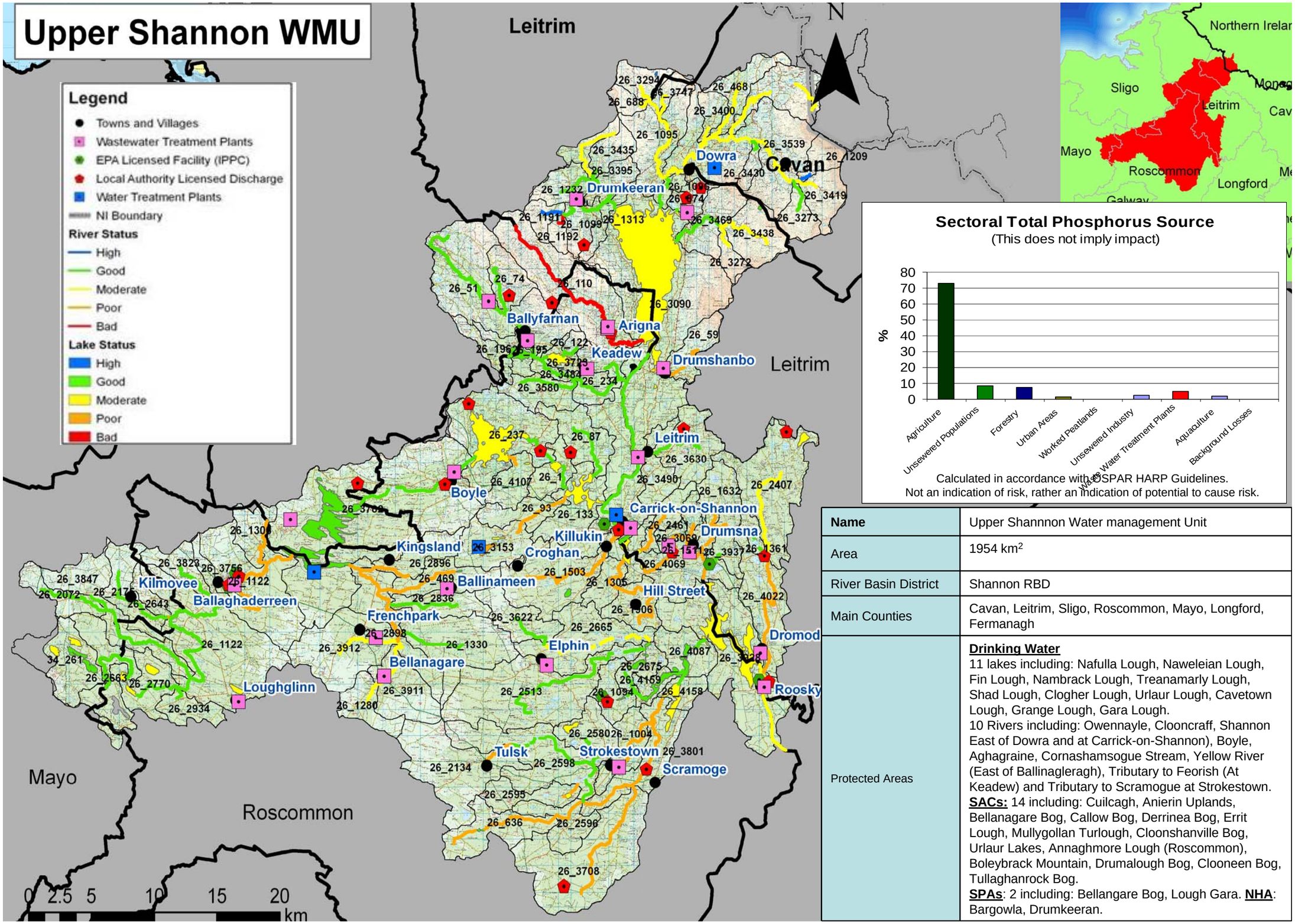
Upper Shannon Management Unit Action Plan



Name	Upper Shannnon Water management Unit
Area	1954 km^2
River Basin District	Shannon RBD
Main Counties	Cavan, Leitrim, Sligo, Roscommon, Mayo, Longford, Fermanagh
Protected Areas	**Drinking Water** 11 lakes including: Nafulla Lough, Naweleian Lough, Fin Lough, Nambrack Lough, Treanamarly Lough, Shad Lough, Clogher Lough, Urlaur Lough, Cavetown Lough, Grange Lough, Gara Lough. 10 Rivers including: Owennayle, Clooncraff, Shannon East of Dowra and at Carrick-on-Shannon), Boyle, Aghagraine, Cornashamsogue Stream, Yellow River (East of Ballinagleragh), Tributary to Feorish (At Keadew) and Tributary to Scramogue at Strokestown. **SACs:** 14 including: Cuilcagh, Anierin Uplands, Bellanagare Bog, Callow Bog, Derrinea Bog, Errit Lough, Mullygollan Turlough, Cloonshanville Bog, Urlaur Lakes, Annaghmore Lough (Roscommon), Boleybrack Mountain, Drumalough Bog, Clooneen Bog, Tullaghanrock Bog. **SPAs**: 2 including: Bellangare Bog, Lough Gara. **NHA**: Bargowla, Drumkeeran.

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STATUS/IMPACTS	
Overall status	Rivers: 98 River Waterbodies – 2 high, 49 good, 18 moderate, 27 poor, 2 bad. Lakes: 39 Lakes - 2 high status, 13 good status, 21 moderate status, 2 poor and 1 unassigned status. Of these 19 are monitored lakes; Urlaur, Cavetown, Grange, Meelagh, Key, Gara, Rowan, Nanoge, Annaghmore, Glinn, Acres, Cloonagh, Corry, Allen, Oakport, Kilglass, Bofin, Boderg, Tap, and 20 are extrapolated lakes; Nafulla, Natire, Naweleian, Fin Lough, Nambrack, Fin, Corbally, Treanamarly, Cloonacolly, Shad, Roe, Skean, Nablahy, Clogher, Killooman, Errit, Eidin, 2 unnamed lake water bodies and Tap Lough.
Status elements	Lakes: Urlaur Lough status driven by Macrophytes old. Cavetown Lough status driven by Fish. Grange Lough status driven by Nutrients - Total Phosphorus. Meelagh Lough status driven by Fish. Key Lough status driven by Nutrients - Total Phosphorus. Gara Lough status driven by Macrophytes, Chlorophyll. Rowan Lough status driven by Nutrients - Ammonium. Nanoge Lough status driven by Fish - introductions and aliens. Annaghmore Lough status driven by Fish - introductions. Glinn Lough status driven by Macrophytes. Acres Lough status driven by Macrophytes, Chlorophyll, Nutrients - Total Phosphorus. Cloonagh Lough status driven by Macrophytes old. Corry Lough status driven by Macrophytes old. Allen Lough status driven by Macrophytes, Fish - introductions. Oakport Lough status driven by Macrophytes old, nutrients. Kilglass Lough status driven by Macrophytes old. Bofin Lough status driven by Macrophytes, Nutrients - Total Phosphorus. Boderg Lough status driven by Macrophytes, Nutrients - Total Phosphorus. Tap Lough status driven by Macrophytes old.

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STATUS/IMPACTS	
Possible Impacts - EPA Water Quality 2007	Rivers: Q score dictates overall status for all rivers waterbodies, except 1 good water body which is dictated by physchem (SH_26_1330). Chemical status in not monitored. Physchem is good or high where monitored. ANADERRYBOY: The Annaderryboy was satisfactory over its length in August 2005. A slight deterioration in quality was noted, however, in the lower section (0500,0600) in comparison with 2002. ARIGNA: The Arigna River was in unsatisfactory condition (poor status) BELLAVALLY STREAM: The Bellavally Stream was in a highly satisfactory ecological condition when surveyed in July 2008. Excessive instream siltation was however noted. Unrestricted livestock access upstream and a severely poached field upstream could be contributing to the excessive siltation observed . BOLEYBAUN STREAM: The Boleybaun Stream was in satisfactory condition over its length when surveyed in September 2005 (Q4) BOYLE: The Boyle River was in satisfactory condition over its length when surveyed in September 2008 (Q4) BREEDOGE: A deterioration in quality was noted at the upper Breedoge location (0100) in comparison with 2002 and 1999. The lowermost site remained satisfactory. CARRICKNABRAHER: The Carricknabraher was again quite eutrophic when surveyed in August 2005. Dissolved oxygen readings of over 130% saturation were recorded at Cloonshanville Br. CLOGHER: The Clogher River was moderately polluted at both sites surveyed in August 2005. DERRYNANANTA STREAM: The paucity of sensitive mayflies and stoneflies indicated unsatisfactory ecological conditions in the remote Derrynananta Stream in 2008. Coniferous forestry is the likely cause . DIFFAGHER: The Diffagher was in satisfactory condition in September 2005. DRUMSHANBO STREAM: The Drumshambo Stream was in an unsatisfactory ecological condition when surveyed in July 2008. The macroinvertebrate fauna indicated significant ecological disruption. Recent bank works may have contributed to the heavy instream siltation observed. ESLIN: The Eslin River was in a unsatisfactory ecological condition when surveyed in July 2008. The macroinvertebrate fauna indicated a decline in ecological status at Lough Erril Bridge (0300) with enhanced weed and algal growth and excessive siltation also observed. Low dissolved oxygen readings were recorded at stations 0100, 0400 and 0500 on separate sampling dates. In particular a further decline from moderate to bad ecological status was observed at Clooncolry bridge (0500) where a clear lack of sensitive macroinvertebrate taxa, heavy siltation and low dissolved oxygen concentrations indicated significant ecological disruption. Recent bridge and pipe works may have contributed to the heavy siltation noted. Rooskey/Dromod Bypass may be responsible here. FEORISH (BALLYFARNON): (River rises in Co. Sligo – Lough Bo). The Feorish was satisfactory over its length in August 2005. KILLADISKERT STREAM: The Killadiskert Stream was in satisfactory condition over its length when surveyed in September 2005 (Q4-5). KILLUKIN: The upper Killukin was relatively eutrophic in nature. An improvement in quality was noted at the lower station (0700) in August 2005. KILMACTRANNY: The Kilmactranny Stream was in satisfactory condition over its length when last surveyed in September 2002 (Q4). KILTACLARE STREAM: The Kiltaclare Stream was in satisfactory condition over its length when surveyed in September 2005 (Q4). Satisfactory but quite silted in places. KINARD: The upper section (0300) of the Kinard was satisfactory, although lower in quality than it should have been due to extensive amounts of cow dung on the river bed at the point sampled. The lower section was slightly polluted with abundant algal mats on the substratum indicating eutrophic conditions in this hard-water river. LISDALY: An improvement in quality was noted in the Lisdaly at site 0200 in August 2005. LISSAPHOBBLE: Low oxygen saturation and pollution-tolerant fauna were noted at the upper site (0100). Which may be affected by groundwater influences. The lower section of the Lissaphobble was satisfactory in September 2005. LISSYDALY STREAM: The Lissydaly was in satisfactory condition overall although quality had dropped somewhat at the upper and lower sites in comparison with 2002. LUNG; The Lung River was in satisfactory condition over its length when surveyed in September 2005 but an improvements noted at station 0400 in 2008. MANTUA STREAM: The Mantua is a second order stream and was in satisfactory condition upstream of its confluence with the Owenur River in September 2005. MOUNTAIN (ROSCOMMON): The Mountain (Roscommon) River was in satisfactory condition over its length when last surveyed in September 2002 (Q4). OWENGAR (LEITRIM): The Owengar (Leitrim) River was in satisfactory condition over its length when last surveyed in September 2002 (Q4 or Q4-5). A significant landslide occurred in the upland area of this river in 2007 due to construction of wind farms by a private company. Some fish stocks were rescued by the Shannon Regional Fishery Board but the landslide caused a wipe-out of the ecology of the entire river system.

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STATUS/IMPACTS	
Possible Impacts - EPA Water Quality 2007	OWENMORE (GLANGEVLIN): The Owenmore (Glangevlin) River was in an unsatisfactory ecological condition in 2008. The lack of sensitive macroinvertebrate fauna indicated an unwelcome decline from high to moderate status upstream of Cartys Bridge (0100). The storage of silage bales in close proximity to the river could pose a threat to quality in the future. Although the macroinvertebrate diversity improved in the lower reaches (0300), the fauna continued to indicate some ecological disruption. Excessive siltation and enhanced weed and algal growth were also notable at this station. Forestry and agriculture suspected sources of pollution. OWENNAFOREESHA: The Owennaforeesha was highly eutrophic in the upper reaches (0100) even upstream of the Bellanagare wastewater treatment plant. Quality improved somewhat in the lower section (0200) at the confluence with the Carricknabraher River (qv) to form the Breedoge River (qv). OWENNAYLE: A slight improvement in macroinvertebrate faunal diversity was observed in the upper reaches (0050) however the continued lack of sensitive taxa indicated unsatisfactory ecological conditions in 2008. Biological indicators point to occasional acidic episodes due to suspected forestry activities in the upper Owennayle (0050) river. Some sensitive species remain absent from the lower reaches (0100) but sufficient remain to indicate satisfactory conditions for the present. OWENUR: The Owenur was satisfactory over its length with an improvement in quality noted in the upper sites (0100, 0300) in comparison with 2002. SCRAMOGE: The Scramoge was satisfactory in the upper and middle reaches but deteriorated in the lower section upstream of Kilglass Lough reversing the improvements noted in 2002. SHAD LOUGH STREAM: A deterioration in quality of the Shad Lough Stream was noted in comparison with the previous survey. SHANNON (Upper): The paucity of sensitive macroinvertebrate fauna, excessive siltation and presence of silt-slime complexes plus abundant moss growth at Derrylahan (0100) (close to Shannon port in Co. Cavan), indicated some ecological upset in the Shannon upstream of Lough Allen in July 2008. The macroinvertebrate fauna indicated a welcome increase from good to high status at Dowra (0300) although somes signs of enrichment (excessive siltation, enhanced macrophyte growth) were evident. Ecological condition remained satisfactory at Battle Bridge (0500) where abundant weed growth indicated some nutrient enrichment. The complete lack of sensitive macroinvertebrate fauna and enhanced weed and macroalgal growth indicated a decline in ecological status below Carrick on Shannon at Jamestown Weir (1010). Ecological status remained unsatisfactory downstream of Roosky (1410) and Tarmonbarry (1510 and 1530). The macroinvertebrate fauna at Ballyleague Bridge (1600) indicated a slight improvement in ecological condition. In addition to the ongoing thermal pollution at Lanesboro' (1600) where a water temperature of 25.4 degrees was recorded, luxuriant algal growths reflected some considerable eutrophication. There was no change in ecological condition at Athlone (1720) were the dominance of pollution tolerant macroinvertebrate, excessive siltation and enhanced weed and macroalgal growth continued to indicate significant ecological disruption. STROKESTOWN: The Strokestown River was in unsatisfactory condition over its length when surveyed in September 2006 (Q3). YELLOW (BALLINAGLERA): The Yellow River is subject to severe scouring by flash floods and, because of the very low buffering capacity of the water, there is a possibility of acid impacts from upstream forestry. These factors could account for the relatively impoverished fauna observed in the upper reaches (0100). Ecological conditions remain satisfactory in the lower reaches (0200) where an improvement in macroinvertebrate faunal diversity was observed in 2008 .

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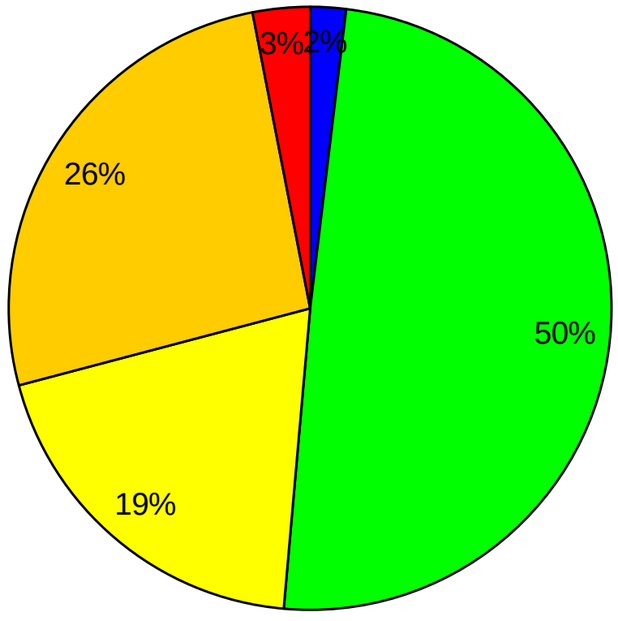
PRESSURES/RISKS	
Nutrient sources	92% Total phosphorus is diffuse, mainly from agriculture (73%), unsewered properties (8%) and forestry (7%). 5% comes from WWTP.
Point pressures	27 WWTP: Carrick-on-Shannon, Dromod, Drumshanbo, Leitrim Village, Arigna, Ballaghaderreen, Ballinameen, Ballyfarnan, Bellanagare, Boyle, Derrinsky, Drumsna, Elphin, Frenchpark, Keadew, Loughlynn, Rooskey, Strokestown, Geevagh, Monasteraden, Cootehall, Croghan, Tarmonbarry, Drumkeeran, Ballinagleragh, Dowra (Co. Cavan), Jamestown. 4 Waste Facilities: Ballaghaderreen x 2 , Carrick-on-Shannon, Private Waste Disposal Company. 3 IPPC: Timber Treatment, Wood Product Manufacturers, Co-Op. 23 Section4s: Manufacturer (Industrial Products), Pharmaceutical , Fish farm, Clean Fuel Producer, 2 Meat Processors, Stone Mason, 3 Quarry/Building Product Supplier, Oil Distributor, Developer, Marina Developer/Boat Wholesaler, Private Company, Photographer/Videographer, 2 Nursing Home (to GW), 6 Housing Developments (2 to groundwater). 4 WTP - Dowra PWS, South Leitrim Regional WTP, Grangemore WSS, North Roscommon RWSS.
Wastewater Treatment Plants (WWTP) and Industrial Discharges	The following WWTPs are at risk: Ballaghaderreen WWTP Carrick on Shannon WWTP Dromod Drumkeeran WWTP Drumshanbo WWTP Elphin WWTP Frenchpark WWTP Leitrim Village WWTP Rooskey Strokestown WWTP The following industries are at risk: Wood Product Manufacturers, Quarry/Building Product Supplier, Stone Mason and a Private Company.

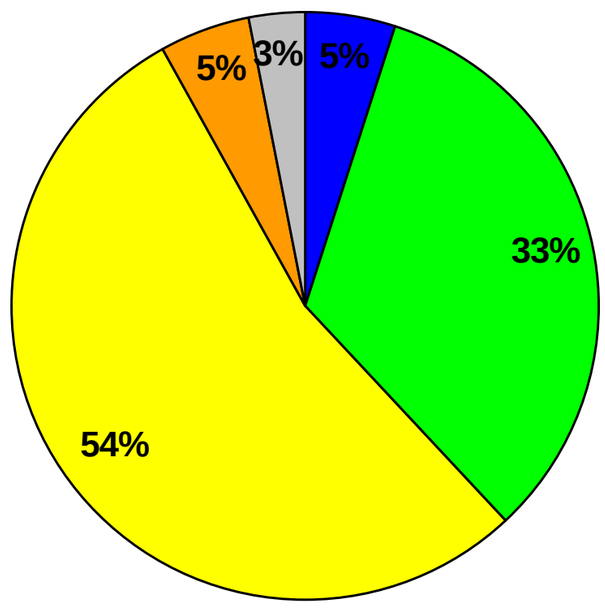
Upper Shannon Water Management Unit Action Plan

PRESSURES/RISKS	
Quarries, Mines & Landfills	11 Quarries. 1 Waterbody at risk (SH_26_110) due to Quarry Activity in Geevagh. Co. Sligo. There are 2 mines - Connaght coalfield_Derreenavoggy, Connaght coalfield_Greaghnaglogh. Both mines are at risk. Connaght coalfield_Derreenavoggy mine falls into a number of WMUs: SH_26_110, SH_26_74, SH_26_51, SH_26_122 and SH_26_3484. Connaght coalfield_Greaghnaglogh mine falls into a number of WMUs: SH_26_110, SH_26_3090, SH_26_1313, SH_26_1099, SH_26_1192. There are 4 Landfills – Carrick-on-Shannon, Ballaghdereen Landfill, Strokestown Landfill, Boyle Landfill. 2 Waterbodies at risk (SH_26_3782, SH_26_3090).
Agriculture	39 WBs at risk - SH_26_4107, WE_34_261, SH_26_636, SH_26_59, SH_26_2836, SH_26_2665, SH_26_1004, SH_26_2072, SH_26_2134, SH_26_1503, SH_26_1906, SH_26_3782, SH_26_237, SH_26_1, SH_26_133, SH_26_2513, SH_26_1094, SH_26_1330, SH_26_2596, SH_26_1632, SH_26_3622, SH_26_3708, SH_26_3823, SH_26_1305, SH_26_1361, SH_26_1511, SH_26_2675, SH_26_4159, SH_26_3801, SH_26_4158, SH_26_2580, SH_26_2950, SH_26_3490, SH_26_93, SH_26_3630, SH_26_3756, SH_26_3937, SH_26_2598, SH_26_4087.
On-site systems	There are 14587 septic tanks within this WMU, 13004 of these are located in areas of very high or extreme risk.
Forestry	None.
Dangerous substances	None
Morphology	19 waterbodies at risk - WE_34_261, SH_26_636, SH_26_1004, SH_26_469, SH_26_2896, SH_26_2513, SH_26_1122, SH_26_2770, SH_26_1330, SH_26_2595, SH_26_2596, SH_26_3708, SH_26_2407, SH_26_4022, SH_26_3801, SH_26_2934, SH_26_3911, SH_26_2598, SH_26_2898.
Abstractions	There are 7 waterbodies at risk from abstraction within this WMU - SH_26_1094, SH_26_4159, SH_26_93, SH_26_3153. Cornashamsogue Stream – source of Private GWS (WB SH_26_3090) Mohercregg GWS source – Aghagrania Stream (WB SH_26-59). Nambrack Lake – drinking water abstraction lake in Co. Leitrim; Cavetown Lough (IE_SH_26_705); Grange Lough (IE_SH_26_706).
Other	None

River Data



Lake Data



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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 below WWTP upgrades & licensing to be implemented where required. 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: At Risk septic tanks are to be prioritised for inspections. Subsequent upgrade or connection to municipal systems depends on inspection and economic tests. Other diffuse sources may need recommandations.
Other	Morphological pressures in the Upper Shannon WMU require 19 channelisation investigation to establish if supplementary measures are required to address water quality issues associated with morphology. Abstractions - Future abstractions licensing programme and assessment.
Future Pressures and 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.*

OBJECTIVES	
Restore 2015 Protect	11 river water bodies. 11 lakes. 51 River Waterbodies. 15 lakes. 1 lake unassigned with no objective (Errit Lough).
Alternative Objectives	Extended deadlines – 35 River Waterbody with 2021 extensions. 12 lakes with 2021 deadlines. 0 New Modifications or Development **HMWB/AWB – 0 HMWB. 4 AWB:** -Allen Canal (IE_SH_pAWB_ALC) -Shannon –Erne Waterway (ShIRBD) (IE_SH_pAWB_SEW) -Boyle Canal (IE_SH_pAWB_BYC) -Shannon Navigation Jamestown Canal (IE_SH_pAWB_SHN_19E) and -Roosky Canal (IE_SH_pAWB_SHN_19F)

Point Source Discharge	County	Priority	Measure (Capital Works)
Carrick on Shannon WWTP	Leitrim	1	Increase capacity of treatment plant.
Drumshanbo WWTP	Leitrim	1	Provide tertiary treatment or relocate outfall.
Drumshanbo WWTP	Leitrim	1	Provide nutrient removal or relocate outfall.
Elphin WWTP	Roscommon	2	Increase capacity of treatment plant.
Elphin WWTP	Roscommon	2	Provide tertiary treatment or relocate outfall.
Elphin WWTP	Roscommon	2	Provide nutrient removal or relocate outfall.
Frenchpark WWTP	Roscommon	1	Increase capacity of treatment plant.
Rooskey	Roscommon	1	Increase capacity of treatment plant.
Strokestown WWTP	Roscommon	2	Provide tertiary treatment or relocate outfall.
Strokestown WWTP	Roscommon	2	Provide nutrient removal or relocate outfall.
Drumkeeran WWTP	Leitrim	2	Increase capacity of treatment plant.
Drumkeeran WWTP	Leitrim	2	Provide tertiary treatment or relocate outfall.
Drumkeeran WWTP	Leitrim	2	Provide nutrient removal or relocate outfall.
Point Source Discharge	**County**	**Priority**	**Measure (Investigation before Capital Works)**
Ballaghaderreen WWTP	Roscommon	3	Investigate the need for tertiary treatment or for the relocation of the outfall.
Leitrim Village WWTP	Leitrim	3	Investigate the need for increase in capacity of treatment plant.
Point Source Discharge	**County**	**Priority**	**Measure**
Dromod	Leitrim	1	Implement an appropriate performance management system
Strokestown WWTP	Roscommon	1	Implement an appropriate performance management system
Point Source Discharge	**County**	**Priority**	**Measure**
Dromod	Leitrim	2	Investigation of CSO's
Drumshanbo WWTP	Leitrim	2	Investigation of CSO's
Strokestown WWTP	Roscommon	3	Investigation of CSO's
Point Source Discharge	**County**	**Priority**	**Measure**
Leitrim Village WWTP	Leitrim	3	Ensure capacity of treatment plant is not exceeded
Ballaghaderreen WWTP	Roscommon	3	Ensure capacity of treatment plant is not exceeded

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River Data

IE_SH_UpperShannon																			
				Biological Elements				Supporting Elements					Protected Areas						
County	Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Macroinvertebrates (Q)	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Polutants	Physio-chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Drinking Water	Objective	Date objective to be achieved
Cavan	SH_26_3400	N	SH_26_3539								M		Y				GES	2015
Cavan	SH_26_3419	Y		M						H	M		Y				GES	2015
Cavan	SH_26_468	N	SH_26_3539								M		Y				GES	2015
Cavan, Fermanagh	SH_26_1209	Y									H		Y				HES	2009
Cavan, Fermanagh	XB_26_1	N	SH_26_1095								M		Y				GES	2015
Cavan, Leitrim	SH_26_3273	Y								G	G		Y				GES	2009
Cavan, Leitrim	SH_26_3430	N	SH_26_3395								G		Y				GES	2009
Cavan, Leitrim	SH_26_3747	N	SH_26_1095								M		Y				GES	2015
Cavan, Leitrim, Fermanagh	SH_26_3539	Y		M						H	M		Y				GES	2015
Fermanagh, Cavan	XB_36_west_14	Y									M		Y				GES	2015
Leitrim	SH_26_1096	N	SH_26_3395								G						GES	2009
Leitrim	SH_26_1099	Y		G						H	G						GES	2009
Leitrim	SH_26_1191	Y		H							H						HES	2009
Leitrim	SH_26_1192	Y		B							B						GES	2021
Leitrim	SH_26_1232	Y		G							G						GES	2009
Leitrim	SH_26_1313	N	SH_26_1099								G						GES	2009
Leitrim	SH_26_1361	N	SH_26_4159								G						GES	2009
Leitrim	SH_26_1632	N	SH_26_1503								P						GES	2021
Leitrim	SH_26_2407	Y		M							M						GES	2021
Leitrim	SH_26_2461	N	SH_26_4069								P						GES	2021
Leitrim	SH_26_2950	N	SH_26_1503								P						GES	2021
Leitrim	SH_26_3069	N	SH_26_4069								P						GES	2021
Leitrim	SH_26_3272	N	SH_26_3438								M		Y				GES	2015
Leitrim	SH_26_3395	Y		G						H	G						GES	2009
Leitrim	SH_26_3435	N	SH_26_1232								G		Y				GES	2009
Leitrim	SH_26_3490	N	SH_26_1								G						GES	2009
Leitrim	SH_26_3630	N	SH_26_1								G						GES	2009
Leitrim	SH_26_59	Y		P						H	P		Y				GES	2021
Leitrim	SH_26_688	N	SH_26_1095								M		Y				GES	2015
Leitrim	SH_26_874	N	SH_26_3395								G						GES	2009
Leitrim, Cavan	SH_26_1095	Y		M						H	M		Y				GES	2015
Leitrim, Cavan	SH_26_3294	N	SH_26_1095								M		Y				GES	2015
Leitrim, Cavan	SH_26_3438	Y		M						H	M		Y				GES	2015
Leitrim, Cavan	SH_26_3469	Y		G						H	G		Y				GES	2009
Leitrim, Roscommon	SH_26_1511	N	SH_26_1220								P						GES	2021
Leitrim, Roscommon	SH_26_3090	Y		G						H	G		Y				GES	2009
Leitrim, Roscommon	SH_26_3937	N	SH_26_4159								G						GES	2009

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River Data Continued

IE_SH_UpperShannon																			
				Biological Elements				Supporting Elements					Protected Areas						
County	Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Macroinvertebrates (Q)	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Polutants	Physio-chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Drinking Water	Objective	Date objective to be achieved
Leitrim, Roscommon	SH_26_4022	Y		P							P						GES	2021
Leitrim, Roscommon	SH_26_4069	Y		P						H	P						GES	2021
Mayo	SH_26_2072	Y		G							G						GES	2009
Mayo, Roscommon	SH_26_2175	Y		G							G						GES	2009
Mayo, Roscommon	SH_26_2643	N	SH_26_1122								P						GES	2021
Mayo, Roscommon	SH_26_3847	Y		G						H	G						GES	2009
Mayo, Roscommon	SH_26_2663	Y		G						G	G		Y				GES	2009
Roscommon	SH_26_1	Y		G						H	G						GES	2009
Roscommon	SH_26_1004	Y		P						H	P						GES	2021
Roscommon	SH_26_1094	N	SH_26_2513								G						GES	2009
Roscommon	SH_26_1122_2	Y		P						G	P		Y	Y			GES	2021
Roscommon	SH_26_122	N	SH_26_234								G						GES	2009
Roscommon	SH_26_1280	N	SH_26_3911								M		Y	Y			GES	2021
Roscommon	SH_26_1305	N	SH_26_1503								P						GES	2021
Roscommon	SH_26_1330	Y								G	G						GES	2009
Roscommon	SH_26_1503	Y		P							P						GES	2021
Roscommon	SH_26_1906	N	SH_26_1503								P						GES	2021
Roscommon	SH_26_2134	N	SH_26_636								P		Y				GES	2021
Roscommon	SH_26_234	Y		G				M		G	G						GES	2009
Roscommon	SH_26_237	Y		G						G	G						GES	2009
Roscommon	SH_26_2513	Y		G						H	G						GES	2009
Roscommon	SH_26_2580	N	SH_26_2598								G		Y				GES	2009
Roscommon	SH_26_2595	N	SH_26_1645								P						GES	2021
Roscommon	SH_26_2596	N	SH_26_636								P						GES	2021
Roscommon	SH_26_2598	Y		G						H	G		Y				GES	2009
Roscommon	SH_26_2665	Y		M							M						GES	2021
Roscommon	SH_26_2675	N	SH_26_4159								G						GES	2009
Roscommon	SH_26_2770	Y		G						H	G		Y				GES	2009
Roscommon	SH_26_2836	N	SH_26_1330								G						GES	2009
Roscommon	SH_26_2898	Y		P						H	P		Y	Y			GES	2021
Roscommon	SH_26_2934	N	SH_26_2770								G		Y				GES	2009
Roscommon	SH_26_3153	Y		P							P						GES	2021
Roscommon	SH_26_3484	N	SH_26_196								G						GES	2009
Roscommon	SH_26_3622	Y		G							G						GES	2009
Roscommon	SH_26_3708	Y		P						G	P						GES	2021
Roscommon	SH_26_3723	N	SH_26_234								G						GES	2009
Roscommon	SH_26_3756	N	SH_26_2072								G						GES	2009

Upper Shannon Water Management Unit Action Plan

River Data Continued

IE_SH_UpperShannon																			
				Biological Elements				Supporting Elements					Protected Areas						
County	Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Macroinvertebrates (Q)	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Polutants	Physio-chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Drinking Water	Objective	Date objective to be achieved
Roscommon	SH_26_3801	Y		P						H	P						GES	2021
Roscommon	SH_26_3823	N	SH_26_2072								G						GES	2009
Roscommon	SH_26_3911	Y		M						H	M			Y			GES	2021
Roscommon	SH_26_3912	Y		M						G	M		Y	Y			GES	2021
Roscommon	SH_26_4087	N	SH_26_4159								G						GES	2009
Roscommon	SH_26_4107	N	SH_26_2143								P						GES	2021
Roscommon	SH_26_4158	N	SH_26_4159								G						GES	2009
Roscommon	SH_26_4159	Y		G						H	G						GES	2009
Roscommon	SH_26_469	N	SH_26_2898								P						GES	2021
Roscommon	SH_26_636	Y		P						H	P						GES	2021
Roscommon	SH_26_87	N	SH_26_3090								G						GES	2009
Roscommon	SH_26_93	Y		P						G	P						GES	2021
Roscommon, Leitrim	SH_26_133	N	SH_26_1								G						GES	2009
Roscommon, Leitrim, Longford	SH_26_3928	Y		M						H	M		Y				GES	2021
Roscommon, Mayo	SH_26_1122_1	Y		G						G	G						GES	2009
Roscommon, Sligo	SH_26_1306	N	SH_26_1122								P		Y				GES	2021
Roscommon, Sligo	SH_26_195	N	SH_26_196								G						GES	2009
Roscommon, Sligo	SH_26_196	Y		G							G						GES	2009
Roscommon, Sligo	SH_26_2896	N	SH_26_2898								P						GES	2021
Roscommon, Sligo	SH_26_3580	N	SH_26_2067								G						GES	2009
Roscommon, Sligo	SH_26_3782	Y		G						H	G		Y	Y			GES	2009
Roscommon, Sligo, Leitrim	SH_26_110	Y		B						H	B						GES	2021
Sligo	SH_26_74	N	SH_26_51								G						GES	2009
Sligo, Roscommon, Leitrim	SH_26_51	Y		G						H	G						GES	2009

Upper Shannon Water Management Unit Action Plan

Lake Data

IE_SH_UpperShannon																			
				Biological Elements			Supporting Elements					Protected Areas							
County	Member State Code	Name	Monitored Y (Extrapolated N)	Macrophytes	Chlorophyll	Fish	Morphology	Nutrient Enrichment	Physico Chemical	Ecological Status	Chemical Status	Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Bathing Water	Drinking Water	Objective	Date objective to be achieved
Cavan	SH_26_411	Naweleian (Lough)	N							H		Y					HES	2009
Leitrim	SH_26_410	Natire (Lough)	N							H		Y					HES	2009
Leitrim	SH_26_536	Nambrack (Lough)	N							G		Y					GES	2009
Leitrim	SH_26_681	Acres Lough	Y	M	M			M	M	M							GES	2015
Leitrim	SH_26_698	Killooman	N							G		Y					GES	2009
Leitrim	SH_26_738	Rowan Lough	Y	G	G			M	M	M							GES	2021
Leitrim, Roscommon	SH_26_716	Allen (Lough)	Y	M	H	M		G	G	M							GES	2015
Mayo	SH_26_580	Nanoge (Lough)	Y	H	H	M		H	H	M		Y					GES	2015
Mayo	SH_26_630	Roe (Lough)	N							M		Y					GES	2015
Mayo	SH_26_689	Urlaur Lough	Y	G						G		Y					GES	2009
Roscommon	SH_26_281	Nafulla (Lough)	N							G							GES	2009
Roscommon	SH_26_489	Fin Lough	N							M							GES	2021
Roscommon	SH_26_576	Fin Lough	N							M							GES	2021
Roscommon	SH_26_582	Corbally Lough	N							G							GES	2009
Roscommon	SH_26_584	Treanamarly Lough	N							G							GES	2009
Roscommon	SH_26_590	Cloonacolly Lough	N							M							GES	2015
Roscommon	SH_26_611	Shad Lough	N							G						Y	GES	2009
Roscommon	SH_26_661	Glinn (Lough)	Y	M	G			G	G	M							GES	2015
Roscommon	SH_26_669	Annaghmore Lough	Y	H	H	M		G	G	M		Y					GES	2015
Roscommon	SH_26_682	Nablahy (Lough)	N							G							GES	2009
Roscommon	SH_26_684	Clogher Lough	N							M							GES	2021
Roscommon	SH_26_697	Cloonagh Lough	Y	M						M		Y					GES	2015
Roscommon	SH_26_702	Errit Lough	N							u		Y						
Roscommon	SH_26_705	Cavetown Lough	Y	G	H			G	G	P							GES	2021
Roscommon	SH_26_706	Grange Lough	Y	G	H			G	G	G							GES	2009
Roscommon	SH_26_711	Meelagh (Lough)	Y	G	H			G	G	M							GES	2015
Roscommon	SH_26_721	Oakport Lough	Y	M					M	M							GES	2021
Roscommon	SH_26_722	Eidin (Lough)	N							M							GES	2021
Roscommon	SH_26_724	Key (Lough)	Y	G	H			M	M	M							GES	2021
Roscommon	SH_26_746		N							G							GES	2009
Roscommon	SH_26_748	Kilglass Lough	Y	M					G	M							GES	2015
Roscommon	SH_26_749		N							G							GES	2009
Roscommon, Leitrim	SH_26_710	Corry (Lough)	Y	M					M	M							GES	2015
Roscommon, Leitrim	SH_26_747a	Bofin (Lough)	Y	M	H			M	M	M							GES	2021
Roscommon, Leitrim	SH_26_747b	Boderg (Lough)	Y	M	H			M	M	M							GES	2021
Roscommon, Leitrim	SH_26_747c	Tap (Lough)	Y	P						P							GES	2021
Roscommon, Leitrim	SH_26_747d	Tap (Lough)	N							M							GES	2021
Sligo, Roscommon	SH_26_673	Skean (Lough)	N							G							GES	2009
Sligo, Roscommon	SH_26_728	Gara (Lough)	Y	G	H			M	M	G			Y				GES	2009