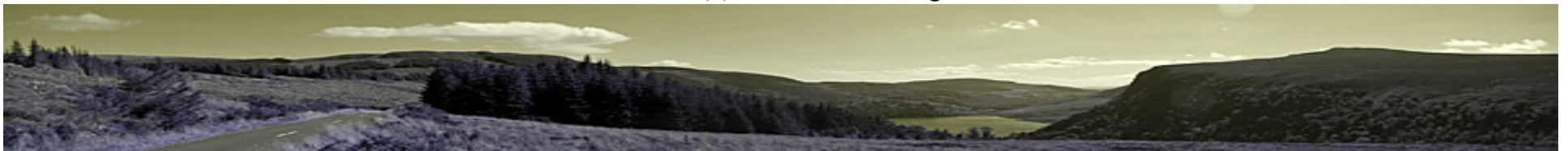


Draft Programme of Measures

Dodder 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. Alternative Objectives
 9. What happens next?
 10. What can you do?

Appendix 1-4: Programme of Measures



Document Control Sheet

Project	Eastern River Basin District			
Report	Draft - Dodder - 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

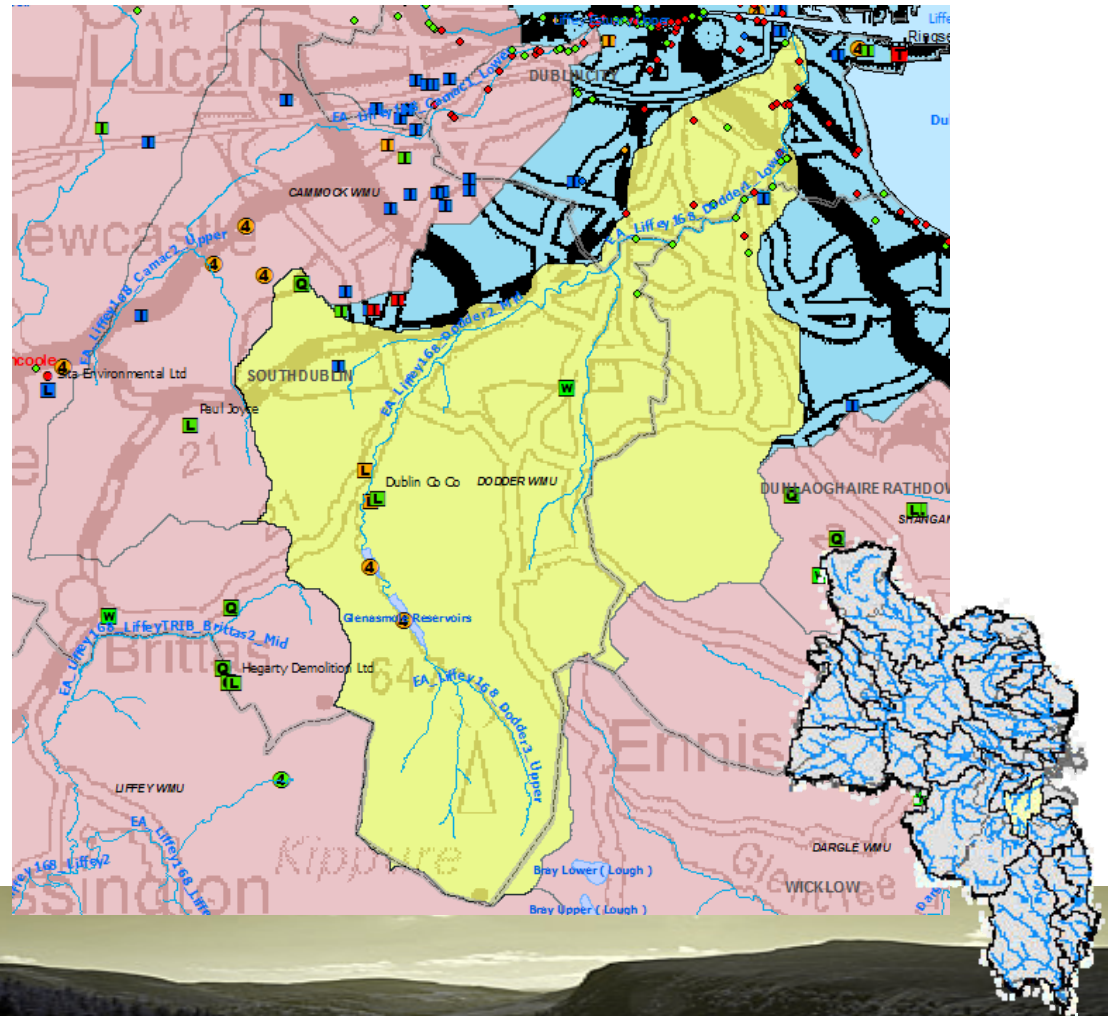
- ❑ The Draft River Basin Management Plan was published on the 22nd December 2008 for Public Consultation.
- ❑ This Programme of Measures accompanies the River Basin Management Plan created for the Eastern River Basin District.
- ❑ The River Basin Management Plan can be downloaded from the website, whilst 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: 68% South Dublin, 22% Dun Laoghaire-Rathdone, 9% Dublin City, 2% Wicklow
- ❑ River Length: 47 km
- ❑ Total Lake area: 0.27 km²
- ❑ HMWB and AWB: River Dodder, Glenasmole Reservoirs Lower, Glenasmole Reservoirs Upper
- ❑ Land use: Predominantly land-use is urban
 - urban populations cover 41% of the area for example at Dundrum and Ballyboden.
 - 23% Bogs
 - 17% Pasture



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			

Status of Water

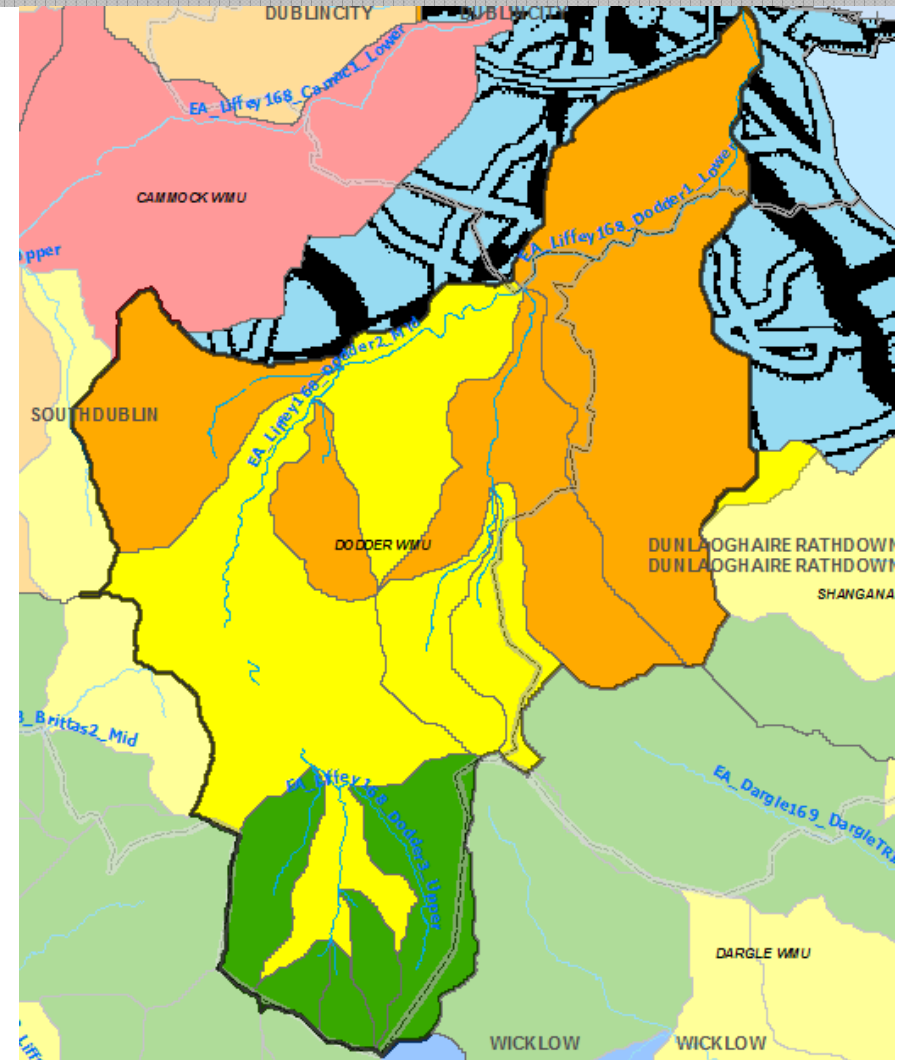
The existing condition of our waters was determined by the Environmental Protection Agency using water quality, ecology and morphology monitoring data.

River Status:

Good	42%
Moderate	25%
Poor	33%

Lake Status:

Good	100%
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The percentage status is determined by the number of reportable segments or sub basins. For this reason the percentage might not seem representative.

Objectives

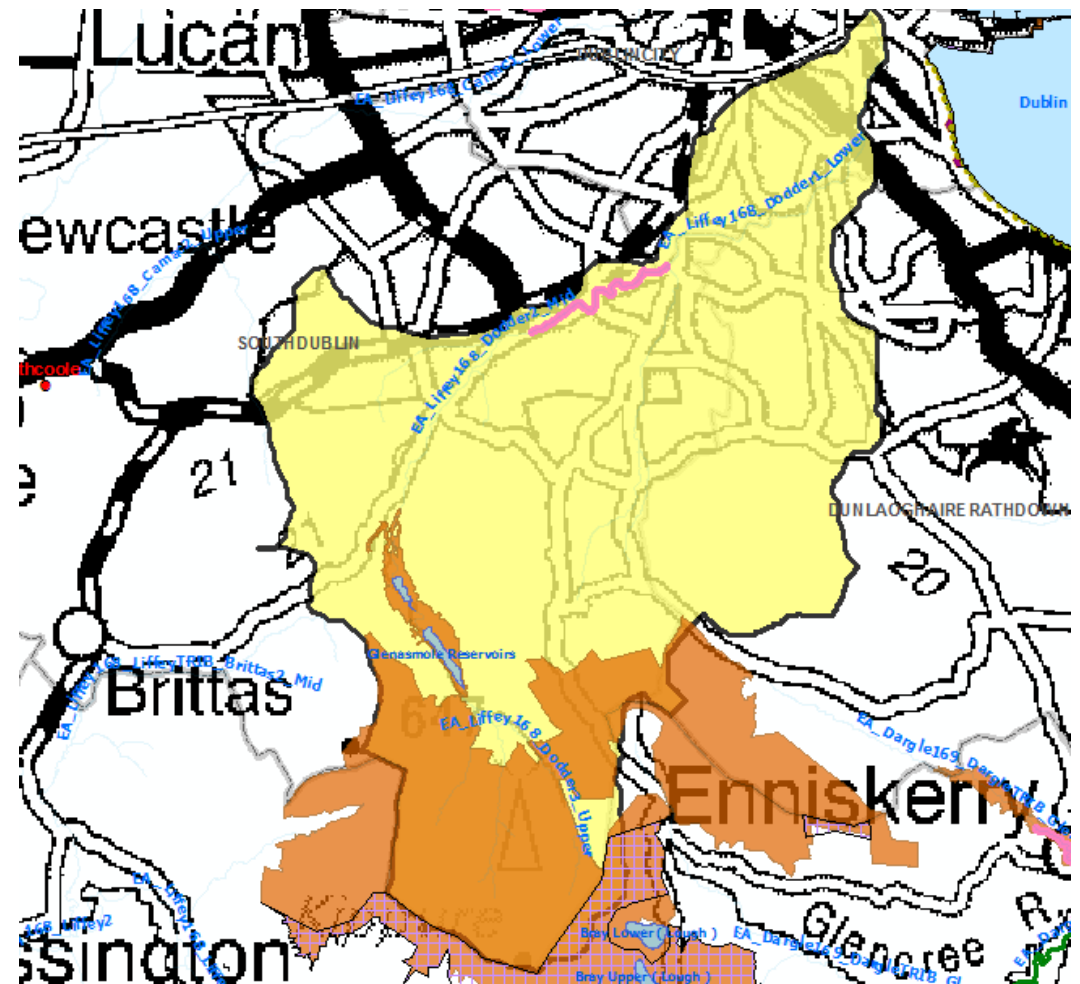
- ❑ Waters must be of satisfactory quality and sufficient quantity to protect the aquatic environment and its beneficial uses.
- ❑ We have four core objectives:
 1. Prevent deterioration and in particular maintain High or Good Status
 2. Improve waters to achieve Good Status where appropriate
 3. Progressively 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 Dodder,
Special Protected Areas (1)	✓	Wicklow Mountains
Special Areas of Conservation (Habitat) (2)	✓	Wicklow Mountains, Glensmole Valley
Nutrient Sensitive Areas (1)	✓	Liffey Estuary
National Heritage Areas	✓	Grand Canal, Fitzsimon'S Wood, Dodder Valley, Glensmole Valley



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 the Dodder the problems are:

- Low Ecological Rating
- Risk of over abstraction
- Heavily modified channels

What could be causing these problems?

- ❑ The source of the Dodder is in the Wicklow mountains within the South Dublin County Council boundary. It is collected in the Glenasmole reservoirs before flowing down to the city centre and discharging in the Liffey Estuary.
- ❑ In South Dublin there is no main source of pressure identified with a number of factors contributing. Agriculture and Septic Tanks in the upper catchment and urban areas impacting further down.
- ❑ A small stream enters the Dodder from County Dun Laoghaire in Dublin. The principal issue here is domestic and non-domestic buildings which have misconnected foul sewers to rivers.
- ❑ In Dublin the principal pressure is again thought to be misconnections and Combined Sewer Overflows (wastewater discharge).
- ❑ The Dodder and the Glensamole Reservoirs have been designated as Heavily Modified. This is addressed in later slides

Pressure	County	% Contribution
Agriculture	DLRCC	2
	South Dublin	20
Usage and Discharge of Dangerous Substances	DLRCC	1
	South Dublin	5
Forestry	DLRCC	3
	South Dublin	15
Landfills, Quarries, Mines and Contaminated Lands	DLRCC	9
Wastewater and Industrial Discharges	Dublin City	100
	DLRCC	80
	South Dublin	45
Wastewater from Unsewered Properties	DLRCC	5
	South Dublin	15

Morphology	DLRCC South Dublin Wicklow Dublin City	HMWB
Abstraction	DLRCC Dublin City South Dublin	HMWB

All percentages are estimated based on available data, analysis and expert judgement.

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 necessarily select 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
GSDSDS Compliance - CSOs
Investigate and eliminate misconnections
Diffuse Runoff (Urban) - Street Cleaning Programme
CSO - Upgrades and Rehabilitation
Diffuse Runoff (Urban) - Storm Sewers Separation (Screening & Treatment)
Preservation and/or restoration of the bank
Introduce Soft Edges to Inferior Habitats
Further Investigate cause of failure
Facilitate Fish Migration
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

- ❑ *Glenasmole Reservoirs*
- ❑ Basic Measures – Full Implementation of all Basic Measures (2010-2015)

Supplementary Measures - <i>Glenasmole Reservoirs</i>
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
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
Survey Banks/Coast
For sites not at Favourable conservation Status Set targets and timeframe for achieving status
Further Research on Abstraction Pressure effects on lake ecology (national)
Develop Guidance on suite of measures for different habitats
Investigate implementing smaller water schemes to reduce demand on other resources
Collect daily abstraction rates and compensation flow releases
Collect daily water level
Record daily abstraction rates

Alternative Programme of Measures – Basic Measures

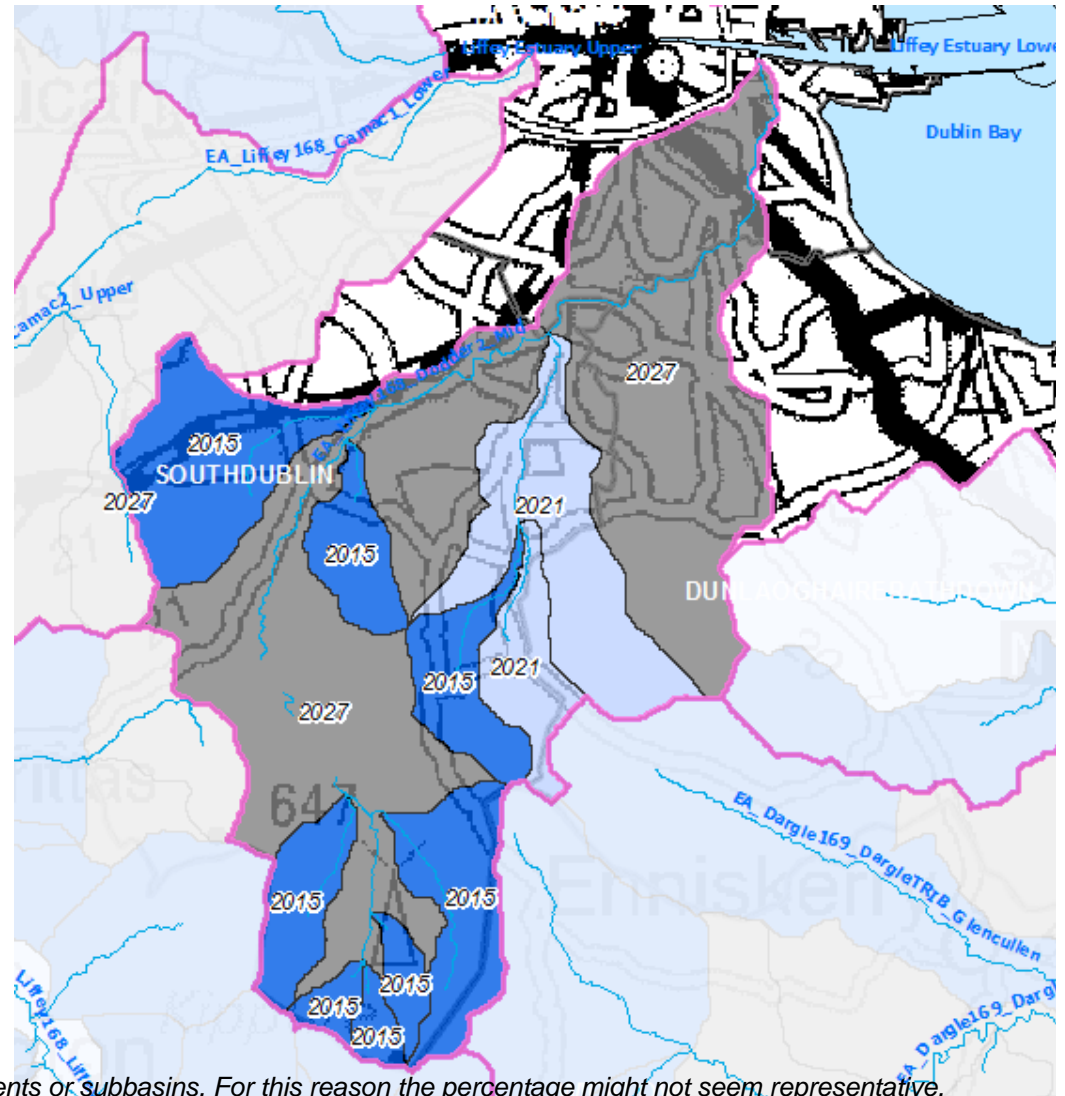
We have prepared an Alternative Programme of Measures for comparison. This Programme of Measures selects the measures to prioritise for implementation during the first 6 year plan that are thought to be most effective, but still aims to achieve Good Status as early as possible

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.
- ❑ The main pressure preventing achievement of Good Status is thought to be Urban diffuse pollution. Full implementation of the measures is expected to correct this, however recovery time will mean that some rivers will not achieve Good Status before 2015.

2015	67%
2021	83%
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:
 - Navigation
 - Water storage
 - Public supply
 - Flood defences
 - Land drainage.
- ❑ These waterbodies are called ***Heavily Modified***. This designation recognises that the waterbody 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 Waterbody Status and Measures

Heavily Modified Water Bodies

River Dodder

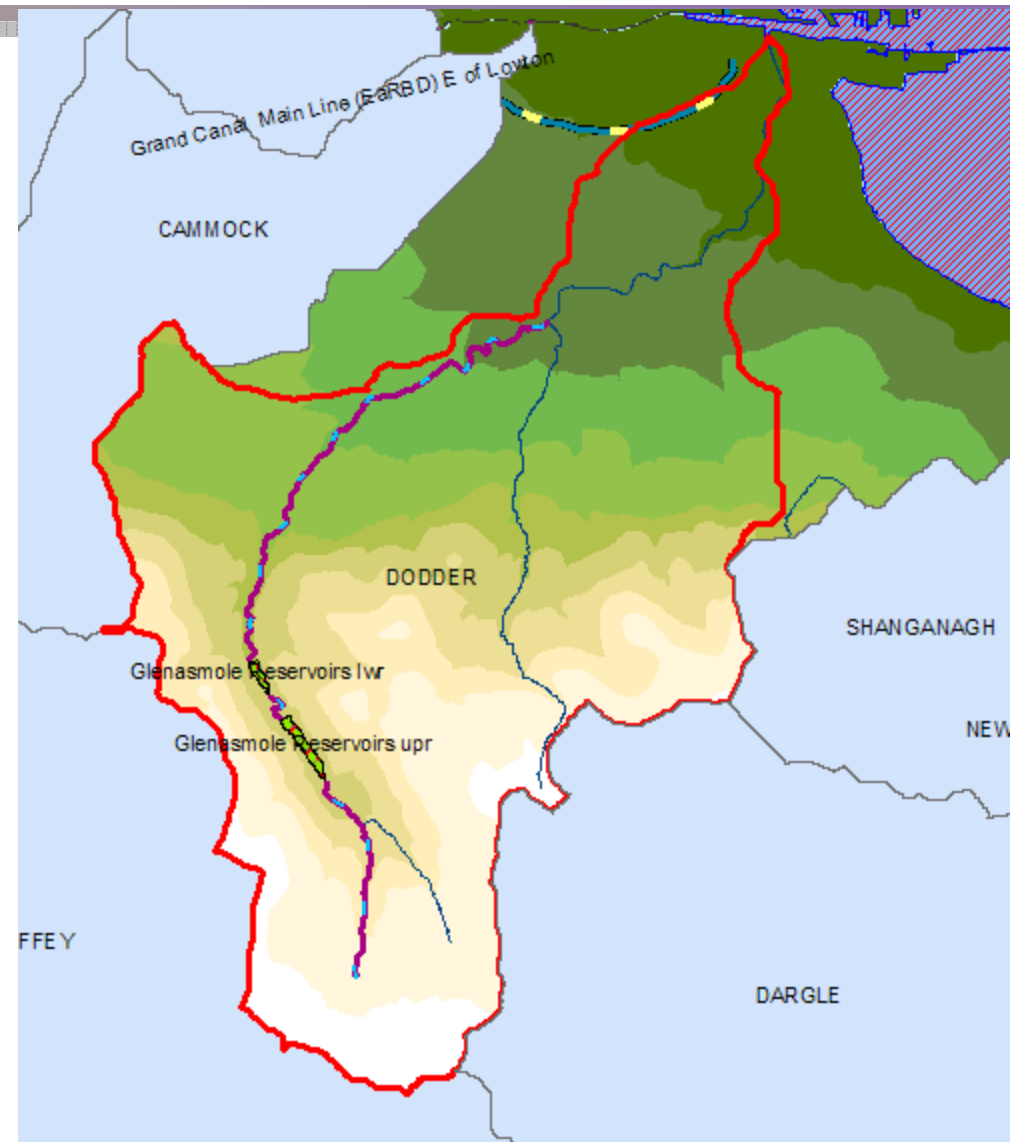
- ❑ **Reason for designation:** Flood Defences, multiple weirs, reservoirs
- ❑ **Status:** Less than Good
- ❑ **Measures:** Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone
- ❑ **Measures for Waterbodies downstream of Reservoirs:** Determine if compensation flow can be set considering flood protection requirements. In the first cycle examine any weirs or obsolete structures to assess their impact on ecology.

Glenasmole Reservoir Upper

- ❑ **Reason for designation:** Impoundment for drinking water supply
- ❑ **Status:** Meets equivalent potential standard
- ❑ **Measures:** None identified

Glenasmole Reservoir Lower

- ❑ **Reason for designation:** Impoundment for drinking water supply
- ❑ **Status:** Meets equivalent potential standard
- ❑ **Measures:** None identified



Artificial Waterbody Status and Measures






Artificial Water Bodies

Grand Canal Basin

- Reason for designation:** Man-made Canal
- Status:** Poor Status
- Measures:** Elimination of Surface Water Outfalls where possible, Appropriate controls on diffuse pollution



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 River



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
DLRCC	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
DLRCC	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
DLRCC	Water Supplies Act 1942	Water Supplies Act 1942	ABS
DLRCC	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 528 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 528 of 2007)	AGR
DLRCC	Bathing Water Quality Regulations (S.I. 79 of 2008)	Bathing Water Quality Regulations (S.I. 79 of 2008)	CROSS
DLRCC	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
DLRCC	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
DLRCC	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	CROSS
DLRCC	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
DLRCC	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
DLRCC	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
DLRCC	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
DLRCC	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
DLRCC	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
DLRCC	Water Quality Dangerous Substances Regulations, 2001	Water Quality Dangerous Substances Regulations, 2001	DS
DLRCC	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
DLRCC	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
DLRCC	Framework for Major Emergency Management, Office of Emergency Planning, 2006	Framework for Major Emergency Management, Office of Emergency Planning, 2006	DS
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
DLRCC	Fisheries Act 1959 - 1981	Prohibit works in river channels during fisheries close season.	ECO

Proposed Programme of Measures

– Basic Measures for Rivers continued

Local Authority	Parent ID Name	MeasureName	Source
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Assess effects of a proposed development on a protected site before granting planning permission	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Determine priority species (Fauna and Flora) to protect	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Reintroduce native species; licence introduction of non native species	ECO
DLRCC	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
DLRCC	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
DLRCC	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
DLRCC	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
DLRCC	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
DLRCC	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
DLRCC	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
DLRCC	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
DLRCC	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
DLRCC	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
DLRCC	Water Services Act 2007	Water Services Act 2007	WWTP
DUBLINCITY	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
DUBLINCITY	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
DUBLINCITY	Water Supplies Act 1942	Water Supplies Act 1942	ABS
DUBLINCITY	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
DUBLINCITY	Bathing Water Quality Regulations (S.I. 79 of 2008)	Bathing Water Quality Regulations (S.I. 79 of 2008)	CROSS
DUBLINCITY	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS

Proposed Programme of Measures

– Basic Measures for Rivers continued

Local Authority	Parent ID Name	MeasureName	Source
DUBLINCITY	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
DUBLINCITY	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	CROSS
DUBLINCITY	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
DUBLINCITY	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
DUBLINCITY	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
DUBLINCITY	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
DUBLINCITY	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
DUBLINCITY	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
DUBLINCITY	Water Quality Dangerous Substances Regulations, 2001	Water Quality Dangerous Substances Regulations, 2001	DS
DUBLINCITY	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
DUBLINCITY	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
DUBLINCITY	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
DUBLINCITY	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
DUBLINCITY	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
DUBLINCITY	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
DUBLINCITY	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
DUBLINCITY	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
DUBLINCITY	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
DUBLINCITY	Water Services Act 2007	Water Services Act 2007	WWTP

Proposed Programme of Measures

– Basic Measures for Rivers continued

Local Authority	Parent ID Name	MeasureName	Source
SOUTH DUBLIN	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
SOUTH DUBLIN	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
SOUTH DUBLIN	Water Supplies Act 1942	Water Supplies Act 1942	ABS
SOUTH DUBLIN	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 528 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 528 of 2007)	AGR
SOUTH DUBLIN	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
SOUTH DUBLIN	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
SOUTH DUBLIN	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
SOUTH DUBLIN	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
SOUTH DUBLIN	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
SOUTH DUBLIN	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
SOUTH DUBLIN	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
SOUTH DUBLIN	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
SOUTH DUBLIN	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
SOUTH DUBLIN	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
SOUTH DUBLIN	Water Services Act 2007	Water Services Act 2007	WWTP

Proposed Programme of Measures – Supplementary for Rivers Measures

Local Authority	Measure Name	Measure Type	Source
DLRCC	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
DLRCC	Fresh Water Pearl Regulations	Proposed	ECO
DLRCC	NPWS to develop Guidance documents for Article 6 Assessments	Proposed	HS
DLRCC	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DLRCC	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
DLRCC	GSDS Compliance - CSOs	Supplementary	WWTP
DLRCC	Investigate and eliminate misconnections	Supplementary	WWTP
DLRCC	Introduce Soft Edges to Inferior Habitats	Supplementary	MORP
DLRCC	Preservation and/or restoration of the bank	Supplementary	MORP
DLRCC	Facilitate Fish Migration	Supplementary	MORP
DLRCC	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP
DLRCC	NPWS to develop and maintain a Webserver based register of designated sites accessible to LA, State Agencies, Stakeholders	Supplementary	HS
DLRCC	River Polishing - Reed Bed	Supplementary	CROSS
DLRCC	Survey Banks/Coast	Supplementary	DATA+
DLRCC	Morphology - Physical Modifications Campaign	Supplementary	MORP
DLRCC	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Supplementary	HS
DLRCC	Develop Guidance on suite of measures for different habitats	Supplementary	HS
DLRCC	Address diffuse silt pollution from green field site development	Supplementary	MORP
DLRCC	Survey Banks/Coast	Supplementary	DATA+
DUBLINCITY	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
DUBLINCITY	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DUBLINCITY	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
DUBLINCITY	Implement Upstream Programmes of Measures	Proposed	CROSS
DUBLINCITY	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
DUBLINCITY	Diffuse Runoff (Urban) - Storm Sewers Separation (Screening & Treatment)	Supplementary	U-DIFF
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	CSO - Network Management & Operations Programme	Supplementary	WWTP
DUBLINCITY	Investigate and eliminate misconnections	Supplementary	WWTP
DUBLINCITY	Introduce Soft Edges to Inferior Habitats	Supplementary	MORP
DUBLINCITY	Preservation and/or restoration of the bank	Supplementary	MORP
DUBLINCITY	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP

Proposed Programme of Measures

– Supplementary for Rivers Measures continued

Local Authority	Measure Name	Measure Type	Source
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Survey Banks/Coast	Supplementary	DATA+
DUBLINCITY	Diffuse Runoff (Urban) - Implement SUDS	Supplementary	U-DIFF
DUBLINCITY	Diffuse Runoff (Urban) - Gullies Management	Supplementary	U-DIFF
DUBLINCITY	Diffuse Runoff (Urban) - Street Cleaning Programme	Supplementary	U-DIFF
SOUTH DUBLIN	Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms	Guidance	ABS
SOUTH DUBLIN	Develop Habitat Suitability Curves for salmonids in Irish Rivers	Guidance	ABS
SOUTH DUBLIN	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
SOUTH DUBLIN	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	In flow regulated rivers, establish guidance on flow variations to support ecology	Proposed	ABS
SOUTH DUBLIN	Record daily abstraction rates	Proposed	ABS
SOUTH DUBLIN	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
SOUTH DUBLIN	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTH DUBLIN	Diffuse Runoff (Urban) - Street Cleaning Programme	Supplementary	U-DIFF
SOUTH DUBLIN	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
SOUTH DUBLIN	Investigate and eliminate misconnections	Supplementary	WWTP
SOUTH DUBLIN	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
SOUTH DUBLIN	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
SOUTH DUBLIN	Facilitate Fish Migration	Supplementary	MORP
SOUTH DUBLIN	Further Investigate cause of failure	Supplementary	DATA+
SOUTH DUBLIN	Further Investigate cause of failure	Supplementary	DATA+
WICKLOW	Survey Banks/Coast	Proposed	DATA+
WICKLOW	Further Investigate cause of failure	Proposed	DATA+

Appendix 2:

Alternative Programme of Measures River



Alternative Programme of Measures – Basic Measures for Rivers

Local Authority	Measure Name	Sub-Measure Name	Source
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
DLRCC	Fisheries Act 1959 - 1981	Prohibit works in river channels during fisheries close season.	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Assess effects of a proposed development on a protected site before granting planning permission	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Determine priority species (Fauna and Flora) to protect	ECO
DLRCC	EC (Natural Habitats) Regulations 1997- 2005	Reintroduce native species; licence introduction of non native species	ECO
DLRCC	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
DLRCC	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
DLRCC	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
SOUTH DUBLIN	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Conduct Farm Surveys	AGR
SOUTH DUBLIN	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
SOUTH DUBLIN	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
SOUTH DUBLIN	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	After an accident, operator should take all necessary measures to clear up any pollution caused.	DS
SOUTH DUBLIN	EPA (Licensing) Regulations, 1994 & 2004	Upgrade IPPC licensed facilities waste management structures and practices to best available technology	IPPC
SOUTH DUBLIN	EPA (Licensing) Regulations, 1994 & 2004	Grant and refuse IPPC licences subject to set-limits to reduce pollution effects	IPPC

Alternative Programme of Measures – Basic Measures for Rivers continued

Local Authority	Measure Name	Sub-Measure Name	Source
SOUTH DUBLIN	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 12s	S4
SOUTH DUBLIN	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4
SOUTH DUBLIN	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 16s	S4



Alternative Programme of Measures – Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
DLRCC	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
DLRCC	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DLRCC	River Polishing - Reed Bed	Supplementary	CROSS
DLRCC	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
DLRCC	Survey Banks/Coast	Supplementary	DATA+
DLRCC	Survey Banks/Coast	Supplementary	DATA+
DLRCC	Fresh Water Pearl Regulations	Proposed	ECO
DLRCC	NPWS to develop and maintain a Webserver based register of designated sites accessible to LA, State Agencies, Stakeholders	Proposed	HS
DLRCC	NPWS to develop Guidance documents for Article 6 Assessments	Proposed	HS
DLRCC	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Proposed	HS
DLRCC	Develop Guidance on suite of measures for different habitats	Proposed	HS
DLRCC	Morphology - Physical Modifications Campaign	Proposed	MORP
DLRCC	Introduce Soft Edges to Inferior Habitats	Supplementary	MORP
DLRCC	Facilitate Fish Migration	Supplementary	MORP
DLRCC	Preservation and/or restoration of the bank	Supplementary	MORP
DLRCC	Address diffuse silt pollution from green field site development	Supplementary	MORP
DLRCC	GSDS Compliance - CSOs	Supplementary	WWTP
DLRCC	Investigate and eliminate misconnections	Supplementary	WWTP
DLRCC	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP
DUBLINCITY	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS

Alternative Programme of Measures

– Supplementary Measures for rivers continued

Local Authority	Measure Name	Measure Type	Source
DUBLINCITY	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DUBLINCITY	Implement Upstream Programmes of Measures	Supplementary	CROSS
DUBLINCITY	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Survey Banks/Coast	Supplementary	DATA+
DUBLINCITY	Introduce Soft Edges to Inferior Habitats	Supplementary	MORP
DUBLINCITY	Preservation and/or restoration of the bank	Supplementary	MORP
DUBLINCITY	Investigate and eliminate misconnections	Supplementary	WWTP
DUBLINCITY	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP
DUBLINCITY	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
DUBLINCITY	CSO - Network Management & Operations Programme	Supplementary	WWTP
SOUTH DUBLIN	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTH DUBLIN	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
SOUTH DUBLIN	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
SOUTH DUBLIN	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

Alternative Programme of Measures

– Supplementary Measures for Rivers continued

Local Authority	Measure Name	Measure Type	Source
SOUTH DUBLIN	Record daily abstraction rates	Proposed	ABS
SOUTH DUBLIN	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	In flow regulated rivers, establish guidance on flow variations to support ecology	Proposed	ABS
SOUTH DUBLIN	Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms	Proposed	ABS
SOUTH DUBLIN	Develop Habitat Suitability Curves for salmonids in Irish Rivers	Proposed	ABS
SOUTH DUBLIN	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
SOUTH DUBLIN	Further Investigate cause of failure	Supplementary	DATA+
SOUTH DUBLIN	Further Investigate cause of failure	Supplementary	DATA+
SOUTH DUBLIN	Facilitate Fish Migration	Supplementary	MORP
SOUTH DUBLIN	Diffuse Runoff (Urban) - Street Cleaning Programme	Supplementary	U-DIFF
SOUTH DUBLIN	Investigate and eliminate misconnections	Supplementary	WWTP
SOUTH DUBLIN	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
WICKLOW	Survey Banks/Coast	Supplementary	DATA+
WICKLOW	Further Investigate cause of failure	Supplementary	DATA+

Appendix 3:

Proposed Programme of Measures Lakes



Proposed Programme of Measures

– Basic Measures for Lakes

Local Authority	WMU	Parent ID Name	MeasureName	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Enforce National Action Programme	AGR
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Water Quality Dangerous Substances Regulations, 2001	Implement Measures in Dangerous Substances Reports	DS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO

Proposed Programme of Measures

– Basic Measures for Lakes continued

Local Authority	WMU	Parent ID Name	MeasureName	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Water Services Act 2007	Water Services Act 2007	WWTP
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Water Supplies Act 1942	Water Supplies Act 1942	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Enforce National Action Programme	AGR
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS

Proposed Programme of Measures

– Basic Measures for Lakes continued

Local Authority	WMU	Parent ID Name	MeasureName	Source
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Water Quality Dangerous Substances Regulations, 2001	Water Quality Dangerous Substances Regulations, 2001	DS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Water Services Act 2007	Water Services Act 2007	WWTP

Proposed Programme of Measures

– Supplementary for Lakes Measures

Local Authority	WMU Name	Measure Name	Measure Type	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Further Research on Abstraction Pressure effects on lake ecology (national)	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Further Research on Abstraction Pressure effects on lake ecology (national)	Supplementary	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Develop Guidance on suite of measures for different habitats	Supplementary upplementary	HS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Develop Guidance on suite of measures for different habitats	Proposed	HS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Collect daily abstraction rates and compensation flow releases	Guidance	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Collect daily abstraction rates and compensation flow releases	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Collect daily water level	Guidance	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Collect daily water level	Supplementary	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Record daily abstraction rates	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Record daily abstraction rates	Supplementary	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS

Proposed Programme of Measures

– Supplementary for Lakes Measures continued

Local Authority	WMU Name	Measure Name	Measure Type	Source
SOUTHDUBLIN	Glenasmole Reservoirs (070)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
SOUTHDUBLIN	Glenasmole Reservoirs (068)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTHDUBLIN	Glenasmole Reservoirs (070)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTHDUBLIN	Glenasmole Reservoirs (068)	Apply Heavily Modified Waterbody Measures (See External Document)	Proposed	MORP
SOUTHDUBLIN	Glenasmole Reservoirs (070)	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP
SOUTHDUBLIN	Glenasmole Reservoirs (068)	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
SOUTHDUBLIN	Glenasmole Reservoirs (070)	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

Proposed Programme of Measures

– Supplementary for Lakes Measures continued

Local Authority	WMU Name	Measure Name	Measure Type	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Survey Banks/Coast	Proposed	DATA+
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Survey Banks/Coast	Proposed	DATA+
SOUTH DUBLIN	Glenasmole Reservoirs (068)	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Supplementary	HS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Proposed	HS

Appendix 4:

Alternative Programme of Measures



Alternative Programme of Measures – Basic Measures for Lakes

Local Authority	WMU	Measure Name	Sub-Measure Name	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Enforce National Action Programme	AGR
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Enforce National Action Programme	AGR
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Manage, conserve, restore or protect sites	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Select sites for identification as sites of community importance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Natural Habitats) Regulations 1997- 2005	Survey conservation status of the natural habitats and species	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Designate protected areas	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (070)	EC (Conservation of Wild Birds) Regulations and amendments (S.I. 291 of 1985 onwards)	Preserve protected areas against pollution deterioration and disturbance	ECO
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4

Alternative Programme of Measures – Basic Measures for Lakes continued

Local Authority	WMU	Measure Name	Sub-Measure Name	Source
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4

Alternative Programme of Measures – Supplementary Measures for Lakes

Local Authority	WMU	Measure Name	Measure Type	Source
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Collect daily abstraction rates and compensation flow releases	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Collect daily abstraction rates and compensation flow releases	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Collect daily water level	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Collect daily water level	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	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
SOUTH DUBLIN	Glenasmole Reservoirs (070)	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
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Record daily abstraction rates	Proposed	ABS

Alternative Programme of Measures

– Supplementary Measures for Lakes continued

Local Authority	WMU	Measure Name	Measure Type	Source
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Record daily abstraction rates	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Further Research on Abstraction Pressure effects on lake ecology (national)	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Further Research on Abstraction Pressure effects on lake ecology (national)	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Investigate implementing smaller water schemes to reduce demand on other resources	Proposed	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Maintain good hydrological status	Supplementary	ABS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Survey Banks/Coast	Supplementary	DATA+
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Survey Banks/Coast	Supplementary	DATA+
SOUTH DUBLIN	Glenasmole Reservoirs (068)	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Proposed	HS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	For sites not at Favourable conservation Status Set targets and timeframe for achieving status	Proposed	HS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Develop Guidance on suite of measures for different habitats	Proposed	HS
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Develop Guidance on suite of measures for different habitats	Proposed	HS
SOUTH DUBLIN	Glenasmole Reservoirs (068)	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP
SOUTH DUBLIN	Glenasmole Reservoirs (070)	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP