

Significant Water Management Issues

Carlingford and Newry Local Management Area Action Plan and Update

December 2013

LMA Action		Associated Action	Details of Action																												
1	Complete desktop study and risk analysis using available catchment data to identify areas under pressure and allow further investigations on the ground to be carried out.	Additional LMA investigative monitoring	23 additional sites were monitored on the Newry and Mourne LMA between 01/8/2011 and the 03/11/2011 . Investigations involved site assessments, kick sampling and invertebrate identification both in field and in lab. The additional sampling helped in the identification of 18 river walks within the LMA.																												
2	Carry out monitoring and assessment to identify and address pressures throughout the Newry and Mourne LMA.	Data analysis River walks	Data scrutiny completed by WMU water quality planners resulting in a comprehensive desktop study and risk analysis. 18 river walks and 9 sites requiring Dissolved Oxygen surveys identified. <u>11 river walks completed between February 2012 and September 2013 in the following areas :</u> <table border="1"> <thead> <tr> <th></th> <th>River Name</th> <th>Number of Walks</th> <th>Results and Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Creggan River</td> <td>1</td> <td>No pollution found</td> </tr> <tr> <td>2</td> <td>Clanrye River Tributary</td> <td>2</td> <td><u>River Walk 1</u> – Sewage Fungus found in Tributary downstream of a Filling Station. Pollution due to their Sewage System caused by inadequate maintenance of their Grease Trap. Appropriate action has been carried out by NIEA Industrial Consents Team. <u>River Walk 2</u> – Sewage Fungus noted downstream of a farm. A large uncovered Midden was found on the farm and traces of effluent leakage from a silage clamp discharging from a drainage pipe into the river. Reported to NIEA pollution Hotline. Farmer was breached twice under cross compliance regulations and has agreed to move the midden.</td> </tr> <tr> <td>3</td> <td>Newry River Trib</td> <td>5</td> <td>No pollution found.</td> </tr> <tr> <td>4</td> <td>Bessbrook River</td> <td>1</td> <td>No Pollution found</td> </tr> <tr> <td>5</td> <td>Kilnassagart River (aka Ballymascallan)</td> <td>1</td> <td>A minimal amount of sewage fungus was noted at the discharge pipe of WWTW. No pollution found elsewhere.</td> </tr> <tr> <td>6</td> <td>County Water 24.09.13</td> <td>1</td> <td>Extensive river walk carried out on the County Water water body in conjunction with Monaghan County Council due to elevated levels of ammonia and phosphate being recorded at County Water Bridge. Chemistry samples were taken at 13 different sites along the river. (i)Sewage and oil found at an industrial discharge which was causing a</td> </tr> </tbody> </table>		River Name	Number of Walks	Results and Action	1	Creggan River	1	No pollution found	2	Clanrye River Tributary	2	<u>River Walk 1</u> – Sewage Fungus found in Tributary downstream of a Filling Station. Pollution due to their Sewage System caused by inadequate maintenance of their Grease Trap. Appropriate action has been carried out by NIEA Industrial Consents Team. <u>River Walk 2</u> – Sewage Fungus noted downstream of a farm. A large uncovered Midden was found on the farm and traces of effluent leakage from a silage clamp discharging from a drainage pipe into the river. Reported to NIEA pollution Hotline. Farmer was breached twice under cross compliance regulations and has agreed to move the midden.	3	Newry River Trib	5	No pollution found.	4	Bessbrook River	1	No Pollution found	5	Kilnassagart River (aka Ballymascallan)	1	A minimal amount of sewage fungus was noted at the discharge pipe of WWTW. No pollution found elsewhere.	6	County Water 24.09.13	1	Extensive river walk carried out on the County Water water body in conjunction with Monaghan County Council due to elevated levels of ammonia and phosphate being recorded at County Water Bridge. Chemistry samples were taken at 13 different sites along the river. (i)Sewage and oil found at an industrial discharge which was causing a
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				<p>detrimental effect on the river quality. (ii) Numerous tyres and plastic material from silage bale wraps found in river close to a farm in the area. (iii) Extensive siltation in river caused by recently dug out banks. (iv) Extensive sewage fungus found downstream of a farm caused by silage effluent leaching into the waterway-a visit was made by WQI and farmer was given advice-pollution logged with pollution hotline and follow up visit to take place.</p>																							
		Dissolved Oxygen Surveys	<p>5 Dissolved Oxygen surveys carried out between 06/06/12 and 03/07/12 in the following areas:</p>																								
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LMA Action		Associated Action	Details of Action
3	Carry out compliance assessment on discharges from WWTW within Catchment		Compliance Assessment Results for 2011 is as follows: Lurganare - Pass Rathfriland – Pass Newry – Pass Warrenpoint – Pass Annalong – Pass Meigh – Pass Forkhill – Pass Newtownhamilton – Pass Cullyhanna – Pass Cullaville – Pass
4	Carry out compliance assessment on consented industrial discharges within catchment		Compliance Assessment results for 2012-2013 is as follows: ● 150 sites have been sampled. ● 11 sites failed to comply.
5	Carry out fish monitoring and assessment for annual report on catchment status and WFD fish monitoring programme.		DCAL have recently published fishery data online. This report can be found on: www.dcalni.gov.uk/digest of fisheries statistics .
6	Conduct invasive alien species recording during river walks.		During the course of river walks any sightings or suspected sightings of invasive alien species are collated and reported to Invasive Species Ireland.
7	Raise awareness and promote the benefits of effective farm nutrient and waste management within the LMA		'Water Quality Plans in Action' article published in Farming Life Oct 2012. 'Landowner Awareness – improving water quality in your local area' leaflet developed in conjunction with DARD, UFU and Loughs Agency.
8	Promote the control of invasive alien species on farmland		NIEA Natural Heritage has liaised with a range of individuals and groups and provided training and advice in relation to invasive species control.
9	Upgrading of WWTW's in LMA		WWTW Upgrades complete in the following areas: WWTW at Loughdian (Newry Canal) WWTW at Savalmore Cottages (Clanrye river) WWTW at Maytown Rd, Mullaghglass and Armagh Rd No.s 202-206 (Bessbrook River) WWTW at Mountain View Drumintee (Kilnasaggart) WWTW at Carrickovaddy (Dorsy River) WWTW at Silverbridge (Cully Water Lower)
10	Conduct a water resource assessment to inform an ongoing review of abstraction licences within Northern Ireland.		The water resource assessment has been completed for Carlingford and Mourne LMA. The agency will continue to monitor flows within the catchment through a combination of the river flow gauging network, spot gauging and modelling. Existing licence holders will also be required to make monitoring returns on their abstracted volumes.
11	Encourage riparian zone management with an aim to improve biodiversity and minimise sedimentation through practical management measures on farms.		A measure within the Nitrates Action Programme is that all farms must carry out crop and soil management to minimise soil erosion and nutrient runoff. This is verified during cross-compliance visits

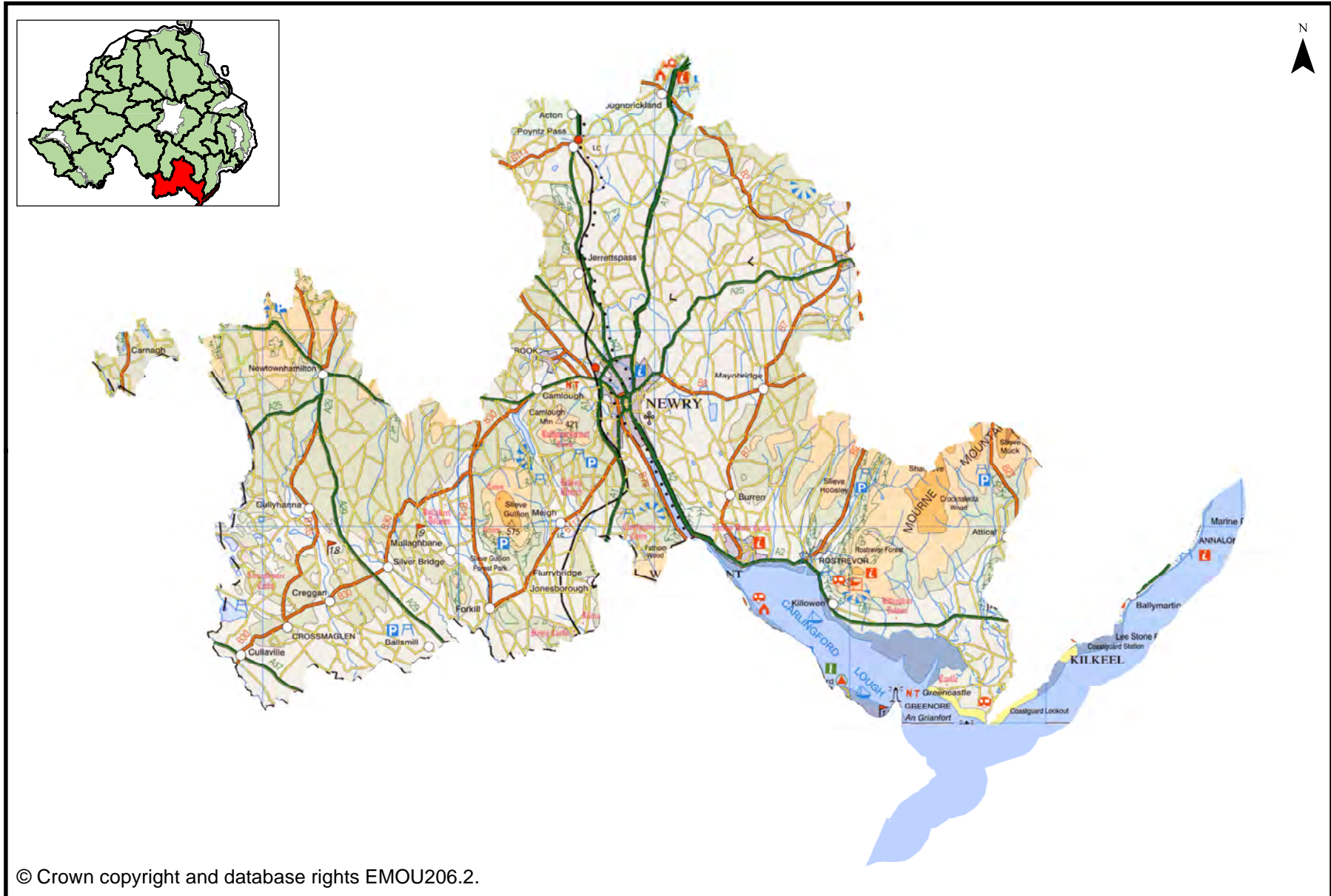
	LMA Action	Associated Action	Details of Action
12	Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage throughout the LMA.		Signs erected at: Lough Brickland Lake. Silver Bridge, Crossmaglen Art Hamills Br , Crossmaglen County Bridge, Newtownhamilton Captains Bridge, Newtownhamilton Black Water Bridge, Newtownhamilton
13	Promote public participation by supporting local community events, raising awareness through press articles and the web publication of the Carlingford and Mourne LMA ezine.		3 rd Issue of the Carlingford and Mourne LMA E-Zine e-mailed to Carlingford and Mourne CSG contacts.
14	Organise two CSG meetings per year to provide an open forum for discussion on water issues and encourage involvement in developing and implementing the Local Management Area Plan.		Spring Meeting held 8th May 2013 in Castewellan Forest Park. Autumn Meeting held 16 October 2013 in Hillyard House, Castlewellan. Presentations and note of meetings can be found on http://www.doeni.gov.uk/niea/water-home/wfd/public_partic_3/catchment_stakeholder_groups/carlingford_and_mourne.htm



CARLINGFORD AND NEWRY
Local Management Area



Map 1: Carlingford and Newry Local Management Area



Introduction

River Basin Management Plans were published in December 2009. The plans describe where the water environment needs to be protected or improved, the timeframe to make these improvements and how that can be achieved. The plans will be implemented through Local Management Areas (LMAs) during the 2009 to 2015 planning cycle. The Carlingford and Newry Local Management Area Action Plan is one of a series of action plans that have been developed for the 26 LMAs across the Neagh Bann, North Western and North Eastern River Basin Districts. The action plan details local measures identified to improve the water environment.

Carlingford and Newry Local Management Area

The Carlingford and Newry LMA (Map 1), is part of the Neagh Bann River Basin District, drains predominantly into Carlingford Lough and Dundalk Bay. The area covers approximately 823 km². The largest river is the Newry River which rises around Rathfriland and flows through Newry City to Carlingford Lough. There are also a number of smaller distinct river systems such as the Creggan River, Fane River, Kilcurry River and Flurry River that flow southwards into the Republic of Ireland. Others that discharge directly into Carlingford Lough or coastal waters include the White Water River, Kilbroney River and Cassey Water. The main towns are Newry and Warrenpoint, with several smaller towns throughout the area including Rathfriland, Rostrevor and Crossmaglen.

The LMA includes two Areas of Outstanding Natural Beauty in the Mourne Mountains and the Ring of Gullion. The Carlingford and Newry LMA supports important habitats and wildlife. These areas have been designated under European Directives and require special protection. Details of the protected areas are summarised in Table 2.

What is the status of the water environment in the Carlingford and Newry LMA?

95% of surface water bodies in the Carlingford and Newry LMA have been classified as less than good status. Many of the rivers failed to achieve good status due to suppressed invertebrate populations and morphological alterations.

Groundwaters (underground water) interact with the surface waters around them, thus the quality and quantity of an area's groundwater can affect the surface waters. There are 2 groundwater bodies in Carlingford and Newry LMA. They are Newry and Louth, both of which are achieving good status.

In this LMA the main impact was seen in invertebrate populations. The rivers affected were: Clanrye, Newry, Bessbrook, Camlough, Creggan, Flurry and County Water. 13 water bodies were identified as being affected by changes to morphology (physical habitat). The main rivers affected were: Clanrye River, Dorsy River, Forkhill River, Ummeracam, Kilcurry, Ghann, Kilbroney, Creggan and Newry River.

The water environment in Northern Ireland has been impacted by the introduction of invasive alien species. Species which have already become established in this area include:

- Canadian Pondweed (*Elodea canadensis*)
- Giant Hogweed (*Heracleum mantegazzianum*)
- Japanese Knotweed (*Fallopia japonica*)
- Himalayan Balsam (*Impatiens glandulifera*)

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Map 2: 2009 status of surface water bodies in Carlingford and Newry LMA

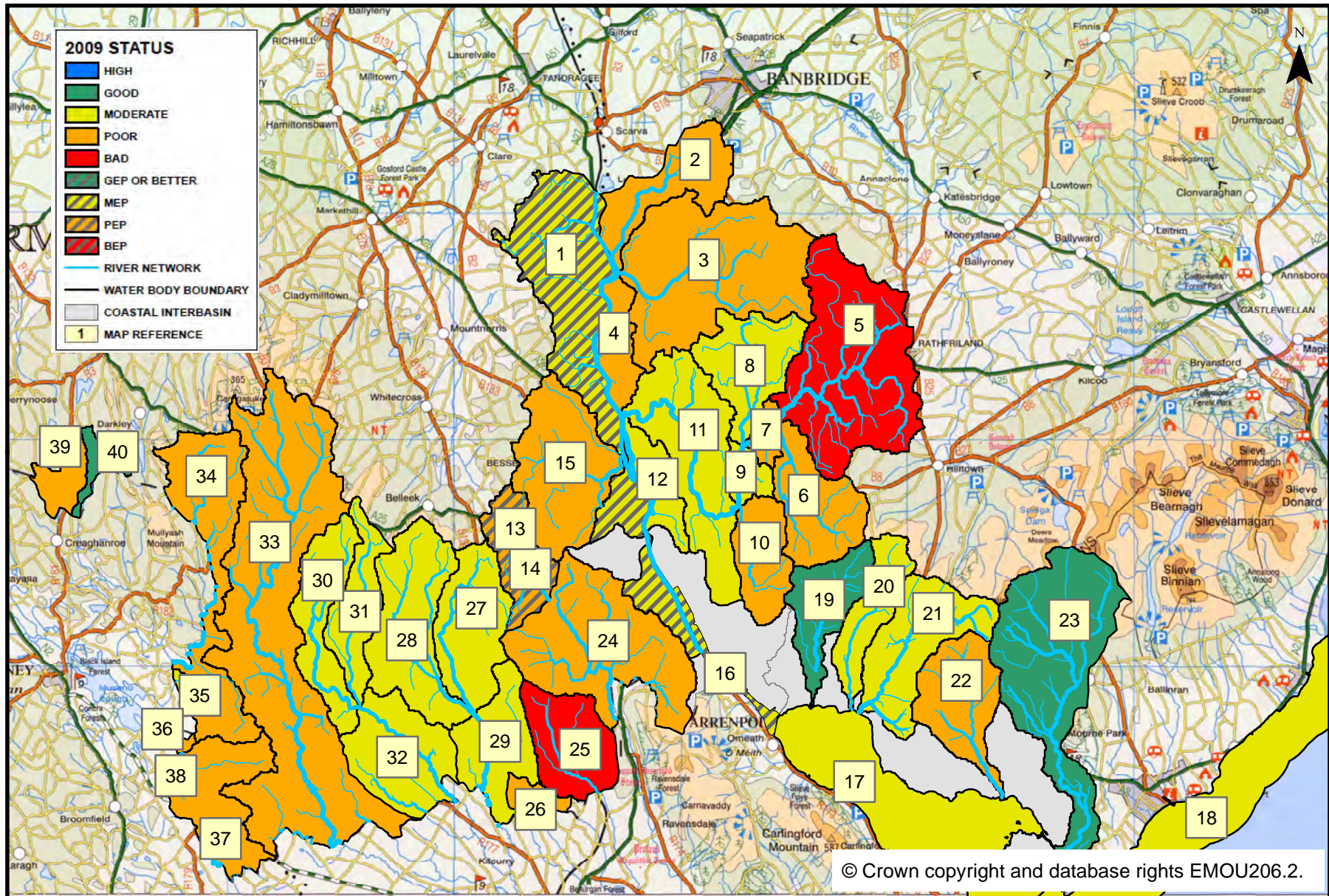


Table 1: 2009 status and proposed objectives

Map Reference	Water Body Code	Water Body Name	2009 Status	2015 Objective	Page Number
1	UKGBNI1NB060604048	Newry Canal	MEP	MEP	12
2	UKGBNI1NB060601025	Newry River Tributary	Poor	Moderate	13
3	UKGBNI1NB060601024	Newry River Tributary	Poor	Moderate	14
4	UKGBNI1NB060604047	Jerretspass River	Poor	Moderate	14
5	UKGBNI1NB060601021	Clanrye River	Bad	Moderate	15
6	UKGBNI1NB060601018	Clanrye River Tributary	Poor	Moderate	16
7	UKGBNI1NB060601004	Clanrye River Tributary	Poor	Moderate	16
8	UKGBNI1NB060601003	Clanrye River Tributary	Moderate	Good	17
9	UKGBNI1NB060601005	Clanrye River	Moderate	Good	17
10	UKGBNI1NB060601020	Clanrye River Tributary	Poor	Moderate	18
11	UKGBNI1NB060601044	Clanrye River	Moderate	Good	18
12	UKGBNI1NB060604046	Newry River	Moderate	Good	19
13	UKGBNI1NB060602017	Bessbrook River	PEP	MEP	19
14	UKGBNI3NB0021	Cam Lough	MEP	MEP	20
15	UKGBNI1NB060604049	Bessbrook River	Poor	Moderate	20
16	UKGBNI5NB030010	Newry Estuary	MEP	MEP	21
17	UKGBNI6NB030	Carlingford Lough	Moderate	Moderate	21
18	UKGBNI6NB020	Mourne Coast	Moderate	Moderate	22
19	UKGBNI1NB060604042	Moygannon River	Good	Good	22
20	UKGBNI1NB060604040	The Ghann River	Moderate	Good	22
21	UKGBNI1NB060604041	Kilbroney River	Moderate	Good	23
22	UKGBNI1NB060604011	Cassy Water	Poor	Moderate	23

Table 1: 2009 status and proposed objectives (continued)

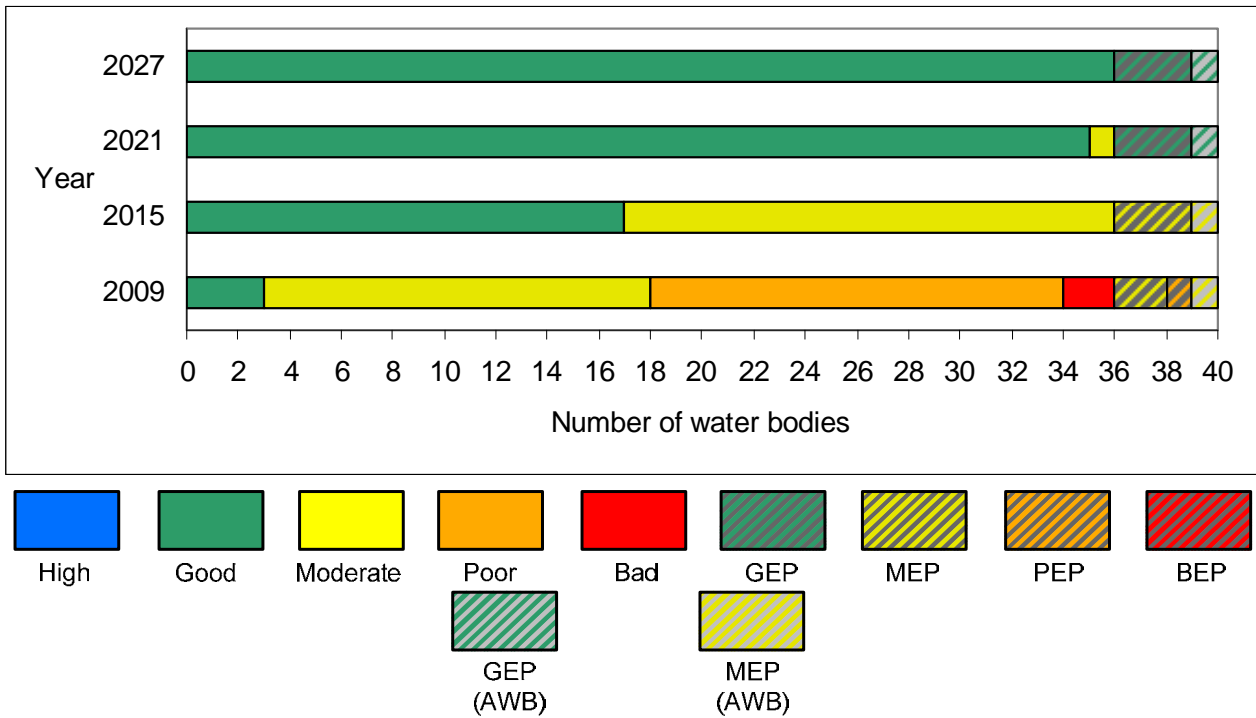
Map Reference	Water Body Code	Water Body Name	2009 Status	2015 Objective	Page Number
23	UKGBNI1NB060604045	White Water	Good	Good	24
24	UKGBNI1NB060602039	Flurry River	Poor	Moderate	24
25	UKGBNI1NB060602038	Kilnasaggart (akaBallymascallan)	Bad	Moderate	25
26	UKGBNI1NB060604053	Raskeagh River	Poor	Good	26
27	UKGBNI1NB060602002	Forkhill River Tributary	Moderate	Good	26
28	UKGBNI1NB060602035	Forkhill River	Moderate	Good	27
29	UKGBNI1NB060602037	Forkhill River (aka Kilcurry)	Moderate	Good	27
30	UKGBNI1NB060602001	Dorsy River	Moderate	Good	28
31	UKGBNI1NB060602036	Ummeracam River	Moderate	Good	28
32	UKGBNI1NB060602034	Cully Water Lower	Moderate	Good	29
33	UKGBNI1NB060602029	Creggan River	Poor	Moderate	30
34	UKGBNI1NB060603027	County Water	Poor	Moderate	31
35	UKGBNI1NB060604051	Lough Alina Outflow	Moderate	Good	31
36	UKGBNI1NB060603028	Fane River Upper	Poor	Moderate	31
37	UKGBNI1NB060604052	Fane River Upper	Poor	Moderate	32
38	UKGBNI3NB0020	Lough Ross Monaghan	Poor	Moderate	32
39	UKGBNI1NB060604050	River Blackwater	Poor	Moderate	33
40	UKGBNI1NB060603031	Gentle Owen's Lake Stream	Good	Good	33

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What improvements do we plan to achieve?

We have set environmental objectives to deliver improvements as shown below. We aim to achieve good status or better in 42% of our surface waters and maintain good status in 100% of our groundwaters.

Figure 1: 2009 status and proposed objectives for surface waters in Carlingford and Newry LMA



How are we going to maintain and improve the water environment in the Carlingford and Newry Local Management Area?

There are a number of actions which will be implemented in the Carlingford and Newry LMA in order to maintain and improve the water environment. The list of actions that follows include actions that apply throughout the LMA and also actions that apply to individual water bodies.

The actions below apply throughout the LMA.

	Action to be taken	Action to be taken by	Target Date
1	Promote public participation in the river basin planning process by hosting bi-annual Catchment Stakeholder Group meetings, holding bi-lateral meetings with groups and individuals and the generation of e-zines.	DOE NIEA	Dec 2015
2	Support local environmental initiatives which improve the water environment.	DOE NIEA	Dec 2015
3	Promote public participation by raising awareness of River Trusts.	DOE NIEA	Dec 2015
4	Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage at targeted sites throughout the LMA.	DOE NIEA	Mar 2013
5	Support pollution prevention campaigns such as 'Reduce Reuse Recycle', 'Bag It & Bin It', 'Stop and Think (Not Down the Sink)' to increase awareness of key issues.	DOE NIEA	Dec 2015
6	Highlight external funding opportunities for water management projects to local partners including the WATER Community Environment Awards 2012.	DOE NIEA	Dec 2015
7	Create an inventory of physical structures within the river channel and bank structures that may be an impediment to fish movement while on river survey.	NIEA, Loughs Agency	Dec 2015
8	Carry out monitoring and assessment of fish populations and fishery habitat in prioritised river catchments.	DCAL, Loughs Agency, NIEA	Mar 2013
9	Review Rivers Agency's annual watercourse maintenance program to assess for potential ecological impacts within the LMA.	DOE NIEA	Dec 2012
10	Develop targeted ecological modelling tools for lake management within the LMA.	AFBI, DOE NIEA	Dec 2014
11	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species to reduce the potential for impacts on biodiversity.	DOE NIEA, Angling clubs	Mar 2013
12	Conduct a water resource assessment to inform an ongoing review of abstraction licences within Northern Ireland.	DOE NIEA	Mar 2012
13	Complete the phosphorus nutrient budget work for Northern Ireland to establish nutrient inputs from different sectors and assess water bodies failing to achieve good status for soluble reactive phosphorus.	AFBI, DOE NIEA	Mar 2013
14	Review the relevance of nutrient budget in the context of this LMA to establish relative nutrient inputs from agriculture, industry and sewage discharges to establish relative nutrient inputs from agriculture, industry and sewage discharges.	DOE NIEA	Mar 2013
15	Raise awareness and promote the benefits of effective farm nutrient and waste management.	DARD Countryside Management Branch	Dec 2015
16	Encourage riparian zone management with an aim to improve biodiversity and minimise sedimentation through practical management measures on farms.	DARD Countryside Management Branch	Dec 2015

	Action to be taken	Action to be taken by	Target Date
17	Promote best practice in the use of pesticides on farms within the LMA.	DOE NIEA, DARD Countryside Management Branch	Dec 2015
18	DARD Countryside Management and NIEA to develop leaflets and articles to promote effective farm nutrient and waste management within the LMA.	NIEA, DARD Countryside Management Branch	Dec 2015
19	Promote the control of invasive alien species on farmland.	DARD Countryside Management Branch	Dec 2015

The actions below apply to individual water bodies in the LMA. The 2009 status or ecological potential is shown for each water body.

UKGBNI1NB060604048		Newry Canal		2009 Status: MEP	
	Action to be taken	Action to be taken by	Target Date		
1	Assess sources of organic pollution from agriculture and sewage discharges in the catchment.	DOE NIEA	Mar 2013		
2	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species.	DOE NIEA, Newry & Mourne DC, Angling clubs	Mar 2013		
3	Investigate fly tipping within the water body and support initiatives with local businesses and Newry & Mourne District Council to find solutions.	DOE NIEA, Newry & Mourne DC	Mar 2013		
4	Investigate feasibility and practicality of implementing morphological mitigation measures as recommended by the UK Technical Advisory Group on the Water Framework Directive to support good ecological potential. This includes canal level management, enhanced marginal aquatic vegetation and addressing fish passage issues.	DOE NIEA, Newry & Mourne DC	Mar 2013		
5	Carry out compliance assessment on consented discharges from quarrying operations within the catchment.	DOE NIEA	Dec 2012		
6	Carry out a visual inspection of WWTW at Acton to assess for performance and downstream impacts.	DOE NIEA	Completed		
7	Upgrading of WWTW at Loughdian (sewage transfer to Poyntzpass WWTW).	NIWL	Completed		
8	Carry out full RHAT assessment to ground truth morphological condition.	DOE NIEA	Dec 2012		

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601025		Newry River Tributary	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Carry out a river walk on Loughbrickland lake tributary at Aghaderg and Ballyvanny to investigate potential pressures on lake water quality.	DOE NIEA	Completed	
2	Investigate identified water quality impacts on Loughbrickland Lake by survey and analysis of landuse and other activities within catchment.	DOE NIEA	Completed	
3	Carry out a river walk downstream of Loughbrickland Transfer Sewage Pumping Station and Killysaven WWTW to assess for potential impacts on water quality.	DOE NIEA	Completed	
4	Carry out compliance assessment on consented industrial discharges within the catchment (private sewage discharges).	DOE NIEA	Dec 2012	
5	Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage at car park access point to Loughbrickland Lake.	DOE NIEA	Sep 2012	
6	Assess sources of organic pollution from agriculture, sewage discharges and industry as water body failing to achieve good status for invertebrates and aquatic plants.	DOE NIEA	Mar 2012	
7	Assess significance of sheep dip usage and review groundwater authorisations where appropriate within an area adjacent to the river channel at Drumsallagh.	DOE NIEA	Dec 2012	
8	Assess road schemes drainage impact on sediment loads to Loughbrickland Lake and river along A1 corridor.	DOE NIEA	Dec 2012	
9	Investigate failure of aquatic invertebrates and plants by assessing sources of organic pollution from agriculture, sewage discharges and industry.	DOE NIEA	Mar 2013	
10	Carry out a visual inspection of WWTW at Killysavan to assess for performance and downstream impacts.	DOE NIEA	Mar 2013	

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UKGBNI1NB060601024		Newry River tributary	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Conduct biological investigations to assess aquatic invertebrates on the Clanrye River at Annaghbane and on a tributary at Creevy.		DOE NIEA	Completed
2	Assess significance of sheep dip usage and review groundwater authorisations where appropriate within areas close to the river channel at Creevy and Annaghbane.		DOE NIEA	Dec 2012
3	Carry out compliance assessment on consented industrial discharges within the catchment of the tributary at Creevy.		DOE NIEA	Dec 2012
4	Assess sources of organic pollution from large areas of improved pastureland throughout catchment as water body failing to achieve good status for phosphorus.		DOE NIEA	Mar 2013
5	Investigate failure of aquatic invertebrates in tributaries at Creevy and Ballinataggart as indicated by biological survey in summer 2011.		DOE NIEA	Mar 2013
6	Assess road schemes drainage impact on sediment loads to Clanrye River in stretch upstream of Glen Bridge.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604047		Jerretspass River	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to establish the extent of dissolved oxygen suppression in water body.		DOE NIEA	Dec 2012
2	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in area close to the river channel at Drumantine.		DOE NIEA	Dec 2012
3	Carry out full RHAT assessment on river water body to assess for potential impacts on flow, dissolved oxygen and fish passage due to canalisation and straightening due to constraining of water body by Newry canal.		DOE NIEA	Mar 2014
4	Carry out compliance assessment on consented industrial discharges within catchment.		DOE NIEA	Dec 2012
5	Investigate failure of aquatic invertebrates by assessing sources of organic pollution from agriculture and sewage discharges in the water body.		DOE NIEA	Mar 2013
6	Carry out compliance assessment on discharge from Lurganare WWTW.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601021		Clanrye River	2009 Status: Bad	
	Action to be taken		Action to be taken by	Target Date
1	Conduct biological investigations to assess aquatic invertebrates on tributaries of Clanrye River at Drumlough, Lissize, McGinn's Cross and Ballynamagna to determine the impact of agricultural activity in upper catchment.		DOE NIEA	Completed
2	Assess sources of organic pollution as water body failing to achieve good status for phosphorus and aquatic plants.		DOE NIEA	Mar 2013
3	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in area close to river channel on tributary at Drumlough.		DOE NIEA	Dec 2012
4	Carry out compliance assessment of discharge from Rathfriland WWTW.		DOE NIEA	Dec 2012
5	Carry out a river walk at Glen Bridge, Barmeen and at Ballykeel Road, Carnanny to investigate recurrent issues with pollution.		DOE NIEA	Sep 2012
6	Investigate failure of aquatic invertebrates in three tributaries upstream of Loughbrickland Road, Rathfriland as indicated by biological survey in summer 2011.		DOE NIEA	Mar 2013
7	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.		DOE NIEA, QUB, Angling clubs	Dec 2014

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601018		Clanrye River tributary		2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date		
1	Carry out a river walk on tributary at Craigakill upstream of Chapel Hill Road, Mayobridge to investigate potential impact of non-inert waste landfill site.	DOE NIEA	Sep 2012		
2	Carry out a river walk on tributary upstream of Fegan's Close, Mayobridge to investigate possible unconsented discharges.	DOE NIEA	Sep 2012		
3	Conduct biological investigations to assess aquatic invertebrates on major tributary downstream of Mayobridge and at Ballyvally.	DOE NIEA	Completed		
4	Assess sources of organic pollution from lower catchment downstream of Mayobridge where agriculture is intensive.	DOE NIEA	Mar 2013		
5	Investigate failure of aquatic invertebrates by conducting targeted catchment surveys and river walks to identify potential pollution pressures.	DOE NIEA	Mar 2013		
6	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.	DOE NIEA, QUB, Angling clubs	Dec 2014		

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601004		Clanrye River tributary		2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date		
1	Conduct biological investigations to assess aquatic invertebrates at Ryan Bridge to determine ecological conditions in major tributary confluencing downstream of Hawkins Bridge.	DOE NIEA	Completed		
2	Investigate failure of aquatic invertebrates by conducting targeted catchment surveys and river walks to identify potential pollution pressures.	DOE NIEA	Mar 2013		
3	Assess sources of organic pollution as water body is failing to achieve good status for phosphorus and aquatic invertebrates.	DOE NIEA	Mar 2013		
4	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.	DOE NIEA, QUB, Angling clubs	Dec 2014		

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601003		Clanrye River tributary	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Conduct biological investigations to assess aquatic invertebrates on stretch at Loughome House upstream of Bankside WWTW discharge.		DOE NIEA	Completed
2	Assess sources of organic pollution as water body is failing to achieve good status for phosphorus and aquatic invertebrates.		DOE NIEA	Mar 2013
3	Investigate failure of aquatic invertebrates by conducting targeted catchment surveys and river walks to identify potential pollution pressures.		DOE NIEA	Mar 2013
4	Carry out a visual inspection of WWTW at Bankside to assess for performance and downstream impacts.		DOE NIEA	Dec 2012
5	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.		DOE NIEA, QUB, Angling Clubs	Dec 2014

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601005		Clanrye River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Assess sources of organic pollution as water body is failing to achieve good status for phosphorus and aquatic invertebrates.		DOE NIEA	Mar 2013
2	Investigate failure of aquatic invertebrates by conducting targeted catchment surveys and river walks to identify potential pollution pressures.		DOE NIEA	Mar 2013
3	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.		DOE NIEA, QUB, Angling Clubs	Dec 2014

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601020		Clanrye River tributary	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Conduct biological investigations to assess aquatic invertebrates downstream of Derryleckagh Lake as an indicator of the ecological impact of the lake outflow water quality.		DOE NIEA	Completed
2	Assess sources of organic pollution from agriculture and licensed waste disposal site in relation to potential nutrient enrichment of Derryleckagh Lake Special Area of Conservation.		DOE NIEA	Mar 2013
3	Investigate identified water quality impacts due to the presence of impoundments at Derrylackagh Lake and Milltown Lough.		DOE NIEA	Mar 2013
4	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.		DOE NIEA, QUB, Angling clubs	Dec 2014
5	Carry out monitoring and assessment of chemical and biological quality elements to confirm ecological status of water body.		DOE NIEA	Mar 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060601044		Clanrye River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Conduct biological investigations to assess aquatic invertebrates at Sheep Bridge and at Mountmill Bridge to determine the ecological impact of consented discharges within the catchment (tributary at Beechill and drainage from the A1 road scheme).		DOE NIEA	Completed
2	Assess road schemes drainage impact on sediment loads to the lower stretches of the Clanrye River between Mountmill Bridge and Sheepbridge.		DOE NIEA	Dec 2012
3	Assess sources of organic pollution from agriculture and sewage discharges within catchment as water body is failing to achieve good status for invertebrates and phosphorus.		DOE NIEA	Mar 2013
4	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in areas close to the river channel around Sheep Bridge, Mountmill Bridge and Crobane.		DOE NIEA	Dec 2012
5	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in support of the project Controlling Priority Invasive Species and Restoring Native Biodiversity (CIRB) being piloted on the Clanrye River.		DOE NIEA, QUB, Angling clubs	Dec 2014
6	Upgrading of WWTW at Savalmore Cottages, Newry.		NIWL	Completed

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604046		Newry River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out full RHAT assessment in this water body to assess the degree of hydromorphological alteration due to urbanisation and constraining by Newry canal.		DOE NIEA	Dec 2012
2	Investigate failure of aquatic invertebrates and algae in water body by assessing sources of organic pollution from agriculture and sewage discharges from large catchment area.		DOE NIEA	Mar 2013

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602017		Bessbrook River	2009 Status: PEP	
	Action to be taken		Action to be taken by	Target Date
1	Investigate failure of aquatic invertebrates in this heavily modified water body by conducting targeted catchment surveys to establish reasons for failure.		DOE NIEA	Mar 2013
2	Assess sources of organic pollution within water body catchment from agricultural sources and on-site wastewater treatment systems.		DOE NIEA	Mar 2013
3	Assess forestry operations in Camlough Woods. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
4	Investigate feasibility and practicality of implementing morphological mitigation measures as recommended by the UK Technical Advisory Group on the Water Framework Directive, to support good ecological potential. This includes the development of a sediment management plan and a regime of controlled flow releases from Camlough lake.		DOE NIEA, NIWL, Newry & Mourne DC	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI3NB0021		Cam Lough	2009 Status: MEP	
	Action to be taken	Action to be taken by	Target Date	
1	Assess sources of organic pollution from agriculture and on-site wastewater treatment systems within lake catchment as water body fails to achieve good status for phosphorus and planktons.	DOE NIEA	Mar 2013	
2	Assess forestry operations in Camlough Woods. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.	DOE NIEA, DARD Forest Service	Mar 2013	
3	Carry out monitoring and assessment including chemical analysis, biological survey and lake level recording.	DOE NIEA	Dec 2015	
4	Investigate feasibility and practicality of implementing morphological mitigation measures as recommended by UK Technical Advisory Group on the Water Framework Directive to support good ecological potential. This includes the development of a sediment management plan and a regime of controlled flow releases from the impounded lake.	DOE NIEA, NIWL, Newry & Mourne DC	Dec 2015	

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB06060409		Bessbrook River	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Investigate failure of aquatic invertebrates by assessing sources of organic pollution and the impacts of the upstream heavily modified water body and lake.	DOE NIEA	Mar 2013	
2	Carry out compliance assessment of consented industrial discharges within catchment.	DOE NIEA	Dec 2012	
3	Carry out a river walk along the Bessbrook River through Camlough to identify potential sources of oil and diesel as recurrent reports of pollution in the river.	DOE NIEA	Sep 2012	
4	Carry out industrial advisory site visit on premises storing oil and diesel in Camlough.	DOE NIEA	Mar 2013	
5	Upgrading of WWTW at Maytown Road, Mullaghglass and Armagh Road (nos. 202-206).	NIWL	Completed	
6	Support local environmental initiatives in liaison with Newry & Mourne District Council. Including a project to develop a river walkway along Bessbrook River under the EC Action For Biodiversity Program.	DOE NIEA, Newry & Mourne DC	Mar 2013	

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI5NB030010		Newry Estuary	2009 Status: MEP or Worse	
	Action to be taken		Action to be taken by	Target Date
1	Carry out compliance assessment of discharges from Newry and Warrenpoint WWTWs.		DOE NIEA	Dec 2012
2	Carry out compliance assessment on consented industrial discharges within the catchment discharging to coastal streams.		DOE NIEA	Dec 2012
3	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Loughs Agency, Louth CC	Mar 2013
4	Carry out monitoring and assessment to confirm evidence of trophic status.		DOE NIEA	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI6NB030		Carlingford Lough	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Develop a profile of the designated bathing water at Cranfield Bay.		DOE NIEA	Completed
2	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Loughs Agency, Louth CC	Mar 2013
3	Carry out monitoring and assessment to confirm evidence of trophic status.		DOE NIEA	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI6NB020		Mourne Coast	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Develop a profile of the designated bathing water at Cranfield Bay and at Nicholson's Strand.		DOE NIEA	Completed
2	Carry out compliance assessment of discharge from Annalong WWTW.		DOE NIEA	Dec 2012
3	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Loughs Agency, Louth CC	Mar 2013
4	Carry out monitoring and assessment to confirm evidence of trophic status.		DOE NIEA	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604042		Moygannon River	2009 Status: Good	
	Action to be taken		Action to be taken by	Target Date
1	Maintain current regulatory controls as water body status is Good or better.		DOE NIEA	Dec 2015
2	Carry out a visual inspection of WWTW at Ballyrussell to assess for performance and downstream impacts.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604040		The Ghann River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Assess forestry operations in Ballymoney Wood (Rostrevor). Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
2	Carry out compliance assessment of private consented sewage discharges within catchment.		DOE NIEA	Dec 2012
3	Carry out monitoring and assessment to establish sources of copper within catchment area and the potential impacts on fish populations.		DOE NIEA	Mar 2013

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604041		Kilbroney River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out a river walk on stretch from Newtown Bridge, Rostrevor to upstream of disused mill race at Kilbroney to investigate barriers to fish and potential pollution sources.		DOE NIEA	Sep 2012
2	Assess forestry operations within Rostrevor Forest that covers extensive areas of the river catchment. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
3	Carry out compliance assessment of consented discharges around Kilbroney townland in relation to recurrent low severity pollution incidents.		DOE NIEA	Dec 2012
4	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in areas close to river channel at Kilbroney and Newtown.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604011		Cassy Water	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Carry out a river walk on stretch from Cassy Water Bridge to Kilfeaghan to investigate potential sources of organic pollution.		DOE NIEA	Sep 2012
2	Assess sources of organic pollution from agriculture and septic tanks within the catchment as water body fails to achieve good status for aquatic plants.		DOE NIEA	Mar 2013
3	Assess forestry operations in Rostrevor Forest. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
4	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in area at Aghyoghill immediately upstream of Cassy Water Bridge monitoring point.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604045		White Water	2009 Status: Good	
	Action to be taken	Action to be taken by	Target Date	
1	Maintain current regulatory controls as water body status is Good or better.	DOE NIEA	Dec 2015	
2	Investigate sources of sediment from drainage of upland heath in areas upstream of Attical and around the Mourne Wood due to stakeholder concerns about excess sediment loads.	DOE NIEA, Angling clubs	Mar 2013	
3	Assess forestry operations in Crocknafeola and Mourne Woods and the potential for sediment releases to river.	DOE NIEA, DARD Forest Service	Mar 2013	
4	Upgrading of WWTW at Attical.	NIWL	Dec 2013	
A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB060602039		Flurry River	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Assess sources of organic pollution from agriculture and sewage discharges in area upstream of Short Bridge, Meigh as water body fails to achieve good status for dissolved oxygen and invertebrates.	DOE NIEA	Mar 2013	
2	Carry out compliance assessment on discharge from Meigh WWTW.	DOE NIEA	Dec 2012	
3	Assess forestry operations in Slieve Gullion Forest Park, Camlough Forest and Fathom Woods. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.	DOE NIEA, DARD Forest Service	Mar 2013	
4	Investigate failure of aquatic invertebrates by assessing sources of organic pollution from agriculture and sewage discharges in area upstream of Short Bridge, Meigh.	DOE NIEA	Mar 2013	
5	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.	DOE NIEA, Louth CC, EPA	Dec 2015	
6	Carry out a visual inspection of WWTW at Killeen.	DOE NIEA	Dec 2012	
7	Carry out monitoring and assessment to establish the extent of dissolved oxygen suppression in water body.	DOE NIEA	Dec 2012	
A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB060602038 Kilnasaggart River (aka Ballymascallan)		2009 Status: Bad	
	Action to be taken	Action to be taken by	Target Date
1	Assess forestry operations in Slieve Gullion Forest Park. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.	DOE NIEA, DARD Forest Service	Mar 2013
2	Assess sources of organic pollution from agriculture and sewage discharges in liaison with Louth County Council as water body fails to achieve good status for dissolved oxygen.	DOE NIEA	Mar 2013
3	Carry out compliance assessment on consented private sewage discharges in the catchment.	DOE NIEA	Dec 2012
4	Assess sources of oil contamination in area upstream of Jonesborough Bridge as this was identified as a suspected contributory factor to bad quality by ROI (Castletown Water Management Unit Action Plan).	DOE NIEA	Dec 2012
5	Carry out a river walk from Jonesborough Bridge to railway embankment upstream of Kilnasaggart Bridge to assess for water quality impacts.	DOE NIEA	Sep 2012
6	Carry out monitoring and assessment to establish the extent of dissolved oxygen suppression within water body.	DOE NIEA	Dec 2012
7	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.	DOE NIEA, EPA, Louth CC	Mar 2013
8	Upgrading of WWTW at Mountain View (Drumintee).	NIWL	Completed

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604053		Raskeagh River (ROI)	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Investigate failure of aquatic invertebrates in the upper stretches of the water body by assessing sources of organic pollution in liaison with Louth County Council.		DOE NIEA	Mar 2013
2	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in area close to river channel downstream of Cofracloghy Wood.		DOE NIEA	Dec 2012
3	Investigate sources of sediment within the upper catchment contributing to siltation at biological survey sites as noted by ROI (Castletown Water Management Unit Action Plan).		DOE NIEA	Mar 2013
4	Assess forestry operations in Cofracloghy Wood. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
5	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Louth CC	Dec 2015
A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB060602002		Forkhill River tributary	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Assess sources of organic pollution in water body catchment from agriculture and sewage discharges.		DOE NIEA	Mar 2013
2	Assess forestry operations in Slieve Gullion forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
3	Carry out monitoring and assessment to establish extent of dissolved oxygen suppression within water body.		DOE NIEA	Dec 2012
A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB060602035		Forkhill River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to establish extent of dissolved oxygen suppression within water body.		DOE NIEA	Dec 2012
2	Carry out compliance assessment on discharge from Mullaghbane WWTW.		DOE NIEA	Dec 2012
3	Assess sources of organic pollution in catchment from agriculture and sewage discharges as water body fails to achieve good status for dissolved oxygen.		DOE NIEA	Mar 2013

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602037		Forkill River Lower (aka Kilcurry)	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to establish extent of dissolved oxygen suppression.		DOE NIEA	Dec 2012
2	Carry out compliance assessment on discharge from Forkhill WWTW.		DOE NIEA	Dec 2012
3	Assess forestry operations in Slieve Gullion forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
4	Assess sources of organic pollution from agriculture and sewage discharges in liaison with Louth County Council as water body fails to achieve good status for dissolved oxygen.		DOE NIEA	Dec 2012
5	Assess sources of oil contamination in river stretch downstream of Forkhill village due to recurrent pollution reports.		DOE NIEA	Dec 2012
6	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Louth CC	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602001		Dorsy River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Assess sources of organic pollution in water body from agriculture and sewage discharges.		DOE NIEA	Mar 2013
2	Carry out monitoring and assessment to investigate the extent of dissolved oxygen suppression in water body.		DOE NIEA	Dec 2012
3	Upgrading of WWTW at Carrickovaddy.		NIWL	Completed

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602036		Ummeracam River	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to establish extent of dissolved oxygen suppression within water body.		DOE NIEA	Dec 2012
2	Assess sources of organic pollution in catchment from agriculture and sewage discharges as water body fails to achieve good status for dissolved oxygen.		DOE NIEA	Mar 2013
3	Carry out compliance assessment of consented private sewage discharges in water body catchment.		DOE NIEA	Dec 2012
4	Assess forestry operations in Cold Brae forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
5	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in area close to the river channel at Ummerinvore.		DOE NIEA	Dec 2012

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602034		Cully Water Lower	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to establish extent of dissolved oxygen suppression within water body.		DOE NIEA	Dec 2012
2	Carry out a visual inspection of WWTW at Silverbridge and Glassdrumman (Cross) to assess for performance and downstream impacts.		DOE NIEA	Completed
3	Assess forestry operations in Slieve Gullion forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
4	Assess sources of organic pollution from agriculture and sewage discharges in liaison with Louth County Council.		DOE NIEA, Louth CC	Mar 2013
5	Upgrading of WWTW at Silverbridge.		NIWL	Completed
6	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Louth CC	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060602029		Creggan River	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Carry out a river walk on a tributary at Tullyvally to investigate the cause of invertebrate suppression as observed by biological survey in summer 2011.	DOE NIEA	Sep 2012	
2	Carry out a river walk on a tributary at Tullygeasy to investigate the cause of invertebrate suppression as observed by biological survey in summer 2011.	DOE NIEA	Sep 2012	
3	Conduct biological investigations to assess aquatic invertebrates at 4 sites on the main river channel between Newtownhamilton and Creggan to determine the extent of ecological impact of upstream agricultural activity and suspected pollution pressures.	DOE NIEA	Completed	
4	Investigate failure of aquatic invertebrates in cross-border water body in liaison with Louth County Council by assessing sources of organic pollution from agriculture and sewage discharges.	DOE NIEA	Mar 2013	
5	Carry out a river walk on a tributary at Ballintemple, upstream of the bridge on Newry Road, Newtownhamilton to investigate potential impacts from industrial sites.	DOE NIEA	Sep 2012	
6	Assess forestry operations in The Fews forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.	DOE NIEA, DARD Forest Service	Mar 2013	
7	Carry out a river walk upstream of Creggan to investigate potential sources of recurrent slurry pollution.	DOE NIEA	Sep 2012	
8	Carry out compliance assessment of discharges from Newtownhamilton and Cullyhanna WWTW.	DOE NIEA	Dec 2012	
9	Conduct biological investigations to assess aquatic invertebrates at Tullygeasy and Harrymount to determine the ecological condition of significant tributaries.	DOE NIEA	Completed	
10	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.	DOE NIEA, EPA, Louth CC	Dec 2015	

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060603027		County Water	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Investigate failure of aquatic invertebrates by assessing sources of organic pollution from agriculture and sewage discharges, in liaison with Monaghan County Council.		DOE NIEA	Mar 2013
2	Assess forestry operations in The Fews forestry management units. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, Forest Service	Mar 2013
3	Assess significance of sheep dip usage and review groundwater authorisations where appropriate in an area close to the river channel at Cortamlat.		DOE NIEA	Dec 2012
4	Carry out a river walk on a tributary at Altnamackan to survey for potential pollution sources contributing to suppressed aquatic invertebrates.		DOE NIEA	Sep 2012
5	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Monaghan CC	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604051		Lough Alina Outflow	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to qualify chemical and biological status for this cross-border water body, in liaison with Monaghan County Council.		DOE NIEA	Mar 2013
2	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Monaghan CC	Dec 2015

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060603028		Fane River Upper	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Assess sources of organic pollution within the small portion of catchment around Clarbane not within the Republic of Ireland.		DOE NIEA, Monaghan CC	Mar 2013

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604052		Fane River Lower	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Assess sources of organic pollution from agriculture and sewage discharges within the small proportion of catchment within NI.	DOE NIEA	Mar 2013	
2	Carry out compliance assessment on sewage discharge from Cullaville WWTW and discharges from Carran Hill water treatment works.	DOE NIEA	Dec 2012	
3	Carry out compliance assessment on consented industrial discharges within NI portion of catchment.	DOE NIEA	Dec 2012	
4	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.	DOE NIEA, EPA, Monaghan CC, Louth CC	Mar 2013	

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI3NB0020		Lough Ross Monaghan	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Carry out monitoring and assessment including lake level monitoring.	DOE NIEA	Dec 2015	
2	Assess sources of organic pollution from agriculture and sewage discharges within the lake catchment in liaison with Monaghan County Council as lake is eutrophic.	DOE NIEA	Aug 2012	
3	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.	DOE NIEA	Mar 2013	

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060604050		River Blackwater	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date
1	Carry out monitoring and assessment to qualify chemical and biological status for this cross-border water body, in liaison with Monaghan County Council.		DOE NIEA, Monaghan CC	Mar 2013
2	Assess forestry operations in Carnagh forestry management unit. Engage with forestry technical staff to ensure appropriate mitigation measures are included in felling plans to reduce impacts on water quality.		DOE NIEA, DARD Forest Service	Mar 2013
3	Liaise with ROI organisations to develop specific actions to deliver objectives for this cross-border water body.		DOE NIEA, EPA, Monaghan CC	Mar 2013

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

UKGBNI1NB060603031		Gentle Owen's Lake Stream (ROI)	2009 Status: Good	
	Action to be taken		Action to be taken by	Target Date
1	Maintain current regulatory controls as water body status is Good or better.		DOE NIEA	Completed

[A number of catchment wide actions also apply to this water body. These can be found on Page 10.](#)

What other measures are being implemented to maintain and improve the water environment in the Carlingford and Newry LMA?

The Programme of Measures described in the Neagh Bann River Basin Management Plan (RBMP) have been categorised into two types of measures: existing and planned, and supplementary. Existing and planned measures aim to ensure that existing water uses are appropriately managed and that the water environment remains at good status.

Existing and planned measures include those which have been put in place to meet legal requirements. Those which apply in this LMA include:

- The Drinking Water Directive (80/778/EEC) as amended by Directive (98/83/EC);
- The Sewage Sludge Directive (86/278/EEC);
- The Urban Waste-water Treatment Directive (91/271/EEC);
- The Environmental Impact Assessment Directive (85/337/EEC);
- The Plant Protection Products Directive (91/414/EEC);
- The Nitrates Directive (91/676/EEC);
- The Habitats Directive (92/43/EEC); and
- The Integrated Pollution Prevention Control Directive (96/61/EC).
- The current Bathing Water Directive (76/106/EEC) and revised Bathing Water Directive (2006/7/EEC);
- The Birds Directive (79/409/EEC);
- The Major Accidents Directive (96/82/EC); and
- The Urban Waste Water Treatment Directive (91/271/EEC).

A number of other existing and planned measures apply in this LMA:

- Cost recovery for water use and promotion of efficient and sustainable water use;
- Protection of drinking water sources;
- Abstraction and Impoundment Control;
- Point source and diffuse source discharge control;
- Controls on physical modifications to surface waters;
- Prevention or reduction of the impact of accidental pollution incidents;
- Authorisation of discharges to groundwater;
- Priority substances control; and
- Controls on other activities impacting on water status.

Further information on existing and planned measures for each sector is available on the programme of measures section of the NIEA website.

Supplementary Measures are a number of NI wide measures which were agreed by all relevant Departments and Agencies in Northern Ireland including DCAL, DARD, DOE, DRD, NIEA, Loughs Agency and NI Water and published as part of the RBMPs.

Supplementary measures have been identified for the following sectors:

- Abstraction and flow regulation;
- Diffuse and point source (Agriculture, Collection & treatment of sewage, Urban Development, Forestry, Industry and other business, Waste);
- Freshwater Morphology and Marine Morphology;
- Invasive Alien Species and
- Other.

Progress on the implementation of these supplementary measures listed in the RBMPs will be reported to the European Commission in December 2012. This LMA action plan forms one of the supplementary measures for the Neagh Bann RBD and includes a number of others where relevant.

What measures are agreed for water dependent Natura 2000 sites in unfavourable condition?

Special Areas of Conservation (Habitats Directive) and Special Protection Areas (Birds Directive) are assessed as being in favourable or unfavourable condition. These areas have been examined to determine if water dependent features are present.

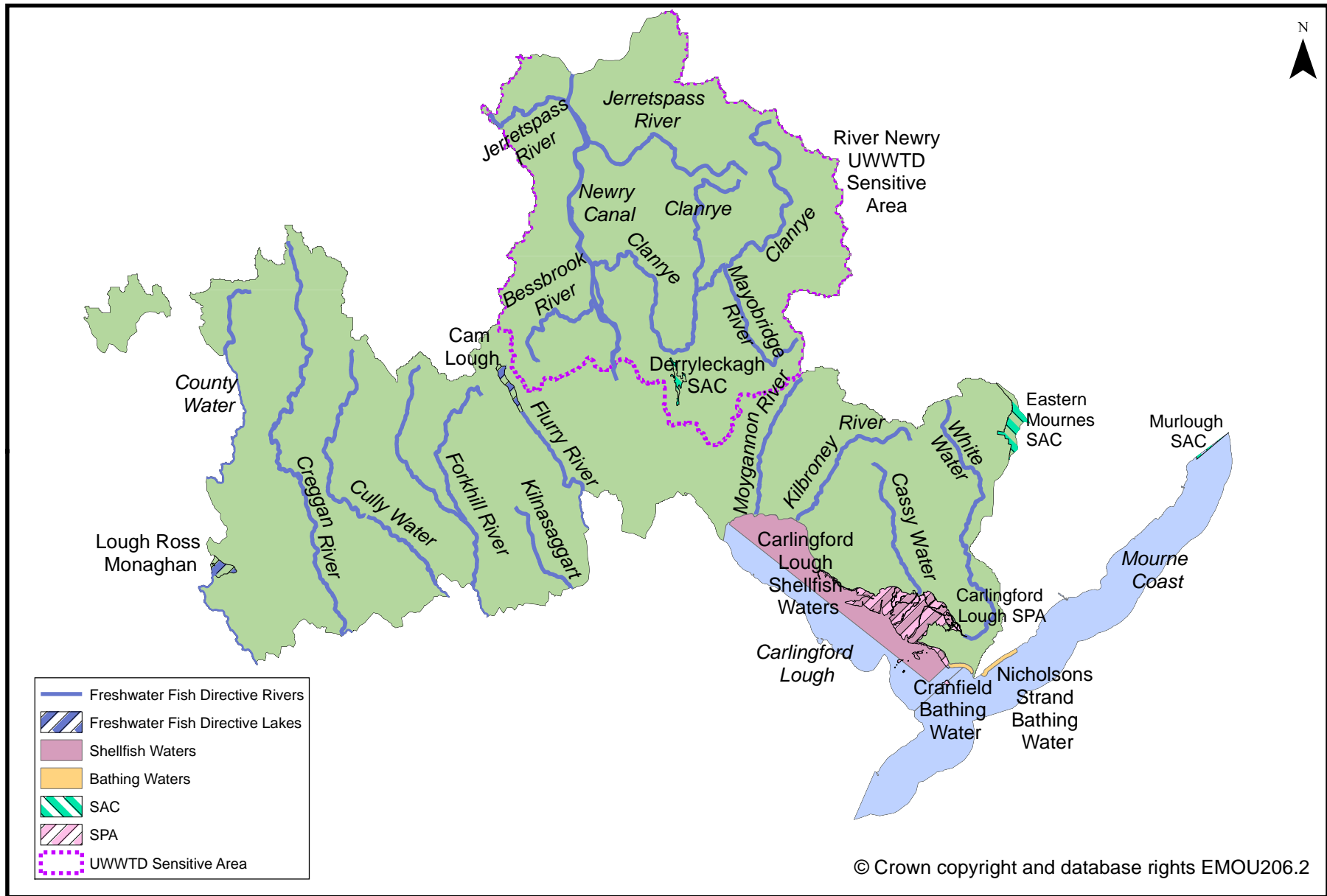
There are no specific measures for Derryleckagh, Rostrevor Wood and Eastern Mourne Special Areas of Conservation as there are no water related adverse activities causing the unfavourable condition assessment of the water dependent features. Features in Slieve Gullion Special Area of Conservation are in unfavourable condition, but they are recovering with current measures.

The Carlingford Lough water dependent Special Protection Area is in favourable condition.

Further details on Special Areas of Conservation and Special Protection Areas in the Carlingford and Newry LMA are available in the protected areas section of the NIEA website.

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Map 3: Protected Areas in Carlingford and Newry LMA



Protected areas in Carlingford and Newry LMA

The Carlingford and Newry LMA supports important habitats and wildlife. These areas have been designated under European Directives and require special protection. The protected areas are summarised in Table 2 and illustrated in Map 3.

Table 2: Protected areas in Carlingford and Newry LMA

Protected Area Type	Location
Waters used for the abstraction of drinking water (drinking water protected areas)	There are 5 drinking water protected areas.
<p>Areas designed to protect economically significant aquatic species</p> <p>Freshwater Fish Directive (78/659/EEC)</p> <p>Shellfish Water Directive (79/923/EC)</p>	<p>There are 244 km of rivers (designated salmonid), 18 km of canal (designated cyprinid) and 1.5 km² of lakes (designated salmonid) identified under the Freshwater Fish Directive.</p> <p>There is 1 designated shellfish water; Carlingford Lough.</p>
<p>Bathing Waters</p> <p>These are bathing water identified under the Bathing Water Directive (76/160/EEC)</p>	There are 2 identified bathing waters; Cranfield and Cranfield (Nicholson's Strand).
<p>Nutrient Sensitive Areas</p> <p>Areas designated as sensitive under the;</p> <p>Urban Waste Water Treatment Directive (91/271/EEC)</p> <p>Nitrates Directive (91/676/EEC)</p>	<p>There is 1 Urban Waste Water Treatment Directive sensitive areas; River Newry.</p> <p>A total territory approach has been adopted in Northern Ireland for the Nitrates Directive.</p>
<p>Areas designated for the protection of habitats or species (Natura 2000 sites)</p> <p>These are areas designated for the protection of habitats or species where the maintenance or improvement of the status of water is an important factor in their protection.</p> <p>Habitats Directive (92/43/EEC)</p> <p>Birds Directive (79/409/EEC)</p>	<p>There are 4 Special Areas of Conservation; Slieve Gullion, Rostrevor Wood, Derryleckagh and Eastern Mourne.</p> <p>There is 1 water dependent Special Protection Area; Carlingford Lough.</p>

Abbreviations

Term	Explanation
AFBI	Agri-Food and Biosciences Institute
DARD	Department of Agriculture and Rural Development
DCAL	Department of Culture, Arts and Leisure
DOE	Department of the Environment
DRD	Department of Regional Development
EP	Ecological Potential – the status of a heavily modified water body measured against the maximum ecological quality it could achieve given the constraints imposed upon it by those heavily modified characteristics necessary for its use. There are four classes for the status of heavily modified water bodies: good ecological potential or better (GEP), moderate ecological potential (MEP), poor ecological potential (PEP) and bad ecological potential (BEP).
GSNI	Geological Survey of Northern Ireland
LMA	Local Management Area
NIEA	Northern Ireland Environment Agency
NIWL	Northern Ireland Water Limited
WWTW	Waste Water Treatment Works

Working together to implement the Local Management Action Plan.

If you would like to get involved, find out more about the plans, or are carrying out work that will assist in protecting the water environment let us know at the Upper Neagh Bann Catchment Stakeholder Group meetings or by contacting the Catchment Management Officer, Wendy Craig.

Email: wendy.craig@doeni.gov.uk

Telephone: 028 9262 3168

Further details are available at www.doeni.gov.uk/niea/neagh-workingtogether

Water Pollution Hotline:

***Freephone 0800 80 70 60**

This line is manned 24 hours a day, 7 days a week.

*Mobile calls are charged at standard network rates.

If you become aware of a water pollution incident please call the Water Pollution Hotline in confidence giving the location and nature of the pollution.



Our aim is to protect, conserve and promote the natural environment and built heritage for the benefit of present and future generations.

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