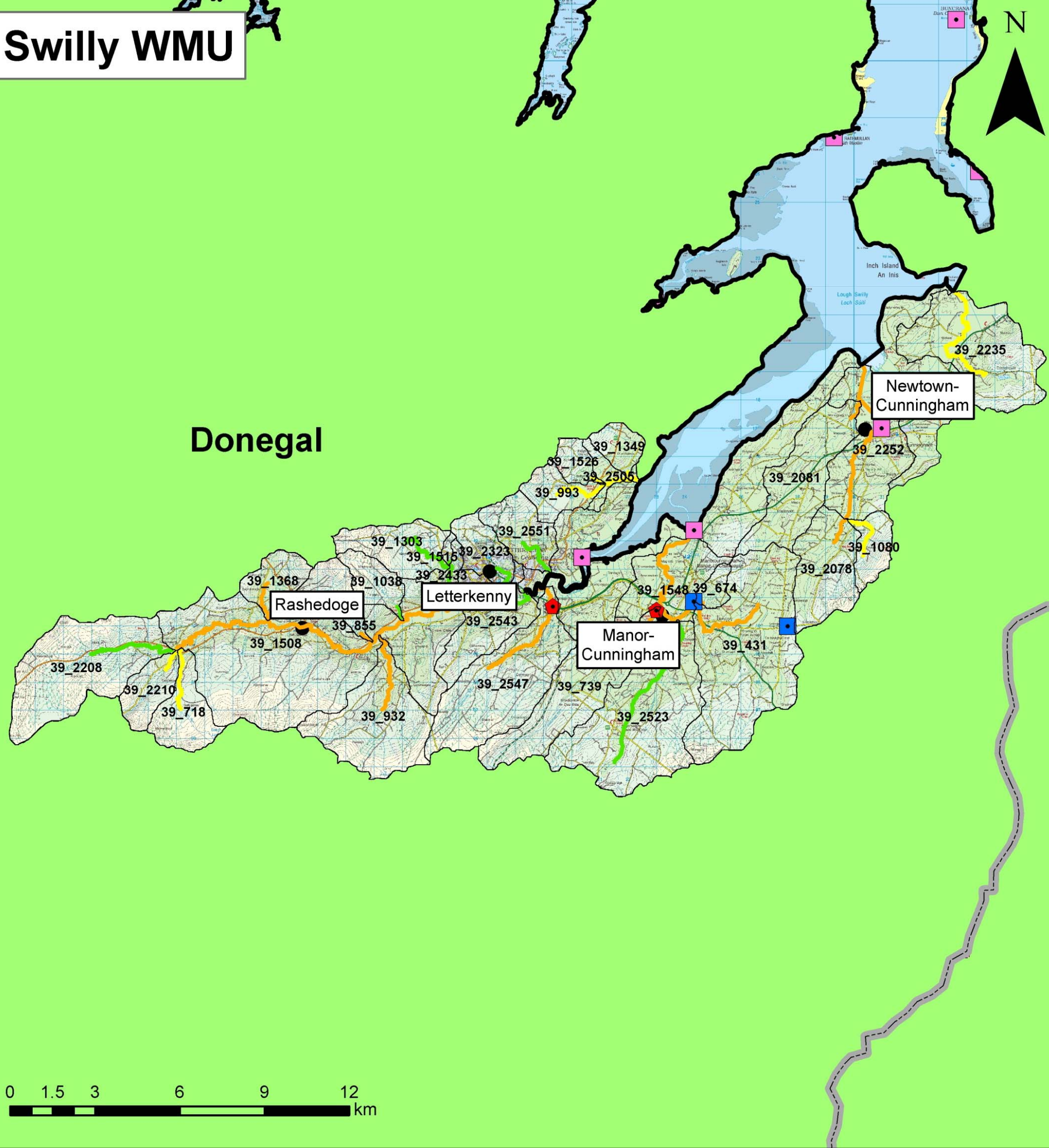


# Swilly WMU

# Swilly Water Management Unit Action Plan



**Legend**

- Towns and Villages
- Wastewater Treatment Plants
- EPA Licensed Facility (IPPC)
- ◆ Local Authority Licensed Discharge
- Water Treatment Plants
- NI Boundary

**River Status**

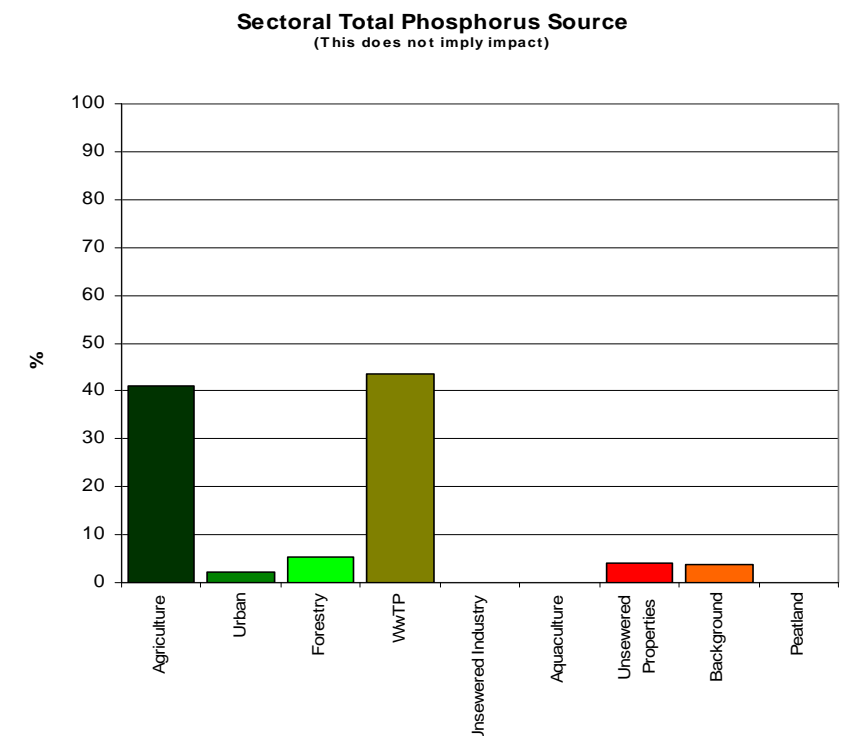
- High (Blue line)
- Good (Green line)
- Moderate (Yellow line)
- Poor (Orange line)
- Bad (Red line)

**Lake Status**

- High (Blue square)
- Good (Green square)
- Moderate (Yellow square)
- Poor (Orange square)
- Bad (Red square)



Name	Swilly Water Management Unit (WMU)
Area	262 km <sup>2</sup>
River Basin District	North Western IRBD
Main Counties	Donegal
Protected Areas	3 SACs (Swilly River, Meentygranagh Bog, Lough Swilly); 1 SPA (Lough Swilly); 1 drinking water (@ Drumboy); 1 Shellfish Water (Lough Swilly)



# Swilly Water Management Unit Action Plan

STATUS/IMPACTS	
Overall status	29 River water bodies - 9 Good, 8 Moderate, 12 Poor. There are no Water Framework Directive lakes in the WMU. There are 2 transitional water bodies within WMU - one at moderate status and one unassigned.
Status elements	Q values and general physio-chemical status dictate the status . Main Channel of Swilly is monitored for chemical status and passes.
Possible Impacts - EPA Water Quality	SWILLY - (NW_39_1508, Status 2009 - Poor) - The upper site (0050) was still of good status but the lower site (0200) had dropped in quality since the 2004 survey. This latter especially represents quite a serious long-term decline since the 1998-2001 period when it was of high status at this location.

PRESSURES/RISKS	
Nutrient sources	The greatest source of phosphorus load is from WWTPs (43%) and in particular Letterkenny WWTP. Over 56% of total phosphorus load is diffuse (agriculture (41%), forestry (5%), septic tanks (4%) plus natural background)
Point pressures	3 WWTP (Letterkenny, Newtowncunningham & Manorcunningham), 2 Local Authority licenced (Section 4) discharges (Hotel/Petrol Station & Quarry), No EPA licenced facilities within WMU (IPPC). 2 WTPs for groundwater sources within WMU.
Wastewater Treatment Plants (WWTP) and Industrial Discharges	Newtowncunningham – risk to water quality relate to existing and future capacity & existing poor quality in receiving water. There is an issue with storm water infiltration to the plant resulting in untreated sewage discharge during period of heavy rainfall. Letterkenny – risks to water quality relating to existing and future insufficient capacity, sewer collection system has been upgraded and new WWTP is proposed. This will address future capacity issues.
Quarries, Mines & Landfills	No water bodies at risk.
Agriculture	9 water bodies probably at risk (NW_39_1080; NW_39_1349; NW_39_1548; NW_39_2235; NW_39_2252; NW_39_2505; NW_39_2543; NW_39_2547; NW_39_431). 4 water bodies at risk (NW_39_1515; NW_39_2323; NW_39_2433; NW_39_2551).
On-site systems	There are 5785 septic tanks in this WMU, 2184 septic tanks in 10 river water bodies are posing a risk to water quality due to their density, location and unsuitable hydrogeological conditions (NW_39_1303, NW_39_1349, NW_39_1508, NW_39_1515, NW_39_2323, NW_39_2433, NW_39_2505, NW_39_2543, NW_39_2551, NW_39_993). There are significant unsewered areas in Letterkenny environs.
Forestry	1 water body at risk from suspended solids generated by forestry activities (NW_39_2208).
Dangerous substances	No water bodies at risk.
Morphology	3 water bodies at risk from channelisation (NW_39_1548, NW_39_2252 & NW_39_2543).
Abstractions	No water bodies at risk. Letterkenny bore holes abstracting 1,800 cubic M/day at Ballymacool.
Other	

SELECTED ACTION PROGRAMME	
<i>NB All relevant basic measures, general supplementary measures and SEA mitigation measures apply</i>	
Point Sources	WWTP measures are summarised in the table below. (Letterkenny WWTP sewer collection system has been upgraded and new WWTP is at procurement stage). Examine the terms of discharge authorisations to determine whether they require review for the purpose of compliance with water body objectives including protected area objectives and environmental quality standards.
Diffuse Sources	Good Agricultural Practice regulations inspections/enforcement. Septic tanks - The 2184 at risk septic tanks are to be prioritised for inspections. Subsequent upgrade or connection to municipal systems depends on inspection and economics tests. Forestry - Ensure compliance with Forestry guidance and codes of practice to address the problems associated with sedimentation issues in the WMU (NW_39_2208).
Other	Morphology - Channelisation investigation so that any impact on status caused by past drainage schemes in the WMU can be determined and addressed. Future flood protection modifications in the Letterkenny area under the EU Floods Directive will need to be WFD compliant with Heavily modified water body designation a possible consideration. Measures included in Shellfish Pollution Reduction Programmes under the Shellfish Directive.
Future Developments	Throughout the river basin management cycle future pressures and developments will need to be managed to ensure compliance with the objectives of the Water Framework Directive and the Programme of Measures will need to be developed to ensure issues associated with these new pressures are addressed.

Point Source Discharge	County	Priority	Measure (Capital Works)	Date	WMU
Letterkenny	Donegal	1	Provide secondary treatment.	2012	Swilly
Letterkenny	Donegal	1	Increase capacity of treatment plant.	2012	Swilly
Letterkenny	Donegal	1	Provide nutrient removal or relocate outfall.	2012	Swilly
Newtowncunningham	Donegal	1	Increase capacity of treatment plant.	2015+	Swilly
Newtowncunningham	Donegal	1	Provide tertiary treatment or relocate outfall.	2015+	Swilly
Newtowncunningham	Donegal	1	Provide nutrient removal or relocate outfall.	2015+	Swilly
Point Source Discharge	County	Priority	Measure (Plants requiring the Implementation of Recommendations of Pollution Reduction Plans (PRP) for Shellfish waters)	Date	WMU
Letterkenny	Donegal	1	Implementation of PRP for Shellfish Waters	2010	Swilly
Manorcunningham	Donegal	1	Implementation of PRP for Shellfish Waters	2010	Swilly
Newtowncunningham	Donegal	1	Implementation of PRP for Shellfish Waters	2010	Swilly

OBJECTIVES	
Good status 2015	There are 9 river water bodies at satisfactory condition and should be retained at good status. 8 river water bodies have an objective to achieve good status by 2015. No lakes within WMU.
Alternative Objectives	<b>Heavily Modified/Artificial water bodies</b> - None. <b>New Modifications</b> - There is a Flood Risk Assessment and Management (FRAM) study underway for Letterkenny. <b>Extended Deadlines</b> – there are extended timescales to 2021 for the achievement of good status proposed for 12 river water bodies within the WMU.

# Swilly Water Management Unit Action Plan

IE_NW_Swilly																
Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Biological Elements			Supporting Elements				Chemical Status	Protected Areas				Objective	Date objective to be achieved
			Macroinvertebrates (O)	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Pollutants	Physio-chemical		Ecological Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters		
NW_39_1038	N	NW_39_2543							G						GES	2009
NW_39_1080	N	NW_39_1425							M						GES	2015
NW_39_1303	N	NW_39_2323							G						GES	2009
NW_39_1349	N	NW_39_1425							M						GES	2015
NW_39_1368	N	NW_39_1508							P						GES	2021
NW_39_1508	Y		P		G	H		H	G	P	G				GES	2021
NW_39_1515	N	NW_39_2323							G						GES	2009
NW_39_1526	N	NW_39_2472							M						GES	2015
NW_39_1548	N	NW_01_1852							P		Y	Y			GES	2021
NW_39_2078	N	NW_39_2081							P						GES	2021
NW_39_2081	Y		P						G	P		Y			GES	2021
NW_39_2208	N	NW_39_1877							G		Y				GES	2009
NW_39_2210	N	NW_39_718							M						GES	2015
NW_39_2235	N	NW_39_1105							M			Y			GES	2015
NW_39_2252	N	NW_01_1907							P			Y	Y		GES	2021
NW_39_2323	Y								G	G					GES	2009
NW_39_2433	N	NW_39_2543							G						GES	2009
NW_39_2505	N	NW_39_1425							M			Y			GES	2015
NW_39_2523	Y		G						H	G					GES	2009
NW_39_2543	Y								G	G					GES	2009
NW_39_2547	Y		P						G	P	Y				GES	2021
NW_39_2551	N	NW_39_2323							G						GES	2009
NW_39_431	N	NW_01_1852							P						GES	2021
NW_39_674	N	NW_39_739							P						GES	2021
NW_39_718	Y		G						M	M					GES	2015
NW_39_739	Y		P						P						GES	2021
NW_39_855	N	NW_39_1508							P						GES	2021
NW_39_932	N	NW_39_1508							P						GES	2021
NW_39_993	N	NW_39_2472							M						GES	2015

River data

