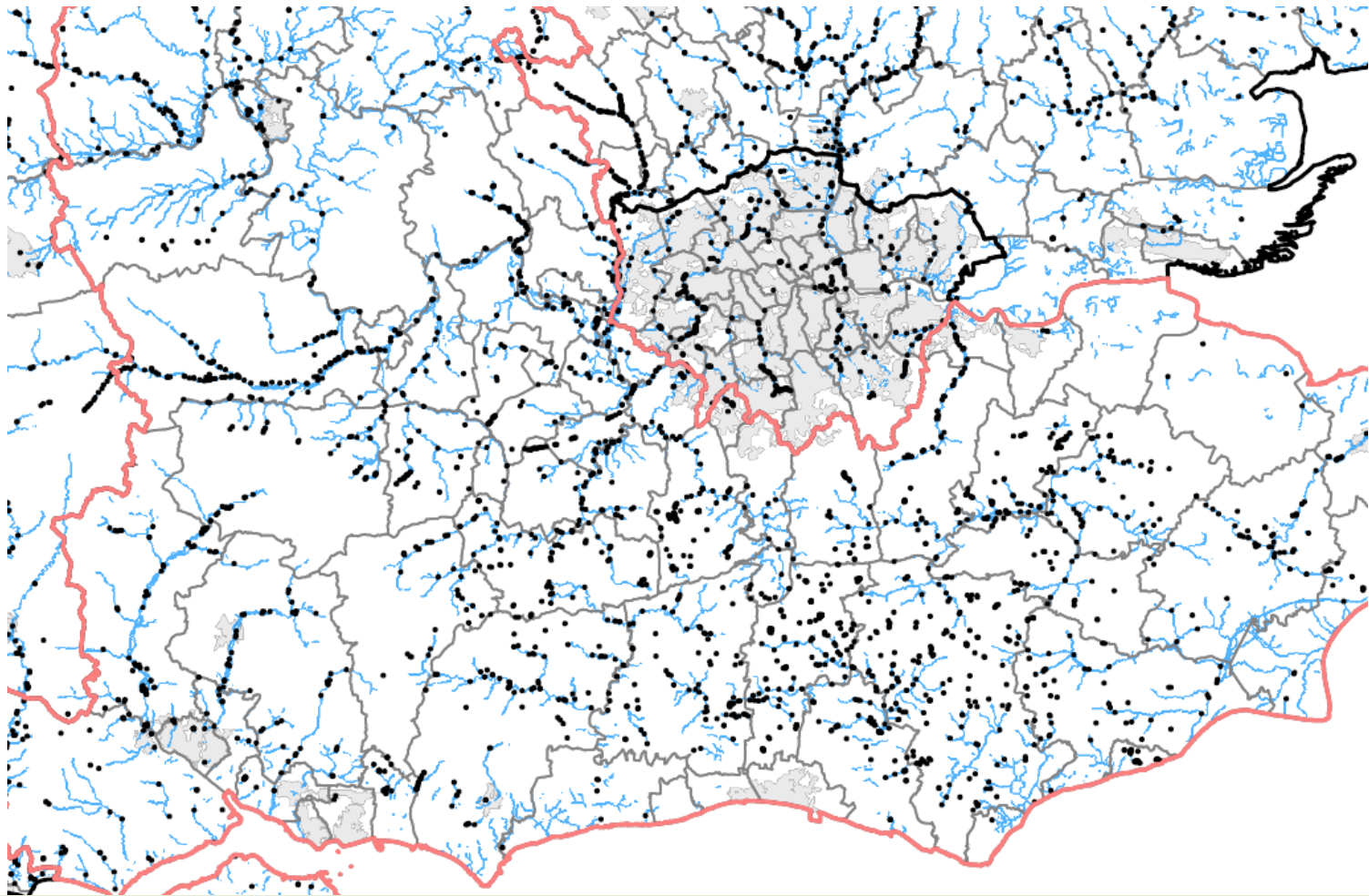
Changes in fish populations post weir removal

Dr Perikles Karageorgopoulos
Environment Agency
England

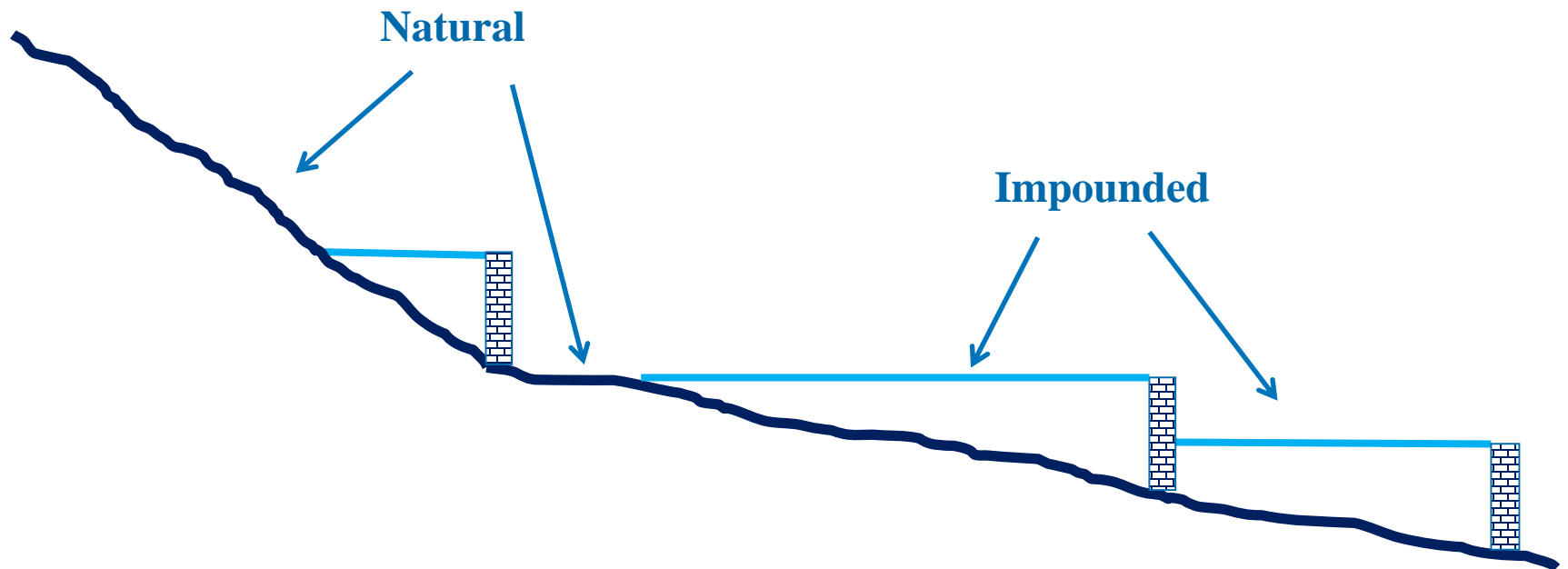
5000 out of 7406 WB are failing WFD



There are 26,000 weirs in England and Wales



Impounding effect of weirs



Impounded lowland river reach

The real issue is habitat heterogeneity, not fish passage!



Case study







15/09/2010 10:15





2009/04/12



17/08/2010



01/09/2010 10:43



10/11/2010



Jan 2011





May 2011



Ranunculus

Sept 2011



Jan 2012





New gravel bar



August 2012



September 2017

1km upstream of weir

Old river level

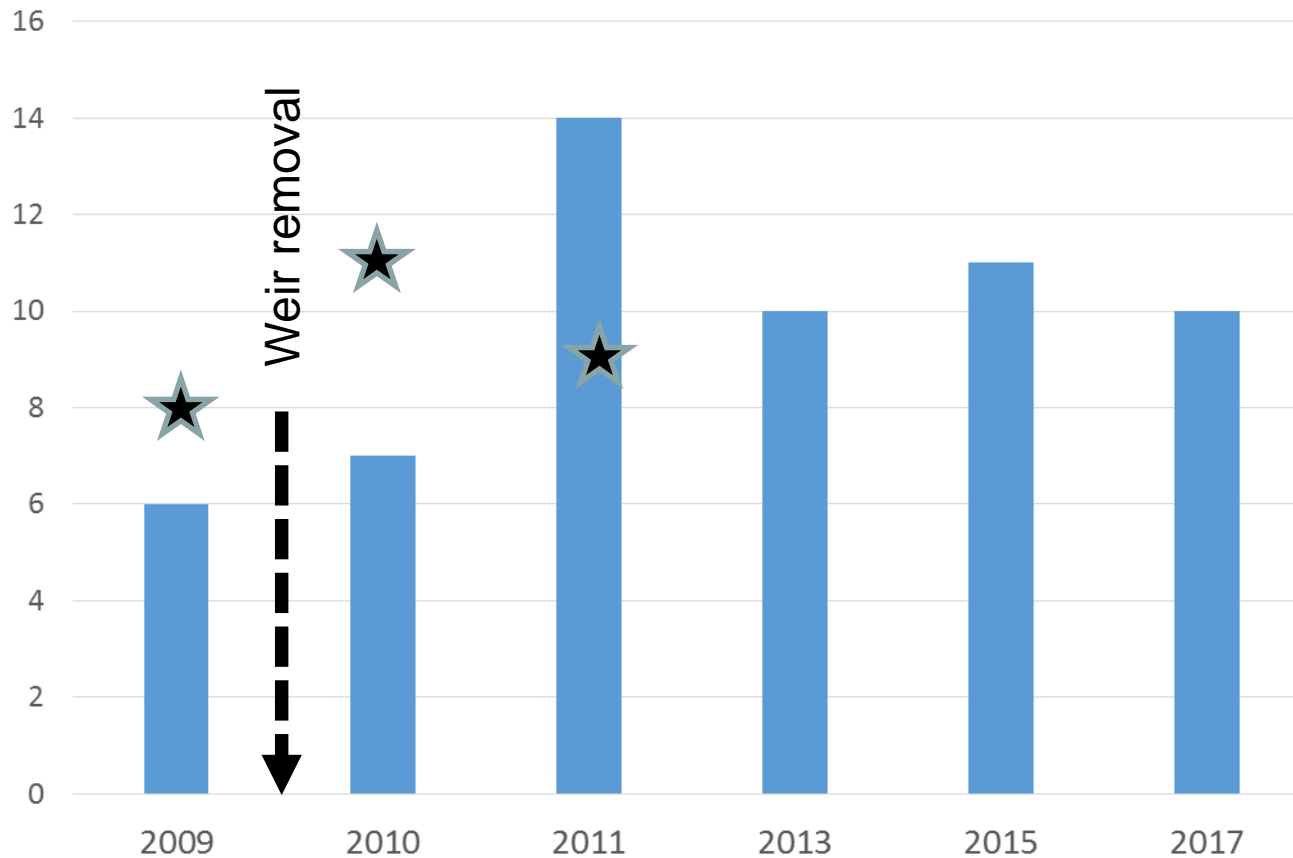


Feb 2013

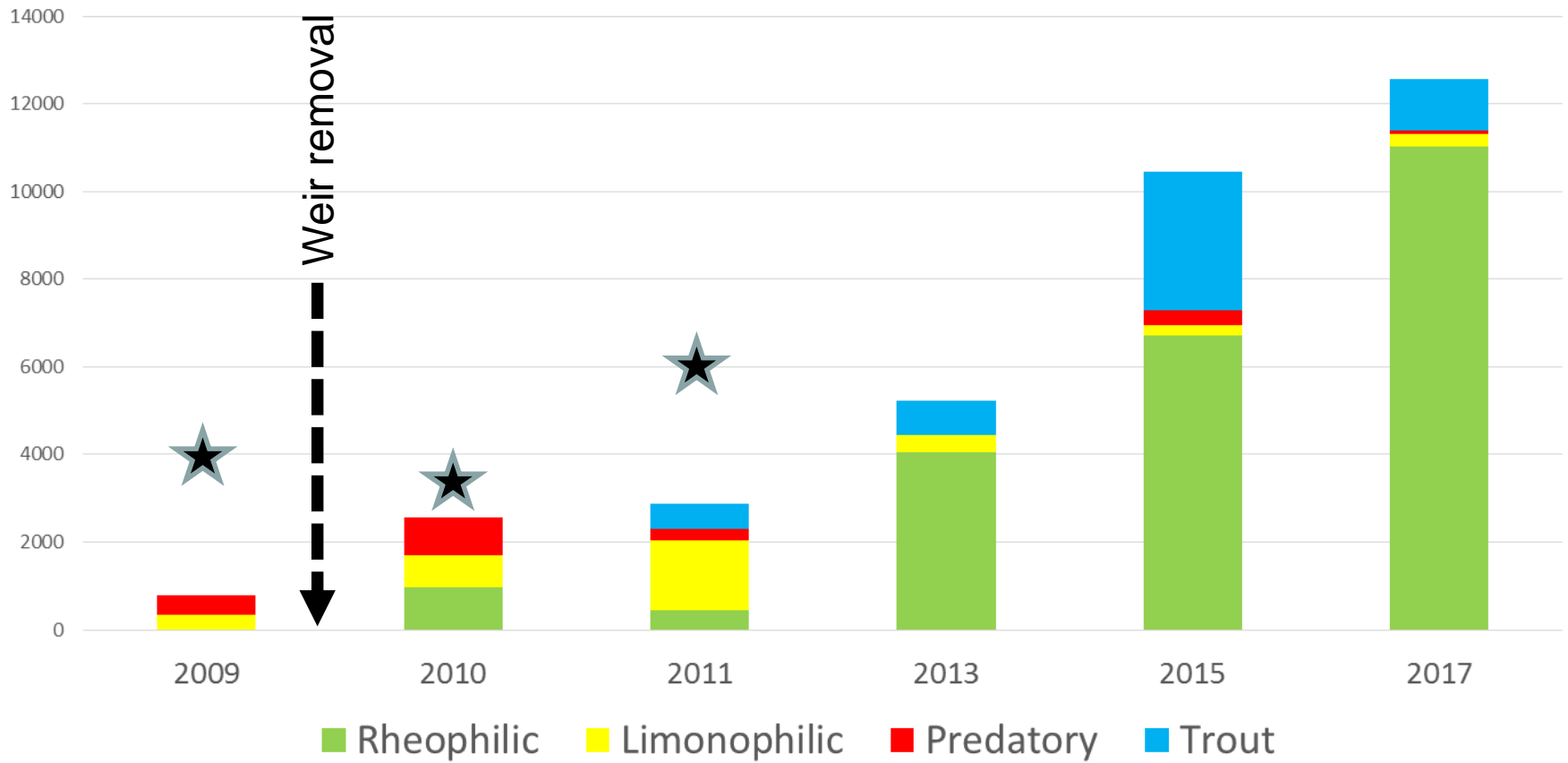
Control



Number of fish species per survey



Catch weight (g)



Invertebrates: From damselfs to mayflies



Site	Site ID	BMWP			ASPT			Diversity			LIFE (spp)		
		2009	2010	2011	2009	2010	2011	2009	2010	2011	2009	2010	2011
FM1	154344	111	83	110	5.05	4.88	5.74	2.57	2.39	2.61	6.22	6.33	7.74
FM2	154345	77	69	133	4.53	4.60	5.54	2.49	2.32	2.95	6.13	7.00	8.74

In summary

WFD classification from Poor to Good in 2 years



Any questions?

