

Waters of



Shournagh Demonstration Catchment

Water Quality and Assessment

Mairead Shore

10th October 2022



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

Presentation Contents

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



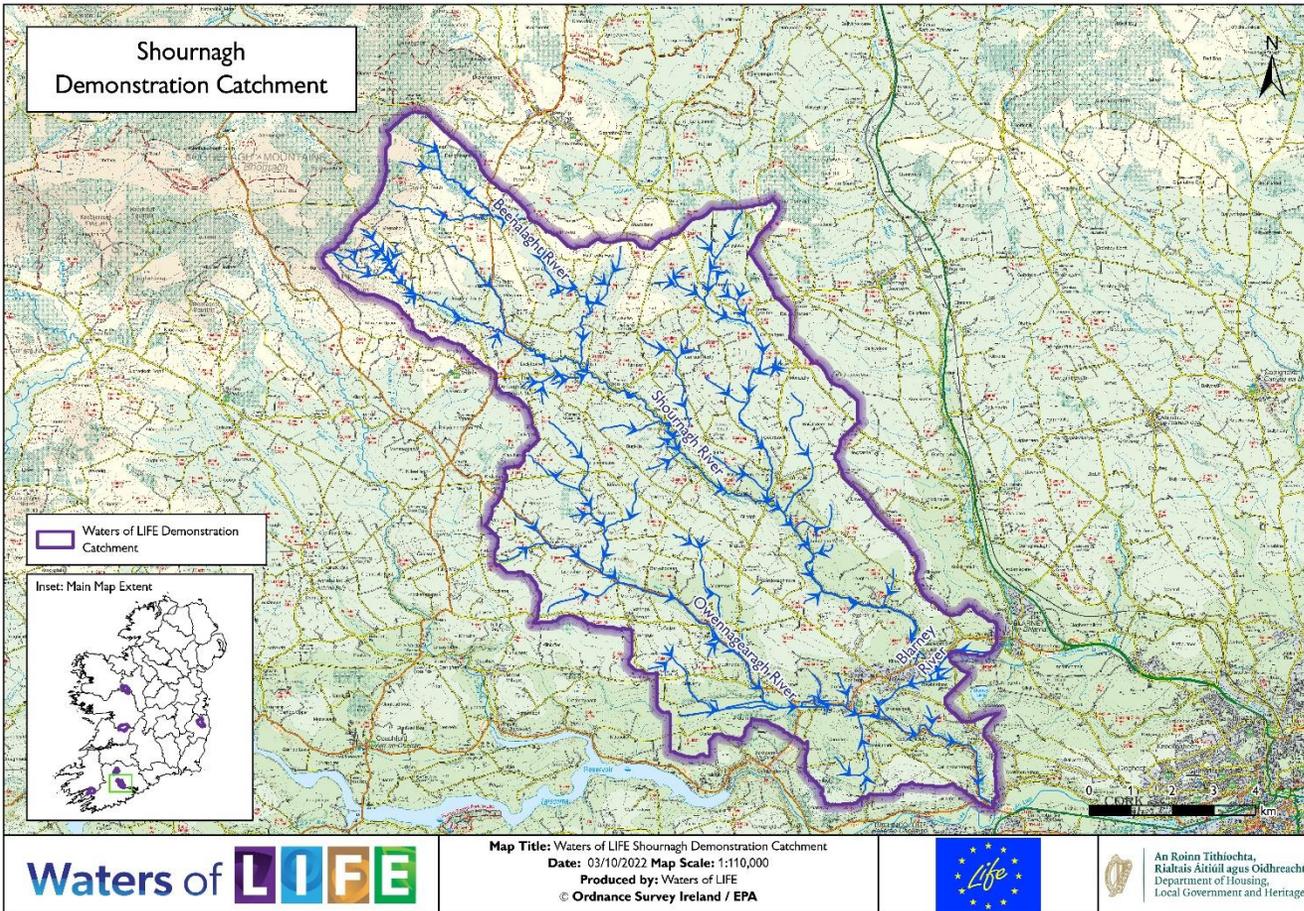
© Google maps street view on 04/04/2022 at Bannow Br on Shournagh_40

Catchments

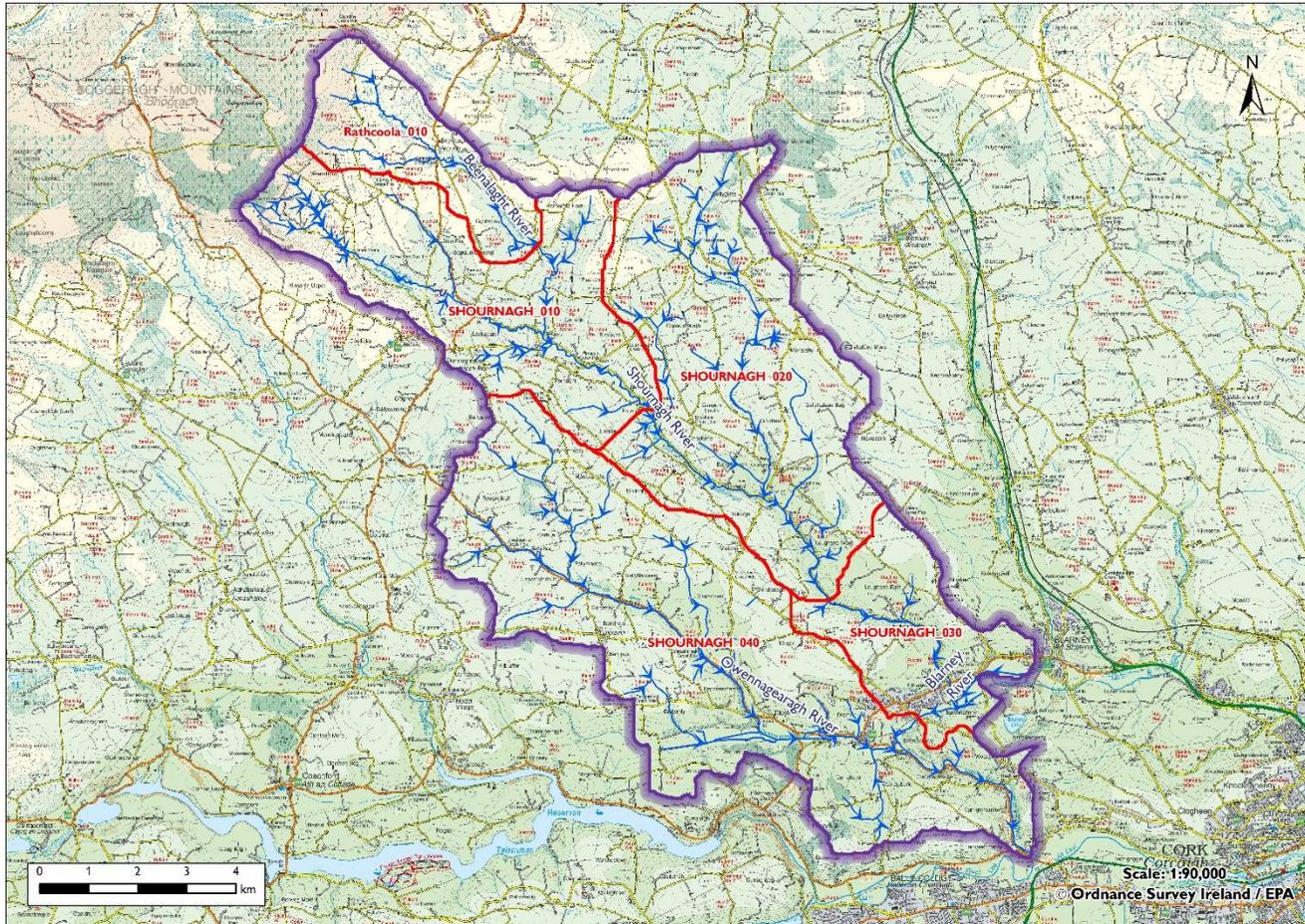


A catchment is a specific area of the landscape that collects rainfall and allows it to flow through rivers, lakes and groundwater to reach the sea.

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



Shournagh Demonstration Catchment



- Shournagh sub-catchment is 119km²
- It consists of five river waterbodies:
 - Rathcoola_010
 - Shournagh_010
 - Shournagh_020
 - Shournagh_030
 - Shournagh_040

Desk Study

- Background
- Receptor information – water quality data
- Pressure – EPA information
- Pathways – how pollutants move from land to the river

Shournagh Waters of Life Demonstration Catchment Desk Study Report



Picture taken from Google maps street view on 04/04/2022 at [Barranow, Br](#) on Shournagh_40.

Disclaimer:

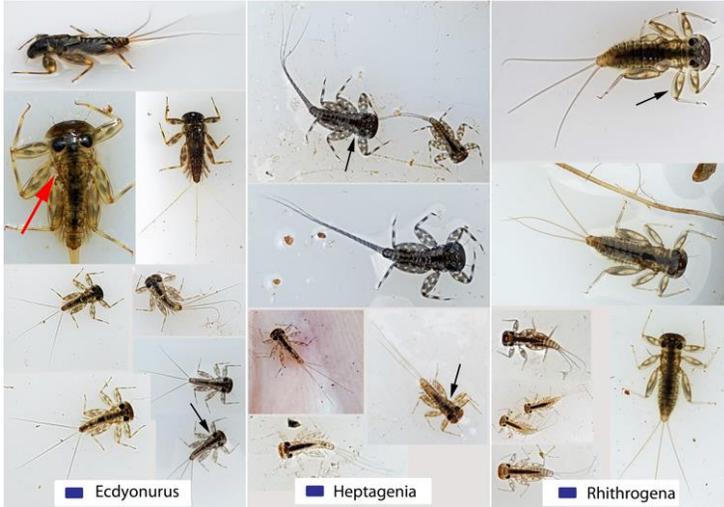
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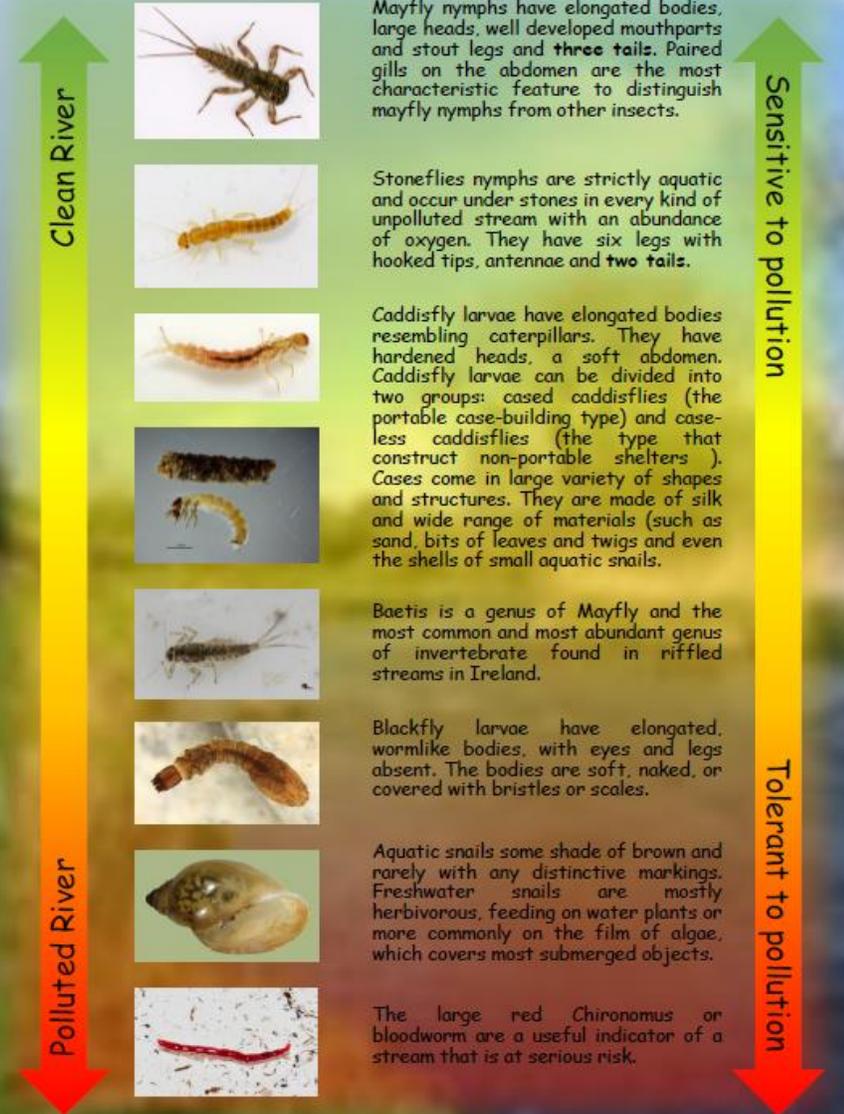
Measuring Water Quality

The Biological Indicators (INV)



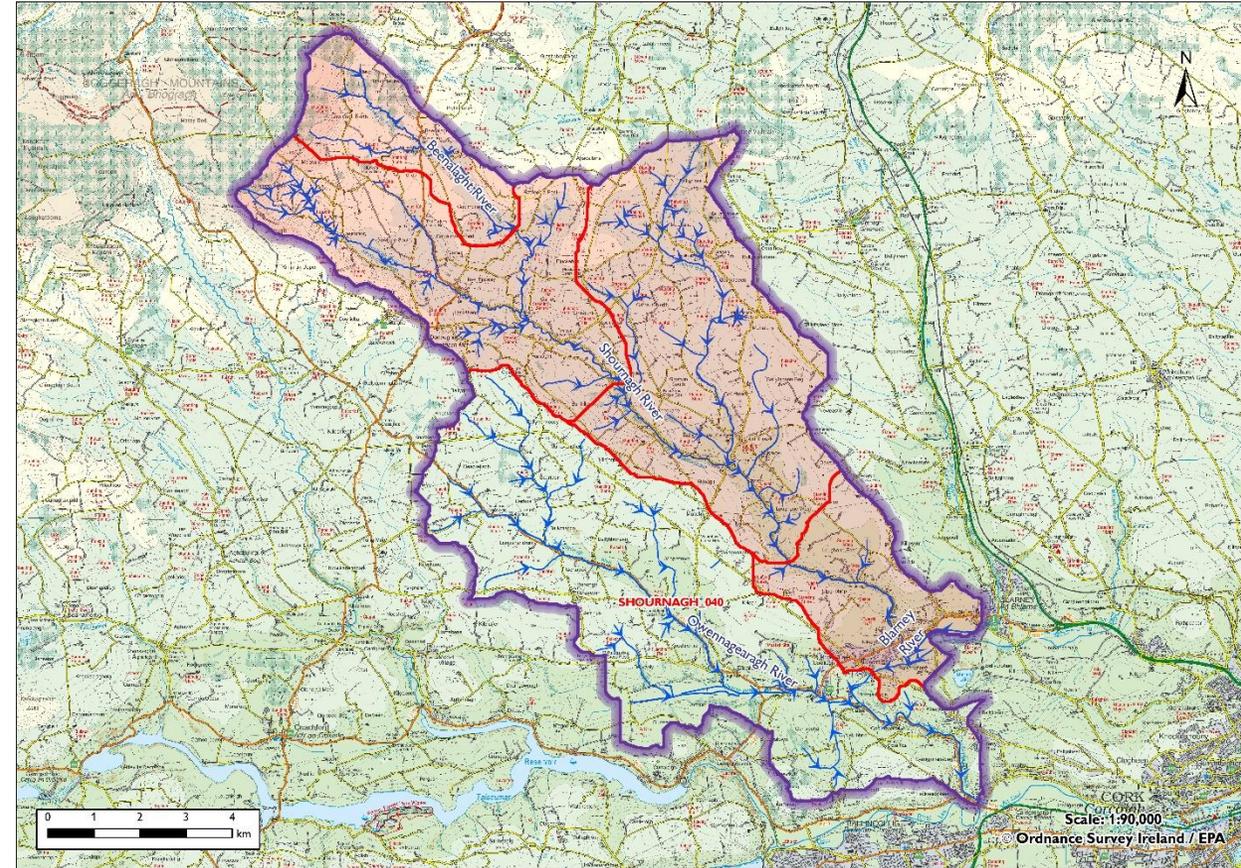
One out all out!!!!

Aquatic insects can be Indicators of Clean Rivers



Water Quality in Shournagh

WB name	High status obj.	Ecological Status				Significant Pressures
		2009	2012	2015	2018	
Rathcoola_010	No	G	P	M	G	Agriculture
Shournagh_010	No	H	M	G	G	
Shournagh_020	Yes	H	H	H	G	Hymo
Shournagh_030	Yes	G	H	H	M	UWWTP Run Off
Shournagh_040	Yes	G	H	H	M	Agriculture UWWTP DWWTP



Immediate Next Steps

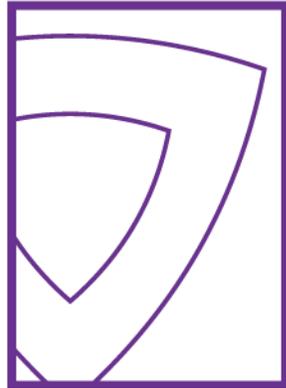
- You will see us in the catchment
- Assessment of the catchment
 - Commence October 2022
 - Identify all issue that may affect water quality
- Plan further detailed assessment
 - Catchment walks



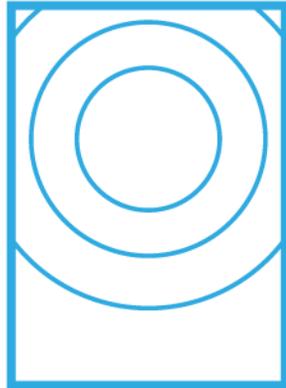
© Shournagh River at Cloghphilip - (David Hegarty/ Paul O'Callaghan - LAWPRO)

Thank you for listening

Questions?



protect



restore



respect



sustain