Significant Water Management Issues

# River Blackwater Local Management Area Action Plan and Update

December 2013







- These LMA action plans are working documents which will evolve as new projects are committed to over time during the River Basin Planning cycle
- This summary provides an update on operational actions in the LMA. Many actions are based on implementation meetings with Upper Bann Catchment Stakeholder Group members in 2012/2013
- If you, as an individual or organisation, can input additional information on actions or projects in the Upper Bann Action Plan please contact your Catchment Management Officer.

	LMA Action	Action taken by	Details of Action
1	Promote public participation in the development and implementation of the Blackwater LMA by developing new and maintaining existing stakeholder relationships.	DOE NIEA	Stakeholder engagement with Blackwater Regional Partnership, Clogher and District Angling Association, Torrent River Enhancement Association and the newly formed Blackwater Trust.
2	Promote public participation by organising two Upper Neagh Bann Catchment Stakeholder Group meetings per year to provide an open forum for discussion on water management issues.	DOE NIEA	Two meetings are arranged every year. Detail of the meetings are located at <a href="http://www.doeni.gov.uk/niea/water-home/wfd/public_partic_3/catchment_stakeholder_groups/upper_neagh_bann.htm">http://www.doeni.gov.uk/niea/water-home/wfd/public_partic_3/catchment_stakeholder_groups/upper_neagh_bann.htm</a>
3	Support local environmental initiatives by working with and supporting organisations such as the Blackwater Regional Partnership in raising awareness of water management issues.	DOE NIEA	Stakeholder engagement with Blackwater Regional Partnership, Clogher and District Angling Association, Torrent River Enhancement Association and the newly formed Blackwater Trust.
4	Support local environmental initiatives which improve water management and riparian habitats through the provision of advice, support and signposting.	DOE NIEA	Publicised NIEL Challenge fund to stakeholders. Worked with stakeholders to help deliver three projects on the Blackwater catchment with NIEA funding.
5	Support pollution prevention campaigns such as 'Reduce Reuse Recycle',n 'Bag It & Bin It', 'Stop and Think (Not Down the Sink)' within the Blackwater LMA.	DOE NIEA	<ul> <li>NIEA support relevant water quality enhancing campaigns by distributing promotional material at events within Upper Neagh Bann catchment including Pesticide information at the Clogher Show.</li> <li>NIEA staff attended Balmoral Show and demonstrated the use of the River Basin Planning Webmapper 2011, 2012 &amp; 2013.</li> <li>'Householder Awareness - Improving water quality in your local area' leaflet has been developed jointly with Loughs Agency and NIW. Leaflet aims to raise awareness amongst householders on household issues e.g. septic tank maintenance &amp; pesticide use. Leaflets distributed at events attended within the LMA and to local groups.</li> </ul>
			NIEA WMU staff provided and supported a stand at the Greenmount

	LMA Action	Action taken by	Details of Action
			Centenary event 16 <sup>th</sup> & 17 <sup>th</sup> June 2012 – demonstrated the recording of water invertebrates and the link to water quality & classification.  NIEA provided the Horticulture 2012 event at Greenmount on 19 <sup>th</sup> September 2012, where our main focus was pesticide awareness and water quality issues.
6	Promote public participation by raising awareness of catchment management issues by release of relevant press articles and web publication of the Blackwater e-zine.	DOE NIEA	CSG meeting on 16 <sup>th</sup> May and 5 <sup>th</sup> November 2013, details are available <a href="here">here</a> . Bi laterals held with Clogher and District Angling Club, Blackwater Regional Partnership, Blackwater Catchment Trust.  • NIEA staff support a number of local groups, providing advice and guidance as required and attend events to raise awareness of the water environment:  Stands provided at  • Balmoral Show 2011, 2012, 2013  • Greenmount Centenary Show 16- 17 June 2013  • Horticulture 2012 at Greenmount 9 September 2012 (focusing on pesticide awareness and water quality issues)
7	Highlight external funding opportunities for water management projects to local partners to encourage improvement in local water quality and riparian habitat such as the NIEA Water Community Environment Awards.	DOE NIEA	Publicised NIEL Challenge fund to stakeholders. Worked with stakeholders to encourage participation in the Water Quality Improvement Grant – this resulted in two projects within the Blackwater Catchment.
8	Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage in selected locations in agreement with local stakeholder groups and other relevant agencies.	DOE NIEA	The pollution hotline number is promoted frequently by NIEA events, publications and relevant websites.
9	Promote public participation by raising awareness of The Rivers Trust.	DOE NIEA	Blackwater Catchment Trust established.
10	Create an inventory of physical structures within the river channel and bank structures via completion of NIEA river walks and support from local stakeholder groups.	DOE NIEA	Physical structures notes as part of the rivers walk process. NIEA staff have been trained in the use a fish passability tool and are beginning to carry out assessments. If you are aware of any barriers in the Blackwater, and would like to have this assessed using the UK Fish Passability Tool please contact your Catchment Officer.
11	Carry out fish monitoring and assessment of salmonid stock on the River Blackwater as a DCAL index river.	AFBI, DCAL	Ongoing – digest of fishery data compiled by DCAL and available here.
12	Carry out pre and post fish habitat improvement works survey such as baseline electrofishing surveys on local salmonid population, as resources permit.	DOE NIEA, AFBI	Ongoing. Habitat improvement work at Ballygawley, as part of the Ballygawley Flood Alleviation Scheme. Habitat improvement work on the Fardross river.
13	Review Rivers Agency's annual watercourse	DOE NIEA	Meetings with RA and DCAL to consider RA works programme.

	LMA Action	Action taken by	Details of Action
	maintenance program to assess for potential ecological impacts within the Blackwater LMA.		
14	Conduct a water resource assessment to inform an ongoing review of abstraction licences within Northern Ireland where necessary.	DOE NIEA	Complete – 4 water bodies are over abstracted, 7 have no surplus water, and 38 have water available.
15	Review of groundwater abstraction and planning applications where necessary.	DOE NIEA, Geological Survey NI	On-going. The groundwater team is a regular consultee on groundwater abstractions and planning applications for all of Northern Ireland.
16	Ensure that licences for new and existing hydro power developments are compliant with the Water Framework Directive and Habitats Regulations to support good ecological status and carry out risk based compliance visits.	DOE NIEA	The Water Abstraction and Impoundment (Licensing) Regulations (Northern Ireland) 2006 came into operation on 1 February 2007. The purpose of the Regulations is to control the abstraction and impoundment of water by means of a licensing regime.  All licences are assessed through a combination of factors which will determine whether a scheme is environmentally acceptable; however, each scheme is assessed on a site specific basis. The guidance document is linked below: <a href="http://www.doeni.gov.uk/niea/guidance_for_run-of-river_hydropower_schemes_in_northern_ireland_pdf460kbpdf">http://www.doeni.gov.uk/niea/guidance_for_run-of-river_hydropower_schemes_in_northern_ireland_pdf460kbpdf</a>
17	Develop targeted ecological modelling tools for lake management which may be applied to lakes within the Blackwater LMA.	DOE NIEA, AFBI	Dolmant project (Development of Lake Management Tools) being delivered by AFBI.
18	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species with local groups and via press NIEA articles and publications.	DOE NIEA	Invasive species recorded during river walks. Blackwater Catchment Trust is delivering a Water Quality Improvement Grant funded project mapping and controlling invasive species on a number of water bodies. This project has attracted an additional €10000 funding from Rol.
19	Promote the control of invasive alien species on farmland.	DARD Countryside Management Branch	Control is promoted through the DARD Northern Ireland Countryside Management Scheme (NICMS). Funding is available to progress around 1000 applications for admission to the scheme in January 2012, with a further 1300 joining in January 2013.
20	Complete the phosphorus nutrient budget work for Northern Ireland to establish nutrient inputs from different sectors.	DOE NIEA AFBI	Nutrient budgets are being analysed alongside SIMCAT (SIMulation of the water quality of CATchments) models developed to represent the behaviour of flow and pollutants in rivers. This will inform actions to address diffuse and point source nutrient inputs to the water environment.
21	Review the relevance of nutrient budget in the context of this LMA to establish relative nutrient inputs from agriculture, industry and sewage discharges.		Ongoing; work completed by afbi, and further analysis with SIMCAT
22	Raise awareness and promote the benefits of effective farm nutrient and waste management.	DARD Countryside Management Branch	All applicants to DARD agri-environment schemes receive a farm waste management advisory visit as part of their application to the scheme. DARD have produced a Code of Good Agricultural Practice which contains practical management advice on how farm wastes such as silage effluent, slurry and manure can be collected, stored and spread with minimum risk to the

	LMA Action	Action taken	Details of Action
	by		
			environment. DARD have developed an agri-environment training course for
			farmers dealing with farm wastes and nutrient management planning
23	DARD Countryside Management and NIEA to	DARD	Web page and booklet developed for the Nitrates Action Programme
	develop leaflets and articles to promote effective farm	Countryside	http://www.doeni.gov.uk/niea/water-
	nutrient and waste management for distribution within	Management	home/agri_regs/nitrates_and_phosphorus_regulations_2010-2014.htm
	the Blackwater LMA.	Branch	
24	Encourage riparian zone management with an aim to	DARD	A measure within the Nitrates Action Programme is that all farms must carry out
	improve biodiversity and minimise sedimentation	Countryside	crop and soil management to minimise soil erosion and nutrient runoff. This is
	through practical management measures on farms.	Management	verified during cross-compliance visits.
		Branch	
25	Promote best practice in the use of pesticides on	DARD	Promotion of best practice in the use of pesticides at the Clogher Valley Show.
	farms.	Countryside	Developed leaflet on best practice in the use of pesticides. A webpage to raise
		Management	public awareness and provide guidance has been produced:
		Branch	http://www.doeni.gov.uk/niea/water-
		DOE NIEA	home/wfd/public_partic_3/pesticide_awareness.htm

Abbreviations (Term_Explanation)
AFBI - Agri-Food and Biosciences Institute
ASSI - Areas of Special Scientific Interest
CCG - Connswater Community Greenway
CAFRE – College of Agriculture, Food & Rural Enterprise
DARD - Department of Agriculture and Rural Development
DOE - Department of the Environment
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 4 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
MSFD - Marine Strategy Framework Directive
NICMS - Northern Ireland Countryside Management Scheme
NIEA - Northern Ireland Environment Agency
PE – Population Equivalent
RHAT – River Hydro morphology Assessment Technique
SAC - Special Areas of Conservation
SPA - Special Protection Areas
WWTW - Waste Water Treatment Works

# River Walks Autumn 2013

LMA	Water Body Name	Water Body Code	Distance (km)	Start Point	End Point	Status
Blackwater	Blackwater Tributary	UKGBNI1NB030307180	3.5	Roughan Bridge X258574 Y354988	Ballynasaggart Bridge X259846 Y357009	
Blackwater	Ballygawley water	UKGBNI1NB030307175	5	Lismore Bridge X262995 Y353819	A5 X262560 Y357364	Complete
Blackwater	Oona water	UKGBNI1NB030307035	1	Clonty Bridge X271929 Y358980	Cullenramer Road X272355 Y359595	
Blackwater	Oona water	UKGBNI1NB030307039	5.8	Oona Bridge X278184 Y353116	Terryglassog Road X278046 Y356223	Complete
Blackwater	Cor river trib	UKGBNI1NB030307096	4.5	Monaghan road, Middletown X274941 Y338.741	Hanslough Road X277279 Y336641	Complete
Blackwater	Curlagh Trib Blackwater	UKGBNI1NB030307042		Dunmacmay Road X271030 Y348188	Curlagh Road X271815 Y348824	Complete
Blackwater	Torrent River	UKGBNI1NB030307145	2	The Moor Bridge X285854 Y364916	Creenagh Bridge X284161 Y365875	
Blackwater	Torrent River	UKGBNI1NB030307173	3.5	Donaghmore X277217 Y365272	Castlecaulfield X275574 Y362696	Complete

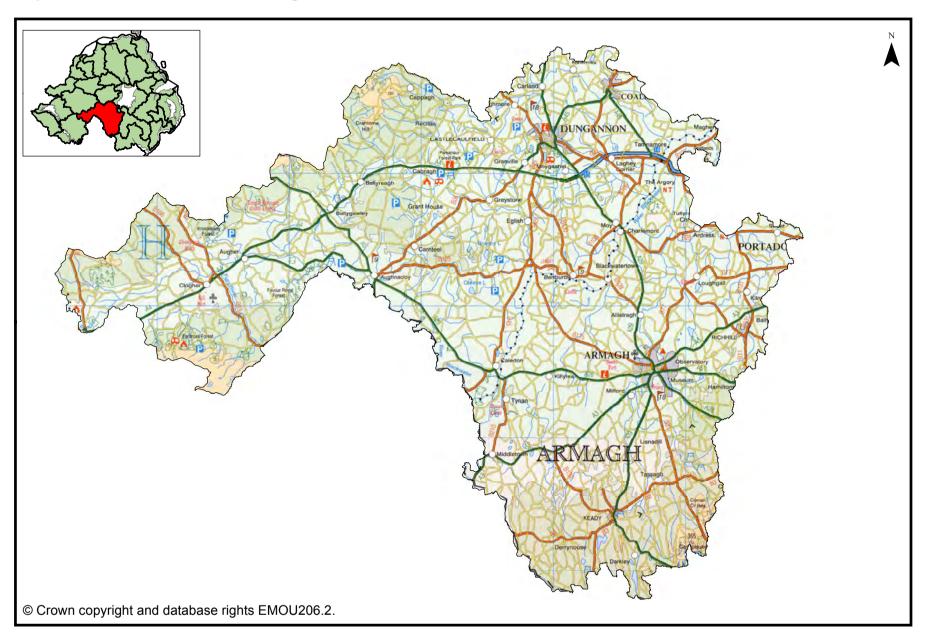
Northern Ireland Environment Agency

# **Action Plan 2009 - 2015 March 2012**

# **RIVER BLACKWATER**Local Management Area



Map 1: River Blackwater 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 River Blackwater 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.

### **River Blackwater Local Management Area**

The River Blackwater LMA (Map 1) is part of the Neagh Bann River Basin District, drains into Lough Neagh at Maghery and covers an area of 1103 km². The main river is the River Blackwater which rises in the west of the catchment near the towns of Clogher and Fivemiletown and flows westward to Lough Neagh. There are several significant tributaries of the River Blackwater, the Oona Water, Callan, Tall, Torrent and Tynan Rivers. The rivers support a wide diversity of natural habitats, several of which are protected. The western part of the catchment borders County Monaghan, which straddles Slieve Beagh. This is both an Area of Special Scientific Interest and a Special Protection Area. The river also supports a wide range of recreational activities including angling, walking and canoeing. The main towns in the River Blackwater LMA are Armagh and Dungannon with significant smaller towns of Augher, Clogher, Aughnacloy and Richhill. The main land use in the area is improved grassland, arable horticulture and acid grass.

The River Blackwater 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 River Blackwater LMA?

88% of surface water bodies in the River Blackwater LMA (Map 2) have been classified as less than good status. Many of the rivers failed to achieve good status due to low levels of dissolved oxygen and elevated levels of phosphorous. Invertebrates have also been heavily impacted.

Five water bodies in the area were identified as being impacted by abstraction and flow regulation. Seaghan Reservoir is used for abstraction. Clay River has an impoundment. Killeen Water has been channelled for flood management. The Torrent River at Altmore has impoundments and the Torrent River at Coalisland Canal has been extensively straightened with bank reinforcements. A number of the biological and chemical water quality elements used in classification can be affected by both diffuse and point source pollution.

In the River Blackwater LMA the main impact was observed in invertebrate suppression. The rivers affected were: Rhone, Callan, Oona, Blackwater, Curlagh, Ballymortrim, Butter, Clay, Drumard, Cor, Tall, Killeen, Ballymacone, Torrent, Ballygawley and Knockmany Burn. Twelve river water bodies were identified as being affected by changes to morphology (physical habitat). The main rivers affected were: Callan, Oona, Ballymortrim, Blackwater, Cor, Tall, Ballymacone, Ballygawley and Fury.

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 9 groundwater bodies which are wholly or partly within the River Blackwater LMA. They are Aughnacloy, Tandragee, Keady, Monaghan town, Knockatallon, Louth, Neagh, Cookstown and Moygashel. All groundwater bodies in this LMA are achieving good status.

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

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



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Map 2: 2009 status of surface water bodies in River Blackwater LMA

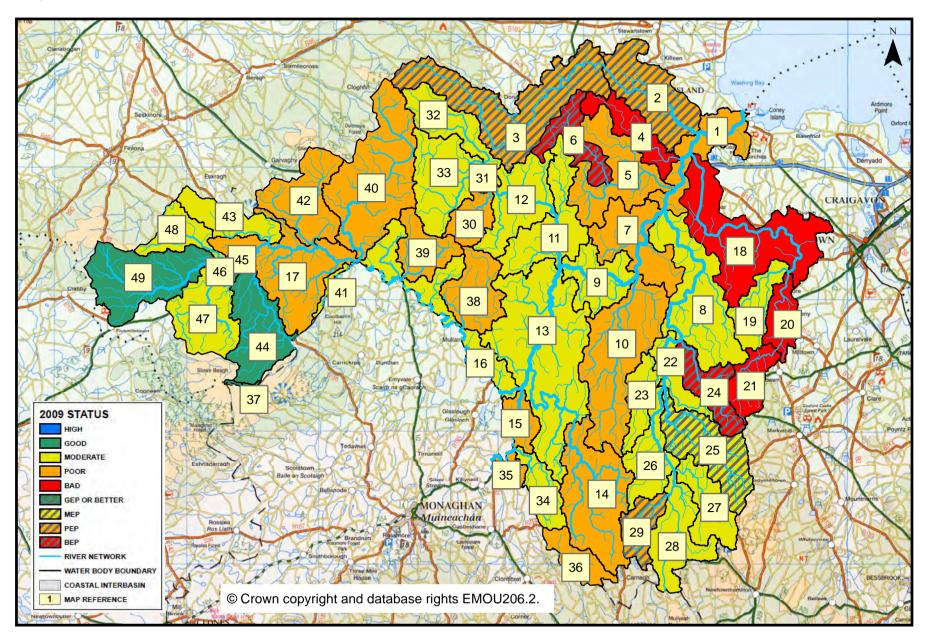


Table 1: 2009 status and proposed objectives

Map Reference	Water Body Code	Water Body Name	2009 Status	2015 Objective	Page Number
1	UKGBNI1NB030307132	River Blackwater	Poor	Moderate	12
2	UKGBNI1NB030307145	Torrent River	PEP	MEP	12
3	UKGBNI1NB030307173	Torrent River	PEP	MEP	13
4	UKGBNI1NB030307050	Drumard Burn Blackwater	Bad	Moderate	13
5	UKGBNI1NB030307036	River Rhone	Poor	Moderate	14
6	UKGBNI1NB030307025	River Rhone	BEP	PEP	14
7	UKGBNI1NB030307027	River Blackwater	Poor	Moderate	14
8	UKGBNI1NB030307026	Callan River	Moderate	Moderate	15
9	UKGBNI1NB030307043	River Blackwater Benburb	Moderate	Good	15
10	UKGBNI1NB030307045	Ballymortrim Water	Poor	Moderate	15
11	UKGBNI1NB030307039	Oona Water	Moderate	Moderate	16
12	UKGBNI1NB030307038	Oona Water	Moderate	Moderate	16
13	UKGBNI1NB030307040	River Blackwater	Moderate	Good	16
14	UKGBNI1NB030307095	River Blackwater	Poor	Moderate	17
15	UKGBNI1NB030307099	Cor River lower	Poor	Moderate	17
16	UKGBNI1NB030308201	River Blackwater 5	Moderate	Good	17
17	UKGBNI1NB030308199	River Blackwater 6	Poor	Moderate	18
18	UKGBNI1NB030307129	Tall River	Bad	Poor	18
19	UKGBNI1NB030307047	Tall River Flush	Moderate	Moderate	19
20	UKGBNI1NB030307108	Tall River	Bad	Moderate	19
21	UKGBNI1NB030307106	Tall River	Bad	Moderate	19
22	UKGBNI1NB030307028	Callan River	Moderate	Moderate	20

Table 1: 2009 status and proposed objectives (continued)

Map Reference	Water Body Code	Water Body Name	2009 Status	2015 Objective	Page Number
23	UKGBNI1NB030307032	Ballyrath Callan	Moderate	Good	20
24	UKGBNI1NB030307109	Killeen Water	BEP	MEP	20
25	UKGBNI1NB030307048	Butter Water	MEP	GEP	21
26	UKGBNI1NB030307044	Callan River	Moderate	Moderate	21
27	UKGBNI1NB030307111	Ballymacone River	Moderate	Good	21
28	UKGBNI1NB030307112	Callan River 4 (Upper)	Moderate	Moderate	22
29	UKGBNI1NB030307049	Clay River	PEP	MEP	22
30	UKGBNI1NB030307037	Oona Water Tributary	Poor	Moderate	22
31	UKGBNI1NB030307035	Oona Water	Moderate	Moderate	23
32	UKGBNI1NB030307033	Oona Water	Moderate	Moderate	23
33	UKGBNI1NB030307034	Oona Water	Moderate	Moderate	23
34	UKGBNI1NB030307096	Cor River Tributary	Moderate	Good	24
35	UKGBNI1NB030307098	Cor River Upper	Poor	Moderate	24
36	UKGBNI1NB030308202	Clontibret Stream	Poor	Moderate	24
37	UKGBNI1NB030308198	Blackwater (Monaghan)	Good	Good	24
38	UKGBNI1NB030307042	Curlagh Tributary Blackwater	Poor	Moderate	25
39	UKGBNI1NB030307041	Blackwater Aughnacloy	Poor	Moderate	25
40	UKGBNI1NB030307175	Ballygawley Water	Poor	Moderate	25
41	UKGBNI1NB030308200	Derrygorry Tributary	Moderate	Moderate	26
42	UKGBNI1NB030307180	Blackwater Tributary	Poor	Moderate	26
43	UKGBNI1NB030307242	Knockmany Burn Blackwater	Moderate	Good	26
44	UKGBNI1NB030307238	Fury River	Good	Good	27

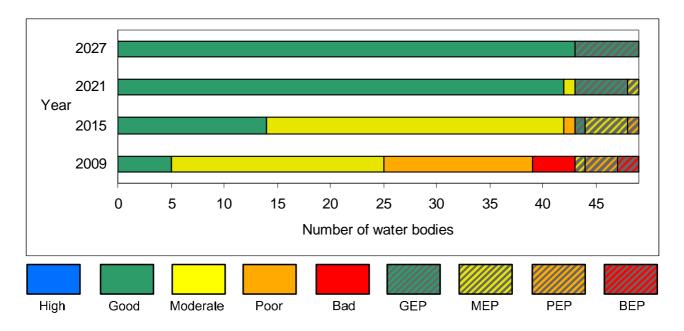
Table 1: 2009 status and proposed objectives (continued)

Map Reference	Water Body Code	Water Body Name	2009 Status	2015 Objective	Page Number
45	UKGBNI1NB030307052	River Blackwater	Good	Good	27
46	UKGBNI1NB030307051	River Blackwater	Good	Good	27
47	UKGBNI1NB030307239	River Blackwater	Moderate	Good	28
48	UKGBNI1NB030307243	River Blackwater Tributary	Moderate	Good	28
49	UKGBNI1NB030307196	New River	Good	Good	28

## 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 31% of our surface waters and maintain good status in 100% of our groundwaters.

Figure 1. 2009 status and proposed objectives for surface waters in the River Blackwater LMA



# How are we going to maintain and improve the water environment in the River Blackwater Local Management Area?

There are a number of actions which will be implemented in the River Blackwater 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 development and implementation of the Blackwater LMA by developing new and maintaining existing stakeholder relationships.	DOE NIEA	Dec 2015
2	Promote public participation by organising two Upper Neagh Bann Catchment Stakeholder Group meetings per year to provide an open forum for discussion on water management issues.	DOE NIEA	Dec 2015
3	Support local environmental initiatives by working with and supporting organisations such as the Blackwater Regional Partnership in raising awareness of water management issues.	DOE NIEA	Dec 2015
4	Support local environmental initiatives which improve water management and riparian habitats through the provision of advice, support and signposting.	DOE NIEA	Dec 2015
5	Support pollution prevention campaigns such as 'Reduce Reuse Recycle', 'Bag It & Bin It', 'Stop and Think (Not Down the Sink)' within the Blackwater LMA.	DOE NIEA	Dec 2015
6	Promote public participation by raising awareness of catchment management issues by release of relevant press articles and web publication of the Blackwater e-zine.	DOE NIEA	Dec 2015
7	Highlight external funding opportunities for water management projects to local partners to encourage improvement in local water quality and riparian habitat such as the NIEA Water Community Environment Awards.	DOE NIEA	Dec 2015
8	Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage in selected locations in agreement with local stakeholder groups and other relevant agencies.	DOE NIEA	Dec 2015
9	Promote public participation by raising awareness of The Rivers Trust.	DOE NIEA	Dec 2013
10	Create an inventory of physical structures within the river channel and bank structures via completion of NIEA river walks and support from local stakeholder groups.	DOE NIEA	Dec 2015
11	Carry out fish monitoring and assessment of salmonid stock on the River Blackwater as a DCAL index river.	AFBI, DCAL	Dec 2015
12	Carry out pre and post fish habitat improvement works survey such as baseline electrofishing surveys on local salmonid population, as resources permit.	DOE NIEA, AFBI	Dec 2015
13	Review Rivers Agency's annual watercourse maintenance program to assess for potential ecological impacts within the Blackwater LMA.	DOE NIEA	Dec 2015
14	Conduct a water resource assessment to inform an ongoing review of abstraction licences within Northern Ireland where necessary.	DOE NIEA	Dec 2015
15	Review of groundwater abstraction and planning applications where necessary.	DOE NIEA, Geological Survey NI	Dec 2015
16	Ensure that licences for new and existing hydro power developments are compliant with the Water Framework Directive and Habitats Regulations to support good ecological status and carry out risk based compliance visits.	DOE NIEA	Mar 2013

	Action to be taken	Action to be taken by	Target Date
17	Develop targeted ecological modelling tools for lake management which may be applied to lakes within the Blackwater LMA.	DOE NIEA, AFBI	Dec 2015
18	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species with local groups and via press NIEA articles and publications.	DOE NIEA	Dec 2015
19	Promote the control of invasive alien species on farmland.	DARD Countryside Management Branch	Dec 2015
20	Complete the phosphorus nutrient budget work for Northern Ireland to establish nutrient inputs from different sectors.	DOE NIEA	Mar 2013
21	Review the relevance of nutrient budget in the context of this LMA to establish relative nutrient inputs from agriculture, industry and sewage discharges.	DOE NIEA	Dec 2015
22	Raise awareness and promote the benefits of effective farm nutrient and waste management.	DARD Countryside Management Branch	Dec 2015
23	DARD Countryside Management and NIEA to develop leaflets and articles to promote effective farm nutrient and waste management for distribution within the Blackwater LMA.	DARD Countryside Management Branch	Dec 2015
24	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
25	Promote best practice in the use of pesticides on farms.	DARD Countryside Management	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.

UKGBNI1NB030307132		River Blackwater	2009 9	Status: Poor		
		Action to be taken	Action to be taken by	Target Date		
1	Carry out a river walk /spo	ot checks as appropriate to investigate aquatic within this 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.					

Uk	GBNI1NB030307145	Torrent Rive	r	2009 Status: PEP	
	Acti	on to be taken		Action to be taken by	Target Date
1	Promote public participation to implementation of the Blackware Enhancement Association to i	ater LMA by working with the	Torrent River	DOE NIEA	Dec 2015
2	Support local environmental in Enhancement Association.	nitiatives and groups such as	the Torrent River	DOE NIEA	Dec 2015
3	Carry out a river walk /spot ch invertebrate suppression within		tigate aquatic	DOE NIEA	Mar 2013
4	Carry out a river walk to assess Derryvale industrial estate.	ss organic pollution concerns	associated with	DOE NIEA	Sep 2012
5	Carry out a river walk to inves river flow problems due to tree woodland.			DOE NIEA	Completed
6	Promote the control of invasiv downstream from Newmills as areas.			DOE NIEA	Dec 2012
7	Carry out a visual inspection of	of WWTW at Newmills.		DOE NIEA	Dec 2012
8	Upgrading of WWTW Coalisla	and.		NIWL	Completed
	A number of catchment wide	actions also apply to this wat	er body. These can	be found on Page	<u>1</u> 0.

UK	GBNI1NB030307173 Torrent River	2009	Status: PEP
	Action to be taken	Action to be taken by	Target Date
1	Promote public participation to support the development and local implementation of the Blackwater LMA by working with the Torrent River Enhancement Association to improve water quality and riparian habitats.	DOE NIEA	Dec 2015
2	Support local environmental initiatives and groups such as the Torrent River Enhancement Association.	DOE NIEA	Dec 2015
3	Carry out fish monitoring and assessment to investigate the fish failure in this water body.	DCAL, AFBI	Dec 2015
4	Carry out monitoring and assessment to investigate elevated ammonia levels and dissolved oxygen suppression within this water body.	DOE NIEA	Sep 2012
5	Carry out a river walk /spot checks as appropriate to investigate aquatic invertebrate suppression within this water body.	DOE NIEA	Mar 2013
6	Investigate feasibility and practicality of implementing morphological mitigation measures as recommended in RHAT (River Hydromorphology Assessment Technique) Survey.	DOE NIEA	Dec 2015
7	Conduct invasive alien species recording during river walks and raise awareness on how to prevent the spread of invasive alien species in the area. Investigate the dumping of soil in catchment border area between the Ballinderry and the Torrent as it may be causing new infestations of giant hogweed in the headwater of previously uninfested rivers e.g. Claggan.	DOE NIEA	Sep 2012
8	Carry out a river walk to assess sources of organic problems upstream of Castlecaulfield towards Donaghmore.	DOE NIEA	Sep 2012
9	Carry out a visual inspection of WWTW at Donaghmore and Castlecaulfield.	DOE NIEA	Dec 2012
10	Assess forestry operations in Altmore and Parkanaur. Ascertain felling programme in the catchment and engage with forestry technical field staff to ensure measures are in place to mitigate risks from felling.	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can	be found on Page	<u>10</u> .

UŁ	KGBNI1NB030307050 Drumard Burn Black	water 2009	Status: Bad	
	Action to be taken	Action to be taken by	Target Date	
1	Carry out fish monitoring and assessment as resources per	mit. DCAL, AFBI	Dec 2015	
2	Carry out a river walk /spot checks as appropriate to investign invertebrate suppression within this water body.	gate aquatic DOE NIEA	Mar 2013	
3	Carry out monitoring and assessment to investigate aquatic suppression in this water body.	plant DOE NIEA	Mar 2013	
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

U	KGBNI1NB030307036	River Rhone		2009 Status: Poo	
А		Action to be taken	,	n to be en by	Target Date
1	Support local environmer Environmental Group.	ntal initiatives such as the Ballysaggart	DOE I	VIEA	Dec 2015
2	Carry out a river walk /spi invertebrate suppression	ot checks as appropriate to investigate aquation within this water body.	DOE I	VIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB030307025		River Rhone	2009 Status: BEP		
	Action to be taken		Action to be taken by	Target Date	
1	Carry out a river walk /sp invertebrate suppression	ot checks as appropriate to investigate aquatic within this water body.	DOE NIEA	Dec 2015	
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>1</u> 0.	

Uł	KGBNI1NB030307027	River Blackwater		2009 Status: Poo	
	Ad	ction to be taken		Action to be taken by	Target Date
1		checks as appropriate to investigate aqua	atic	DOE NIEA	Mar 2013
2	Carry out monitoring and as oxygen suppression within t	sessment to investigate the decline in dis	ssolved	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UŁ	(GBNI1NB030307026	Callan River	2009 Statu	s: Moderate
	Action to	o be taken	Action to be taken by	Target Date
1	Carry out monitoring and assessm suppression within this water body	ent to investigate dissolved oxygen	DOE NIEA	Sep 2012
2	Upgrading of WWTW Armagh Sewer Network.		NIWL	Dec 2015
3	3 Upgrading of WWTW Drumman Hill.		NIWL	Completed
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>1</u> 0.

UŁ	KGBNI1NB030307043	River Blackwater Benburb	2009 Stati	us: Moderate
	Д	Action to be taken	Action to be taken by	Target Date
1	Carry out a river walk /spot invertebrate suppression w	t checks as appropriate to investigate aquatic vithin this water body.	DOE NIEA	Mar 2013
2	Carry out fish monitoring a	nd assessment as resources permit.	DCAL & AFBI	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	(GBNI1NB030307045	Ballymortrim Water	2009 5	Status: Poor
	Actio	n to be taken	Action to be taken by	
1	Carry out a river walk to addres suppressed biotic scores and s	ss LMA investigative survey findings of ewage fungus at Drumree.	DOE NIEA	Sep 2012
2	suppressions identified at Bally	ns to assess aquatic invertebrates doo, Ballymartrim, Artasooly, Cabragh, an, Bryers corner and Creaghan.	DOE NIEA	Completed
3	Carry out monitoring and asses suppression within this water be	ssment to investigate dissolved oxygen ody.	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>1</u> 0.

Uł	KGBNI1NB030307039	Oona Water	2009 Status: Modera	
	Action	to be taken	Action to be taken by	Target Date
1	Conduct biological investigations water body.	Conduct biological investigations to assess aquatic invertebrates in this water body.		Completed
2	Carry out a river walk to investigate invertebrate suppression between Oona Bridge to Tynan river at A28 road bridge.		DOE NIEA	Sep 2012
3	Carry out compliance assessment for industrial consented site at Eglish.		DOE NIEA	Dec 2012
4		rest adjacent to Brantry Lake. Ascertain ent and engage forestry technical field staff to mitigate risks from felling.	DOE NIEA	Mar 2013
	A number of catchment wide act	tions also apply to this water body. These can	be found on Page	10.

Uł	KGBNI1NB030307038	Oona Water	<b>2009</b> Statu	s: Moderate
	Act	ion to be taken	Action to be taken by	Target Date
1	Carry out a river walk /spot cl invertebrate suppression with	hecks as appropriate to investigate aquatic nin this water body.	DOE NIEA	Mar 2013
2		Parkanaur forest. Ascertain felling programme forestry technical field staff to ensure gate risks from felling.	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

Uł	KGBNI1NB030307040	River Blackwater	2009 Statu	s: Moderate
	Action to be taken		Action to be taken by	Target Date
1	Carry out a river walk or catcl absence of fish in the Tynan	hment survey to investigate reasons for the River.	DOE NIEA	Mar 2013
2	Carry out a river walk /spot cl invertebrate suppression with	hecks as appropriate to investigate aquatic nin this 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.			

UKGBNI1NB030307095		River Blackwater	2009 \$	2009 Status: Poor	
	Action	Action to be taken by	Target Date		
1	Carry out a river walk /spot che invertebrate suppression within	cks as appropriate to investigate aquatic this water body.	DOE NIEA	Mar 2013	
2	Carry out a river walk or catchm absence of fish in the Tynan Ri	nent survey to investigate reasons for the ver.	DOE NIEA	Mar 2013	
3	Carry out monitoring and asses suppression within this water bo	ssment to investigate dissolved oxygen ody.	DOE NIEA	Mar 2013	
A number of catchment wide actions also apply to this water body. These can be found on Page 10.		<u>1</u> 0.			

Uł	KGBNI1NB030307099	Cor River Lower	2009 5	2009 Status: Poor	
	Action to be taken		Action to be taken by	Target Date	
1	Liaise with ROI organisations t water body.	to improve water quality in this cross border	DOE NIEA	Dec 2015	
2	Carry out a river walk /spot che invertebrate suppression within	ecks as appropriate to investigate aquatic n this water body.	DOE NIEA	Mar 2013	
3	Carry out monitoring and assessuppression within this water b	ssment to investigate dissolved oxygen oody.	DOE NIEA	Mar 2013	
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UŁ	KGBNI1NB030308201	River Blackwater 5	2009 Status: Moderate	
	Action to be taken		Action to be taken by	Target Date
1	Liaise with ROI organisations to improve water quality in this cross border water body.		DOE NIEA	Dec 2015
2	Carry out a river walk /spot checks as appropriate to investigate aquatic invertebrate suppression within this 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.			

UŁ	KGBNI1NB030308199 River Blackwater 6	2009 S	2009 Status: Poor	
	Action to be taken	Action to be taken by	Target Date	
1	Liaise with ROI organisations to improve water quality in this cross water body.	oorder DOE NIEA	Dec 2015	
2	Support local environmental initiatives and groups such as the Clog District Angling Club.	her & DOE NIEA	Dec 2015	
3	Consider site restoration and protection methods to reduce sedime and improve habitat proposal from Clogher & District Angling Club.	ntation DOE NIEA, Clogher & District Angling Club	Apr 2012	
4	Carry out a river walk to address LMA investigative survey findings suppressed biotic scores and sewage fungus at Aughnacarney.	of DOE NIEA	Sep 2012	
5	Conduct biological investigations to assess aquatic invertebrates suppressions at Branter, Derrynascobe, Springtown, Caragh, and Lareas.	DOE NIEA isgorran	Completed	
6	Carry out monitoring and assessment to investigate algae failure wi water body.	thin this DOE NIEA	Mar 2013	
	A number of catchment wide actions also apply to this water body.	These can be found on Page	<u>1</u> 0.	

UŁ	GBNI1NB030307129 Tall River	2009	Status: Bad
	Action to be taken	Action to be taken by	Target Date
1	Carry out a river walk /spot checks as appropriate to investigate aquatic invertebrate suppression within this water body.	DOE NIEA	Mar 2013
2	Carry out monitoring and assessment to investigate dissolved oxygen suppression within this water body.	DOE NIEA	Mar 2013
3	Promote best practice in the use of pesticides.	DOE NIEA	Dec 2015
4	Promote best practice in the use of pesticides on farms.	DARD Countryside Management Branch	Dec 2015
5	Carry out fish monitoring and assessment as resources permit.	DCAL, AFBI	Dec 2015
6	Assess forestry operations in Loughgall Forest. Ascertain felling programme in the catchment and engage with forestry technical field staff to ensure measures are in place to mitigate risks from felling.	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can	be found on Page	<u>1</u> 0.

UŁ	(GBNI1NB030307047	Tall River Flush	2009 Statu	us: Moderate
	Action	n to be taken	Action to be taken by	Target Date
1		aseline conditions for hydromorphology, ommunities to improve confidence in the	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

Uł	KGBNI1NB030307108	Tall River		2009 Status: Bad	
	Action	to be taken	,	on to be ken by	Target Date
1	Carry out a river walk /spot chec invertebrate suppression within t	ks as appropriate to investigate aqua	atic DOE	NIEA I	Mar 2013
2	Carry out monitoring and assess suppression within this water boo	sment to investigate dissolved oxyge dy.	n DOE	NIEA I	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UŁ	KGBNI1NB030307106 Tall River	2009 Status:	2009 Status: Bad	
	Action to be taken	Action to be Targ taken by Dat		
1	Carry out a river walk /spot checks as appropriate to investigate aqua invertebrate suppression within this water body.	tic DOE NIEA Mar 20	013	
2	Carry out monitoring and assessment to investigate dissolved oxygen suppression within this water body.	DOE NIEA Mar 20	013	
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UKGBNI1NB030307028		Callan River	2009 Statu	ıs: Moderate
		Action to be taken	Action to be taken by	Target Date
1	Carry out a river walk /spo	ot checks as appropriate to investigate aquatic within this water body.	DOE NIEA	Mar 2013
2	Carry out monitoring and suppression within this wa	assessment to investigate dissolved oxygen ater body.	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UKGBNI1NB030307032		Ballyrath Callan	2009 Status: Moderate	
		ction to be taken	Action to be taken by	Target Date
1		ish baseline conditions for hydromorphology, ant communities to improve confidence in the	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	UKGBNI1NB030307109 Killeen Water		2009	Status: BEP
	Action to be taken		Action to be taken by	Target Date
1	Carry out a river walk /sp invertebrate suppression	oot checks as appropriate to investigate aquatic within this 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.			<u>: 1</u> 0.

UKGBNI1NB030307048		BNI1NB030307048 Butter Water		Status: MEP
Action to be taken		on to be taken	Action to be taken by	Target Date
1	Carry out a river walk /spot che invertebrate suppression within	ecks as appropriate to investigate aquatic n this water body.	DOE NIEA	Mar 2013
2		the Fews. Ascertain felling programme in the restry technical staff to ensure measures are g.	DOE NIEA	Mar 2013
3	Upgrading of WWTW at Farm	acaffley.	NIWL	Completed
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>: 1</u> 0.

UKGBNI1NB030307044		Callan River	2009 Status: Modera	
Action to be taken		Action to be taken by	Target Date	
1	Carry out a river walk to inv	restigate depressed biotic score at paper mill at Callan confluence.	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

Uł	KGBNI1NB030307111	Ballymacone River	2009 Status: Moderat	
	Act	Action to be taken by	Target Date	
1	Conduct biological investigations to assess aquatic invertebrates suppressions identified via water quality planning analysis at Granemore and Ballymacone.		DOE NIEA	Completed
2	Carry out a river walk /spot checks as appropriate to investigate aquatic invertebrate suppression within this 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.			

UŁ	KGBNI1NB030307112	Callan River 4 (Upper)	2009 Statu	s: Moderate
	Ac	ction to be taken	Action to be taken by	Target Date
1	Liaise with ROI organisation water body.	s to improve water quality in this cross border	DOE NIEA	Dec 2015
2	<b>.</b> .	pollution from agriculture, sewage discharges failing to achieve good status for aquatic plants.	DOE NIEA	Mar 2013
3		tions to assess aquatic invertebrates vater quality planning analysis at Tassagh, nill.	DOE NIEA	Completed
4	•	quality impacts of zinc levels in this water body. zinc pollution and conduct compliance or	DOE NIEA	Mar 2013
5		n the Fews. Ascertain felling programme in the stry technical field staff to ensure measures are m felling.		Mar 2013
	A number of catchment wide	e actions also apply to this water body. These c	an be found on Page	<u>10</u> .

UKGBNI1NB030307049		Clay River	2009 Status: PE	
		Action to be taken	Action to be taken by	Target Date
1	Carry out a river walk /sp invertebrate suppression	oot checks as appropriate to investigate aquatic within this 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.			

UŁ	(GBNI1NB030307037	Oona Water tributary	2009 Status: Poo	
Action to be taken		Action to be taken	Action to be taken by	Target Date
1		blish baseline conditions for hydromorphology, plant communities to improve confidence in the	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	KGBNI1NB030307035	Oona Water	<b>2009</b> Statu	s: Moderate
Action to be taken		Action to be taken by	Target Date	
1	Conduct biological investigations suppression to identify areas for		DOE NIEA	Completed
2	Carry out a river walk to investiga Clonty Bridge.	ate depressed biotic score upstream of	DOE NIEA	Sep 2012
3	Carry out monitoring and assessilevels and dissolved oxygen supp	ment to investigate elevated ammonia pression within this 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.			

UKGBNI1NB030307033		Oona Water		2009 Status: Modera	
	Action to be taken			Action to be taken by	Target Date
1	Carry out a river walk /spot invertebrate suppression wi	checks as appropriate to investigathin this water body.	ate aquatic	DOE NIEA	Mar 2013
2		ssessment to investigate elevated a suppression within this water boo		DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.				

UKGBNI1NB030307034		Oona Water	2009 Stat	us: Moderate
	Action to be taken		Action to be taken by	Target Date
1	Carry out a river walk /spot che invertebrate suppression with	hecks as appropriate to investigate aquatic nin this water body.	DOE NIEA	Mar 2013
2		sessment to investigate elevated ammonia suppression within this water body.	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	(GBNI1NB030307096	Cor River Trib	<b>2009</b> Statu	s: Moderate
	Action to be taken		Action to be taken by	Target Date
1	Liaise with ROI organisations to in water body.	mprove water quality in this cross border	DOE NIEA	Dec 2015
2	Carry out a river walk /spot check invertebrate suppression within the	s as appropriate to investigate aquatic nis water body.	DOE NIEA	Mar 2013
3	Carry out a river walk to investiga Middletown WWTW.	te depressed biotic score upstream of	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	UKGBNI1NB030307098 Cor River Upper		2009 Status: Poor	
Action to be taken		Action to be taken by	Target Date	
1	Liaise with ROI organisati water body.	ions to improve water quality in this cross border	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UKGBNI1NB030308202 Clontibret Stre		Clontibret Stream (ROI)	2009 9	Status: Poor
		Action to be taken	Action to be taken by	Target Date
1	Liaise with ROI organisati water body.	ons to improve water quality in this cross border	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

U	KGBNI1NB030308198	Blackwater (Monaghan)	2009 S	tatus: Good
	Ac	ction to be taken	Action to be taken by	Target Date
1	Maintain current regulatory	controls as water body status is Good or bette	er. DOE NIEA	Dec 2015
2	Liaise with ROI organisation cross border water body.	ns to maintain good water quality status in this	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	KGBNI1NB030307042	Curlagh tributary Blackwater	2009 Statu	ıs: Poor
	Ac	ction to be taken	Action to be taken by	Target Date
1	implementation of the Black	to support the development and local water LMA by working with Clogher & Distriter quality and riparian habitats.		ec 2015
2	Conduct biological investiga suppression within this water	ations to assess aquatic invertebrates er body.	DOE NIEA C	ompleted
3	Carry out a river walk to invented Crilly Feeder at Dunmacma	estigate depressed biotic score upstream of y.	DOE NIEA Se	ep 2012
4	Carry out monitoring and as suppression within this water	sessment to investigate dissolved oxygen er body.	DOE NIEA Se	ep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

Uł	KGBNI1NB030307041 Blackwater Aughnacloy		2009 9	Status: Poor
	A	Action to be taken	Action to be taken by	Target Date
1	implementation of the Blad	on to support the development and local ckwater LMA by working with Clogher & District vater quality and riparian habitats.	DOE NIEA	Dec 2015
2	Carry out a river walk /spo invertebrate suppression v	ot checks as appropriate to investigate aquatic within this 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.			

UŁ	GBNI1NB030307175 Ba	lygawley Water	2009 5	Status: Poor
	Action to be take	en	Action to be taken by	Target Date
1	Promote public participation to support the cimplementation of the Blackwater LMA by water Club to improve water quality and ri	orking with Clogher & District	DOE NIEA	Dec 2015
2	Carry out a river walk /spot checks as approinvertebrate suppression within this water be		DOE NIEA	Mar 2013
3	Carry out a river walk to investigate depress Lismore bridge.	ed biotic score upstream of	DOE NIEA	Sep 2012
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>1</u> 0.

U	KGBNI1NB030308200	Derrygorry Tributary	2009 Statu	s: Moderate
	Act	ion to be taken	Action to be taken by	Target Date
1	Liaise with ROI organisations water body.	to improve water quality in this cross border	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	(GBNI1NB030307180	Blackwater tributary	2009 \$	Status: Poor
	Actio	on to be taken	Action to be taken by	Target Date
1		o support the development and local ater LMA by working with Clogher & District quality and riparian habitats.	DOE NIEA	Dec 2015
2	Carry out a river walk /spot che invertebrate suppression within	ecks as appropriate to investigate aquatic n this water body.	DOE NIEA	Mar 2013
3	Carry out a river walk to invest Ballygreenan.	tigate depressed biotic score upstream of	DOE NIEA	Sep 2012
4	• •	Knockmany and Dunmoyle. Ascertain felling and engage with forestry technical field staff to to mitigate from risks.	DOE NIEA	Mar 2013
	A number of catchment wide a	actions also apply to this water body. These ca	n be found on Page	10.

UŁ	(GBNI1NB030307242	Knockmany Burn Blackwater	2009 Statu	s: Moderate
	Action	to be taken	Action to be taken by	Target Date
1		upport the development and local er LMA by working with Clogher & District quality and riparian habitats.	DOE NIEA	Dec 2015
2	Carry out a river walk /spot checinvertebrate suppression within	ks as appropriate to investigate aquatic this water body.	DOE NIEA	Mar 2013
3	Conduct biological investigations suppressions at Roy.	s to assess aquatic invertebrates	DOE NIEA	Completed
4		ockmany Forest. Ascertain felling d engage with forestry technical field staff to mitigate from risks.	DOE NIEA	Mar 2013
	A number of catchment wide act	tions also apply to this water body. These cal	n be found on Page	<u>1</u> 0.

UŁ	KGBNI1NB030307238 Fury River	2009 S	tatus: 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	Liaise with ROI organisations to improve water quality in this cross border water body.	DOE NIEA	Dec 2015
3	Promote public participation to support the development and local implementation of the Blackwater LMA by working with Clogher & District Angling Club to improve water quality and riparian habitats.	DOE NIEA	Dec 2015
4	Assess forestry operations in Fardross and Favour Royal. Ascertain felling programme in the catchment and engage with forestry technical field staff ensure measures are in place to mitigate from risks.		Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.		

UŁ	KGBNI1NB030307052	River Blackwater	2009 S	tatus: Good
	,	Action to be taken	Action to be taken by	Target Date
1	Maintain current regulator	y controls as water body status is Good or better.	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			10.

UŁ	KGBNI1NB030307051	River Blackwater	2009 S	tatus: Good
		Action to be taken	Action to be taken by	Target Date
1	Maintain current regulator	ry controls as water body status is Good or better.	DOE NIEA	Dec 2015
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

U	KGBNI1NB030307239	River Blackwater	2009 Statu	us: Moderate
	,	Action to be taken	Action to be taken by	Target Date
1	Carry out fish monitoring a water body, as resources	and assessment to investigate fish failure in this permit.	DCAL, AFBI	Dec 2015
2	Carry out monitoring and a suppression within this wa	assessment to investigate dissolved oxygen ater body.	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			

UŁ	(GBNI1NB030307243	River Blackwater tributary	2009 Statu	s: Moderate
	A	ction to be taken	Action to be taken by	Target Date
1	Carry out monitoring and assessment to investigate aquatic plant suppression in this water body.		DOE NIEA	Mar 2013
2		pollution from agriculture, sewage discharges failing to achieve good status for aquatic plants.	DOE NIEA	Mar 2013
	A number of catchment wide actions also apply to this water body. These can be found on Page 10.			<u>10</u> .

U	KGBNI1NB030307196	New River	2009 S	tatus: Good
		Action to be taken	Action to be taken by	Target Date
1	Maintain current regulate	ory controls as water body status is Good or better.	DOE NIEA	Dec 2015
	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 River Blackwater 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);
- The Integrated Pollution Prevention Control Directive (96/61/EC);
- 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 wid e measures which were agreed by all relevant Departments and Agen cies in Northern Ireland in cluding DCAL, DARD, DO E, DRD, NIEA, Loughs Agency and NI W ater and published as part of the RBM Ps. 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.

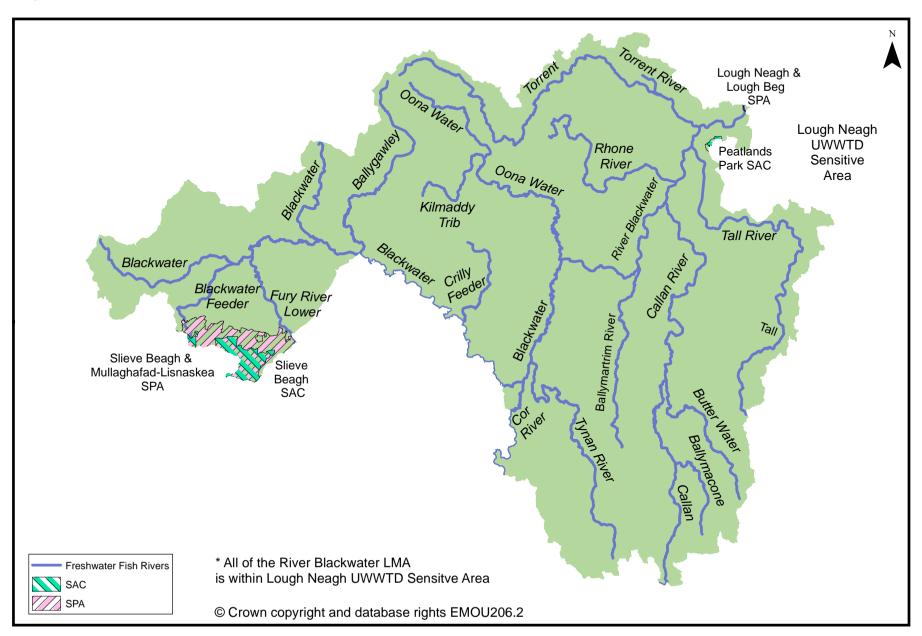
# What measures are agreed for water dependent Natura 2000 sites in unfavourable condition?

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 Slieve Beagh Special Area of Conservation as there are no water related adverse activities causing this condition assessment of the water dependent features. The Peatlands Park Special Area of Conservation has water dependent features which are in unfavourable condition.

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

Map 3: Protected Areas in River Blackwater LMA



## **Protected Areas in the River Blackwater LMA**

The River Blackwater 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 the River Blackwater LMA

Protected Area Type	Location		
Water used for abstraction of drinking water (drinking water protected areas)	There are 3 drinking water protected areas.		
Areas designed to protect economically significant aquatic species			
Freshwater Fish Directive (78/659/EEC)	There are 415 km of rivers (66 km designated Cyprinid, 349 km designated Salmonid) identified under the Freshwater Fish Directive		
Shellfish Water Directive (79/923/EC)	There are no designated shellfish waters.		
Bathing Waters These are identified under the Bathing Waters Directive (76/160/EEC)	There are no identified bathing waters.		
Nutrient Sensitive Areas Areas designated as sensitive under the Urban Waste Water Treatment Directive (91/271/EEC) and the Nitrates Directive (91/676/EEC)	There is 1 Urban Waste Water Treatment Directive sensitive area: Lough Neagh.  A total territory approach has been adopted in Northern Ireland for the nitrates Directive.		
Areas designated for the protection of habitats or species (Natura 2000 sites) These are sites 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	TOTAL OF THE GOOD DISCUSS.		
Habitats Directive (92/43/EEC)	There are 2 water dependent Special Areas of Conservation; Peatlands Park and Slieve Beagh.		
Birds Directive (79/409/EEC)	There are 2 Special Protection Areas; Lough Neagh and Lough Beg, and Slieve Beagh		

#### **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, Eileen Mallon.

Email: eileen.mallon@doeni.gov.uk

Telephone: 028 9263 3442

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.

Northern Ireland Environment Agency Water Management Unit 17 Antrim Road Lisburn BT28 3AL T. (028) 9262 3004



