

eastern
river basin district

Draft Programme of Measures

Baltray WMU

-
1. Water Framework Directive
 2. Overview of Water Management Unit
 3. Status of Water
 4. Objectives
 5. Protected Areas
 6. What are the Problems to address?
 7. Programme of Measures
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 9. What happens next?
 10. What can you do?

Appendix 1&2: Programme of Measures



Document Control Sheet

Project	Eastern River Basin District			
Report	Draft - Baltray - River and Lake Programme of Measures - for download			
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Draft 1	AOC/AC	AGH	AOC	DEC 2008



































Water Framework Directive

- ❑ The Draft River Basin Management Plan was published on the 22nd December 2008 for Public Consultation.
- ❑ This Programme of Measures accompanies the River Basin Management Plan created for the Eastern River Basin District.
- ❑ The River Basin Management Plan can be downloaded from the website, whilst more detail of the Programme of Measures is contained in the River Basin Management System which can be accessed through your Local Authority.
- ❑ The River Basin Management System is a web-based tool that assists Local Authorities to store information about the condition of their waters and the Programme of Measures for their improvement.
- ❑ For more information please visit www.erbd.ie



Risk Assessment Legend

See www.erbd.ie for more information on Article 5 Risk Assessment

Risk	Symbol with Level of Risk	Risk	Symbol with Level of Risk
Abstraction			
CSO	 1a  1b  2a  2b	WWTPs	 1a  1b  2a  2b
Hydrometric Station	 ACTIVE  INACTIVE  OBSOLETE	WTPs	 2a
IPC Facilities	 1a  1b  2a  2b	Landfills	 1b  2a  2b
IPC Rivers	 1a  1b  2a  2b	Mines	 1a  1b  2a
Section 4	 1a  1b  2a  2b	Quarries	 2a
Based on Article 5 Risk Assessment: 1a : At risk, 1b : Probably at risk, 2a : Probably not at risk, 2b : Not at risk			

Objectives

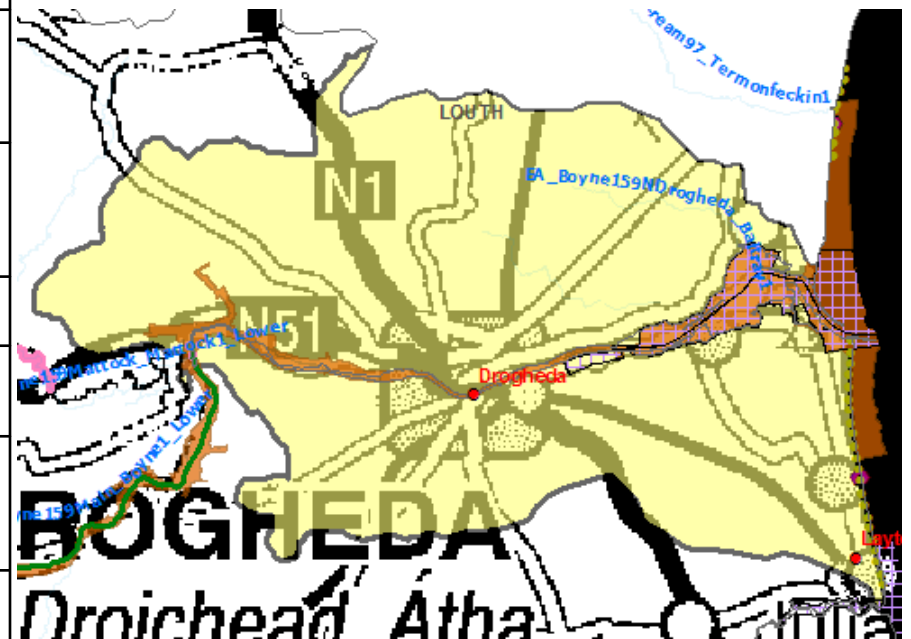
- ❑ Waters must be of satisfactory quality and sufficient quantity to protect the aquatic environment and its beneficial uses.
- ❑ We have four core objectives:
 1. Prevent deterioration and in particular maintain High or Good Status
 2. Improve waters to achieve Good Status where appropriate
 3. Progressively reduce chemical pollution
 4. Achieve our protected area objectives










Protected Areas








- Some areas require greater protection because they contain rare and vulnerable habitats or wildlife. Other protected areas are sensitive because of their beneficial use for humans, such as drinking water sources or shellfish areas.

Drinking Water (1)	✓	River Boyne
Special Protected Areas (3)	✓	Boyne Estuary, River Nanny Estuary and Shore
Special Areas of Conservation (Habitat) (3)	✓	Boyne Coast And Estuary, River Boyne And River Blackwater
Salmonid Water (1)	✓	River Boyne
Recreational Water (1)	✓	Laytown/Bettystown
Register Protected Areas, Water Dependant Habitat (1)	✓	River Boyne
National Heritage Areas (4)	✓	Boyne Coast And Estuary, King William'S Glen, Boyne River Islands, Laytown Dunes/Nanny Estuary



Protected Areas Legend

Type of Protected area	Symbol
Drinking water – Monitoring point	
Drinking Water – Rivers	
Drinking Water - Groundwater	
Drinking Water – Surface water	
Nutrient Sensitive rivers	
Nutrient Sensitive Areas	
National Heritage Areas	

Type of Protected area	Symbol
Special Protected Areas	
Special Areas of Conservation	
Beaches	
Recreational lakes	
Salmonid Waters	
Register protected Areas – Water Dependant Habitats	
Shellfish	

What are the problems to address?

In the Eastern River Basin District an online computer program allows local authorities to store, assess and make Programmes of Measures on all the information emerging relating to the Water Framework Directive.

The first step is to identify any issues that might prevent us from reaching the ultimate target of 'Good Status' (please see plan for a full definition of 'Good Status').

In Baltray:

- High Nutrients (Phosphorus)
- Low Ecological Rating

What could be causing these problems?

Pressure	County	% Contribution
Agriculture	Louth	80
Wastewater from Unsewered Properties	Louth	20

- ❑ In Baltray the two streams in this catchment Beaulieu and Baltray, whilst close to Drogheda do not flow through Drogheda and are rural in nature.
- ❑ The principal pressures affecting these rivers are assessed to be Agriculture and Wastewater from Unsewered Properties (Septic Tanks).

Programme of Measures

- Having assessed the current condition of our waters, the extent of areas to protect, and the risks and pressures affecting our waters, we can now determine the measures needed to bring them all back to good status.
- We must aim to achieve full implementation of all basic measures before 2015. If the implementation of all Basic Measures before 2015 will not get us to Good Status then we must select necessary Supplementary Measures.

<i>Basic Measures</i>	Measures required by law
<i>Supplementary Measures</i>	Non-statutory measures deemed necessary

- The following pages detail the proposed Programme of Measures. We have also proposed an Alternative Programme of Measures that, in light of the large number of measures to be taken, prioritises certain measures for the first cycle of the plan (2010 – 2015).
- ***Please see the Appendix for the full list of basic and supplementary measures selected in both the Proposed and Alternative Programme of Measures.***

Proposed Programme of Measures

This proposed Programme of Measures aims to achieve the 4 core objectives as described earlier by fully implementing all basic measures and also implementing supplementary measures where deemed necessary.

Basic Measures:

A full list of basic measures is listed in the Draft River Basin Management Plan. It includes the regulations enacted from the following 11 European Directives and also requires member states to create measures for 11 other issues:

11 European Directives

1. Bathing Water Directive
2. Habitats Directive
3. Birds Directive
4. Drinking Water Directive
5. Major Accidents (Seveso) Directive
6. Environmental Impact Assessment Directive
7. Sewage Sludge Directive
8. Urban Waste Water Treatment Directive
9. Plant Protection Products Directive
10. Nitrates Directive
11. Integrated Pollution Prevention Control Directive

11 Other Basic Measures

1. Cost recovery for water use
2. Measures to promote efficient and sustainable use
3. Protection of drinking water sources
4. Control of abstraction and impoundment
5. Authorisation of discharges to groundwater
6. Control of point source discharges
7. Control of diffuse source pollution
8. Control of priority substances
9. Control of physical modifications of surface waters
10. Controls on other activities impacting water status
11. Prevention or reduction of the impact of accidental pollution incidents

Proposed Programme of Measures - Rivers

❑ **Supplementary Measures (In descending order of cost):**

Supplementary Measures - River Sub-catchment
Implement Community Digestors for Alternative Energy
Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes
Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater
Modernise Abstraction Legislation, including a system for licensing surface water abstractions

Alternative Programme of Measures – Basic Measures

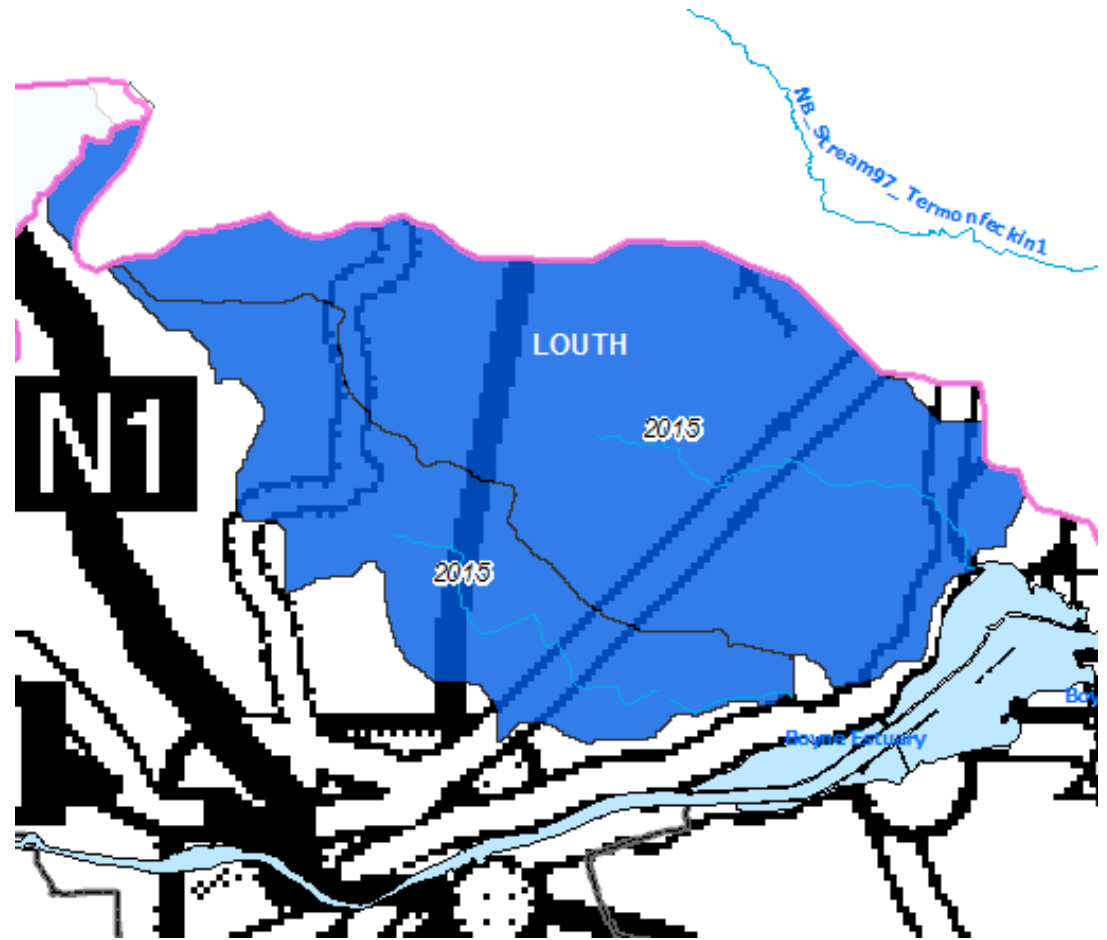
We have prepared an Alternative Programme of Measures for comparison. This Programme of Measures selects the measures to prioritise for implementation during the first 6 year plan that are thought to be most effective, but still aims to achieve Good Status as early as possible

By prioritising the measures to be implemented in the first cycle, the Alternative Scenario aims to save time and money by focussing on the most effective measures first.

Alternative Objectives – Extended Timescale

- ❑ In some cases due to technical infeasibility, disproportionate cost, the natural condition of the waterbody or new physical modifications it may not be possible to achieve all core objectives by 2015.
- ❑ In the case of Baltray all Rivers are expected to attain Good Status by 2015.

2015	100%
2021	100%
2027	100%



The percentage status is determined by the number of reportable segments or subbasins. For this reason the percentage might not seem representative.

What can you do?

You have your say!

- Now is your chance to have a say on the Programme of Measures:
 - Have all issues been addressed?
 - Do you have any measures to add to the proposed Programme of Measures?
 - What do you think about the Alternative Programme of Measures?
 - Would you spend more to achieve our goals faster?

- We can all help to implement this important legislation by thinking about our impact on the water environment in our everyday lives.



How to comment

Please *have your say* in any of the following ways:

1. Email your comments to comments@erbd.ie and include River Basin Management Plan Comments in the subject line

2. Write to:

River Basin Management Plan Comments

Project Co-ordinator

Eastern River Basin District Project Office

Dublin City Council

68-70 Marrowbone Lane, 4th Floor

Dublin 8



Appendix 1:

Proposed Programme of Measures



Programme of Measures Key

ABS	Abstractions
AGR	Agricultural Point and Diffuse Sources
AGR-PS	Unlicensed Agricultural Point Sources
Chem	Chemical Fertiliser
CROSS	Planning, Development and other sources
DLRCC	Dun Laoghaire Rathdown County Council
DS	Dangerous Substances
ECO	Poor Ecology
FOR	Forestry
IPPC	Industrial Sources
Manure	Manure Fertilisers
MORP	Intensive Land use
S4	Local Authority Licensed Discharges
WWTP	Wastewater Treatment Plants
DATA+	An Absence of sufficient data
HS	To Protect High Status Waters
Septic	Onsite Wastewater Treatment Systems
U-DIFF	Urban Diffuse Pollution

Proposed Programme of Measures – Basic Measures for Rivers

Local Authority	Parent ID Name	MeasureName	Source
LOUTH	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	ABS
LOUTH	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
LOUTH	Water Supplies Act 1942	Water Supplies Act 1942	ABS
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	AGR
LOUTH	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
LOUTH	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
LOUTH	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
LOUTH	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	DS
LOUTH	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	DS
LOUTH	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	DS
LOUTH	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	DS
LOUTH	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
LOUTH	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
LOUTH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
LOUTH	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
LOUTH	Water Services Act 2007	Water Services Act 2007	WWTP

Proposed Programme of Measures – Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
LOUTH	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
LOUTH	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
LOUTH	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
LOUTH	Implement Community Digestors for Alternative Energy	Supplementary	WWTP

Appendix 2:

Alternative Programme of Measures



Alternative Programme of Measures – Basic Measures for Rivers

Local Authority	Measure Name	Sub-Measure Name	Source
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Discontinue use of soiled water for application to or irrigation of land in certain conditions	AGR
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Conduct Farm Surveys	AGR
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Improve farmyard structure/operations to divert rainwater runoff	AGR-PS
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Fertiliser/manure/soiled water/effluent/slurry/silage storage facilities to prevent seepage to ground or surface water	AGR-PS
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Ensure that distance from a water body when applying fertiliser is respected	Chem
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Prohibit application of fertiliser during specific periods	Chem
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Ensure manner and condition of land spreading is respected	Manure
LOUTH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Monitor storage capacity and nutrient management (follow the tables)	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Consider impact of sludge on plants, soil, surface water and groundwater quality	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Local Authorities will maintain a sludge register	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Analyse sludge (heavy metal,pH...)	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Restrict land where sludge can be used	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Supervise the supply and use of sludge in agriculture	Manure
LOUTH	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Restrict the amount of Sludge applied to land at 2 tonnes of dry matter per hectare per year	Manure
LOUTH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 12s	S4
LOUTH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4

Alternative Programme of Measures – Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
LOUTH	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
LOUTH	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
LOUTH	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
LOUTH	Inspections and Upgrades	Supplementary	Septic
LOUTH	Implement Community Digestors for Alternative Energy	Supplementary	WWTP