

Waters of LIFE Advisor training

Module 3 - Pollutants of concern

January 2025





Pollutants of concern

Focusing on the most common significant issues



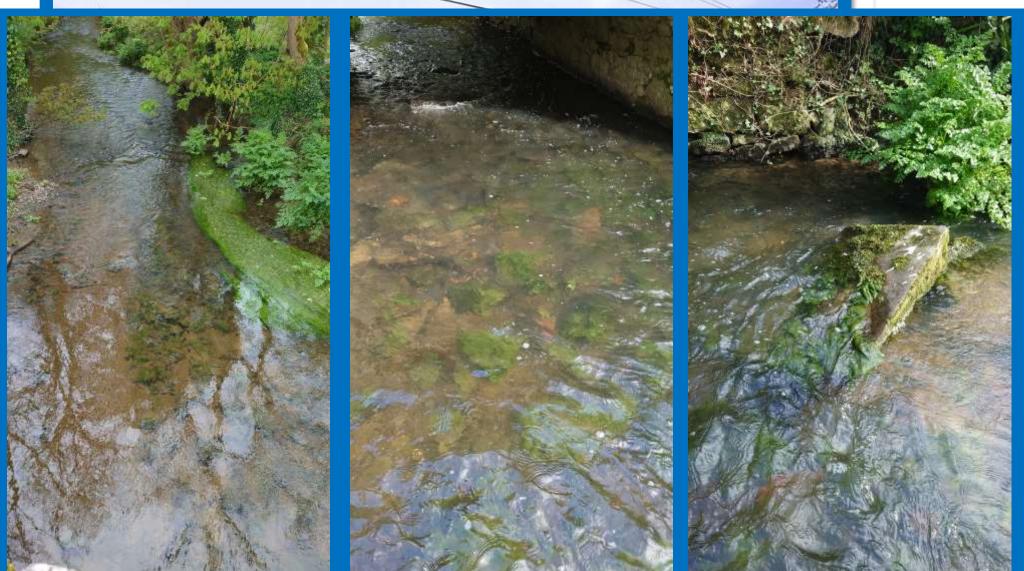
- The annexes to the WFD specify the monitoring requirements and assessment criteria for water quality parameters
- There are well over 50 parameters that are detailed explicitly in the directives
- There are many parameters that become significant issues High Status Object waterbodies





Pollutants of concern – Nutrients: Phosphate





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Nutrient Surplus



Overland – direct runoff



Manure Application (timing)



Overland – indirect runoff



Soiled water



Pipe - direct



WWTP



Pipe - direct



DWWTS – Septic tank



Overland – indirect runoff

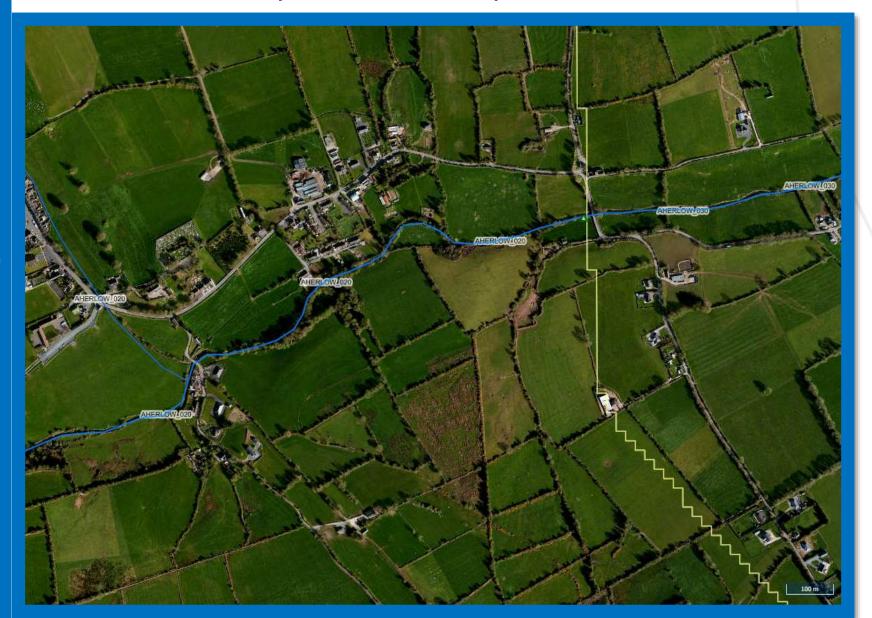


Peat soils



Direct – in situ

Pressure ≠ impact – Phosphate









Pollutants of concern – Nutrients: Nitrate







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Grazing animals – urine patches

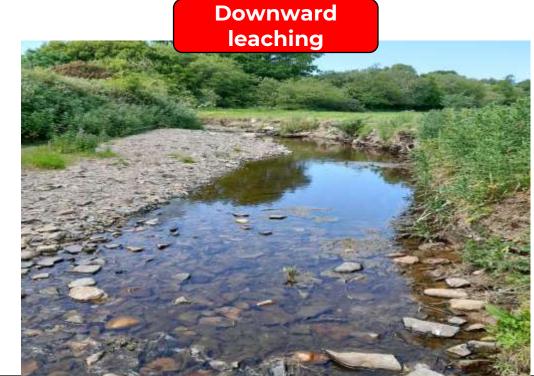


Nutrient Surplus



Leguminous plants





<u>Source</u>

<u>Pathway</u>

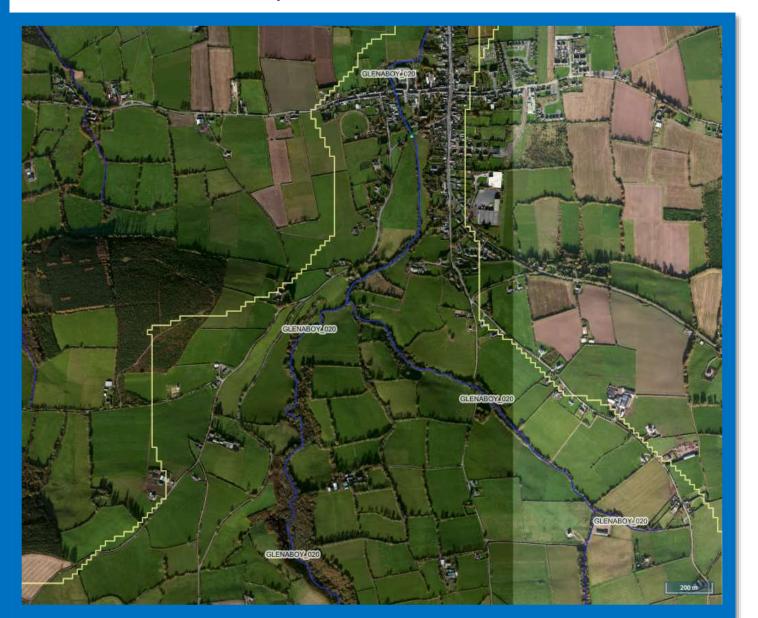


Ploughing



Downward leaching

Pressure ≠ impact – Nitrate









Pollutants of concern - Nutrients: Ammonium











WWTP & DWWTS



Pipe - direct



Organic manure



Overland – direct & indirect runoff



Peat soils



Direct – in situ

Pressure ≠ impact – Ammonium





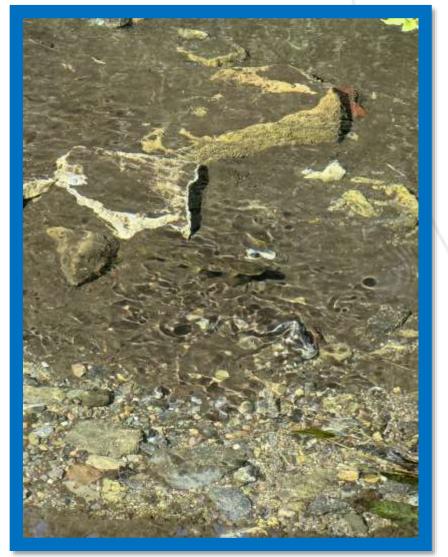




Pollutants of concern – Sediment















Poaching/bare soil



Direct - runoff



Forestry



Indirect drainage



Peat extraction



Direct – in situ

Pressure ≠ impact – Sediment







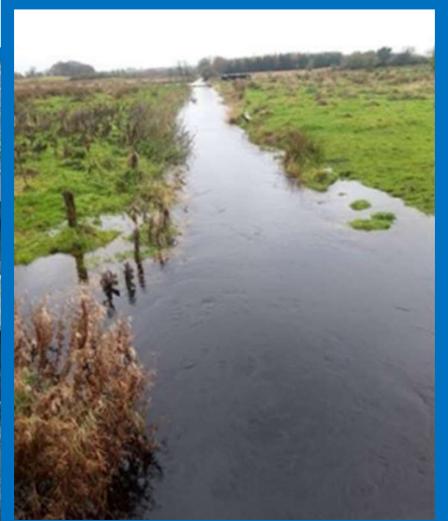
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Pollutants of concern – Hydromorphology









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Co-funded by the European Union

<u>Source</u>





<u>Pathway</u>













Pollutants of concern – Pesticides















Crop protection



Overland – direct & indirect runoff



Rush control



Overland – direct & indirect runoff

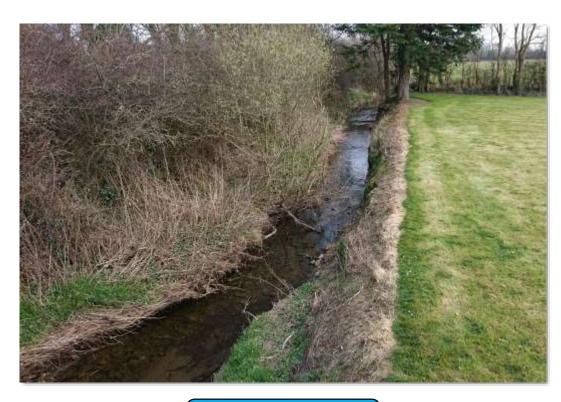


Sheep dip



Overland – direct & indirect runoff

<u>Source</u> <u>Pathway</u>



Domestic use herbicides

Overland – direct & indirect runoff

Source

Pressure ≠ impact – Pesticide







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Pollutants of concern – BOD (organic material)



"BOD is the amount of dissolved oxygen needed by aerobic organisms to break down organic material present..."







<u>Source</u>





<u>Pathway</u>





Key Takeaways

Focusing on the most common significant issues



- Pressure ≠ impact
- Issues have multiple sources
- The pathway and source is often verified by the advisor or practitioner on the ground
- Ask for the reasoning and the method and the data related to the significant issue – as farmer questions come in





