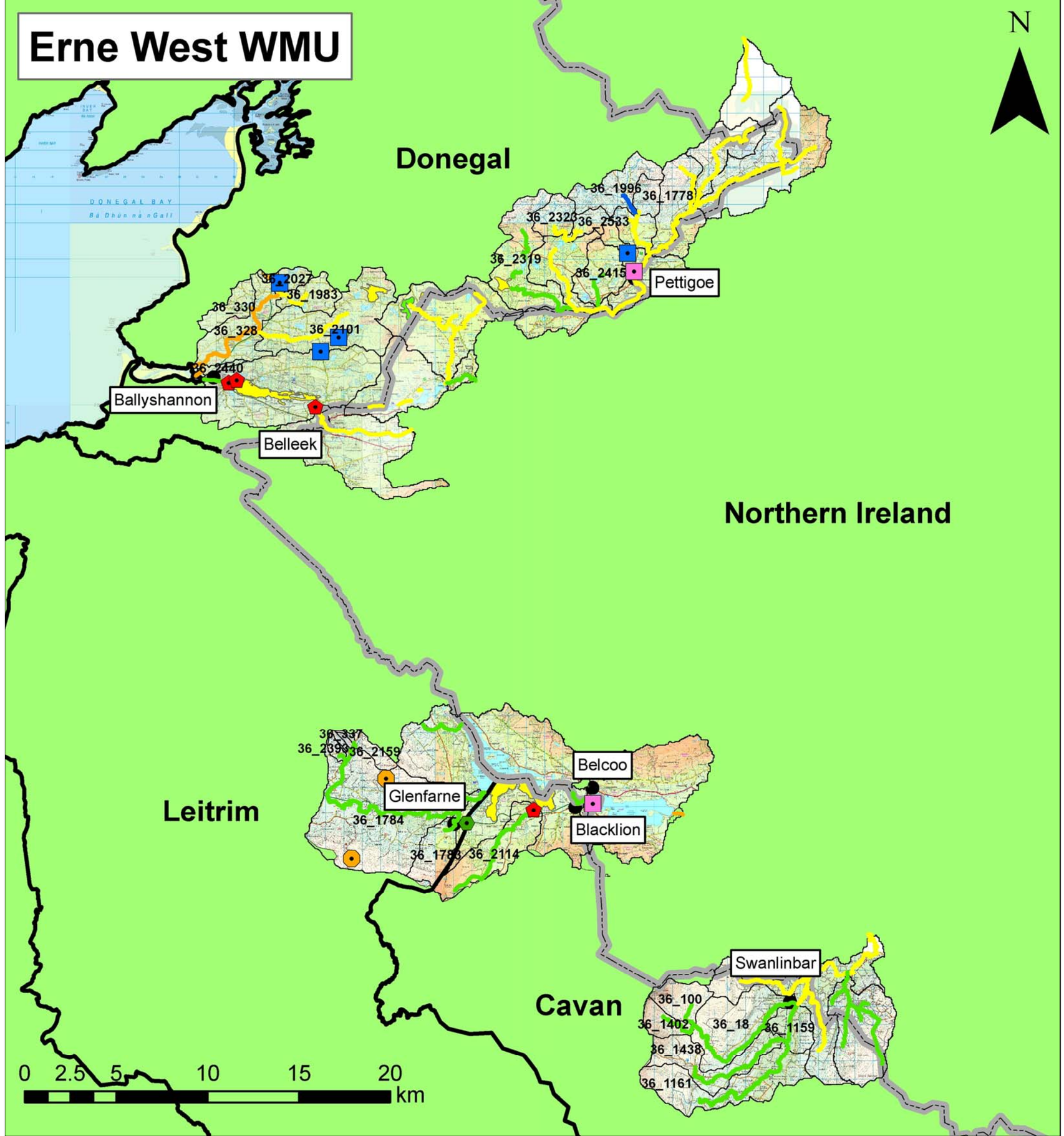
Erne West Water Management Unit Action Plan



Legend

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

River Status

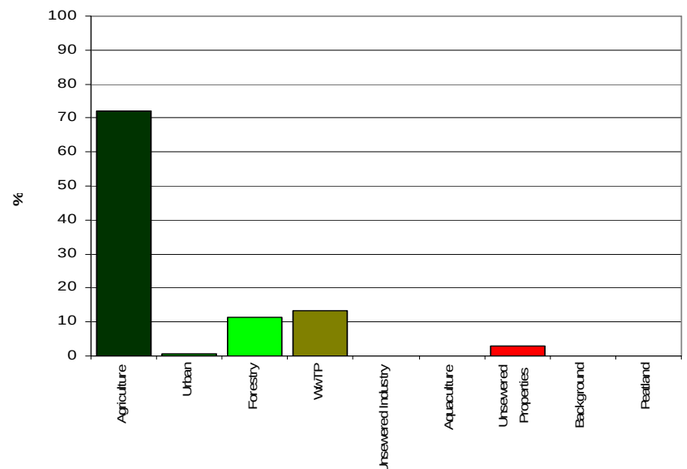
- High
- Good
- Moderate
- Poor
- Bad

Lake Status

- High
- Good
- Moderate
- Poor
- Bad

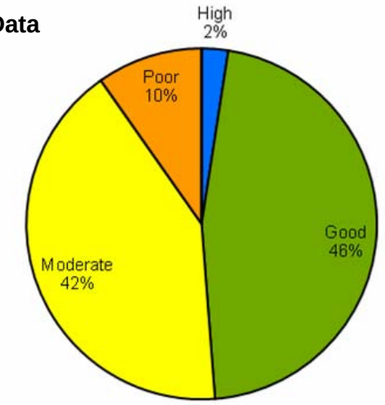
Name	Erne West Water Management Unit (WMU)
Area	491 km^2
River Basin District	North Western IRBD
Main Counties	Cavan/Leitrim/Donegal
Protected Areas	3 SACs (Lough Nageage, Tamur Bog, Lough Golagh & Breezy Hill) 1 FPM catchment (Swanlinbar) 4 drinking waters(Columbkille Lough, Lough Gorman Lough Golagh, Lough Unshin)

Sectoral Total Phosphorus Source
(This does not imply impact)

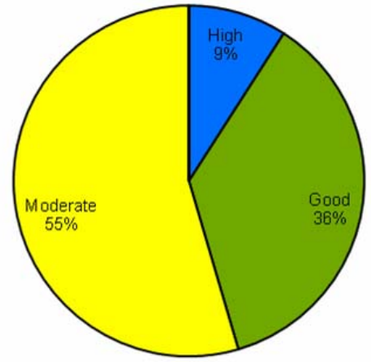


Erne West Water Management Unit Action Plan

River Data



Lake Data



STATUS/IMPACTS	
Overall status	41 River water bodies - 1 High, 19 Good, 17 Moderate, 4 Poor Lake water bodies – 1 High, 4 Good, 6 Moderate There is one Transitional water downstream of the WMU, Erne Estuary, which is at good status.
Status elements	Macroinvertebrates (Q value) dictates status in all but 1 monitored water body (NW_36_2319) where Physio-Chemical monitoring dictates status
Possible Impacts - EPA Water Quality	**BLACKWATER** - Continuing satisfactory at all sites with a Q score of 4. **CORRAVANNOGE** - Continuing satisfactory with a Q score of 4 and 5. **OWENSALLAGH** - Continuing satisfactory at all sites with a Q score of 4. **ROO** - Continuing satisfactory with Q score of 4 and 5. **SWANLINBAR -** Continuing satisfactory with Q score of 4 and 5. **WATERFOOT** - Continuing satisfactory with a Q score of 5.

PRESSURES/RISKS	
Nutrient sources	Over 86% of total phosphorus load is diffuse, with agriculture (72%) and forestry (11%) being the main sources. WWTP represent the main point source load at 13%.
Point pressures	2 Waste Water Treatment Plants (WWTP) (Pettigo, Blacklion). 1 EPA licenced (IPPC) facility, wood preservative industry in Esky Catchment 5 local Authority Licenced (Section 4) discharges **Water Treatment Plant** (WTP) — **Source** Ballyshannon — Parkhill boreholes + L Unshin Ballymagroarty — L Gorman Pettigo — Boreholes + L Agha Cashelard — L Colmcille
Wastewater Treatment Plants (WWTP) and Industrial Discharges	Pettigo WWTP represents a risk to water quality due to inadequate capacity at the plant. The EPA licenced (IPPC) facility has no direct discharge to surface waters (Wood preservation). 5 Local Authority Licenced (Section 4) discharges - No risk identified
Quarries, Mines & Landfills	2 Quarries within the WMU but no water bodies at risk.
Agriculture	1 water body within the WMU is at risk from Agricultural practices - NW_36_2440.
On-site systems	There are 2107 septic tanks in this WMU, 167 septic tanks in 1 river water body (XB_36_west_4) are posing a risk to water quality due to their density, location and unsuitable hydrogeological conditions.
Forestry	One water body is at risk from forestry - NW_36_2323.
Dangerous substances	No water bodies at risk from dangerous substances.
Morphology	3 river water bodies at risk from channelisation - NW_36_1159, NW_36_1983, NW_36_328.
Abstractions	3 river water bodies at risk from abstractions - NW_36_328, NW_36_2101, NW_36_2027.

SELECTED ACTION PROGRAMME *NB All relevant basic measures, general supplementary measures and SEA mitigation measures apply*	
Point Sources	WWTP measures are summarised in the Table opposite. Ballyshannon WWTP to be upgraded 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	Agriculture - Particular measures will be required to address diffuse pollution pressures from agriculture such as the Good Agricultural Practices Regulations investigations and enforcement. Septic tanks - The 167 at risk septic tanks are to be prioritised for inspections. Subsequent upgrade or connection to municipal systems depends on inspection and economics tests. Forestry - measures will be applied to address problems posed by forestry practices.
Other	Channelisation survey required to investigate morphology pressures. Future abstractions licensing programme.
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.

WWTP Measures

Point Source Discharge	County	Priority	Measure (Capital Works)	Date	WMU
Pettigo	Donegal	1	Increase capacity of treatment plant.	2015+	ErneWest

OBJECTIVES	
Good status 2015	There are 20 river water bodies and 5 lake water bodies at satisfactory condition and should be retained at high or good status. 16 river water bodies and 6 lake water body have an objective to achieve good status by 2015.
Alternative Objectives	**Heavily modified water bodies** - Assaroe Lake, Erne d/s of Cathleen's Fall and Erne from Belleek to the dam. **New Modifications** - none **Extended Timelines** – there are extended timescales to 2021 for the achievement of good status for 5 river water bodies in the WMU.

River Data

IE_NW_ErneWest																	
			Biological Elements				Supporting Elements					Protected Areas					
Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Macroinvertebrates (Q)	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Pollutants	Physio-chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Drinking Water	Objective	Date objective to be achieved
NW_36_100	N	NW_36_18								G		Y				GES	2009
NW_36_1159	N	NW_36_18								G						GES	2009
NW_36_1161	Y		G						H	G		Y				GES	2009
NW_36_1402	N	NW_36_323								G		Y				GES	2009
NW_36_1438	N	NW_36_18								G		Y				GES	2009
NW_36_1756	N	NW_36_1784								G						GES	2009
NW_36_1778	N	NW_37_3148								M						GES	2015
NW_36_1783	N	NW_36_18								G		Y				GES	2009
NW_36_1784	Y		G				G			G		Y				GES	2009
NW_36_18	Y		G		G	H	H	H	H	G	G	Y				GES	2009
NW_36_1983	N	NW_37_2588								M						GES	2015
NW_36_1996	N	NW_37_74								H						HES	2009
NW_36_2027	N	NW_37_2588								M						GES	2015
NW_36_2101	N	NW_37_2588								M		Y				GES	2015
NW_36_2114	Y		G				H		H	G		Y				GES	2009
NW_36_2159	N	NW_37_3589								G						GES	2009
NW_36_2319	Y								G	G		Y				GES	2009
NW_36_2323	N	NW_37_74								M						GES	2015
NW_36_2393	N	NW_36_1784								G						GES	2009
NW_36_2415	N	NW_37_3253								G						GES	2009
NW_36_2440	N	NW_01_441								P			Y			GES	2021
NW_36_2533	N	NW_37_74								M						GES	2015
NW_36_328	N	NW_37_2086								P			Y			GES	2021
NW_36_330	N	NW_37_2086								P						GES	2021
NW_36_337	N	NW_36_1784								G						GES	2009
XB_01_10	Y									M						GES	2015
XB_36_west_1	Y		M						H	M		Y				GES	2015
XB_36_west_11	Y		G						G	G		Y				GES	2009
XB_36_west_12	N	XB_36_west_1								M						GES	2015
XB_36_west_13	Y		P						H	P						GES	2021
XB_36_west_15	Y		G			G			G	M		Y				GES	2015
XB_36_west_16	Y		G						H	G						GES	2009
XB_36_west_17	Y		H				G		H	G						GES	2009
XB_36_west_2	N	XB_36_west_1								M		Y				GES	2015
XB_36_west_3	Y		M						H	M						GES	2015
XB_36_west_4	Y		M			G			H	M						GES	2021
XB_36_west_5	Y		G		M				H	M	G					HES	2009
XB_36_west_6	Y		H		M				H	M		Y				GES	2015
XB_36_west_7	N	XB_36_west_6								M		Y				GES	2015
XB_36_west_8	N	XB_35_1								G		Y	Y			GEP	2015
XB_36_west_9	Y		G			M			G	M						HEP	2015

Lake Data

IE_NW_ErneWest																	
			Biological Elements			Supporting Elements					Protected Areas						
Member State Code	Name	Monitored Y (Extrapolated N)	Macrophytes	Chlorophyll	Fish	Morphology	Nutrient Enrichment	Physio Chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Sensitive Waters Nutrient	Bathing Water	Drinking Water	Objective	Date objective to be achieved
NW_36_142	Aghalough	N							G							GES	2009
NW_36_423	Avehy Lough	Y			M			G	M		Y					GES	2015
NW_36_673	Macnean Upper Lough	Y	M	M	M		M	M	M	G						GES	2015
NW_36_706	Gorman Lough	N							G							GES	2009
NW_36_710	Columbkille Lough	Y	H					H	H						Y	HES	2009
NW_36_712	Unshin Lough	Y		H			G	G	G		Y				Y	GES	2009
NW_36_715	Golagh Lough	Y	G	G	M		G	G	M		Y					GES	2015
NW_36_717	Assaroe Lake	N							M							GEP	2015
NW_36_445	McNean Lower	Y							M							GES	2015
NW_36_651	Tullynassidagh Lough	Y							G							GES	2009
NW_36_711	Vearty	Y							M							GES	2015