

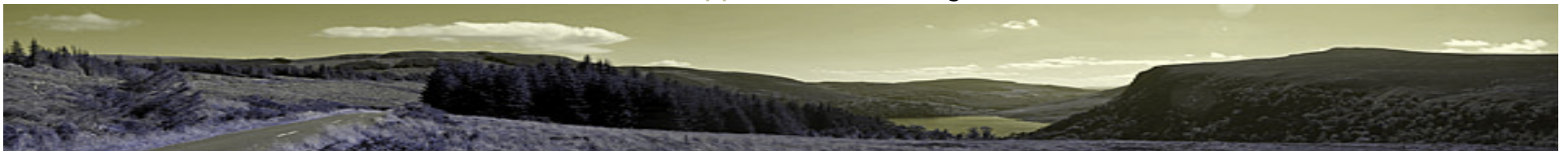
eastern
river basin district

Draft Programme of Measures

Avoca 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
 8. Reason for Exemptions
 9. What happens next?
 10. What can you do?

Appendix 1 - 4: Programme of Measures – Rivers and Lakes



Document Control Sheet

Project	Eastern River Basin District			
Report	Draft - Avoca - River and Lake Programme of Measures - for download			
Date	December 2008			
Project No: 39325		Document Reference: 39325/ERBD40/DG134 - S		
Version	Author	Reviewed	Checked	Date
Draft 1	AOC/AC	AGH	AOC	DEC 2008



Water Framework Directive

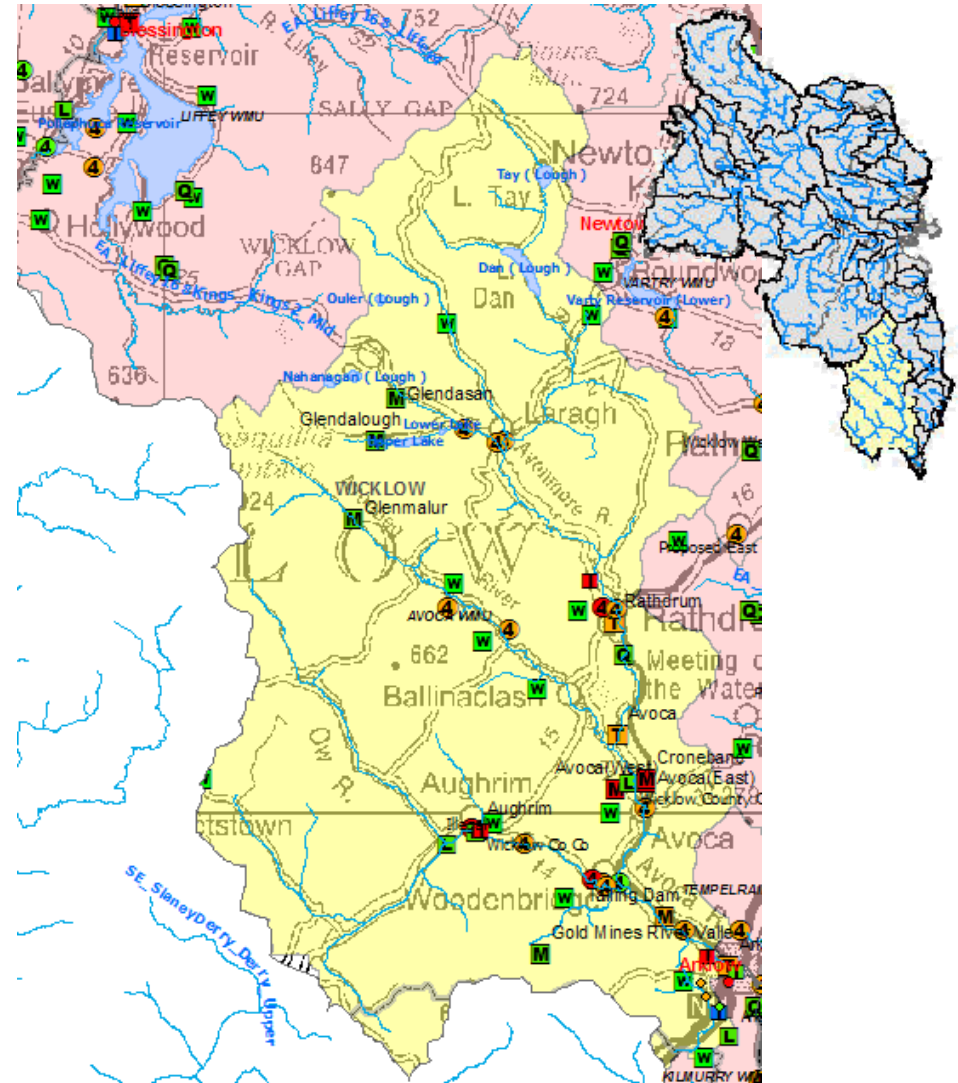
- ❑ The Draft River Basin Management Plan was published on the 22nd December 2008 for Public Consultation.
- ❑ This Programme of Measures accompanies the River Basin Management Plan created for the Eastern River Basin District.
- ❑ The River Basin Management Plan can be downloaded from the website, whilst 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



Overview of Water Management Unit

































Geography

- ❑ Local Authorities: 98% Wicklow, 2% Wexford
- ❑ River Length: 208 km
- ❑ Lakes: Dan Lough , Glendalough Lower Lake, Nahanagan Lough, Ouler Lough , Tay Lough , Glendalough Upper Lake
- ❑ Total Lake area: 2.5 km²
- ❑ HMWB and AWB: Lough Nahanagan
- ❑ Land use: Equal land areas used for agriculture and bogs
 - 28% pasture use
 - 28% bogs
 - 12% semi-natural
 - urban populations cover 1% of the area for example at Laragh, Aughrim and Woodenbridge.



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

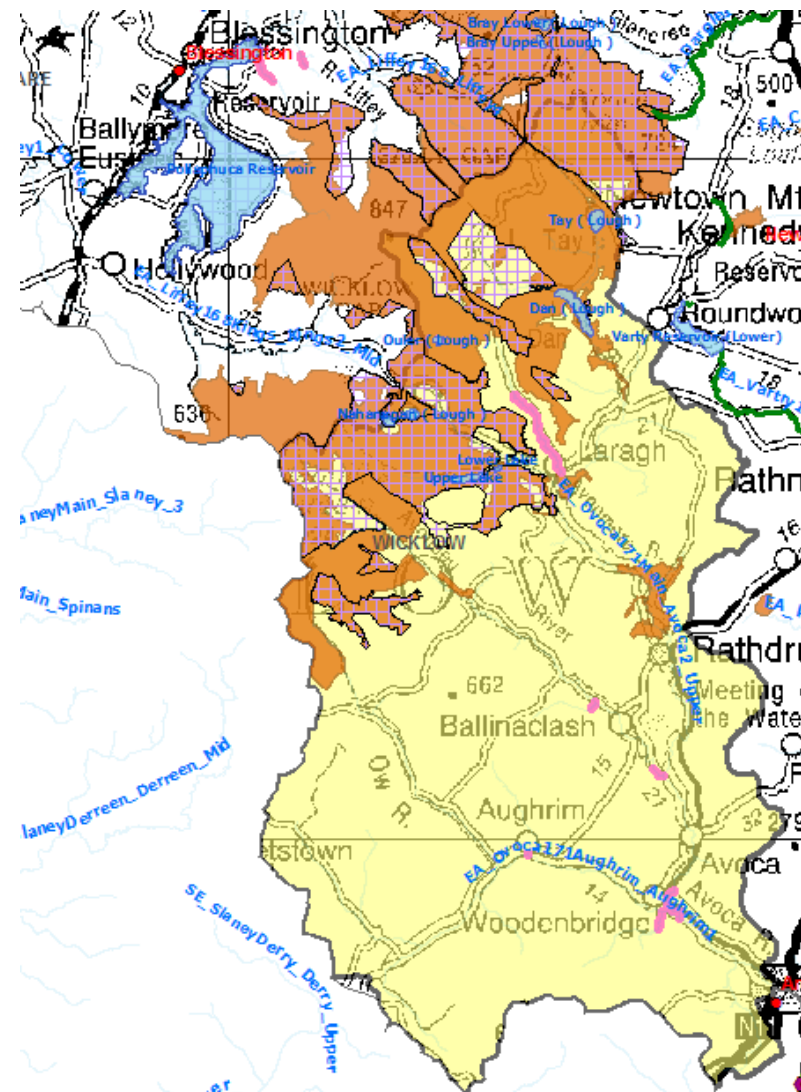
- ❑ Waters must be of satisfactory quality and sufficient quantity to protect the aquatic environment and its beneficial uses.
- ❑ We have four core objectives:
 1. Prevent deterioration and in particular maintain High or Good Status
 2. Improve waters to achieve Good Status where appropriate
 3. Progressively 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 (5)	✓	River Avonbeg, Ballycreen (Brook), Glenmacnass (2 sections), Goldmine, Avoca
Special Protected Areas (1)	✓	Wicklow Mountains SPA
Special Areas of Conservation (Habitat) (2)	✓	Wicklow Mountains, Vale Of Clara (Rathdrum Wood)
Natural Heritage Area (5)	✓	Vale Of Clara (Rathdrum Wood), Ballinacor Wood, Avondale, Avoca River Valley, Arklow Town Marsh



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 management system 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 Avoca the problems are:

- High Nutrients (Phosphorus)
- Oxygen Demand
- Low Ecological Rating
- Heavy metal contamination
- Abstraction from Goldmine Lower River found to be at risk of over abstraction
- Some weirs were identified as being difficult for fish to pass

What could be causing these problems?

Pressure	County	% Contribution
Agriculture	Wicklow	20
	Wexford	100
Wastewater and Industrial Discharges	Wicklow	25
Forestry	Wicklow	10
Landfills, Quarries, Mines and Contaminated Lands	Wicklow	40
Abstraction	Wicklow	At Risk

- ❑ In Wicklow the biggest contributors to pollution have been assessed as the mine, wastewater and industrial discharges (Rathdrum and Avoca wastewater treatment plants, effect of urban runoff and licensed discharges) and agriculture.
- ❑ In the small part of the Avoca River catchment in Wexford, agriculture is the main pressure.
- ❑ The five lakes (Dan Lough , Glendalough Lower Lake, Nahanagan Lough, Ouler Lough , Tay Lough , Glendalough Upper Lake) are quite natural and all at Good or High Status.

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):

Top Ten Supplementary Measures - River Sub-catchment
Treatment of Mine Discharge
Upgrade WWTW <2000 PE
Inspections and Upgrades
Implement Community Digestors for Alternative Energy
CSO - Upgrades and Rehabilitation
Forest Service - Forestry and Water Quality Guidelines
Restrict Cattle Access to rivers - Create Cattle Drinking points
Reduce water demand through improved conservation, plumbing code changes, reduce unaccounted for water, rainwater harvesting, domestic water metering, universal water charging, or restricting development where water resources are over-subscribed
Further Investigate cause of failure
Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing S.U.D schemes in developed areas, implementation of abstraction controls, use of additional storage or alternative water source

Proposed Programme of Measures - Lakes

- ❑ *Dan Lough , Glendalough Lower Lake, Nahanagan Lough, Ouler Lough , Tay Lough , Glendalough Upper Lake*
- ❑ Basic Measures – Full Implementation of all Basic Measures (2010-2015)
- ❑ Supplementary Measures

Supplementary Measures - <i>Dan Lough , Glendalough Lower Lake, Nahanagan Lough Ouler Lough , Tay Lough , Glendalough Upper Lake</i>
Septic system management programme
Further Investigate cause of failure
Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing S.U.D schemes in developed areas, implementation of abstraction controls, use of additional storage or alternative water source
Reduce water demand through improved conservation, plumbing code changes, reduce unaccounted for water, rainwater harvesting, domestic water metering, universal water charging, or restricting development where water resources are over subscribed
Evaluate Bog Impact
Survey Banks/Coast
Enforce Regulations on Septic Systems
EPA - Code of Practice Wastewater Treatment Systems for Single Houses
For sites not at Favourable conservation Status Set targets and timeframe for achieving status
Further Research on Abstraction Pressure effects on lake ecology (national)

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.

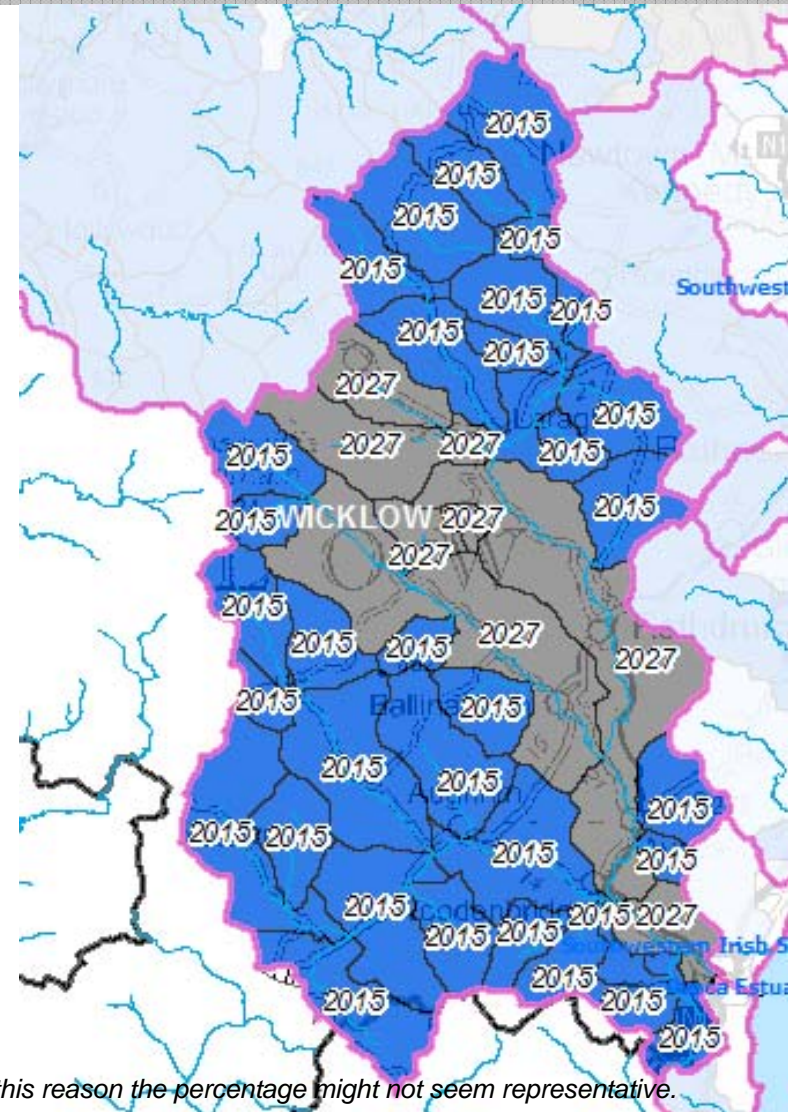
Phosphorus modelling by the ERBD project shows that of the entire Avoca Catchment only 31% of the Wicklow land area *is* of high risk of causing direct runoff into the river.



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.
- ❑ The main pressure preventing achievement of Good Status is thought to be diffuse mine pollution. The Avoca Mine is a special case. Many measures will help to improve these water but it might never be possible to return these waters to Good Status. In that case a less stringent objective will be needed.
- ❑ For the moment the objective is 2027.

2015	82%
2021	82%
2027	100%



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

Alternative Objectives - Heavily Modified and Artificial Waterbodies

- ❑ Some surface waters have been substantially changed in character to allow uses such as:
 - Water storage
 - Public supply
 - Flood defences
 - Land drainage.
- ❑ These waterbodies are called ***Heavily Modified***. This designation recognises that the water cannot be returned to its natural condition and therefore sets an alternative objective of Good Ecological Potential.
- ❑ Some waterbodies are entirely ***Artificial*** for example canals and for the same reasoning are set the alternative objective of Good Ecological Potential.
- ❑ We must still achieve good chemical condition, prevention of deterioration and achieve our protected area objectives.

Heavily Modified and Artificial Waterbodies Status and Measures

Heavily Modified

Lough Nahanagan

- ❑ **Reason for designation:** Pumped hydro-electric power system
- ❑ **Status:** Meets equivalent potential standard
- ❑ **Measures:** None identified

Artificial

Turlough Hill

- ❑ **Reason for designation:** Pumped hydro-electric power system
- ❑ **Status:** Meets equivalent potential standard
- ❑ **Measures:** None identified

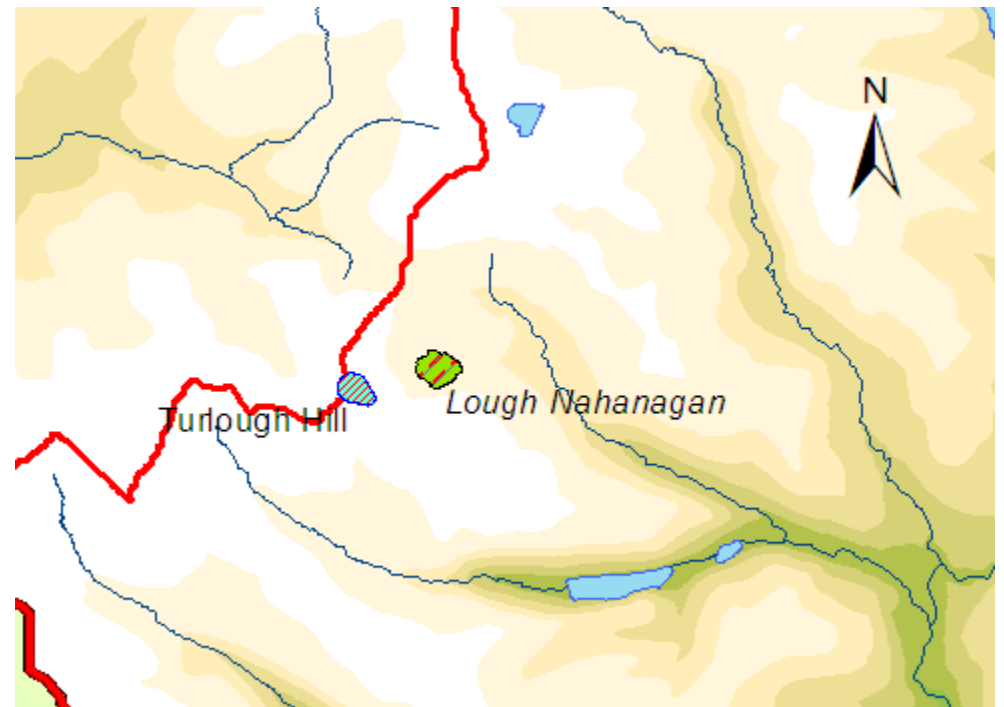







Figure 1: Turlough Hill and Lough Nahanagan in the Wicklow Mountains. The red line is the Liffey sub catchment boundary.

Heavily Modified and Artificial Water Bodies Legend

Heavily Modified (HM) or Artificial Water Bodies (AWB)	Symbol
HM - Rivers	
HM - Marine	
HM - Lakes	
AWB - Canal	
AWB - Reservoirs	

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 Rivers



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
WEXFORD	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
WEXFORD	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WEXFORD	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WEXFORD	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
WEXFORD	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WEXFORD	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
WEXFORD	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
WEXFORD	Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998)	Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998)	DS
WEXFORD	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	ECO
WEXFORD	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WEXFORD	Fisheries Act 1959 - 1981	Fisheries Act 1959 - 1981	ECO
WEXFORD	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
WEXFORD	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WEXFORD	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
WEXFORD	Water Services Act 2007	Water Services Act 2007	WWTP
WICKLOW	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
WICKLOW	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Water Supplies Act 1942	Water Supplies Act 1942	ABS

Proposed Programme of Measures – Basic Measures for Rivers (cont.)

Local Authority	Parent ID Name	MeasureName	Source
WICKLOW	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
WICKLOW	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
WICKLOW	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	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
WICKLOW	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
WICKLOW	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
WICKLOW	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
WICKLOW	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
WICKLOW	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WICKLOW	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
WICKLOW	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
WICKLOW	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
WICKLOW	Water Services Act 2007	Water Services Act 2007	WWTP

Proposed Programme of Measures – Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
WEXFORD	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
WICKLOW	Introduce Soft Edges to Inferior Habitats	Guidance	MORP
WICKLOW	Survey Banks/Coast	Guidance	DATA+
WICKLOW	Further Investigate cause of failure	Guidance	DATA+
WICKLOW	Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms	Guidance	ABS
WICKLOW	Develop Habitat Suitability Curves for salmonids in Irish Rivers	Guidance	ABS
WICKLOW	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
WICKLOW	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
WICKLOW	In flow regulated rivers, establish guidance on flow variations to support ecology	Proposed	ABS
WICKLOW	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Record daily abstraction rates	Proposed	ABS
WICKLOW	Treatment of Mine Discharge	Supplementary	DS
WICKLOW	Upgrade WWTW <2000 PE	Supplementary	WWTP
WICKLOW	Inspections and Upgrades	Supplementary	Septic
WICKLOW	Implement Community Digestors for Alternative Energy	Supplementary	WWTP
WICKLOW	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
WICKLOW	Forest Service - Forestry and Water Quality Guidelines	Supplementary	FOR
WICKLOW	Restrict Cattle Access to rivers - Create Cattle Drinking points	Supplementary	AGR-PS
WICKLOW	Reduce water demand through improved conservation, plumbing code changes, reduce unaccounted for water, rainwater harvesting, domestic water metering, universal water charging, or restricting development where water resources are over-subscribed	Supplementary	ABS
WICKLOW	Facilitate Fish Migration	Supplementary	MORP
WICKLOW	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing S.U.D schemes in developed areas, implementation of abstraction controls, use of additional storage or alternative water source	Supplementary	ABS
WICKLOW	Diffuse Runoff (Urban) - Implement SUDS	Supplementary	U-DIFF

Appendix 2:

Alternative Programme of Measures Rivers



Alternative Programme of Measures

– Basic Measures for Rivers

Local Authority	Measure Name	Sub-Measure Name	Source
WICKLOW	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Conduct Farm Surveys	AGR
WICKLOW	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
WICKLOW	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Soiled water generation minimisation practises	AGR-PS
WICKLOW	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
WICKLOW	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Nutrient management	Manure
WICKLOW	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
WICKLOW	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Reduce water demand through improved conservation, plumbing code changes, reduce unaccounted for water, rainwater harvesting, domestic water metering, universal water charging, or restricting development where water resources are over-subscribed	Proposed	ABS
WICKLOW	Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing S.U.D schemes in developed areas, implementation of abstraction controls, use of additional storage or alternative water source	Proposed	ABS
WICKLOW	Record daily abstraction rates	Proposed	ABS
WICKLOW	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
WICKLOW	In flow regulated rivers, establish guidance on flow variations to support ecology	Proposed	ABS
WICKLOW	Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms	Proposed	ABS
WICKLOW	Develop Habitat Suitability Curves for salmonids in Irish Rivers	Proposed	ABS
WICKLOW	Restrict Cattle Access to rivers - Create Cattle Drinking points	Supplementary	AGR-PS
WICKLOW	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
WICKLOW	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Treatment of Mine Discharge	Supplementary	DS
WICKLOW	Forest Service - Forestry and Water Quality Guidelines	Guidance	FOR
WICKLOW	Introduce Soft Edges to Inferior Habitats	Supplementary	MORP
WICKLOW	Facilitate Fish Migration	Supplementary	MORP
WICKLOW	Inspections and Upgrades	Supplementary	Septic
WICKLOW	Diffuse Runoff (Urban) - Street Cleaning Programme	Supplementary	U-DIFF
WICKLOW	Upgrade WWTW <2000 PE	Supplementary	WWTP

Appendix 3:

Proposed Programme of Measures Lakes



Proposed Programme of Measures

– Basic Measures for Lakes

Local Authority	WMU	Parent ID Name	MeasureName	Source
WICKLOW	Dan (Lough)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Dan (Lough)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Dan (Lough)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Dan (Lough)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Dan (Lough)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Dan (Lough)	Framework for Major Emergency Management, Office of Emergency Planning, 2006	Framework for Major Emergency Management, Office of Emergency Planning, 2006	DS
WICKLOW	Dan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	ECO
WICKLOW	Dan (Lough)	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WICKLOW	Dan (Lough)	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
WICKLOW	Dan (Lough)	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
WICKLOW	Dan (Lough)	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WICKLOW	Glendalough Lower Lake	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Glendalough Lower Lake	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Glendalough Lower Lake	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Glendalough Lower Lake	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Glendalough Lower Lake	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Glendalough Lower Lake	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
WICKLOW	Glendalough Lower Lake	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

Proposed Programme of Measures – Basic Measures for Lakes (cont.)

Local Authority	WMU	Parent ID Name	MeasureName	Source
WICKLOW	Glendalough Lower Lake	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	DS
WICKLOW	Glendalough Lower Lake	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
WICKLOW	Glendalough Lower Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	ECO
WICKLOW	Glendalough Lower Lake	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WICKLOW	Glendalough Lower Lake	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
WICKLOW	Glendalough Lower Lake	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WICKLOW	Glendalough Upper Lake	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Glendalough Upper Lake	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Glendalough Upper Lake	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Glendalough Upper Lake	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Glendalough Upper Lake	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Glendalough Upper Lake	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
WICKLOW	Glendalough Upper Lake	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
WICKLOW	Glendalough Upper Lake	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	DS
WICKLOW	Glendalough Upper Lake	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
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO

Proposed Programme of Measures – Basic Measures for Lakes (cont.)

Local Authority	WMU	Parent ID Name	MeasureName	Source
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Reintroduce native species; licence introduction of non native species	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO
WICKLOW	Glendalough Upper Lake	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
WICKLOW	Glendalough Upper Lake	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WICKLOW	Nahanagan (Lough)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Nahanagan (Lough)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Nahanagan (Lough)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Nahanagan (Lough)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Nahanagan (Lough)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Nahanagan (Lough)	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO
WICKLOW	Nahanagan Upper	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Nahanagan Upper	Water Supplies Act 1942	Water Supplies Act 1942	ABS

Proposed Programme of Measures – Basic Measures for Lakes (cont.)

Local Authority	WMU	Parent ID Name	MeasureName	Source
WICKLOW	Nahanagan Upper	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Nahanagan Upper	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Nahanagan Upper	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Nahanagan Upper	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	ECO
WICKLOW	Nahanagan Upper	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WICKLOW	Nahanagan Upper	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
WICKLOW	Nahanagan Upper	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
WICKLOW	Ouler (Lough)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Ouler (Lough)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Ouler (Lough)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Ouler (Lough)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Ouler (Lough)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
WICKLOW	Ouler (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	ECO
WICKLOW	Ouler (Lough)	EC (Natural Habitats) Regulations 1997- 2005	EC (Natural Habitats) Regulations 1997- 2005	ECO
WICKLOW	Tay (Lough)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
WICKLOW	Tay (Lough)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
WICKLOW	Tay (Lough)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
WICKLOW	Tay (Lough)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
WICKLOW	Tay (Lough)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS

Proposed Programme of Measures – Basic Measures for Lakes (cont.)

Local Authority	WMU	Parent ID Name	MeasureName	Source
WICKLOW	Tay (Lough)	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
WICKLOW	Tay (Lough)	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
WICKLOW	Tay (Lough)	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	DS
WICKLOW	Tay (Lough)	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
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO
WICKLOW	Tay (Lough)	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
WICKLOW	Tay (Lough)	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure

Proposed Programme of Measures

– Supplementary Measures for Lakes

Local Authority	WMU Name	Measure Name	Measure Type	Source
WICKLOW	Tay (Lough)	Forest Service - Forestry and Water Quality Guidelines	Proposed	FOR
WICKLOW	Glendalough Lower Lake	Forest Service - Forestry and Water Quality Guidelines	Supplementary	FOR
WICKLOW	Glendalough Upper Lake	Forest Service - Forestry and Water Quality Guidelines	Supplementary	FOR
WICKLOW	Tay (Lough)	Forest Service - Forestry and Aerial Fertilisation Guidelines	Proposed	Manure
WICKLOW	Glendalough Lower Lake	Forest Service - Forestry and Aerial Fertilisation Guidelines	Supplementary	Manure
WICKLOW	Glendalough Upper Lake	Forest Service - Forestry and Aerial Fertilisation Guidelines	Proposed	Manure
WICKLOW	Glendalough Lower Lake	Forest Service - Protocall on acid sensitive areas	Supplementary	FOR
WICKLOW	Glendalough Upper Lake	Forest Service - Protocall on acid sensitive areas	Supplementary	FOR
WICKLOW	Tay (Lough)	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Supplementary	FOR
WICKLOW	Glendalough Lower Lake	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Supplementary	FOR
WICKLOW	Glendalough Upper Lake	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Proposed	FOR
WICKLOW	Glendalough Lower Lake	Updated Protocol on Acid sensitive areas based on updated acid sensitive areas map and research	Proposed	FOR

Proposed Programme of Measures

– Supplementary Measures for Lakes (cont.)

Local Authority	WMU Name	Measure Name	Measure Type	Source
WICKLOW	Glendalough Upper Lake	Updated Protocol on Acid sensitive areas based on updated acid sensitive areas map and research	Supplementary	FOR
WICKLOW	Tay (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Nahanagan (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Dan (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Glendalough Lower Lake	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Supplementary	ABS
WICKLOW	Ouler (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Glendalough Upper Lake	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Supplementary	ABS
WICKLOW	Nahanagan Upper	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Supplementary	ABS
WICKLOW	Nahanagan Upper	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Tay (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS

Proposed Programme of Measures

– Supplementary Measures for Lakes (cont.)

Local Authority	WMU Name	Measure Name	Measure Type	Source
WICKLOW	Nahanagan (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Supplementary	ABS
WICKLOW	Dan (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Supplementary	ABS
WICKLOW	Glendalough Lower Lake	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Supplementary	ABS
WICKLOW	Ouler (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Glendalough Upper Lake	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Nahanagan (Lough)	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP
WICKLOW	Ouler (Lough)	Evaluate Bog Impact	Supplementary	Manure
WICKLOW	Tay (Lough)	Further Investigate cause of failure	Proposed	DATA+
WICKLOW	Dan (Lough)	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Glendalough Lower Lake	Further Investigate cause of failure	Proposed	DATA+
WICKLOW	Tay (Lough)	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Nahanagan (Lough)	Survey Banks/Coast	Supplementary	DATA+

Appendix 4:

Alternative Programme of Measures Lakes



Alternative Programme of Measures

– Basic Measures for Lakes

Local Authority	WMU	Measure Name	Sub-Measure Name	Source
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
WICKLOW	Nahanagan (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
WICKLOW	Nahanagan (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
WICKLOW	Tay (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
WICKLOW	Nahanagan (Lough)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
WICKLOW	Glendalough Upper Lake	EC (Natural Habitats) Regulations 1997- 2005	Reintroduce native species; licence introduction of non native species	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
WICKLOW	Tay (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO
WICKLOW	Nahanagan (Lough)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO
WICKLOW	Glendalough Upper Lake	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Prosecute those who do not protect wild birds, their nests or eggs	ECO

Alternative Programme of Measures – Supplementary Measures for Lakes

Local Authority	WMU	Measure Name	Measure Type	Source
WICKLOW	Tay (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Nahanagan (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Dan (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Glendalough Lower Lake	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Ouler (Lough)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Glendalough Upper Lake	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Nahanagan Upper	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
WICKLOW	Tay (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Nahanagan (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Dan (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Glendalough Lower Lake	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Ouler (Lough)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS

Alternative Programme of Measures

– Supplementary Measures for Lakes (cont.)

Local Authority	WMU	Measure Name	Measure Type	Source
WICKLOW	Glendalough Upper Lake	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Nahanagan Upper	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
WICKLOW	Tay (Lough)	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Dan (Lough)	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Glendalough Lower Lake	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Tay (Lough)	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Nahanagan (Lough)	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Glendalough Upper Lake	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Tay (Lough)	Forest Service - Forestry and Water Quality Guidelines	Guidance	FOR
WICKLOW	Glendalough Lower Lake	Forest Service - Forestry and Water Quality Guidelines	Guidance	FOR
WICKLOW	Glendalough Upper Lake	Forest Service - Forestry and Water Quality Guidelines	Guidance	FOR
WICKLOW	Glendalough Lower Lake	Forest Service - Protocall on acid sensitive areas	Guidance	FOR
WICKLOW	Glendalough Upper Lake	Forest Service - Protocall on acid sensitive areas	Guidance	FOR

Alternative Programme of Measures

– Supplementary Measures for Lakes (cont.)

Local Authority	WMU	Measure Name	Measure Type	Source
WICKLOW	Tay (Lough)	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Proposed	FOR
WICKLOW	Glendalough Lower Lake	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Proposed	FOR
WICKLOW	Glendalough Upper Lake	Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol.	Proposed	FOR
WICKLOW	Glendalough Lower Lake	Updated Protocol on Acid sensitive areas based on updated acid sensitive areas map and research	Proposed	FOR
WICKLOW	Glendalough Upper Lake	Updated Protocol on Acid sensitive areas based on updated acid sensitive areas map and research	Proposed	FOR
WICKLOW	Tay (Lough)	Forest Service - Forestry and Aerial Fertilisation Guidelines	Guidance	Manure
WICKLOW	Glendalough Lower Lake	Forest Service - Forestry and Aerial Fertilisation Guidelines	Guidance	Manure
WICKLOW	Glendalough Upper Lake	Forest Service - Forestry and Aerial Fertilisation Guidelines	Guidance	Manure
WICKLOW	Nahanagan (Lough)	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP