

# Waters of



## Island Demonstration Catchment

Water Quality and Assessment

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28<sup>th</sup> September 2022



An Roinn Tithíochta,  
Rialtais Áitiúil agus Oidhreachta  
Department of Housing,  
Local Government and Heritage



# Presentation Contents

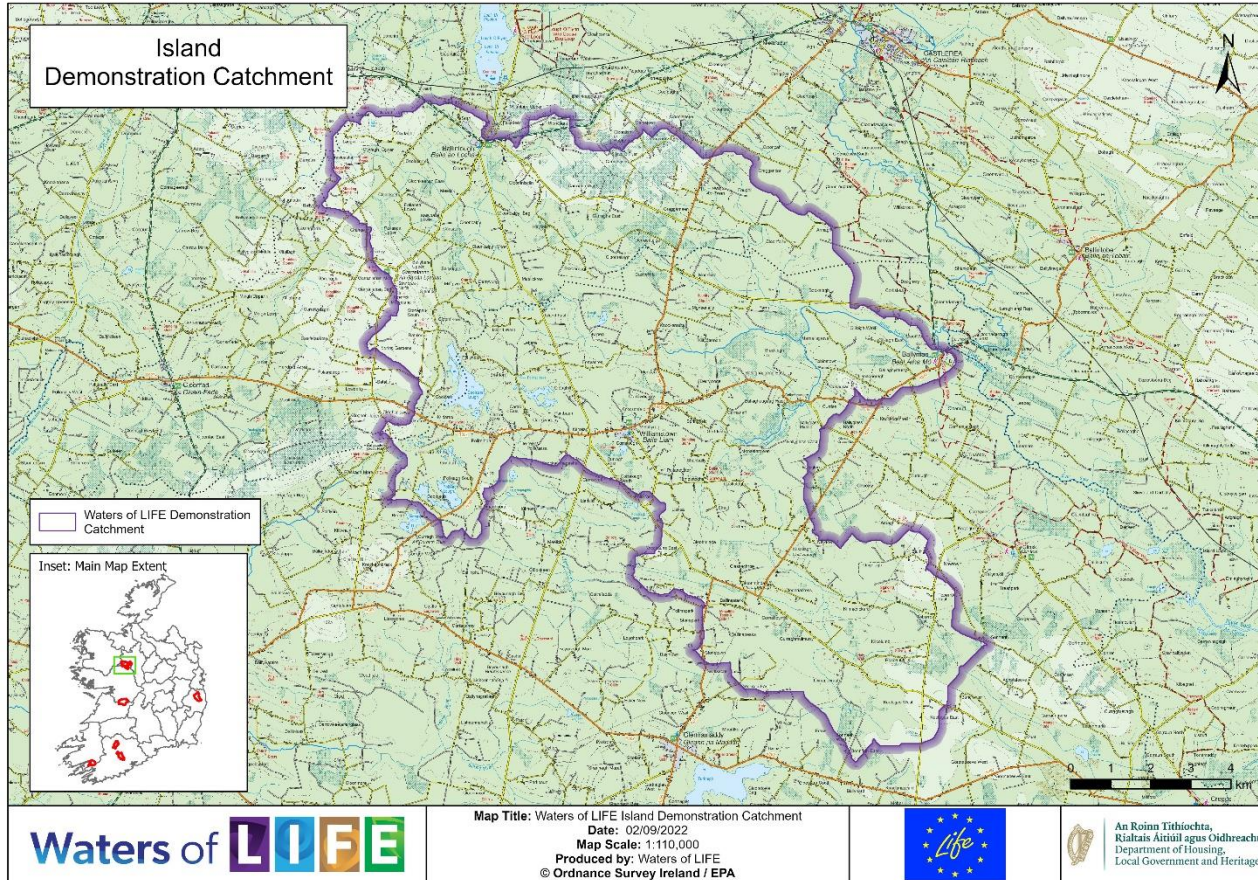
- Introduction to Catchments
- The Island Catchment
- Water Quality Measurements
- Water Quality in Island Catchment
- Next Steps – field work



© Island River, Ballymoe Bridge - (Francis Deery, LAWPRO)



# Catchments

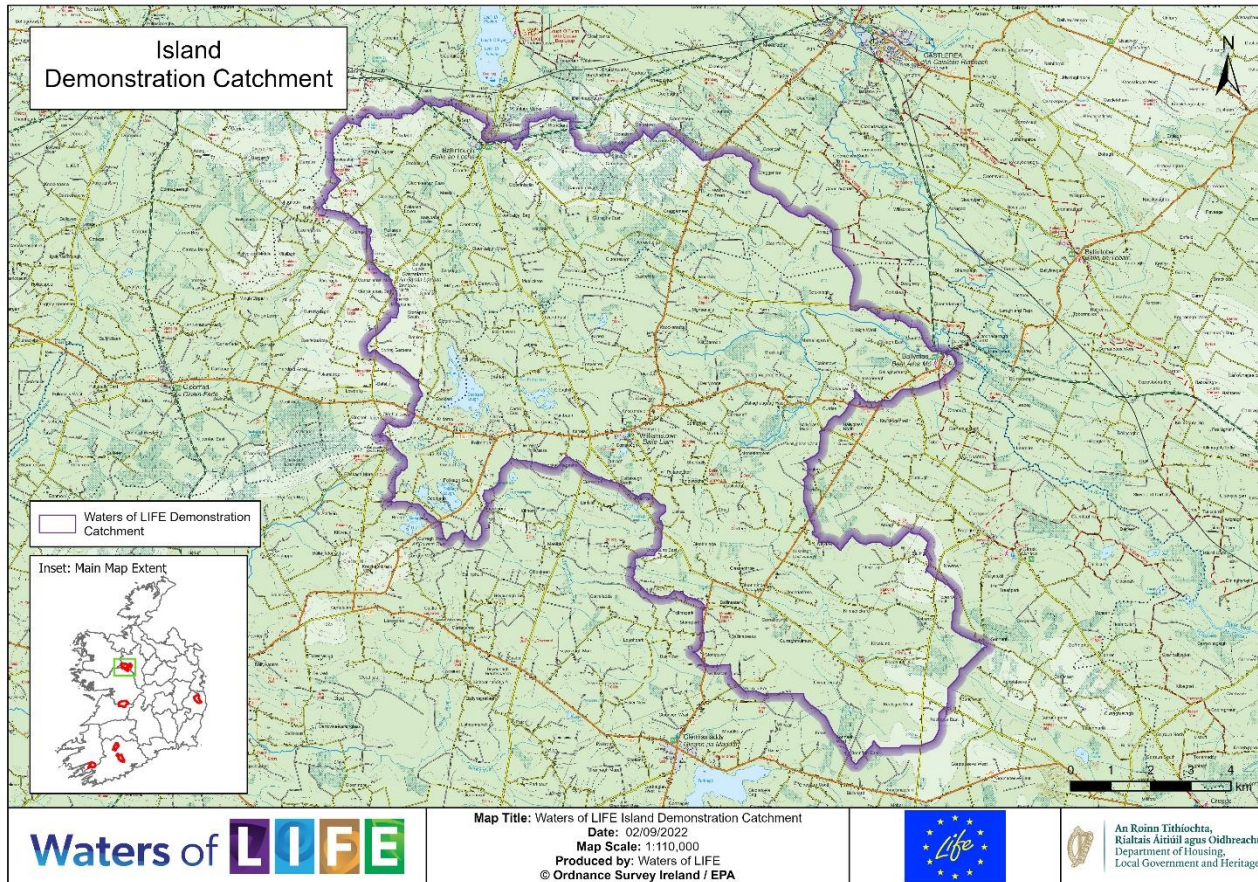


A catchment is a specific area of the landscape that collects rainfall and allows it to flow through rivers, lakes and groundwater to reach the sea.

The health of water within a catchment reflects both the natural attributes and the human activities occurring within that specific area.



# Island Demonstration Catchment



- Island sub-catchment is 136km<sup>2</sup>.
- It consists of six river waterbodies:
  - Island\_010
  - Island\_020
  - Springfield\_010
  - Springfield\_020
  - Island\_030
  - Pollynoon\_010

# Desk Study

- Background
- Receptor information – water quality data/ assessments -> conclusions on the issue affecting water quality
- Pressure – EPA information, other assessments
- Pathways – how pollutants move from land to the river

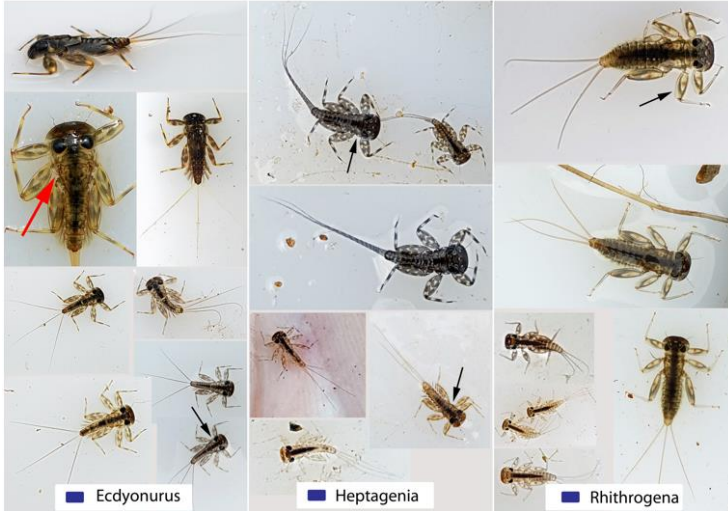
Island Catchment  
Desktop Assessment





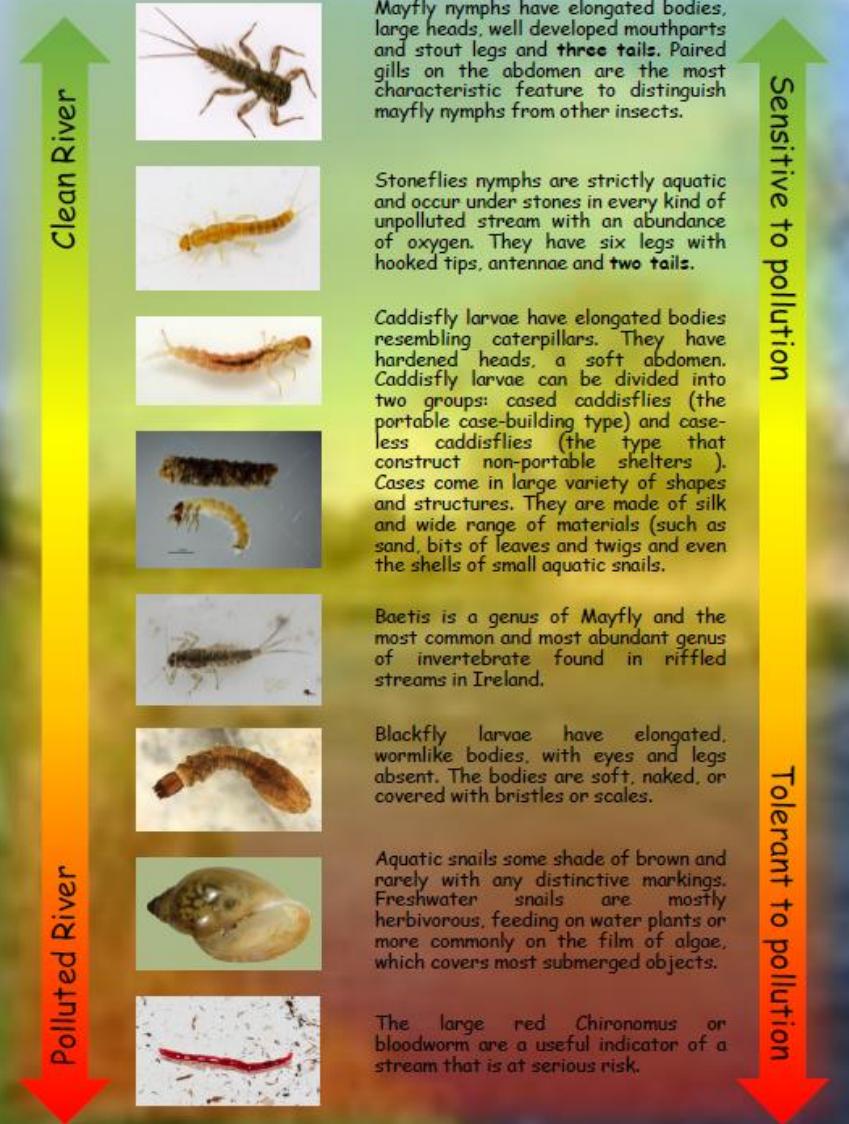
# Measuring Water Quality

## The Biological Indicators (INV)



One out all out!!!!

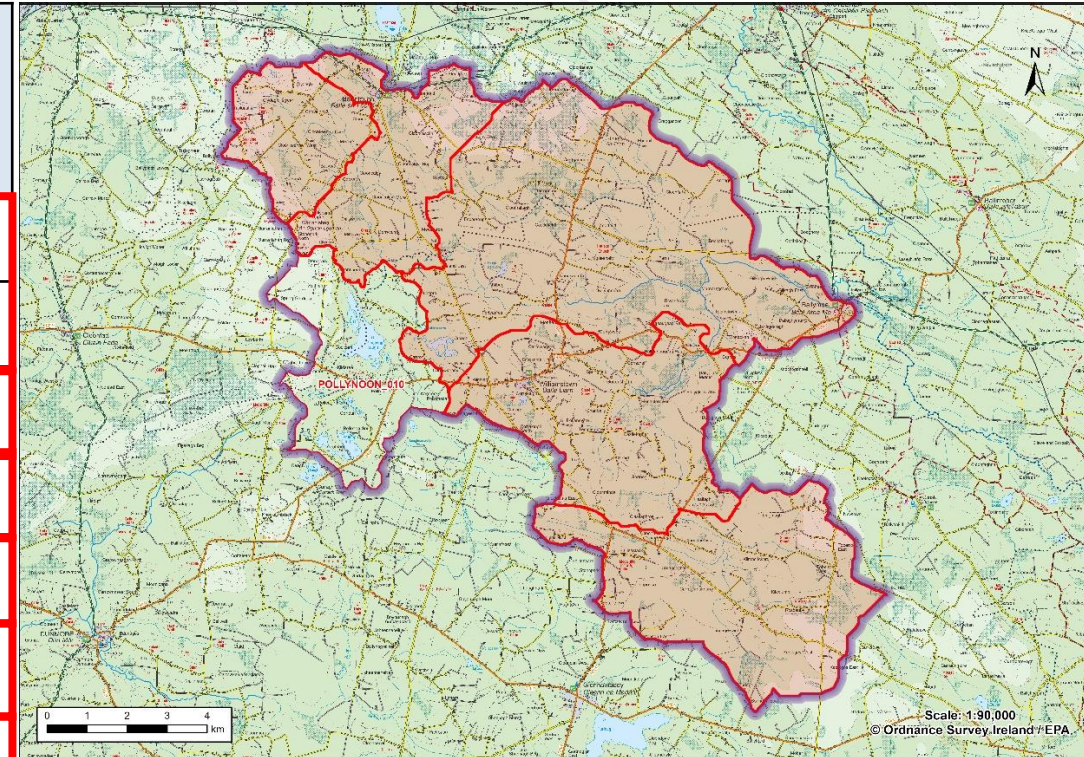
# Aquatic insects can be Indicators of Clean Rivers





# Water Quality in Island

WB name	High status obj.	Ecological Status				Pressure category
		2009	2012	2015	2018	
Island_010	No	G	G	M	M	HYMO Agriculture
Island_020	No	G	G	G	G	N/A
Springfield_010	No	G	G	G	G	N/A
Springfield_020	No	G	H	G	G	Agriculture
Island_030	Yes	H	H	G	G	Urban Wastewater
Pollynoon_010	No	UN	UN	UN	UN	Agriculture



# Immediate Next Steps

- You will see us in the catchment
- Assessment of the catchment
  - Commence October 2022
  - Identify all issue that may affect water quality
- Plan further detailed assessment
  - Catchment walks



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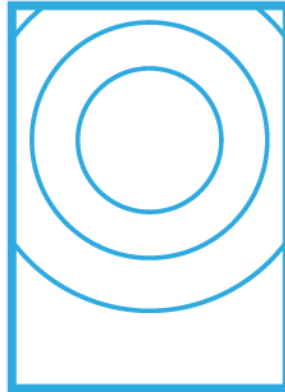


# Thank you for listening

## Questions?



**protect**



**restore**



**respect**



**sustain**