







Combining Catchment Science & Agricultural Advice to Improve Local Water Quality

Cathal Somers (Teagasc ASSAP Advisor Waterford)









Collaboration & Funding



Agricultural Sustainability Support and Advisory Programme (ASSAP)

Farming For Water Quality























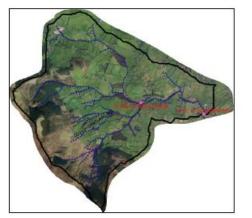






Collaboration with Philip (LAWPRO)





Clodiagh PAA

	Risk	Status obj.	Ecological Status						
WB Name			2007-	2010-	2013-	2013-	Monitoring	Pressure Category	Initial Characterisation
			2009	2012	2015	2018	station		
Clodiagh (Portlaw)_1 0	At Risk	Good	Moderate	Good	Moderate	High	Br E of Shanakill Ho (RS16C030100)	Agriculture (Pasture) Forestry (Forestry)	Nutrient pollution Nutrient pollution







Farmers Meeting



- Learn from each other
- Support and engagement
- Farmers are very interested in meeting the lad that hangs around bridges

Local water quality









Science, Advice and the Farmer







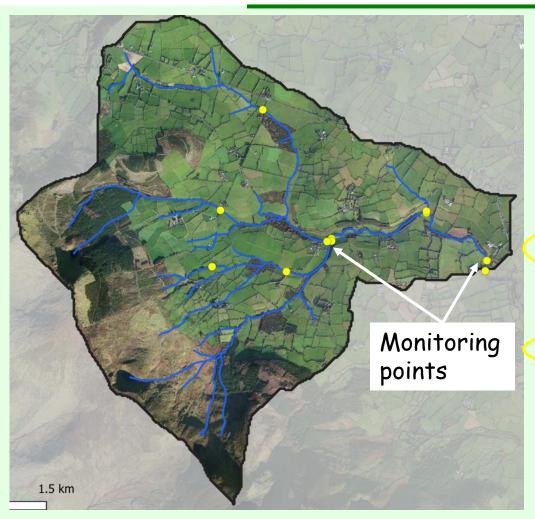
- Trust & build relationship
- Feedback loop (LAWPRO)
- · Targeted approach
- Box clever limited resources







Referrals from LAWPRO



<u>Observations</u>	Recommended actions
Slightly elevated DO in summer sample	
– indicating presence of macroalgae growth upstream	Referral for this location is connected to Site 002 and 003
Presence of macroalgal growth and low DO observed in winter season	Referral to ASSAP to look for evidence of nutrient pollution nearby, farmyards or cattle access
Presence of macroalgal growth and considerable low DO observed in winter season	Referral to ASSAP, cattle access and drinking points were observed here and are possible sources of nutrient pollution which may have led to the algal growth. Investigate if these pressures can be addressed.
Considerably low DO, and some macroalgal	Referral to ASSAP, predominantly agricultural land use in surrounding area,
growth upstream	investigate if there is a nutrient pollutant source upstream of this tributary
-	<u>-</u>
Road drains and sediment run off from farm roadway	Referral to ASSAP, investigate farm roadway for sediment runoff
Seaiment	Referral to ASSAP, rule out sediment from farms along this tributary
-	-
-	-
Fish Barrier	Submit information for IFI about fish barrier and risk to FPM
-	-



Farmers addressing issues in referral areas









Farmers Finding Solutions

















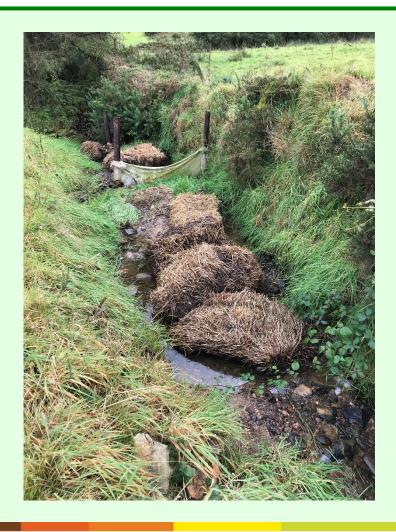
Break the Pathway





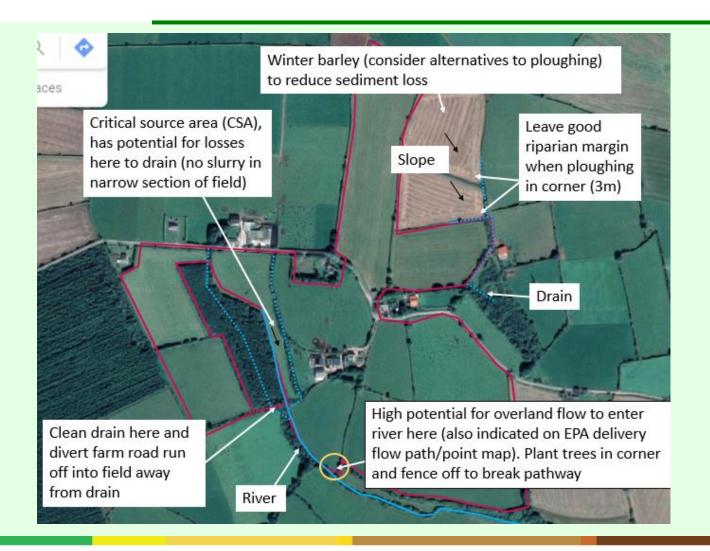








Plan for Each Farmer





Please note this is an example (not in Clodiagh PAA)



The advice & implementation

- Up to 45 farm assessments carried out in the Clodiagh PAA
- Each farmer has advice and a plan
- All issues found relating to referrals addressed
- 93% engagement
- Total number of risks identified 330

Issues Assessment		Average number of Issues per farm			
Total No of Issues identified	330				
Risk Category 1 (High)	227	69%			
Risk Category 2 (Moderate)	44	13%			
Risk Category 3 (Low)	59	18%			
Action Agreed	300	91%			
Action Not Agreed	32	10%			
Unassigned	-2	-1%			



Good work in the Area



What Actions are Recommended in the Area?

- Soil test every 3-4 years, based on results apply litre, phosphorus (P) and possisium (K). Aim for ledex 3 for P & K to improve nitrogen efficiency, however on lower exceled forms index 2 is sufficient.
- Adequate Buffer imagine to be maintained along all authors was ordines when apreciding organic measures (for minimum increased to 10m if apreciding in Jesuary or October). Placeology search buffer modifies are seen more effective and will also increase biodivistile on the form.
- Ensure farinyerd locates are collected and do not enter open drains or river
- Avoid spreading at high risk areas and since poor gross growth, soil temperature below 5.5 degrees, beauty rain forecast or wet waveledged ground.
- Use of clover can contribute up to Yilling nitrogenities, requiring in reduced chemical nitrogen and review.
- Present access by Eventock into strains/integers and provide abentative strating wastr sources for

The Clodlagh_010 Catchment



All formers leads the Citellagh, 919 catchment boundary (and line) can avoid of the fine seet coeliderals ASGAFservice. The blassine represents the river Clockagh and the titue markets are the EPA creatisting points in the catchment.

The EPA monitoring point to the units of the concherent was an anoderoin visitor quality status in 2618, however in the most teamer upone from the EPA has recurred to the required post status. By following the mitigation advices been upon the playing party part in maintaining the Confusion current good status.

Cathal Somers, Feaguer (086 3814691)

ndrew Gereghty, Clanbia (886 6











River Suir project to investigate threatened species – call for Citizen Scientists



- Friends of Clodiagh (Ann Phelan, Community Water Officer)
- Paul Carroll local Pearl Mussel project (Waterford CoCo)



Thankyou



Working together towards a common goal

The scientist, the advisor & most importantly the Farmer

