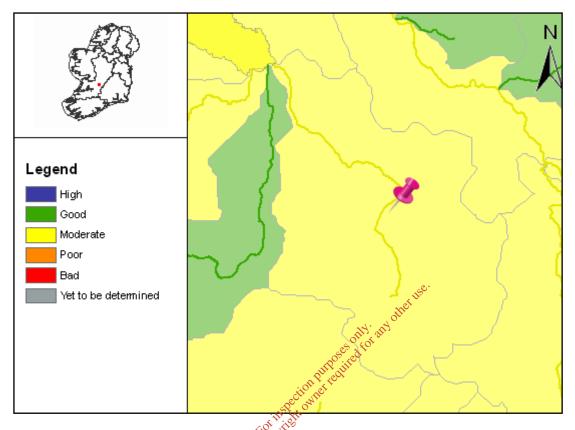




Full Report for Waterbody Ardgregane, Trib of ShannonLower



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.





Summary Information:

Water Management Unit: IE_SH_LoughDerg

WaterBody Category: River Waterbody

WaterBody Name: Ardgregane, Trib of ShannonLower

WaterBody Code: IE_SH_25_3686

Overall Status: Moderate

Overall Objective: Restore_2015
Overall Risk: 1a At Risk

Heavily Modified: No

Report data based upon final RBMP, 2009-2015.

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages:

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Status Report

Water Management Unit: IE SH LoughDerg

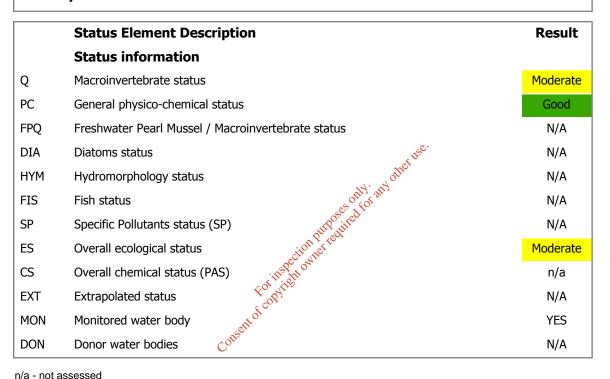
WaterBody Category: River Waterbody

WaterBody Name: Ardgregane, Trib of ShannonLower

WaterBody Code: IE SH 25 3686

Overall Status Result: Moderate

Heavily Modified: No



n/a - not assessed

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and its ecological status, whichever is worse. Waters are ranked in one of 5 status classes: High, Good, Moderate, Poor, Bad. However, not all waterbodies have been monitored, and in such cases the status of a similar nearby waterbody has been used (extrapolated) to assign status. If this has been done the first line of the status report shows the code of the waterbody used to extrapolate.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

water matters



Risk Report

Water Management Unit: IE_SH_LoughDerg

WaterBody Category: River Waterbody

WaterBody Name: Ardgregane, Trib of ShannonLower

WaterBody Code: IE_SH_25_3686

Overall Risk Result: 1a At Risk

Heavily Modified: No



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	Risk Test Description		Risk
	Diffuse Risk Sources		
RD1	EPA diffuse model (2008)	1b	Probably At Risk
RD2a	Road Wash - Soluble Copper	2b	Not At Risk
RD2b	Road Wash - Total Zinc		Not At Risk
RD2c	Road Wash - Total Hydrocarbons		Not At Risk
RD3	Railways		Not At Risk
RD4a	Forestry - Acidification (2008)		Not At Risk
RD4b	Road Wash - Total Zinc Road Wash - Total Hydrocarbons Railways Forestry - Acidification (2008) Forestry - Suspended Solids (2008) Forestry - Eutrophication (2008) Overall Unsewered (2008) Unsewered Areas - Pathogens (2008) Unsewered Phosphorus (2008) Arable Sheep Dip Consent of Consent		Not At Risk
RD4c	Forestry - Eutrophication (2008)	2a	Probably Not At Risk
RD5	Overall Unsewered (2008)	2b	Not At Risk
RD5a	Unsewered Areas - Pathogens (2008)	2a	Probably Not At Risk
RD5b	Unsewered Phosphorus (2008)	2b	Not At Risk
RD6a	Arable	2a	Probably Not At Risk
RD6b	Sheep Dip	2b	Not At Risk
RD6c	Forestry - Dangerous Substances		Not At Risk
RDO	Diffuse Overall -Worst Case (2008)	1b	Probably At Risk
	Hydrology		
RHY1	Water balance - Abstraction		Not At Risk
	Morphological Risk Sources		
RM1	Channelisation (2008)	1a	At Risk
RM2	Embankments (2008)	2b	Not At Risk
RM3	Impoundments		Not At Risk
RM4	Water Regulation		Not At Risk
RM5	Intensive Landuse		N/A
RMO	Morphology Overall - Worst Case (2008)	1a	At Risk
	Overall Risk		
RA	Rivers Overall - Worst Case (2008)	1a	At Risk
		_	





	Point Risk Sources		
RP1	WWTPs (2008)		Not At Risk
RP2	CSOs		Not At Risk
RP3	IPPCs (2008)		Not At Risk
RP4	Section 4s (2008)		Not At Risk
RP5	WTPs/Mines/Quarries/Landfills		N/A
RPO	Overall Risk from Point Sources - Worst Case (2008)		Not At Risk
	Q Value		
Q	EPA Q rating and Margaritifera Assessment		N/A
	Q/RDI or Point/Diffuse		
QPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008)	1a	At Risk
	Rivers Direct Impacts		
RDI1	Rivers Direct Impacts - Dangerous Substances		N/A

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005.

You can read more about risk assessment in our 'WFD Risk Assessment Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directory 31 Risk Assessments).





Objectives Report

Water Management Unit: IE_SH_LoughDerg

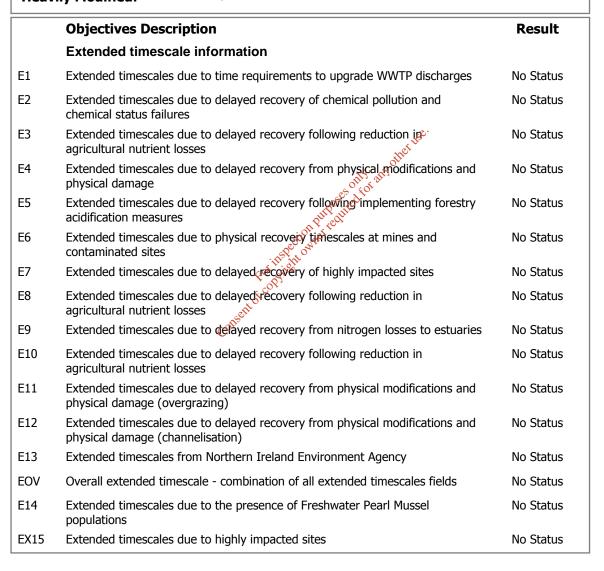
WaterBody Category: River Waterbody

WaterBody Name: Ardgregane, Trib of ShannonLower

WaterBody Code: IE SH 25 3686

Overall Objective: Restore_2015

Heavily Modified: No







	Objectives information	
OB1	Prevent deterioration objective	No Status
OB2	Restore at least good status objective	No Status
ОВ3	Reduce chemical pollution objective	No Status
OB4	Protected areas objective	Restore_2015
OB5	Northern Ireland Environment Agency objective	No Status
ОВО	Overall objectives	Restore_2015

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration Restore Good Status Reduce Chemical Pollution Achieve Protected Areas Objectives

These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.

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Measures Report

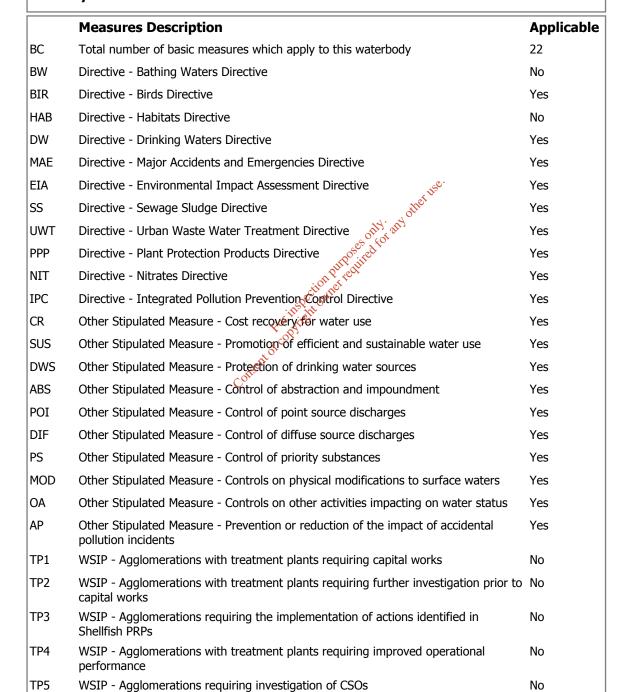
Water Management Unit: IE_SH_LoughDerg

WaterBody Category: River Waterbody

WaterBody Name: Ardgregane, Trib of ShannonLower

WaterBody Code: IE_SH_25_3686

Heavily Modified: No







TP6	\mbox{WSIP} - Agglomerations where exisitng treatment capacity is currently adequate but predicted loadings would result in overloading	No
OTS	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	No
SHE	Shellfish Pollution Reduction Plan	No
IPR	IPPC licences requiring review	No
WPR	Water Pollution Act licences requiring review	No
FOR	Forestry guidelines and regulations	Yes
CH1	Chanelisation measures	No
CH2	Chanelisation investigations	Yes
OG	Overgrazing measures	No
HQW	Protect high quality waters	No

Measures

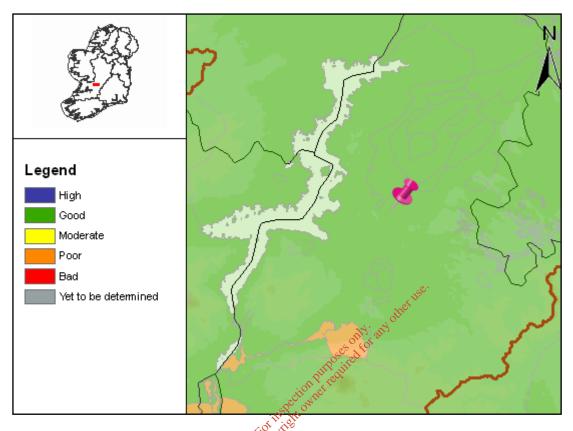
Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

You can read more about Basic Measures in 'River Basin Planning Guidance' and the other documents in our RBMP Document Library at www.wfdireland.ie.





Full Report for Waterbody Nenagh



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.





Summary Information:

Water Management Unit: N/A

WaterBody Category: Groundwater Waterbody

WaterBody Name: Nenagh

WaterBody Code: IE_SH_G_178

Overall Status: Good

Overall Objective: Protect

Overall Risk: 1a At Risk

Heavily Modified: No

Report data based upon final RBMP, 2009-2015.

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages:

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Chemical and Quantitative Status Report

Water Management Unit: N/A

WaterBody Category: Groundwater Waterbody

WaterBody Name: Nenagh

WaterBody Code: IE_SH_G_178

Overall Status Result: Good

Heavily Modified: No



	Status Element Description	Result
	Status information	
INS	Status associated with saline intrusion into groundwater	GS-HC
DWS	Status associated with exceedances of water quality above specific standards	GS-LC
DS	Chemical status of groundwater due to pressure from diffuse sources of pollution	GS-HC
CLS	Chemical status of groundwater due to pressure from contaminated soil or land.	GS-LC
MS	Chemical status of groundwater due to pressure from mine sites (active or closed).	GS-LC
UAS	Chemical status of groundwater due to pressures from urban areas	GS-HC
GWS	General groundwater quality status	GS-LC
RPS	Status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with MRP loading to rivers to the status associated with the status associated with the status as	GS-HC
TNS	Status associated with nitrate loading to transitional and coastal waters	GS-HC
SWS	Overall status associated with nutrient loadings to rivers and transitional and coastal waters	GS-HC
SQS	Status associated with dependant surface water quantitative status	GS-HC
GDS	Groundwater dependant terrestrial ecosystems status	GS-HC
QSO	Quantitative status overall	GS-HC
CSO	Chemical status overall	GS-LC
os	Overall status	Good

GS -HC : Good status High Confidence GS- LC : Good status Low Confidence

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and quantitative status, whichever is worse. Groundwaters are ranked in one of 2 status classes: Good or Poor.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

water matters



Risk Report

Water Management Unit: N/A

WaterBody Category: Groundwater Waterbody

WaterBody Name: Nenagh

WaterBody Code: IE_SH_G_178

Overall Risk Result: 1a At Risk

Heavily Modified: No



	Risk Test Description	Risk
	Groundwater Dependent Terrestrial Ecosystems	
TE	GWDTE Risk	N/A
	Groundwater Quality	
DIF	Diffuse Elements (General) Risk	N/A
DW	Drinking Waters Risk	N/A
INT	Intrusions Risk	N/A
WB	Water Balance Risk	N/A
	Groundwater Quality (General)	
GQ	General Groundwater Quality Risk	N/A
	Groundwater Quality (Point Risk)	
CL	Diffuse Elements (General) Risk Intrusions Risk Water Balance Risk Groundwater Quality (General) General Groundwater Quality Risk Groundwater Quality (Point Risk) Contaminated Land Risk Landfill Risk Mine Risk Quarry Risk Lirban Risk	N/A
LF	Landfill Risk	N/A
MI	Mine Risk	N/A
QY	Quarry Risk	N/A
UR	Urban Risk	N/A
UW	UWWT Risk	N/A
	GW Diffuse Risk Sources	
WB3	Mobile Nutrients (NO3)	N/A
WB4	Mobile Chemicals	N/A
WB5	Clustered OSWTSs and leaking urban sewerage systems	N/A
	GW Hydrology	
WB1	Water balance - Abstraction	N/A
WB2	Abstraction - Intrusion	N/A





	GW Point Risk Sources		
WB10	Risk from Point sources of pollution - Contaminated Land		N/A
WB11	Risk from Point sources of pollution - Trade Effluent Discharges		N/A
WB12	Risk from Point sources of pollution - Urban Wastewater Discharges		N/A
WB6	Risk from Point sources of pollution - Mines		N/A
WB7	Risk from Point sources of pollution - Quarries		N/A
WB8	Risk from Point sources of pollution - Landfills		N/A
WB9	Risk from Point sources of pollution - Oil Industry Infrastructure		N/A
	Overall Risk		
RA	Groundwater Overall - Worst Case		N/A
	Risk information		
CLR	Contaminated land risk	2a	Probably Not At Risk
DR	Risk of groundwater due to pressure from diffuse sources of pollution	2a	Probably Not At Risk
DWR	Risk associated with exceedances of water quality above specific standards	1a	At Risk
GDR	Groundwater dependant terrestrial ecosystems risk	2b	Not At Risk
GWR	General groundwater quality risk	1a	At Risk
INR	Risk associated with saline intrusion into groundwaters and the saline intrusion into groundwaters are saline intrusion into groundwaters and the saline intrusion into groundwaters are saline intrusion into groundwaters.	2b	Not At Risk
LR	Risk due to landfills sites/old closed dump sites out during the landfills sites/old closed dump sites		Not At Risk
MR	Mines risk edignie in the second seco	1a	At Risk
NULL	standards Groundwater dependant terrestrial ecosystems risk General groundwater quality risk Risk associated with saline intrusion into groundwater salited by the first distribution into groundwater salited by		N/A
QR	Risk due to quarries		Not At Risk
RA	Revised risk assessment	1a	At Risk
RPR	Risk associated with MRP loading to rivers	2b	Not At Risk
SQR	Risk associated with dependant surface water quantitative status		Not At Risk
SWR	Overall risk associated with nutrient loadings to rivers and transitional and coastal waters		Not At Risk
TNR	Risk associated with nitrate loading to transitional and coastal waters		Not At Risk
UAR	Risk of groundwater due to pressures from urban areas		Not At Risk
UWR	Risk due to direct discharges of urban wastewater	2b	Not At Risk

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005.

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Objectives Report

Water Management Unit: N/A

WaterBody Category: Groundwater Waterbody

WaterBody Name: Nenagh

WaterBody Code: IE_SH_G_178

Overall Objective: Protect

Heavily Modified: No



	Objectives Description	Result
	Extended timescale information	
E1	Extended deadlines due to agricultural P	No Status
E2	Extended deadlines due to agricultural N	No Status
E3	Extended deadlines due to mines	No Status
E4	Extended deadlines due to urban areas	No Status
E5	Extended deadlines due to contaminated lands	No Status
EO	Extended deadlines - overall	No Status
	Objectives information	
OB1	Prevent deterioration objective	Protect
OB2	Restore at least good status objectives the	No Status
ОВ3	Reduce chemical pollution objectives	No Status
OB4	Extended deadlines due to urban areas Extended deadlines due to contaminated lands Extended deadlines - overall Objectives information Prevent deterioration objective Restore at least good status objectives information Reduce chemical pollution objective Overall objectives - objective Overall objectives - objective	No Status
ОВО	Overall objectives - objective	Protect

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

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These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.





Measures Report

Water Management Unit: N/A

WaterBody Category: Groundwater Waterbody

WaterBody Name: Nenagh

WaterBody Code: IE_SH_G_178

Heavily Modified: No



	Measures Description	Applicable
BC	Total number of basic measures which apply to this waterbody	26
BW	Directive - Bathing Waters Directive	No
BIR	Directive - Birds Directive	Yes
HAB	Directive - Habitats Directive	Yes
DW	Directive - Drinking Waters Directive	Yes
MAE	Directive - Major Accidents and Emergencies Directive	Yes
EIA	Directive - Environmental Impact Assessment Directive	Yes
SS	Directive - Sewage Sludge Directive	Yes
UWT	Directive - Urban Waste Water Treatment Directive	Yes
PPP	Directive - Plant Protection Products Directive	Yes
NIT	Directive - Nitrates Directive	Yes
IPC	Directive - Integrated Pollution Prevention Control Directive	Yes
CR	Directive - Environmental Impact Assessment Directive Directive - Sewage Sludge Directive Directive - Urban Waste Water Treatment Directive Directive - Plant Protection Products Directive Directive - Nitrates Directive Directive - Integrated Pollution Prevention Control Directive Other Stipulated Measure - Cost recovery for water use Other Stipulated Measure - Promotion of efficient and sustainable water use Other Stipulated Measure - Protection of drinking water sources Other Stipulated Measure - Control of abstraction and impoundment	Yes
SUS	Other Stipulated Measure - Promotion of efficient and sustainable water use	Yes
DWS	Other Stipulated Measure - Protection of drinking water sources	Yes
ABS	Other Stipulated Measure - Control of abstraction and impoundment	Yes
POI	Other Stipulated Measure - Control of point source discharges	Yes
DIF	Other Stipulated Measure - Control of diffuse source discharges	Yes
GW	Other Stipulated Measure - Authorisation of discharges to groundwaters	Yes
PS	Other Stipulated Measure - Control of priority substances	Yes
MOD	Other Stipulated Measure - Controls on physical modifications to surface waters	Yes
OA	Other Stipulated Measure - Controls on other activities impacting on water status	Yes
AP	Other Stipulated Measure - Prevention or reduction of the impact of accidental pollution incidents	Yes
OTS	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	No
SHE	Shellfish Pollution Reduction Plan	No
IPR	IPPC licences requiring review	Yes
WPR	Water Pollution Act licences requiring review	Yes
FOR	Forestry guidelines and regulations	Yes

Date Reported to Europe:July 2010

Date Report Created 19/07/2016





HQW Protect high quality waters

Yes

Measures

Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

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