

Interim Report on the Biological Survey of River Quality

Results of the 2010 Investigations



ENVIRONMENTAL PROTECTION AGENCY

The Environmental Protection Agency (EPA) is responsible for protecting and improving the environment as a valuable asset for the people of Ireland. We are committed to protecting people and the environment from the harmful effects of radiation and pollution.

The work of the EPA can be divided into three main areas:

Regulation: *We implement effective regulation and environmental compliance systems to deliver good environmental outcomes and target those who don't comply.*

Knowledge: *We provide high quality, targeted and timely environmental data, information and assessment to inform decision making at all levels.*

Advocacy: *We work with others to advocate for a clean, productive and well protected environment and for sustainable environmental behaviour.*

Our Responsibilities

Licensing

We regulate the following activities so that they do not endanger human health or harm the environment:

- waste facilities (*e.g. landfills, incinerators, waste transfer stations*);
- large scale industrial activities (*e.g. pharmaceutical, cement manufacturing, power plants*);
- intensive agriculture (*e.g. pigs, poultry*);
- the contained use and controlled release of Genetically Modified Organisms (*GMOs*);
- sources of ionising radiation (*e.g. x-ray and radiotherapy equipment, industrial sources*);
- large petrol storage facilities;
- waste water discharges;
- dumping at sea activities.

National Environmental Enforcement

- Conducting an annual programme of audits and inspections of EPA licensed facilities.
- Overseeing local authorities' environmental protection responsibilities.
- Supervising the supply of drinking water by public water suppliers.
- Working with local authorities and other agencies to tackle environmental crime by co-ordinating a national enforcement network, targeting offenders and overseeing remediation.
- Enforcing Regulations such as Waste Electrical and Electronic Equipment (WEEE), Restriction of Hazardous Substances (RoHS) and substances that deplete the ozone layer.
- Prosecuting those who flout environmental law and damage the environment.

Water Management

- Monitoring and reporting on the quality of rivers, lakes, transitional and coastal waters of Ireland and groundwaters; measuring water levels and river flows.
- National coordination and oversight of the Water Framework Directive.
- Monitoring and reporting on Bathing Water Quality.

Monitoring, Analysing and Reporting on the Environment

- Monitoring air quality and implementing the EU Clean Air for Europe (CAFÉ) Directive.
- Independent reporting to inform decision making by national and local government (*e.g. periodic reporting on the State of Ireland's Environment and Indicator Reports*).

Regulating Ireland's Greenhouse Gas Emissions

- Preparing Ireland's greenhouse gas inventories and projections.
- Implementing the Emissions Trading Directive, for over 100 of the largest producers of carbon dioxide in Ireland.

Environmental Research and Development

- Funding environmental research to identify pressures, inform policy and provide solutions in the areas of climate, water and sustainability.

Strategic Environmental Assessment

- Assessing the impact of proposed plans and programmes on the Irish environment (*e.g. major development plans*).

Radiological Protection

- Monitoring radiation levels, assessing exposure of people in Ireland to ionising radiation.
- Assisting in developing national plans for emergencies arising from nuclear accidents.
- Monitoring developments abroad relating to nuclear installations and radiological safety.
- Providing, or overseeing the provision of, specialist radiation protection services.

Guidance, Accessible Information and Education

- Providing advice and guidance to industry and the public on environmental and radiological protection topics.
- Providing timely and easily accessible environmental information to encourage public participation in environmental decision-making (*e.g. My Local Environment, Radon Maps*).
- Advising Government on matters relating to radiological safety and emergency response.
- Developing a National Hazardous Waste Management Plan to prevent and manage hazardous waste.

Awareness Raising and Behavioural Change

- Generating greater environmental awareness and influencing positive behavioural change by supporting businesses, communities and householders to become more resource efficient.
- Promoting radon testing in homes and workplaces and encouraging remediation where necessary.

Management and structure of the EPA

The EPA is managed by a full time Board, consisting of a Director General and five Directors. The work is carried out across five Offices:

- Office of Environmental Sustainability
- Office of Environmental Enforcement
- Office of Evidence and Assessment
- Office of Radiological Protection
- Office of Communications and Corporate Services

The EPA is assisted by an Advisory Committee of twelve members who meet regularly to discuss issues of concern and provide advice to the Board.



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Results of the 2010 Macroinvertebrate Investigations

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INTRODUCTION

The various uses of rivers inevitably involve conflicting interests and often such uses disrupt river ecology. The fact that several of the more important beneficial uses of rivers (e.g. abstraction, amenity, waste disposal) are dependent on biological processes is rarely appreciated: if the self-purification process, for example, is disrupted (e.g. by pollution, drainage or over-abstraction) some or all beneficial uses may be impaired or lost. It is important, therefore, to keep ecological disruption to a minimum and to maintain the aquatic ecosystem in a healthy, functional condition. Progress towards this goal can be monitored by chemical or biological means or, preferably, by a combination of both. In general it could be said that whilst physico-chemical analysis may measure the *causes* of pollution (i.e. the pollutants) biological analysis is the only means whereby the ecological *effects* of pollution can be measured.

The most commonly encountered forms of pollution in this country are eutrophication and organic pollution; less frequently encountered are non-organic types such as toxic pollution (e.g. by sheep dip or industrial chemicals), siltation (e.g. arising from over-grazing, drainage, quarrying or stone-cutting operations) and, in recent years, acidification in sensitive afforested areas. The term eutrophication is used to describe the abnormal production of plants of all kinds (micro- and macroscopic) in surface waters affected by excessive inputs of the plant nutrients nitrogen and phosphorus. Such inputs arise a) by the leaching or overland runoff from agricultural lands of inorganic nitrogen and phosphorus and b) by the breakdown of organic matter such as sewage, food-processing or other industrial wastes or land-spread animal manure slurries. Eutrophication of surface waters may be

also encountered in areas where land is disturbed for peat harvesting or forestry purposes. Organic pollution is a term used to describe the oxygen depleting effects caused by the breakdown of organic wastes (e.g. sewage) in receiving waters. This biodegradation or self-purification process, as it is called, is dependent, initially at least, on aerobic micro-organisms which reduce the organic material to its constituent elements and in the process consume oxygen. In the presence of organic matter, therefore, ambient dissolved oxygen (DO) levels fall whilst the biochemical oxygen demand (BOD) - a measurement of the rate of oxygen usage by aerobic micro-organisms - rises; this process also leads to eutrophication due to the release of compounds of nitrogen and phosphorus.

The measurement of the ambient concentrations of such parameters, therefore, gives a good indication of the condition of the water as regards contamination by organic waste. Traditionally, this type of waste has mostly originated at 'point-source' discharges (sewage, industrial wastes), but in recent years an ever increasing proportion arises from 'diffuse' agricultural sources, i.e., runoff from land of wastes from intensive animal-rearing operations, the development of which in the past 30 years has been accompanied by a very marked increase in the extent of eutrophication.

All types of pollution cause physico-chemical and biological changes in receiving waters and so the assessment of water quality/pollution may be approached from the chemical or the biological aspect. In practice, a combination of both approaches is preferable to either on its own.

National surveys of Irish rivers have been carried out on a continuous basis since 1971 when 2,900 km of river channel was

surveyed. The surveys presently combine general chemical and biological assessments with some 13,200 km of river channel surveyed over each three year cycle (Clabby *et al.*, 2008, Toner *et al.*, 2005).

The Water Framework Directive (WFD), establishing a framework for European Union (EU) community action in the field of water policy, was adopted by the EU in October 2000 (2000/60/EC). The directive provides a new approach for the protection and improvement of water resources and aquatic ecosystems and aims to protect and enhance all waters (ground-waters, surface waters, transitional and coastal waters, water dependent ecosystems and wetlands). It aims to achieve these objectives through a process of river basin management planning supported by status assessments derived from these new monitoring programmes.

As part of the WFD implementation process, the Environmental Protection Agency (EPA) was required to develop new monitoring programmes for surface (rivers and lakes), ground-waters, estuarine and coastal waters. The monitoring programmes became operational in December 2006 (EPA, 2006) and in 2007 the new Water Framework Directive Rivers Monitoring Programme replaced the national river monitoring programme.

The EPA is responsible for carrying out the WFD monitoring of the biological elements (including the surveying and assessment of aquatic macroinvertebrates and aquatic plants and algae) in order to establish ecological status. The EPA is also responsible where appropriate for the hydromorphological assessment of the rivers network. The Local Authorities are responsible for the physico-chemical and chemical monitoring with several of the EPA Regional Laboratories also undertaking monitoring functions.

The EPA Quality Rating System (Q-Value) has been employed to determine the quality status of the macroinvertebrate communities at river sites across the country since the 1970s. This system was tested and intercalibrated at European level (2008/915/EC) and was adopted as the official macroinvertebrate classification system for assessing rivers in the Republic of Ireland (S.I. No. 272 of 2009). The River Hydromorphological Assessment Technique (RHAT) is applied to assess hydromorphology and to differentiate between high and good ecological status sites.

The Q-Value System is based on the well-established sensitivities, abundance and diversity of macroinvertebrates and their relation to water quality. The system is effectively a proprietary expert system.

The EPA recommends employing a risk score approach using the Small Streams Risk Score (SSRS) for investigative monitoring. This is a rapid biological method that reliably assesses sites that are at risk of failing to meet good status based on the macroinvertebrate community. The SSRS was developed by the Western River Basin District in conjunction with the EPA and has proved useful in undertaking further characterisation of risk for the WFD Article 5 Characterisation Report. The method produces a continuous score and threshold values are used to decide on the degree of risk at a site. It is possible to compare 'before' and 'after' scores, which may be useful in assessing the potential impact of a development. The SSRS system has a recognised training course and operators must pass a quality assurance check by submitting samples for quality control purposes.

Biological Assessment

In the presence of pollution, characteristic and well-documented changes are induced in the flora and fauna of rivers and streams. Particularly well-documented are the

changes brought about by organic pollution in the macroinvertebrate community, i.e., the immature aquatic stages of aerial insects (mayflies, stoneflies etc.) together with Crustacea (e.g. shrimps), Mollusca (e.g. snails and bivalves), Oligochaeta (worms) and Hirudinea (leeches). The changes that occur are due to the varying sensitivities of the different components of the community to the stresses caused by pollution. It is known that similar organisms inhabit similar habitats and that the most sensitive species inhabit the riffle areas. It is also well known that community diversity declines in the presence of pollution and that sensitive species are progressively replaced by more tolerant forms as pollution increases. Ideally, all the components of the aquatic biota (the micro- and macro-fauna and flora) should be utilised. Under the WFD monitoring programme aquatic flora including macrophytes, macroalgae and benthic algae (phytobenthos) (surveillance sites only) are surveyed. For the purposes of this report, only the macroinvertebrate Q value results are presented however the river assessments may mention the condition of the flora.

In contrast to physico-chemical surveys which extend throughout the year, biological macroinvertebrate surveys are usually undertaken in the summer-autumn period (June-September) when flows are likely to be relatively low, surveys during this period are likely, therefore, to coincide with the worst conditions to be expected in those reaches affected by waste inputs.

Biological material for examination is obtained by kick-sampling with a standard pond net in the shallower, faster-flowing areas (riffles) and the assessment of water quality is made on site. The relative proportion of the various macroinvertebrate organisms in the sample is determined. Water quality is inferred by a comparison of this data with that which

might be expected from unpolluted habitats of the type under investigation.

Relationships between water quality and macroinvertebrate community structure are usually described by means of a numerical scale of values. Such a compression of biological information inevitably results in a loss of meaningful information but some such procedure is essential if this information is to be meaningful to non-biologists. The EPA scheme of Biotic Indices or Quality (Q) Value (Toner *et al.*, 2005) and its relationship to water quality is set out in Table 1.

The intermediate values (Q1-2, 2-3, 3-4 etc.) denote transitional conditions. The scheme mainly reflects the effects of organic pollution (i.e. deoxygenation and eutrophication) but where a toxic effect is apparent or suspected the suffix '0' is added to the biotic index (e.g. Q1/0, 2/0 or 3/0). An asterisk after the Q value (e.g. Q3*) indicates something worthy of special attention, typically heavy siltation of the substratum.

Class A waters are those in which problems relating to existing or potential beneficial uses are unlikely to arise and are, therefore, regarded as being in a 'satisfactory' condition. These waters are classified as high or good under the Water Framework Directive status classification (Table 1).

Classes B, C and D reflect increasing levels of pollution and ecological impairment, and are consequently regarded as 'unsatisfactory' to a lesser or greater degree and would therefore fail under the WFD classification.

Class B (slightly polluted) waters are mainly characterised by eutrophication and frequently also by some deposition of silt on the substratum; eutrophication is the artificial over-enrichment of waters by phosphorus and/or nitrogen which in rivers

may cause excessive growths of rooted plants and filamentous algae. The respiration of these plants may be sufficient to deplete dissolved oxygen (DO) to such a degree that game fish, especially the young stages, may be killed in extreme circumstances. DO levels can drop significantly at night when photosynthetic activity has ceased.

Class C (moderately polluted) waters are typically extremely eutrophic and frequently impacted by other influences such as organic pollution (for example in recovery zones below sewage discharges). They may be subject to other influences such as siltation (due to drainage activities), the toxic effects of mining or forestry-induced acidification in sensitive upland areas.

Class D (seriously polluted) waters are typically characterised by very high concentrations of biodegradable organic waste causing deoxygenation and the growth of unsightly bacterial and fungal slimes ('sewage fungus' or 'bacterial tufts'). In extreme cases the substratum may be blanketed with deposits of malodorous anaerobic sludge. Only the most tolerant invertebrates (e.g. sludge worms) are to be found in such conditions, and virtually all beneficial uses are lost. Where serious toxicity occurs (e.g. due to mining or other sources of toxic spillages or discharges) virtually all aquatic life may be extinguished.

From 2007 onwards a five-class quality system will replace the current four-class system. The new class was created by dividing the existing Class A (unpolluted) category into two new classes – High Status and Good Status waters – in compliance with the WFD classification requirements. These have already been intercalibrated at European level for a range of biological quality elements to ensure comparability between Irish river

status assessments and those of other countries.

Other relevant factors such as the intensity of algal and/or weed development, presence of slime growths, water turbidity, siltation, degree of shading, conductivity, dissolved oxygen and water temperature, are also recorded in the assessment procedure.

The EPA National Biological Rivers programme is part of the WFD monitoring programme and is carried out over a three year cycle. A total of 738 survey visits were carried out on 296 rivers & streams in 2010. A total of 15 hydrometric areas were surveyed in full while five hydrometric areas (HA 15, 22, 27, 34 and 37) were partially surveyed.

The 2010 Interim Biological (aquatic macroinvertebrate) Results are presented in Hydrometric Order. The Summary statistics are shown at the end of each Hydrometric Area for the 2010 – 2012 survey period. If a site exhibited serious pollution and improved during the three year cycle period the summary statistics only show the final status. Details of the estimated channel length (km) within each quality class for each river surveyed are presented in tabular form. Trend data detailing the percentage of channel length within each of the four original quality classes (Classes A - D) for past and current cycles are shown. Trend data is also presented for the current (2010 – 2012) and previous survey cycle detailing the percentage of channel length for each Hydrometric Area currently classified under the five WFD quality status classes.

Additional information detailing the upstream catchment characteristics including the Corine land use information are also presented for each station where available.

The additional survey results for 2010 are also presented, including Investigative surveys, Exchange of Information surveys and Seriously Polluted site surveys. The Enforcement of Seriously Polluted River Stations Programme commenced in 2007. Any site deemed to be seriously polluted (i.e. Q2-Q1) upon survey, will warrant annual biological surveys and further investigation by the EPA Office of Environmental Enforcement until such time when the condition improves. Once the station improves surveys return to the normal three year survey cycle at the site.

The River Interim Biological Results are also illustrated on the EPA ENVISION maps (www.epa.ie) and the individual River Reports are available at www.epa.ie/qvalue/webusers/.

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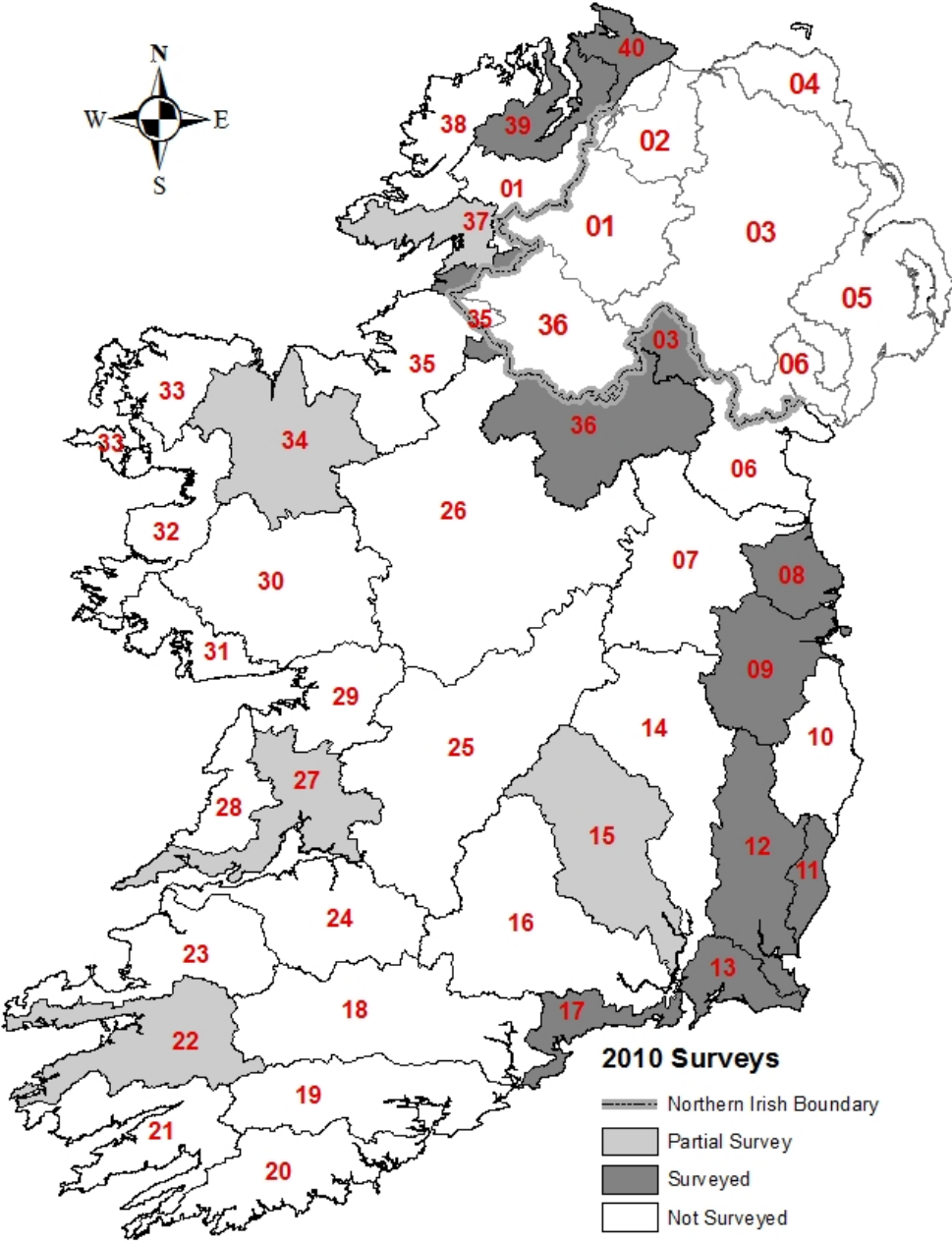
Table 1: The EPA Q-value classification system and its relationship to water quality

Q Value	WFD Status	Pollution Status	Condition*	EPA Quality Class
Q5, Q4-5	High	Unpolluted	Satisfactory	Class A
Q4	Good	Unpolluted	Satisfactory	Class A
Q3-4	Moderate	Slightly polluted	Unsatisfactory	Class B
Q3, Q2-3	Poor	Moderately polluted	Unsatisfactory	Class C
Q2, Q1-2, Q1	Bad	Seriously polluted	Unsatisfactory	Class D

*'Condition' refers to the likelihood of interference with beneficial or potential beneficial use.

2010 INTERIM BIOLOGICAL (MACROINVERTEBRATE) REPORTS

Principal Hydrometric Areas Surveyed



0 12.5 25 50 75 100 Km

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HYDROMETRIC AREA 03 (Bann)

BLACKWATER (MONAGHAN)	03B01
CLONTIBRET STREAM	03C01
CONAWARY (LOWER)	03C02
MOUNTAIN WATER	03M01
SCOTSTOWN	03S02
SHAMBLES	03S01

River and Code : **BLACKWATER (MONAGHAN)**

03/B/01

Tributary of :

OS Catchment No: 68

OS Grid Ref of Confluence: H 922 637

Date(s) Surveyed: 6/7/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1973	1977	1981	1983	1985	1989	1993	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	4-5	4-5	3-4	3-4	-	-	-	-	-	-	-	-
0130	-	-	-	-	-	-	3-4	4	4	4	3	3	4	4
0200	3-4	3-4	3-4	4	3-4	3-4	-	-	-	-	-	-	-	-
0300	4	4	3-4	4	4	3-4	3-4	4	4	4	4	4	3-4	3-4
0400	4	4	3-4	4	3-4	3-4	3-4	-	-	-	-	-	-	-
0500	4	4	3-4	4	3-4	3-4	-	-	-	-	-	-	-	-
0510	-	-	-	-	-	-	3	3	3-4	3	3	3-4	3-4	3-4
0600	3	3	2	3	2-3	3	2-3	3	-	-	-	-	-	-
0650	-	-	-	-	-	-	2-3	-	2-3	3	3/0	3	3	3
0700	3	3	3	2-3	2-3	2-3	2-3	3	-	-	-	-	-	-
0800	4	3-4	3-4	3	3	3	3	3	2-3	3	3	3	3	3

Assessment: There has been no change in ecological condition in the Blackwater since it was last sampled in 2007. Only the site downstream of Scotstown Bridge (0130) is achieving satisfactory quality, the remaining downstream sites continue to be of generally unsatisfactory ecological condition in 2010. The complete absence of sensitive macroinvertebrates below Monaghan (0650, 0800) was indicative of considerable ecological disruption, with continued pollution by suspected sewage and industrial discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km u/s Scotstown*	260202	337086	28	MN
0130	1.5 km d/s Scotstown Br	261322	335999	28	MN
0200	Br in Ballinode	262918	335813	28	MN
0300	1st Br d/s Ballinode	263898	335742	28	MN
0400	Br at Crosses	265564	335744	28	MN
0500	Br nr Milltown	266388	334653	28	MN
0510	250m d/s Br nr Milltown	266519	334591	28	MN
0600	Br on Monaghan-Aughnacloy Rd	267509	335234	28	MN
0650	Faulkland Br (Upr)	269240	337125	28	MN
0700	Faulkland Br	270284	337840	28	MN
0800	Newmills Br	271921	338773	28	MN

Hydrometric Area 03 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	77	15	0	100	47	9	7	0	12	0	25
0130	64	50	0	100	41	3	20	1	17	0	17
0200	59	52	0	100	43	3	19	1	17	0	17
0300	57	63	0	100	49	2	16	2	17	0	14
0400	54	71	0	100	55	2	14	2	15	0	12
0500	52	123	27	73	70	3	8	2	9	0	7
0510	51	123	27	73	70	3	8	2	9	0	7
0600	50	124	27	73	71	3	8	2	9	0	7
0650	45	140	28	72	71	3	7	4	8	0	7
0700	43	142	27	73	71	3	7	4	8	0	7
0800	39	143	27	73	72	3	7	4	8	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONTIBRET STREAM**

03/C/01

Tributary of : 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of Confluence: H 734 381

Date(s) Surveyed: 1/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1990	1993	1996	1998	2001	2004	2007	2010
0600	3	-	3	3	3	3	3	3	2-3
1100	2-3	3	-	-	-	3	3	-	3
1400	3	-	3-4	4	3	3	3	3	3

Assessment: There has been no change in the ecological condition of the Clontibret Stream for over a decade, with moderate pollution noted again in July 2010. This once great brown trout stream continues to come under pressure from suspected agricultural and sewage sources.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br in Clontibret	275776	328860	28	MN
1100	Br SW of Clerran	274410	331650	0	
1400	Br E of Killyneill X-Roads	273851	335733	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	119	5	100	0	62	0	4	0	34	0	0
1400	38	60	97	3	90	2	1	0	6	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CONAWARY (LOWER)**

03/C/02

Tributary of : 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of Confluence: H 658 348

Date(s) Surveyed: 6/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1990	1993	1996	1998	2001	2004	2007	2010
1100	3	-	3	3	3	3	3	-	3
1200	2	3	3	-	-	-	-	-	-
1300	2-3	-	-	3	3	3	3	3	3

Assessment: There has been no change in the unsatisfactory ecological condition of the Conawary Stream in over twenty years. Agriculture is the suspected cause of the continuing moderate pollution of this stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1100	White Br	263927	332559	28	MN
1200	2nd Br u/s Blackwater R	265068	334277	28	MN
1300	Br u/s Blackwater R confl	265434	334559	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1100	60	27	80	20	99	0	0	1	0	0	0
1200	56	45	74	26	93	4	0	2	0	0	1
1300	54	45	73	27	93	4	0	2	0	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOUNTAIN WATER**

03/M/01

Tributary of : 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of Confluence: H 678 438

Date(s) Surveyed: 5/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1981	1983	1985	1989	1993	1994	1996	1998	2001	2004	2007	2010
0100	-	5	5	5	5	5	5	4-5	5	4-5	4-5	4-5	4-5	4	4
0200	4-5	5	4-5	4-5	5	5	5	1/0	3-4	4-5	4-5	4-5	4	4	4
0400	4-5	4-5	4	4-5	4-5	4-5	4-5	2/0	3-4	4	4-5	4	3-4	3-4	3-4
0500	4	4	2	3-4	3	3	3	3/0	3	3-4	3	3	3	3	3
0650	-	-	-	4	4-5	3	3	3/0	3	3	3	3	3	-	3-4

Assessment: The Mountain Water continues to be of satisfactory quality in its upper reaches (0100 and 0200) but suspected sewage and possibly other discharges continue to result in unsatisfactory conditions in the lower reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Coyle's Br	259662	346197	18	MN
0200	Br NE of Golan	262670	343971	19	MN
0400	1st Br u/s Emyvale	267050	343345	19	MN
0500	Br 1.1 km d/s Emyvale	268171	343321	19	MN
0650	Br N of Glaslough	272001	342192	19	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	152	6	0	100	0	25	58	0	2	0	15
0200	104	18	0	100	4	19	37	0	27	0	13
0400	59	35	0	100	25	10	20	0	38	0	7
0500	45	39	0	100	32	9	17	1	35	0	6
0650	40	59	0	100	55	6	11	0	23	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SCOTSTOWN** **03/S/02**
 Tributary of : 03B01 BLACKWATER (MONAGHAN) OS Catchment No: 68
 OS Grid Ref of Confluence: H 608 369
 Date(s) Surveyed: 5/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1996	1998	2001	2004	2007	2010
0200	5	5	5	4-5	4-5	4-5	4-5	4-5
0400	5	4-5	4-5	4	4-5	4	-	4
0500	4-5	4-5	4-5	4-5	4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Scotstown Stream in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Knockballyroney	258876	341359	18	MN
0400	Br at Mill S of Dromscor	260043	339693	28	MN
0500	Br u/s Scotstown Br	261106	337600	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	149	4	0	100	5	0	59	0	4	0	32
0400	92	18	0	100	22	1	47	0	17	0	13
0500	73	32	0	100	35	1	28	0	21	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHAMBLES** **03/S/01**
 Tributary of : 03B01 BLACKWATER (MONAGHAN) OS Catchment No:
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 6/7/2010

Station Nos.	2007	Biological Quality Ratings (Q Values)	2010
0500	2-3		2-3

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions in this tributary of the Blackwater (Monaghan). Downstream of Monaghan town (0500) remains considerably polluted in 2010, with sewage and other discharges suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Shambles Br on Armagh Rd.	268043	334977	28	MN

NBIRBD HYDROMETRIC AREA NO. 03

The baseline rivers, showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total		
WFD Quality Class			High	Good	Moderate	Poor	Bad			
River Name	Year	Code								
Blackwater (Monaghan) (26.5km)	2010	03B01	0.0	6.0	10.0	10.5	0.0	26.5		
Clontibret Stream (13km)	2010	03C01	0.0	0.0	0.0	13.0	0.0	13.0		
Conawary (Lower) (3km)	2010	03C02	0.0	0.0	0.0	3.0	0.0	3.0		
Mountain Water (24km)	2010	03M01	0.0	13.5	7.8	2.8	0.0	24.0		
Scotstown (11.5km)	2010	03S02	6.5	5.0	0.0	0.0	0.0	11.5		
Total Length (km) surveyed this cycle			6.5	24.5	17.8	29.3	0.0	78.0		
Adjustments (See below)*			0.0	0.0	0.0	0.0	0.0	0.0		
Current Length (km) Adjusted			6.5	24.5	17.8	29.3	0.0	78.0		
Percentages			8.3	31.4	22.8	37.5	0.0	100.0		
Channel Length (km) in Class			2010-'12		A	B	C	D	Total	
Baseline: Current adjusted Status (km)					31.0	17.8	29.3	0.0	78.0	
<i>Percentages</i>					39.7	22.8	37.5	0.0	100.0	
Baseline: Previous Unadjusted Status (km)			2007-'09		6.5	24.5	12.5	34.5	0.0	78.0
<i>Percentages</i>					8.3	39.7	16.0	44.2	0.0	100.0
Changes since Previous Survey (km)					0.0	0.0	5.3	-5.3	0.0	0

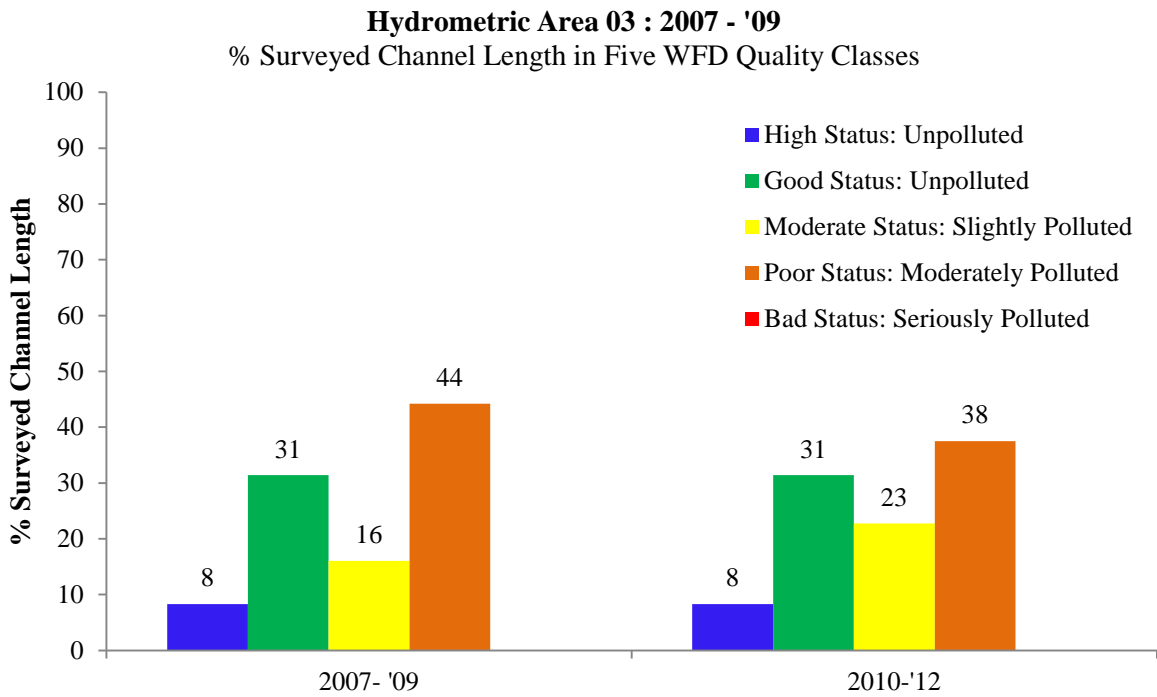
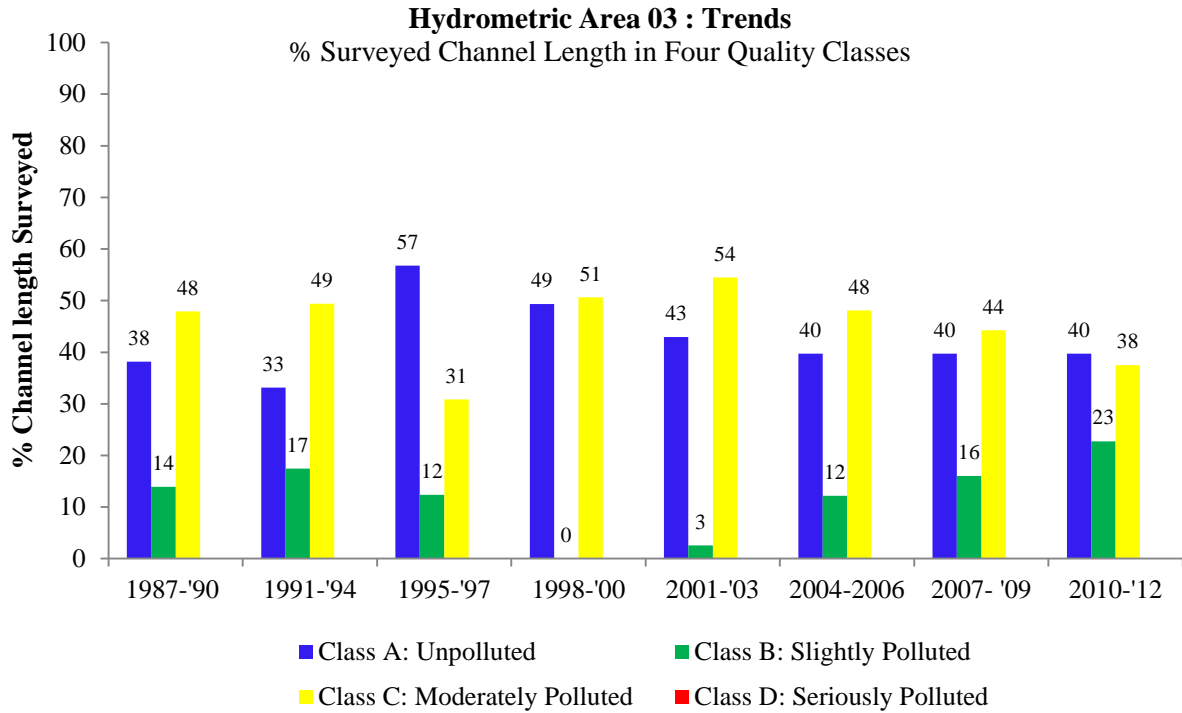
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of sites at WFD Status	2007-'09	2010-'12
High	1	1
Good	4	5
Moderate	3	4
Poor	7	9
Bad	0	0
<hr/>		
Total number of sites surveyed	15	19
Total number of sites at unsatisfactory status	10	13



HYDROMETRIC AREA 08 (Nanny- Delvin)	
BALLOUGH STREAM	08B03
BALLYBOGHIL	08B01
BROADMEADOW	08B02
DELVIN	08D01
DUNSHAUGHLIN STREAM *	08D03
FAIRYHOUSE STREAM	08F01
HURLEY	08H01
MOSNEY	08M02
NANNY (MEATH)	08N01
RATOATH STREAM *	08R01
WARD	08W01

* DUNSHAUGHLIN STREAM Formerly Broadmeadow North Branch 08B02
* RATOATH STREAM Formerly Ratoath Branch of the Broad Meadow 08B02

River and Code : **BALLOUGH STREAM**

08/B/03

Tributary of : 08B01 BALLYBOGHIL

OS Catchment No: 163

OS Grid Ref of Confluence: O 204 515

Date(s) Surveyed: 29/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2005	2008	2010
1600	3	3	3	3	3-4	3	3	3-4

Assessment: Has improved somewhat since 2008 but further improvement required before Good status is achieved.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1600	Corduff Br	319905	252205	43	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1600	5	32	0	100	23	0	0	3	74	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYBOGHIL**
 Tributary of : Rogerstown Estuary, Rush
 OS Grid Ref of Confluence: O 203 514
 Date(s) Surveyed: 29/7/2010

08/B/01
 OS Catchment No: 163

Station Nos.	Biological Quality Ratings (Q Values)						
	1991	1996	1998	2001	2005	2008	2010
1900	-	2	3	3-4	3	2-3	3
2200	3	3	3	3/0	3	3	3

Assessment: Ecological status continuing Poor at both locations surveyed on the Ballyboghil River in late July 2010. Agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1900	Br near Wyanstown	311213	255730	43	DN
2200	Br in Ballyboghil	315044	253632	43	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1900	66	4	0	100	41	0	0	0	59	0	0
2200	31	24	0	100	32	0	0	0	68	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROADMEADOW**

08/B/02

Tributary of : Sea - Malahide Estuary

OS Catchment No: 164

OS Grid Ref of Confluence: O 192 423

Date(s) Surveyed: 28/7/2010, 29/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1976	1981	1983	1985	1988	1989	1991	1994	1996	1998	2001	2005	2008	2010
0400	-	-	-	-	3	3	2-3	3	2-3	2	3	3	2-3	2-3	2-3	2-3	3
0500	2	3	2-3	2	3	1	2-3	2	2-3	1-2	2-3	1-2	1	2-3	2-3	3	3
0550	-	-	-	-	-	-	-	3	2-3	3	3	-	-	-	-	-	-
0600	-	-	-	-	3	2-3	3-4	3-4	-	3	-	3	2-3	3	3	3	3
0700	3	3-4	3	3	3-4	2-3	3-4	3-4	-	3	-	3-4	3-4	3	3	-	3
0800	3-4	4	3-4	3	3-4	3	3	3	-	3	-	3	2-3	3	2-3	3	3

Assessment: Extreme eutrophication plus a complete absence of sensitive macroinvertebrates indicated Poor ecological status at each of the five locations surveyed on the Broadmeadow in late July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br 0.5km u/s Ashbourne Br	306003	252316	43	MH
0500	Milltown Br	307178	251783	43	MH
0550	Robertstown Br	308416	251048	43	DN
0600	Greenoge Br (WSW of Fieldstown Ho)	310722	250322	43	DN
0700	Lispopple Br	313896	250132	43	DN
0800	Balheary Bridge	318179	248297	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	64	35	0	100	70	0	0	9	22	0	0
0500	60	40	0	100	64	0	0	11	25	0	0
0600	37	67	0	100	59	0	0	7	34	0	0
0700	24	98	0	100	56	0	0	5	38	0	0
0800	5	112	0	100	53	0	0	6	41	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DELVIN**
 Tributary of : Sea - Gormanstown
 OS Grid Ref of Confluence: O 182 664
 Date(s) Surveyed: 10/8/2010

08/D/01
 OS Catchment No: 162

Station Nos.	Biological Quality Ratings (Q Values)											
	1978	1980	1982	1986	1988	1991	1996	1998	2001	2005	2008	2010
0080	-	-	-	-	3	3-4	3-4	3	3	3	3	3
0250	-	-	-	-	-	-	3	4	4	4	3-4*	3-4
0400	3	3-4	3-4	3-4	3	3-4	3	4	3	4	3	3

Assessment: Water quality continued to be unsatisfactory throughout the Delvin River in 2010. The upper and lower surveyed locations were heavily silted and completely devoid of sensitive macroinvertebrates and were therefore assessed as being of Poor ecological status. Conditions were somewhat better at the middle location where status was assessed as Moderate at the time of this survey in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br W of Naul	312000	260678	43	DN
0250	Br NW of Forty Acres	314367	263758	43	DN
0400	Gormanstown Br	317070	265794	43	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	64	34	23	77	65	0	0	1	34	0	0
0250	37	45	28	72	60	0	0	2	38	0	0
0400	11	71	53	47	60	0	0	1	38	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNSHAUGHLIN STREAM**

08/D/03

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 057 522

Date(s) Surveyed: 28/7/2010

Formerly Broadmeadow North Branch 08B02

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1976	1981	1983	1985	1987	1988	1989	1996	1998	2001	2005	2008	2009	2010
0300	2	3	2	2	2	2-3	2	2-3	3	2-3	1-2	3	2-3/0	3	2	3	3

Assessment: The Dunshaughlin Stream was again significantly polluted at Cookstown Bridge where deep banks of anaerobic mud were observed in 2010. Ecological status continues to be Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Cookstown Br	304955	252580	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	68	15	0	100	75	0	0	5	19	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FAIRYHOUSE STREAM**

08/F/01

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 089 504

Date(s) Surveyed: 28/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2005	2008	2010
0200	-	-	3	3	-	-	-	-
0300	3	-	-	-	-	-	-	-
0500	3	3	3	2-3/0	2-3	3	3	3

Assessment: Continuing unsatisfactory due to extreme eutrophication and heavy siltation. Status again Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Peacockstown	304052	249600	50	MH
0300	Br nr Harlockstown	0	0	43	
0500	Donaghmore Br	308045	250609	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	81	4	0	100	49	0	0	0	51	0	0
0500	56	17	0	100	52	0	0	0	47	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **HURLEY**
 Tributary of : 08N01 NANNY (MEATH)
 OS Grid Ref of Confluence: O 003 655
 Date(s) Surveyed: 9/8/2010, 29/7/2010

08/H/01

OS Catchment No: 160

Station Nos.	Biological Quality Ratings (Q Values)											
	1978	1980	1982	1984	1988	1991	1996	1998	2001	2005	2008	2010
0060	-	-	-	-	-	-	3	3/0	3	-	-	-
0200	-	3-4	3-4	3-4	3	3	3-4	3-4	3-4	3-4	3*	3
0280	-	-	-	-	3	3	3-4	4	4	4	3	4
0400	4	3	1	3-4	3-4	3	3-4	3-4	3	4	3-4	3-4

Assessment: A significant improvement was recorded at Rathfeigh (0280) where conditions were assessed as satisfactory (Q4, Good status) in July 2010. Conditions upstream (Q3) and downstream (Q3-4) of this location continued as before i.e., unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br S of Borranstown House	305613	255586	43	DN
0200	Br at Painestown	300406	258465	43	MH
0280	Rathfeigh Old Bridge	299842	262134	43	MH
0400	Just u/s Nanny R confl	303533	265437	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	88	4	0	100	83	0	0	0	17	0	0
0200	65	31	0	100	61	0	0	0	39	0	0
0280	51	48	0	100	58	0	0	1	40	0	1
0400	26	93	15	85	62	0	0	1	37	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOSNEY** **08/M/02**
 Tributary of : Sea - North of Benhead OS Catchment No: 161
 OS Grid Ref of Confluence: O 168 698
 Date(s) Surveyed: 10/8/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1978	1983	1986	1988	1991	1996	1998	2001	2005	2008	2010
0100	3-4	3-4	4	3-4	3	3	3-4	3	3	3	3

Assessment: Continuing Poor status. Unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S of Mosney Ho	315914	269383	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	10	12	100	0	58	0	0	1	42	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NANNY (MEATH)**

08/N/01

Tributary of : Sea - Laytown

OS Catchment No: 160

OS Grid Ref of Confluence: O 163 712

Date(s) Surveyed: 9/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1974	1978	1980	1982	1986	1988	1991	1996	1998	2001	2005	2008	2010
0040	-	-	-	-	-	-	-	-	2-3	2-3	2	2-3	3	3
0090	-	-	-	-	-	-	2-3	2-3	-	-	-	-	-	-
0110	-	-	-	-	-	-	3	3	3	2-3	2-3	2-3	2-3	3
0200	-	-	-	3-4	2-3	3	3-4	3-4	-	-	-	-	-	-
0280	-	-	-	-	-	-	3	3	3	3-4	3-4	4	4	3-4
0300	5	4-5	3-4	3	1-2	2	-	3	-	-	-	-	-	-
0400	4-5	3-4	4	3-4	4	3-4	2-3	3	-	-	-	-	-	-
0500	3	1-2	3	3	3-4	3-4	3	3-4	3	3-4	3-4	3-4	3	3-4
0600	-	-	-	3-4	3	3-4	3	-	-	-	-	-	-	-
0700	4	3-4	3	3	3-4	3-4	3-4	3	3-4	3-4	3	3-4	3-4	3

Assessment: Following indications of a slight deterioration at Station 0280, water quality was nowhere satisfactory in the Nanny in 2010. Ecological status was Poor in the upper (0040, 0110) and lower (0700) reaches and elsewhere (0280, 0500) Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Folistown Br	292819	266023	43	MH
0090	East Br S of Brownstown	295049	264923	43	
0110	East Br Kentstown	297656	264965	43	MH
0200	Br S of Balrath X-Rds	300168	264614	43	
0280	Br d/s Nanny Br	302759	265156	43	MH
0300	Br nr Deenes	303555	265547	43	
0400	Upstream Br Duleek	305037	268351	43	
0500	Br NE of Bellewstown Ho	307307	269147	43	MH
0600	Beaumont Br	308588	269637	9	
0700	Br at Julianstown	313407	270316	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	71	4	0	100	72	0	0	0	28	0	0
0110	43	19	0	100	58	0	0	4	38	0	0
0280	27	50	0	100	56	1	0	1	42	0	0
0500	15	197	22	78	59	0	0	1	39	0	0
0700	1	218	23	77	58	0	0	2	40	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RATOATH STREAM**

08/R/01

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 057 522

Date(s) Surveyed: 28/7/2010

Formerly Ratoath Branch of the Broad Meadow 08B02

Station Nos.	Biological Quality Ratings (Q Values)										
	1988	1989	1990	1991	1994	1996	1998	2001	2005	2008	2010
0150	2	2	2	2	2	2	2	2-3	3	2-3	3

Assessment: This very sluggish, muddy stream was completely devoid of the more sensitive macroinvertebrates usually found in such conditions and water quality was, therefore, assessed as being unsatisfactory. Ecological status continues to be Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Br in Ratoath	301795	251595	43	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150		12	0	100	73	0	0	12	15	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **WARD**
 Tributary of : 08B02 BROADMEADOW
 OS Grid Ref of Confluence: O 186 417
 Date(s) Surveyed: 27/7/2010, 28/7/2010

08/W/01
 OS Catchment No: 164

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1973	1974	1977	1979	1981	1983	1985	1988	1991	1994	1996	1998	2001	2005	2007	2008	2010
0025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
0070	-	-	-	-	-	-	-	-	3	2-3	3	2-3	2-3	3	2	2-3	2-3	3
0300	-	3	2	4	3	3-4	3	3	3	3	-	3	3	3	2-3	-	3	3
0400	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0500	-	3-4	-	-	-	3/0	3	3	3	3	-	-	-	-	-	-	-	-
0600	-	-	1	4	2	3/0	2-3	3	-	-	-	-	-	-	-	-	-	-
0610	-	-	-	-	-	-	-	-	3	3/0	-	3	3/0	3	2-3	-	3	3

Assessment: As indicated by the macroinvertebrate composition and luxuriant algal abundance, water quality in the Ward River continued to be of a less than satisfactory standard in 2010. Ecological status was Poor at each of the locations surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	(E) Br S of Priest town Ho	305668	245488	50	MH
0070	Coolatrath Br	310029	245679	50	DN
0300	Killeek Br	314521	246418	50	DN
0400	Knocksedan Br	0	0	50	
0500	Br at SW end of Swords	0	0	50	
0600	Scotchstone Br	0	0	50	
0610	Br d/s Scotchstone Br	318450	247709	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	N/A	0	0	0	0	0	0	0	0	0	0
0070	66	17	0	100	34	0	0	0	66	0	0
0300	47	38	0	100	35	0	0	4	62	0	0
0610	9	44	0	100	33	0	0	10	58	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

ERBD: HYDROMETRIC AREA NO. 08

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Ballough Stream	2010	08B03	0.0	0.0	8.0	0.0	0.0	8.0	
Ballyboghil	2010	08B01	0.0	0.0	0.0	12.0	0.0	12.0	
Broadmeadow	2010	08B02	0.0	0.0	0.0	17.0	0.0	17.0	
Delvin	2010	08D01	0.0	0.0	8.0	5.5	0.0	13.5	
Dunshaughlin Stream	2010	08D03	0.0	0.0	0.0	1.0	0.0	1.0	
Fairyhouse Stream	2010	08F01	0.0	0.0	0.0	3.5	0.0	3.5	
Hurley	2010	08H01	0.0	6.7	2.3	8.1	0.0	17.0	
Mosney	2010	08M02	0.0	0.0	0.0	1.0	0.0	1.0	
Nanny	2010	08N01	0.0	0.0	17.5	10.5	0.0	28.0	
Ratoath Stream	2010	08R01	0.0	0.0	0.0	6.0	0.0	6.0	
Ward	2010	08W01	0.0	0.0	0.0	15.0	0.0	15.0	
Total Length (km) surveyed this cycle			0.0	6.7	35.8	79.6	0.0	122.0	
Adjustments (See below)*			0.0	0.0	0.0	0.0	0.0	0.0	
Current Length (km) Adjusted			0.0	6.7	35.8	79.6	0.0	122.0	
Percentages			0.0	5.5	29.3	65.2	0.0	100.0	
Channel Length (km) in Class			A	A	B	C	D	Total	
Baseline: Current Adjusted Status (km)			2010-'12	0.0	6.7	35.8	79.6	0.0	122.0
<i>Percentages</i>				0.0	5.5	29.3	65.2	0.0	100.0
Baseline:Previous Unadjusted Status (km)**			2007-'09	0.0	8.5	26.5	87.0	0.0	122.0
<i>Percentages</i>				0.0	7.0	21.7	71.3	0.0	100.0
Changes since Previous Survey (km)				0.0	-1.9	9.3	-7.5	0.0	0.0

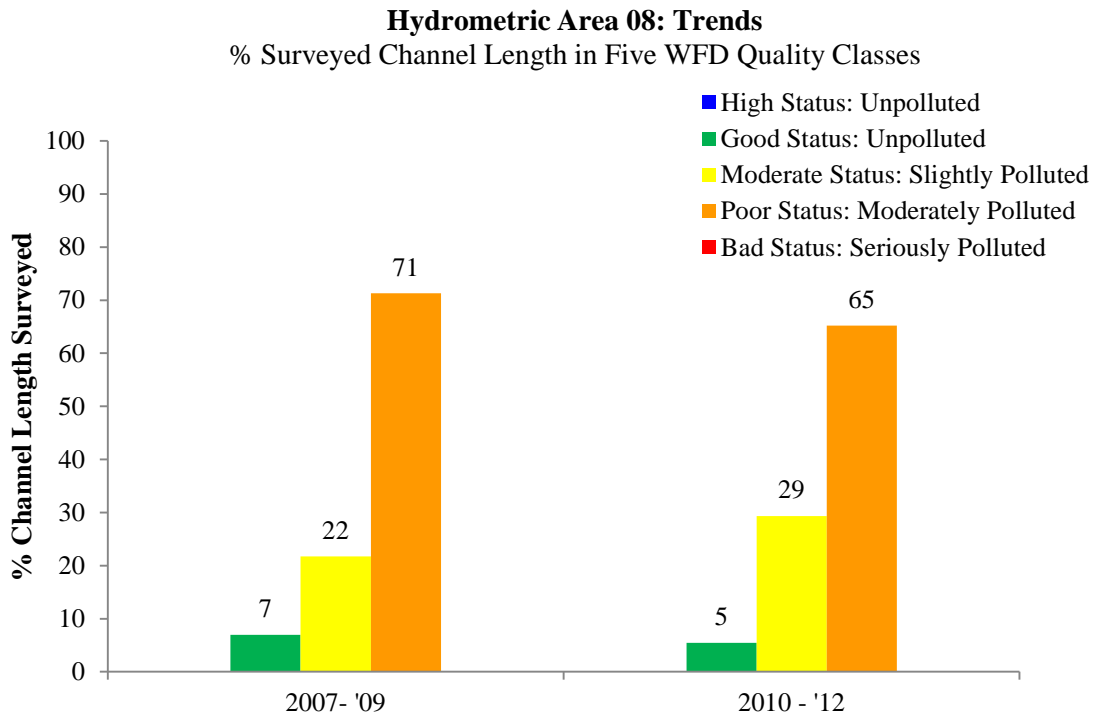
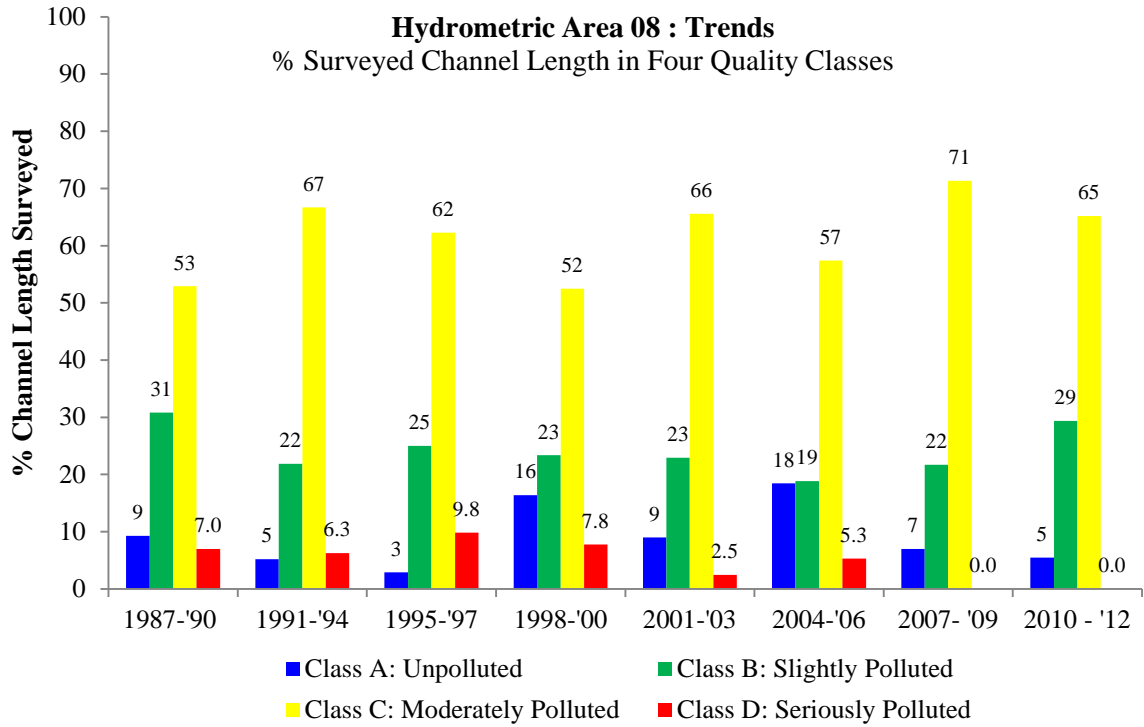
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of sites at WFD status	2007-'09	2010-'12
High	0	0
Good	1	1
Moderate	3	5
Poor	23	21
Bad	1	0
Total number of sites surveyed	28	27
Total Number of sites at unsatisfactory status	27	26



HYDROMETRIC AREA 09 (Liffey & Dublin Bay)

ANNALECKA BROOK	09A01
BALLINAGEE	09B08
BALLYDONNELL BROOK	09B03
BALLYLOW BROOK	09B04
BRITTAS	09B02
CAMAC	09C02
CLONSHANBO	09C03
COCK BROOK	09C04
DODDER	09D01
DOUGLAS (LIFFEY)	09D02
DUNBOYNE STREAM *	09D04
GLASHABOY BROOK	09G02
KILCULLEN STREAM	09K02
KING'S (LIFFEY)	09K01
LEMONSTOWN STREAM	09L03
LIFFEY	09L01
LYREEN	09L02
MAYNE	09M03
MORELL	09M01
OWENADOHER	09O01
PAINESTOWN	09P01
PINKEEN	09P02
RATHMORE STREAM	09R02
RYE WATER	09R01
SANTRY	09S01
TOLKA	09T01

* DUNBOYNE STREAM Formerly Tolka Dunboyne Branch 09T01

River and Code : **ANNALECKA BROOK**

09/A/01

Tributary of : 09K01 KING'S (LIFFEY)

OS Catchment No: 168

OS Grid Ref of Confluence: O 053 015

Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)					
	1996	1998	2002	2005	2007	2010
0100	4-5	3-4	5	4-5	4-5	3-4*

Assessment: Several sensitive stonefly species, formerly present, were not observed at Annalecka Bridge where the stream was very heavily silted in 2010. As a consequence ecological status has fallen from High (Q4-5) in 2007 to Moderate (Q3-4) currently. Forestry activities are suspected as relevant to this deterioration.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Annalecka Br	305682	201893	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	351	6	100	0	0	42	58	0	0	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINAGEE**
 Tributary of : 09K01 KING'S (LIFFEY)
 OS Grid Ref of Confluence: O 032 020
 Date(s) Surveyed: 9/8/2010

09/B/08

OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2002	2005	2007	2010
0200	5	4-5	4-5	4-5	5	4-5	4	4

Assessment: Continuing satisfactory. Good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ballinagee Br	303640	202380	56	WW

River and Code : **BALLYDONNELL BROOK**

09/B/03

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: O 059 139

Date(s) Surveyed: 9/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1983	1988	1991	1996	1998	2002	2005	2007	2010
0100	5	5	5	4-5	4-5	5	5	5	4

Assessment: Macroinvertebrate composition indicative of satisfactory conditions but ecological status now Good (Q4) as compared with High (Q5) in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballylow Br	306009	212982	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	240	20	100	0	0	20	79	0	0	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYLOW BROOK** **09/B/04**
 Tributary of : 09B03 BALLYDONNELL BROOK OS Catchment No: 168
 OS Grid Ref of Confluence: O 062 135
 Date(s) Surveyed: 9/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1983	1988	1991	1996	1998	2002	2005	2007	2010
0100	3-4	5	5	4-5	4-5	4-5	4-5	4	4

Assessment: Continuing satisfactory quality. Status again Good as in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballynabrocky Br	306797	213372	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	243	7	100	0	1	8	91	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRITTAS**
 Tributary of : 09L01 LIFFEY
 OS Grid Ref of Confluence: O 025 160
 Date(s) Surveyed: 15/7/2010

09/B/02
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)								
	1983	1988	1991	1996	1998	2002	2005	2007	2010
0100	-	4-5	4	4	3-4*	4-5	3-4	3-4*	3-4*
0300	-	4	3	4	4	4-5	4-5	-	3-4*
0500	4	4	3	3-4	3-4*	4	4-5	4	4

Assessment: A marked deterioration was recorded at Station 0300 where ecological status has fallen from High (Q4-5) in 2005 to Moderate (Q3-4) currently. Heavy substratum siltation contributed to the deterioration at this location and similar siltation was also recorded at the other two points surveyed: cattle manure additionally contributed to the unsatisfactory (Q3-4) conditions at Station 0100. The lower reaches (0500) continued to reflect satisfactory water quality (Q4, Good ecological status). The freshwater crayfish *Austropotamobius pallipes*, a protected species, was recorded at Stations 0300 and 0500 during this survey. * Denotes heavy substratum siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE of Talbotstown House	305598	221227	50	WW
0300	Br NNE of Moanaspick	303055	220697	50	WW
0500	Kilbride Br	302743	218055	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	248	9	100	0	28	32	14	2	0	0	24
0300	222	20	100	0	53	17	6	4	6	0	14
0500	204	30	100	0	58	12	8	3	5	0	14

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAMAC**
 Tributary of : 09L01 LIFFEY
 OS Grid Ref of Confluence: N 137 343
 Date(s) Surveyed: 23/7/2010

09/C/02
 OS Catchment No: 168

Biological Quality Ratings (Q Values)

Station Nos.	1971	1974	1977	1979	1981	1983	1984	1986	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2008	2010
0050	-	-	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-	-	-	-	-
0100	5	5	5	4-5	4-5	3	4-5	3	-	4	-	-	4	-	4	3	3-4	3	4-5	-	4
0150	-	-	-	-	-	-	-	-	-	4	-	-	4-5	-	-	-	-	-	-	-	-
0200	3-4	3	3	3-4	3-4	3	3	2-3	-	2	2/0	2	2	2	2	-	-	-	-	-	-
0250	-	-	-	-	-	-	-	-	-	3	2/0	3	3	-	-	-	2-3	3	3/0	-	3-4
0270	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
0300	1	-	1/0	1/0	1/0	3	3	1/0	3	-	-	-	-	-	-	-	-	-	-	-	-
0310	-	-	-	-	-	-	-	-	-	2-3	2-3	3	3	-	2-3	2-3	3	3	3	-	3
0400	-	-	-	-	1/0	2/0	1	3	1	2-3	1	1	2	1	1	3	-	-	-	-	-
0500	-	-	-	-	1/0	1	1	1	1	2	1	1	2/0	1/0	1-2	1-2	1	2/0	2	2-3	3/0

Assessment: A deterioration from High to Good ecological status, due to suspected agricultural discharges, was recorded in the upper reaches of the Camac River (0100) in 2010. While a minor improvement was apparent below Saggart (0250), indications there and downstream (0310, 0500) were of Poor ecological status with suspected toxic effects at Emmet Road (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NNE of Glenaranean	0	0	50	
0100	Br 1 km SW (u/s) of Saggart	303438	226052	50	DN
0150	Br 1 km NW (d/s) of Saggart	303167	227047	50	
0200	Br N of Brownsbarn	304036	228507	50	DN
0250	Br SE of Baldonnell Ho	304910	229251	50	DN
0270	End of Cherrywood Avenue	0	0	50	
0300	Just d/s Clondalkin Br	0	0	50	
0310	Riversdale Estate Br	307211	231600	50	DN
0400	Kylemore Rd Br	310326	232309	50	DN
0500	Camac Close Emmet Rd (Richmond Park)	312092	233545	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	131	6	100	0	51	29	0	3	16	0	0
0200	95	1	21	79	18	0	0	66	16	0	0
0310	57	18	29	71	30	1	0	43	24	0	2
0400	41	36	14	86	19	0	0	63	17	0	1
0500	20	40	13	87	17	0	0	67	16	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONSHANBO**
 Tributary of : 09L02 LYREEN
 OS Grid Ref of Confluence: N 892 350
 Date(s) Surveyed: 9/7/2010, 21/7/2010

09/C/03
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)								
	1988	1991	1994	1996	1998	2002	2005	2007	2010
0300	3	2	3	2-3	3	3	2-3	3	3
0500	3	-	-	-	-	-	-	-	-
0600	3	2-3	3	3	3	3	3	-	3

Assessment: Continuing moderately polluted (Q3) at both locations where ecological status remains Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Baltracey Br (D/S Side)	287170	233918	49	KE
0500	Br W of Barreen	288540	234010	49	
0600	Frayne's Br	288960	234269	49	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	71	15	0	100	68	15	0	0	17	0	0
0600	66	21	0	100	71	11	0	0	19	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **COCK BROOK**
 Tributary of : Blessington Reservoir
 OS Grid Ref of Confluence: O 019 089
 Date(s) Surveyed: 9/7/2010

09/C/04
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)								
	1983	1988	1991	1996	1998	2002	2005	2007	2010
0100	5	5	5	5	4-5	4-5	4-5	4-5	4-5

Assessment: Indications in 2010 were of no change to the High ecological status (Q4-5) of this Brook.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Kilmore	302126	208819	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	198	5	100	0	0	0	99	0	1	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DODDER**

09/D/01

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: O 178 343

Date(s) Surveyed: 6/7/2010, 23/7/2010, 26/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1979	1981	1984	1988	1991	1996	1998	2002	2005	2007	2010
0010	-	-	-	-	-	-	-	5	5	4	5	5	4	-	4
0100	-	-	5	4-5	5	5	5	-	4	4-5	4-5	4	4-5	4	3-4
0200	-	5	4	3-4	1/0	5	4-5	2	4-5	-	-	-	-	-	-
0300	3	3-4	1/0	2/0	3	3	3-4	4-5	3	4-5	4	3-4	3-4	4	4
0600	-	-	-	-	-	3	4	2-3	-	-	-	-	-	-	-
0620	-	-	-	-	-	-	-	-	3	3	3	3	3	3-4	3
0700	2-3	3	3-4	3	3-4	3	3	2-3	2-3	-	-	-	-	-	-
0800	3-4	2-3	3	3	3	2-3	2-3	2-3	3	3	3	3	3	-	3-4
0900	3-4	1-2	3	3	3	2-3	2-3	3	3	-	-	-	-	3	4
1000	2	1-2	1	2-3	2-3	2	2-3	-	-	-	-	-	-	-	-

Assessment: Ecological status continued to be Good in the upper reaches (0010 & 0300) of the Dodder in 2010 but, following some slight deterioration at Piperstown (0100) and Rathfarnham (0620) and despite a minor improvement at Milltown (0800) indications were of continuing unsatisfactory conditions at these points. By contrast a significant improvement, to Good status, was indicated at Donnybrook (0900).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	1.3 km u/s Reservoir u/s distributary	311079	220233	50	DN
0100	U/s Piperstown Stream	308845	224052	50	DN
0200	Fort Br	0	0	50	
0300	Old Bawn Br	309739	226304	50	DN
0600	Springfield Crescent	0	0	50	
0620	Br on Springfield Ave	313606	228913	50	DN
0700	Dodder Rd d/s Weir	0	0	50	
0800	Milltown Br	316893	230410	50	DN
0900	Footbridge Beaver Row	317750	231200	50	DN
1000	Ballsbridge	0	0	50	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	207	7	100	0	0	0	98	0	2	0	0
0100	121	32	100	0	11	6	66	1	7	1	9
0300	90	38	98	2	18	5	55	2	9	1	11
0620	44	63	76	24	23	4	33	26	7	0	7
0800	19	105	79	21	19	7	25	35	9	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOUGLAS (LIFFEY)**

09/D/02

Tributary of : 09K01 KING'S (LIFFEY)

OS Catchment No: 168

OS Grid Ref of Confluence: N 979 033

Date(s) Surveyed: 9/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2002	2005	2007	2010
0200	4	4-5	4-5	4	4-5	4	4-5	4

Assessment: Somewhat lower faunal diversity indicated a reduction in overall water quality in the Douglas river in 2010: as a consequence its ecological status has fallen from High in 2007 to Good currently.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Granamore Br	297774	203131	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	202	15	100	0	12	13	67	0	0	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNBOYNE STREAM**

09/D/04

Tributary of : 09T01 TOLKA

OS Catchment No: 167

OS Grid Ref of Confluence: O 027 415

Date(s) Surveyed: 22/7/2010

Formerly Tolka Dunboyne Branch 09T01

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1981	1988	1989	1990	1994	1996	1998	2002	2005	2007	2010
0500	2	2	1-2	3	2-3	2	2	2	2	2	2	2-3	3	3	3

Assessment: Continuing moderately polluted/Poor ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Rusk Br	301600	241800	50	MH

River and Code : **GLASHABOY BROOK** **09/G/02**
 Tributary of : 09A01 ANNALECKA BROOK OS Catchment No: 168
 OS Grid Ref of Confluence: O 066 017
 Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)					
	1996	1998	2002	2005	2007	2010
0100	4	3-4*	3/0	4	4	3-4*

Assessment: The Glashaboy Brook was very heavily silted and sensitive macroinvertebrates were not observed at the location surveyed in 2010. Ecological status was assessed as Moderate, a deterioration in comparison with 2007 when status was Good. * Denotes heavy substratum siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glashaboy Br	306557	201692	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	394	1	100	0	0	40	60	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILCULLEN STREAM**

09/K/02

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: N 842 095

Date(s) Surveyed: 19/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1984	1988	1994	1996	1998	2002	2005	2007	2010
0800	-	3	3-4	3	3*	4	2/0	4	3-4
1100	5	3-4	3-4	3-4	3-4*	4	3	-	4

Assessment: A very marked imbalance in faunal composition was apparent at Station 0800 indicating a deterioration from Good to Moderate status since 2007. By contrast a marked improvement was recorded in the lowermost reaches (1100) where Good status had been restored. The protected crayfish *Austropotamobius pallipes* was observed at the lower location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	Br E of Yellowbog	284267	207258	55	KE
1100	Br u/s Liffey R confl	284749	209122	55	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	104	30	100	0	81	0	0	1	18	0	0
1100	102	39	100	0	85	0	0	1	14	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KING'S (LIFFEY)**

09/K/01

Tributary of : Blessington Reservoir

OS Catchment No: 168

OS Grid Ref of Confluence: N 973 052

Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1983	1988	1991	1996	1998	2002	2005	2007	2010
0020	-	5	4-5	4-5	4-5	-	-	-	-
0060	-	-	-	-	-	3-4	4-5	4	4
0100	5	5	4-5	4-5	4	4-5	4	4-5	4

Assessment: Although continuing satisfactory (Good status) at both locations surveyed, a deterioration from High status in 2007 was apparent at Lockstown Bridge (0100) in 2010. Severe bank erosion was noted at the upper location (0060).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Ballinagee Br	303622	202375	56	WW
0060	Br 100m u/s Ballinagee R confl	303310	202040	56	WW
0100	Lockstown Br	297931	203395	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	262	15	100	0	3	6	84	0	0	0	7
0100	199	78	100	0	4	21	61	0	7	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEMONSTOWN STREAM**

09/L/03

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: N 908 096

Date(s) Surveyed: 16/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2002	2005	2007	2010
0100	5	4-5	4-5	4	5	4-5	4-5	5
0400	4-5	4	-	-	-	-	-	-
0600	4	4	3-4	3-4	4	4-5	4-5	4

Assessment: The faunal composition observed in the lower reaches (0600) of the Lemonstown Stream were consistent with waters of Good ecological status; status here was High in 2007. High status continues in the upper reaches, however.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Athgrean	293327	203450	56	WW
0400	Lemonstown Br	291760	205150	55	
0600	2nd Br u/s Liffey R confl	291421	208288	55	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	174	5	100	0	16	39	45	0	0	0	0
0600	135	27	100	0	76	8	13	0	2	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LIFFEY**

09/L/01

Tributary of : Sea - Dublin Bay

OS Catchment No: 168

OS Grid Ref of Confluence: O 123 342

Date(s) Surveyed: 9/7/2010, 15/7/2010, 16/7/2010, 19/7/2010,
20/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1977	1978	1979	1980	1981	1983	1984	1986	1988	1991	1995	1998	2002	2005	2007	2010
0100	-	-	-	-	-	-	5	-	-	-	-	4	4-5	4-5	4-5	5	5	4-5	4-5
0200	-	-	-	-	-	-	5	-	5	-	-	4-5	4-5	4-5	4	5	4	4	3-4
0250	-	-	-	-	-	-	-	-	5	-	-	5	5	5	5	4	4	3-4	4-5
0400	5	5	5	-	3	-	4	-	2	-	3	4	4	2-3*	3-4	3-4*	3-4	3-4	3-4
0500	5	-	4-5	-	3	-	4	-	2	-	3	-	4	4	3-4*	4	4	4	4
0600	5	-	4-5	-	4-5	-	5	-	4-5	-	-	5	4-5	4	4-5	4-5	3-4	4	4
0700	-	-	5	-	4-5	-	5	-	5	-	-	4-5	4-5	4	4-5	4-5	4	4	4
0800	5	-	5	-	-	4-5	5	-	4-5	-	-	4-5	4-5	-	-	-	-	-	-
0850	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4-5	4	4	4
0900	5	4-5	-	4-5	-	4-5	5	5	5	-	-	5	4	-	-	-	-	-	-
1000	2/0	3-4	-	4	-	4-5	3	3-4	3-4	4-5	-	4-5	4	4	4-5	4	4	4	4
1050	2/0	3	-	4-5	-	3	-	-	4-5	4-5	-	5	4	4	4	4	4	4	4
1100	3/0	3-4	3-4	4-5	-	4-5	5	4-5	4-5	-	-	4-5	4-5	-	-	-	-	-	-
1200	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	2	4	4	3-4	3-4
1400	3	3	-	3-4	-	3-4	3-4	4	4-5	-	4-5	4-5	3-4	3-4	3	-	-	-	-
1500	3-4	3-4	4	-	4	-	-	4	4-5	-	-	4-5	3-4	3	3-4	4	3-4	3-4	4
1600	4	4	4	-	3-4	-	-	4	4-5	-	-	4	3-4	3-4	3-4	4	3-4	3-4	4
1610	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3-4	4	-	-	-
1700	4	4	4	-	3-4	-	-	4	4-5	-	-	4	3	3-4	3-4	4	4	3-4	4
1900	3	3-4	4	2-3	3	-	-	3	4	-	3-4	3-4	3-4	-	3	3-4*	3	3	3
2000	-	-	-	-	-	-	-	3	3-4	-	3-4	3-4	3	-	-	-	-	-	-
2100	4	4	4	3	3	-	-	3	3-4	-	3-4	3-4	2-3	2-3	2-3	3	3	3-4	3-4
2327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
2330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-
2360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4
2400	3	3	3	3	3	-	-	3	3	-	2-3	2-3	3	-	-	-	-	-	-

Assessment: Following improvements at several locations, water quality was assessed as satisfactory over most of the Liffey in 2010. A marked improvement was apparent at Ballyward (0250) where High ecological status was restored while minor but significant improvements restored status to Good at Clane (1500), Straffan (1600) and Celbridge (1700). However, water treatment works discharges continued to significantly pollute the river at Leixlip Bridge (1900) where ecological status remained Poor while sewage discharges reduced quality somewhat at Osberstown (1200) and below Leixlip i.e., from Lucan to Chapleizod (2100 & 2360) where ecological status could be classed as Moderate. The protected crayfish *Austropotamobius pallipes* was observed at Ballymore Eustace (0400), New Bridge (0600), Kilcullen (0700), Connell Ford (0850), Victoria Bridge (1050) and Clane (1500).

Hydrometric Area 09 (2010)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	2km NW of Sally Gap	310987	212757	56	WW
0200	Ballysmuttan Br	305636	214857	56	WW
0250	0.5km d/s Ballyward Br (d/s Ballyward Brook conflu)	302385	215906	56	WW
0400	Ballymore Br	292687	209736	56	KE
0500	1km d/s Ballymore Br	292152	210380	56	KE
0600	New Br	287046	209850	55	KE
0700	Kilcullen Br	284214	209758	55	KE
0800	Athgarvan Br	282157	212121	55	KE
0850	Connell Ford	281357	213685	55	KE
0900	Br in Newbridge	280750	215310	55	
1000	2.5 km d/s Newbridge	281811	217827	55	KE
1050	Victoria Br	284062	219519	55	KE
1100	Caragh Br	285486	220770	49	KE
1200	Castlekeely Ford (RHS)	286892	221619	49	KE
1400	Millicent Br	288194	224601	49	KE
1500	Alexandra Br Clane (d/s side)	287985	227075	49	KE
1600	Straffan Turnings Lr (RHS & Mid)	292365	229200	50	KE
1610	Straffan Turnings Lr (LHS)	292378	229199	50	KE
1700	Br in Celbridge	297363	232894	50	KE
1900	Leixlip Br (RHS)	300748	235823	50	DN
2000	D/s Leixlip STP	301858	235837	50	DN
2100	Lucan Br	303486	235516	50	DN
2327	Mill Lane Studio	309180	235210	50	DN
2330	1km u/s Chapelizod Br (Glenaulin P)	309691	234954	50	DN
2360	0.2 km d/s Chapelizod Br (Lynch's)	310341	234172	50	DN
2400	Islandbridge: UCD Boat Club	311750	234110	50	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	348	7	100	0	0	0	100	0	0	0	0
0200	216	69	100	0	4	11	81	0	0	0	4
0250	186	88	100	0	8	12	73	0	0	0	6
0400	118	328	100	0	25	12	43	2	5	6	7
0500	117	334	100	0	26	12	42	2	5	6	7
0600	106	395	100	0	35	11	36	2	5	5	6
0700	100	441	100	0	40	10	33	2	6	5	5
0800	92	N/A	99	1	41	9	32	2	6	4	5
0850	90	454	98	2	41	9	32	2	6	4	5
1000	78	483	92	8	42	9	30	3	7	4	5
1050	74	504	89	11	42	9	30	3	7	4	5
1100	72	560	81	19	45	8	28	3	8	4	4
1200	70	563	81	19	45	8	28	3	8	4	4
1400	67	610	78	22	47	7	26	5	9	3	4
1500	64	620	77	23	47	7	25	5	9	3	4
1600	60	654	73	27	48	7	24	5	10	3	4
1610	60	654	73	27	48	7	24	5	10	3	4
1700	50	797	70	30	52	6	20	5	12	3	3
1900	27	1033	53	47	57	5	15	5	13	2	2
2000	25	N/A	53	47	57	5	15	5	14	2	2
2100	20	1095	52	48	57	5	14	6	15	2	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LYREEN**
 Tributary of : 09R01 RYE WATER
 OS Grid Ref of Confluence: N 942 388
 Date(s) Surveyed: 21/7/2010

09/L/02
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1973	1977	1979	1981	1983	1985	1987	1988	1989	1991	1994	1996	1998	2002	2005	2007	2010
0030	-	-	-	-	-	-	-	-	3	-	2-3	-	-	-	-	-	-	-
0035	-	-	-	-	-	-	-	-	-	-	-	3	2-3	2-3	3	3	3-4	3
0040	-	-	-	-	-	-	-	2-3	3	2-3	1	2	-	-	-	-	-	-
0100	1-2	2	1	2	2	2	1-2	3	2-3	3	2	2-3	2	2-3	2-3	3	3	3

Assessment: Following a deterioration in the upper reaches (0035) the Lyreen was moderately polluted (Poor ecological status) at both locations surveyed in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br S of Treadstown	290950	236660	49	
0035	Br NE of Treadstown	291542	237256	49	KE
0040	U/s Br in Maynooth	293591	237684	50	KE
0100	Just u/s Rye Water confl	294316	238709	50	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0035	60	61	0	100	78	4	0	0	18	0	0
0040	52	85	0	100	73	3	0	2	23	0	0
0100	48	88	0	100	72	3	0	3	22	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAYNE**
 Tributary of : Sea - at Howth
 OS Grid Ref of Confluence: O 239 416
 Date(s) Surveyed: 27/7/2010

09/M/03
 OS Catchment No: 165

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2002	2005	2007	2010
0500	3	3	2-3	2/0	3	3	3	3

Assessment: The Mayne River was again moderately polluted at Hole in the Wall Road in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Wellfield Br	322189	241436	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	10	15	0	100	19	0	0	42	40	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MORELL**
 Tributary of : 09L01 LIFFEY
 OS Grid Ref of Confluence: N 926 921
 Date(s) Surveyed: 7/7/2010, 8/7/2010

09/M/01
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1982	1986	1988	1991	1998	2002	2005	2007	2010
0060	-	-	-	-	-	4	4	4	-	3-4
0080	-	-	4-5	4	4	-	-	-	-	-
0100	3	4	4	4	4	3	3	4	3-4	3
0150	-	-	3	3	3	3*	3	3-4	3-4	3-4
0200	-	3	3	3	3-4	-	-	-	-	-
0250	-	-	-	3	-	-	-	-	-	-
0300	5	4	4	4	3-4	4	4	4	4-5	4

Assessment: On macroinvertebrate criteria, only the lowermost reaches of the Morell River could be classed as satisfactory in July 2010: the uppermost location (0060) was adversely affected by watering cattle, moderate pollution was indicated in Johnstown (0100) and recent dredging contributed to the reduced (Moderate) ecological status at Station 0150. Despite the impoverished macroinvertebrate composition and consequent reduced ecological status, trout were observed at Johnstown (0100) and Sherlockstown (0150).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	(S) Br W of Tipper Ho	291833	218840	55	KE
0080	Bridge near Fishery	291360	220410	49	
0100	Johnstown Br	291908	221522	49	KE
0150	Morell Br	291580	224822	49	KE
0200	Just u/s Painestown River confl	292210	226890	50	
0250	Morell Br (Old)	292300	227310	50	
0300	Morell Br (lower)	292675	228879	50	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	107	13	100	0	76	0	0	13	11	0	0
0100	85	30	87	13	73	2	0	9	16	0	0
0150	71	48	85	15	75	2	0	7	16	0	0
0300	60	100	75	25	74	1	0	8	17	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENADOHER**

09/O/01

Tributary of : 09D01 DODDER

OS Catchment No: 168

OS Grid Ref of Confluence: O 141 292

Date(s) Surveyed: 6/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2002	2005	2007	2010
0800	4	4-5	-	-	-	-	-	-
1100	5	4-5	4-5	4-5	4	4-5	4-5	4
1300	4-5	4	4-5	3-4*	4	3/0	3	4
1700	4	3/0	3	1/0	3-4	3	3-4	3-4

Assessment: Following a significant improvement at Scholarstown Road (1300) the Owenadoher River was in a mostly satisfactory condition in July 2010. Slight pollution continued to be manifest in the lowermost reaches (1700).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	Br on Mt Venus Rd	0	0	50	
1100	Br on Cruagh Rd SW of Delamaine Cottage	313356	223998	50	DN
1300	Scholarstown Road Br	313600	226813	50	DN
1700	Br u/s Dodder R confl	314123	229007	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1100	166	4	100	0	13	43	36	0	6	0	2
1300	80	12	100	0	25	24	28	10	12	0	1
1700	40	0	0	100	0	0	0	100	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **PAINESTOWN**
 Tributary of : 09M01 MORELL
 OS Grid Ref of Confluence: N 922 273
 Date(s) Surveyed: 7/7/2010

09/P/01
 OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)												
	1981	1982	1984	1986	1988	1989	1990	1991	1998	2002	2005	2007	2010
0300	-	3	3	3-4	3-4	-	-	3	3-4	1-2	3	-	3
0400	3	1	1	2	1	1-2	1-2	3	3-4	3-4	3-4	3-4	3
0450	-	-	-	3	2-3	2-3	-	3	-	-	-	-	-
0470	-	-	-	-	-	-	-	-	-	4	-	-	-
0500	4	3	4	3	3-4	-	-	3-4	4	-	-	-	-

Assessment: The Painestown River was in a Poor ecological condition in 2010. Both locations surveyed were heavily silted and there were characteristic indications of greatly enhanced eutrophication at Kill village (0300) where a single specimen of the protected crayfish *Austropotamobius pallipes* was observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge in Kill Village	294184	222906	50	DN
0400	Painestown Br	294012	224325	50	DN
0450	Bridge N. of Alasty	293800	225700	50	
0470	Br 300m u/s Morell R confl	292390	226430	50	DN
0500	Just u/s Morell River confl	292186	227063	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	96	7	100	0	73	0	0	16	11	0	0
0400	81	13	100	0	75	0	0	14	11	0	0
0500	65	40	87	13	74	1	0	8	18	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **PINKEEN**
 Tributary of : 09T01 TOLKA
 OS Grid Ref of Confluence: O 053 410
 Date(s) Surveyed: 22/7/2010

09/P/02
 OS Catchment No: 167

Station Nos.	Biological Quality Ratings (Q Values)					
	1996	1998	2002	2005	2007	2010
0400	3	2-3	-	-	-	-
0700	1	3	3	3	3-4	2-3

Assessment: This minor stream was badly affected by manure from watering cattle at the location surveyed in late July 2010. As a consequence its ecological status was no better than Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br S of Nuttstown Cross	304512	244617	50	MH
0700	Br SW of Powerstown	305813	242458	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	70	7	0	100	64	0	0	0	36	0	0
0700	63	6	0	100	13	0	0	15	72	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RATHMORE STREAM**

09/R/02

Tributary of : 09M01 MORELL

OS Catchment No: 168

OS Grid Ref of Confluence: N 916 220

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1982	1986	1988	1991	1998	2002	2005	2007	2010
0100	4-5	4	4-5	4	3-4	4	4-5	4-5	-	3-4
0200	4-5	3-4	4	4	3-4	4-5	4	4-5	4	4
0300	5	3-4	4	4	3-4	4	4-5	4-5	-	3-4

Assessment: Overall the quality profile of the Rathmore Stream was considerably reduced in 2010 as compared with its previous status: watering cattle contributed to the reduced (Moderate) status at Station 0100 but there were no obvious reasons for the decline at Station 0300. Although there were signs of enhanced eutrophication at Station 0200 quality there continued to be satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge at Rathmore	296020	219497	56	KE
0200	Bridge S.W. of Arthurstown	294988	220883	50	KE
0300	Tobenavoher Br	292598	221873	50	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	167	1	100	0	83	0	0	0	17	0	0
0200	132	12	100	0	85	0	0	0	14	0	0
0300	88	15	96	4	86	0	0	0	14	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RYE WATER**

09/R/01

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: O 006 359

Date(s) Surveyed: 21/7/2010, 22/7/2010

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1973	1975	1977	1979	1981	1983	1985	1988	1989	1990	1991	1996	1998	2002	2005	2007	2010
0090	-	-	-	-	-	-	-	-	2-3	-	-	3	-	-	-	-	-	-
0100	4-5	4	3-4	3-4	3-4	3-4	3	3-4	3	-	-	3	3-4	3-4	4	3-4	4	3-4
0200	1-2	1-2	2	1	1	2-3	1/0	2-3	2/0	-	2	3/0	3-4	3*	3	-	-	-
0300	2	4	3	2-3	3	3-4	1	3-4	2-3	3	-	3-4	3-4	3	3-4	4	3-4	3-4
0350	-	-	-	-	-	-	1	3-4	3	3-4	-	3	-	-	-	-	-	-
0400	2	3-4	1	1	2-3	3	1	2-3	2	2-3	-	3	3	3	3	3	3-4	3
0500	3-4	4	3	3	3-4	4	3	4	3-4	-	-	3-4	3	3	3-4	-	-	-
0600	4	4	3-4	3-4	4	4	3-4	-	3-4	-	-	3-4	3	3	3	3/0	3	3

Assessment: The Rye water was in an unsatisfactory condition at the time of this survey in late July 2010. Enhanced eutrophication and calcification reduced the ecological status to Moderate in the upper reaches (0100, 0300) and to Poor status below the Lyreen River confluence (0400 and 0600). The protected crayfish *Austropotamobius pallipes* was observed at Anne's Bridge (0300) and again at Leixlip (0600).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	Nr Ferrans Lock	285707	241887	49	MH
0100	Balfeaghan Br	288059	240625	49	MH
0200	500 m d/s Kilcock Br	289038	239440	49	MH
0300	Anne's Br	293012	239467	50	MH
0350	Just u/s Lyreen R confl	294294	238793	50	MH
0400	Kildare Br	294607	238610	50	MH
0500	Sandford's Br	297902	237593	50	KE
0600	Br in Leixlip	300427	235996	50	KE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	74	17	0	100	90	0	0	2	8	0	0
0100	69	32	0	100	95	0	0	1	4	0	0
0200	66	36	0	100	94	0	0	3	4	0	0
0300	54	56	0	100	92	0	0	2	6	0	0
0350	48	80	0	100	92	0	0	1	7	0	0
0400	48	168	0	100	81	1	0	2	15	0	0
0500	40	193	0	100	80	2	0	2	16	0	0
0600	28	204	0	100	78	2	0	3	16	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SANTRY**
 Tributary of : Sea - at Dollymount
 OS Grid Ref of Confluence: O 203 376
 Date(s) Surveyed: 22/7/2010

09/S/01
 OS Catchment No: 166

Station Nos.							Biological Quality Ratings (Q Values)				
	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2010
0300	1	1	1	2/0	1	2	1-2	2	2-3	2-3	3
0800	1	-	-	-	-	-	-	-	-	-	-

Assessment: A slight improvement was recorded at Clonshaugh in 2010 but despite this quality remains Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Clonshaugh Rd Br	318793	240030	50	DN
0800	Harmonstown Rd Br	0	0	50	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	0	9	0	100	4	0	0	67	29	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOLKA**

09/T/01

Tributary of : Sea - Dublin Bay

OS Catchment No: 167

OS Grid Ref of Confluence: O 176 358

Date(s) Surveyed: 22/7/2010, 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)																				
	1971	1973	1975	1977	1979	1981	1983	1985	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2008	2010
0100	-	-	-	-	1	4	3-4	3	-	3	-	-	3	3	-	-	-	-	-	-	-
0130	-	-	-	-	3	3	4	3	-	3	-	-	-	3	-	-	-	-	-	-	-
0140	-	-	-	-	-	-	-	-	-	3	-	-	3	3	-	-	-	-	-	-	-
0300	-	-	-	-	-	3-4	-	3	-	3	-	-	3	3	2	3	3	3-4	3-4	-	3
0310	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-	-	-	-
0400	-	-	-	-	3-4	3-4	3-4	3-4	-	3	-	-	3	3-4	-	-	-	-	-	-	-
0600	4-5	4	3-4	3-4	3-4	3-4	3-4	3-4	-	2	2	2	2-3	3	3	3	3-4	3-4	3-4	-	3
0700	3-4	3-4	2-3	3-4	2-3	3	2-3	2-3	-	2	-	-	2	2-3	-	-	-	-	-	-	-
0800	1	2	2-3	3-4	3	3	3	2	3	2	2-3	-	2-3	3	2-3	3	3	3	2-3	-	2-3
0900	2-3	3-4	4	3-4	3	3-4	3-4	3	-	2	3	-	3	3	-	-	-	-	-	-	-
1000	4	4	2-3	3	2-3	2-3	2-3	2-3	-	2-3	3	-	2-3	-	3	2-3	2-3	3	2	2-3	-
1050	4-5	-	-	-	-	3	3	3	-	3	3	-	3	3	-	-	-	-	-	-	-
1100	1	1	1/0	1	1	3/0	1/0	2	2	1-2	1-2	1	1/0	2-3/0	3	2-3	2-3	2/0	3	-	3
1200	1	1	-	1	1	1-2	2	2	2	2	1/0	1-2	2	2-3	-	-	-	-	-	-	-

Assessment: Ecological quality was again Poor at each of the four sites surveyed on the Tolka in late July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Portan Br	0	0	50	
0130	3d Br d/s Portan Br	0	0	50	
0140	Br at Woodpark Stud	0	0	50	
0300	Br at Black Bull	300722	245600	50	MH
0310	Br W of The Flat House	0	0	0	
0400	Br NNE of Dunboyne	0	0	50	MH
0600	Loughsallagh Br	302782	241683	50	MH
0700	Clonee Br	0	0	50	
0800	Mulhuddart Br	306710	240384	50	DN
0900	Old Corduff Rd Br u/s Blanchardstown	0	0	50	
1000	Dunsink Lane Br (Abbotstown Br)	309292	238346	50	DN
1050	Cardiff's Br	312422	237746	50	
1100	Violet Hill Drive Finglas	314313	237425	50	DN
1200	Drumcondra Rd Br	316200	236730	50	

Hydrometric Area 09 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	75	18	0	100	80	0	0	1	19	0	0
0600	64	44	0	100	83	0	0	3	15	0	0
0800	52	103	0	100	67	0	0	10	23	0	0
1000	40	116	0	100	61	0	0	17	22	0	0
1100	15	136	0	100	53	0	0	27	20	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

ERBD: HYDROMETRIC AREA NO. 09

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Annalecka Brook	2010	09A01	0.0	0.0	4.0	0.0	0.0	4.0	
Ballinagee	2010	09B08	0.0	3.5	0.0	0.0	0.0	3.5	
Ballydonnel Brook	2010	09B03	0.0	5.0	0.0	0.0	0.0	5.0	
Ballylow Brook	2010	09B04	0.0	3.5	0.0	0.0	0.0	3.5	
Brittas	2010	09B02	0.0	4.6	5.9	0.0	0.0	10.5	
Camac	2010	09C02	0.0	4.5	6.6	8.4	0.0	19.5	
Clonshanbo	2010	09C03	0.0	0.0	0.0	4.0	0.0	4.0	
Cock Brook	2010	09C04	2.5	0.0	0.0	0.0	0.0	2.5	
Dodder	2010	09D01	0.0	14.0	4.4	2.2	0.0	20.5	
Douglas (Liffey)	2010	09D02	0.0	3.5	0.0	0.0	0.0	3.5	
Dunboyne Stream	2010	09D04	0.0	0.0	0.0	2.5	0.0	2.5	
Glashaboy Brook	2010	09G02	0.0	0.0	2.0	0.0	0.0	2.0	
Kilcullen Stream	2010	09K02	0.0	1.8	4.3	0.0	0.0	6.0	
Kings (Liffey)	2010	09K01	0.0	16.0	0.0	0.0	0.0	16.0	
Lemonstown Stream	2010	09L03	7.0	2.0	0.0	0.0	0.0	9.0	
Liffey	2010	09L01	18.5	60.2	19.7	1.8	0.0	100.0	
Lyreen	2010	09L02	0.0	0.0	0.0	8.0	0.0	8.0	
Mayne	2010	09M03	0.0	0.0	0.0	2.0	0.0	2.0	
Morell	2010	09M01	0.0	2.5	6.9	1.7	0.0	11.0	
Owendoher	2010	09O01	0.0	6.8	0.2	0.0	0.0	7.0	
Painestown	2010	09P01	0.0	0.0	0.0	6.0	0.0	6.0	
Pinkeen	2010	09P03	0.0	0.0	0.0	2.5	0.0	2.5	
Rathmore Stream	2010	09R02	0.0	4.0	3.0	0.0	0.0	7.0	
Rye Water	2010	09R01	0.0	0.0	13.0	8.0	0.0	21.0	
Santry	2010	09S01	0.0	0.0	0.0	5.0	0.0	5.0	
Tolka	2010	09T01	0.0	0.0	0.0	28.0	0.0	28.0	
Total Length (km) surveyed this cycle			28.0	131.8	69.9	80.0	0.0	309.5	
Adjustments (See below)*			0.0	0.0	0.0	-2.0	0.0	-2.0	
Current Length (km) Adjusted			2010	28.0	131.8	69.9	82.0	0.0	311.5
Percentages (Unadjusted)				9.0	42.3	22.4	26.3	0.0	100.0
Channel Length (km) in Class				A	B	C	D	Total	
Baseline: Current Adjusted Status (km)			2010-'12	159.7	69.9	82.0	0.0	311.5	
<i>Percentages</i>				51.3	22.4	26.3	0.0	100.0	
Baseline: Previous Unadjusted (km)**			2007-'09	47.8	102.7	111.0	50.0	311.5	
<i>Percentages</i>				15.3	33.0	35.6	16.1	100.0	
Changes since Previous Survey (km)				-19.9	29.1	-41.1	32.0	0.0	

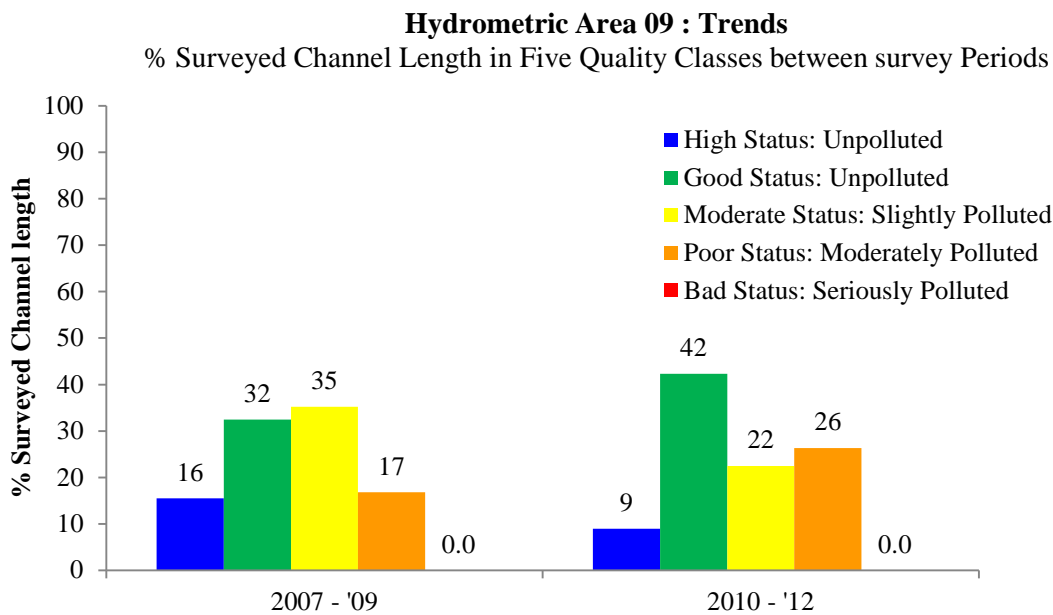
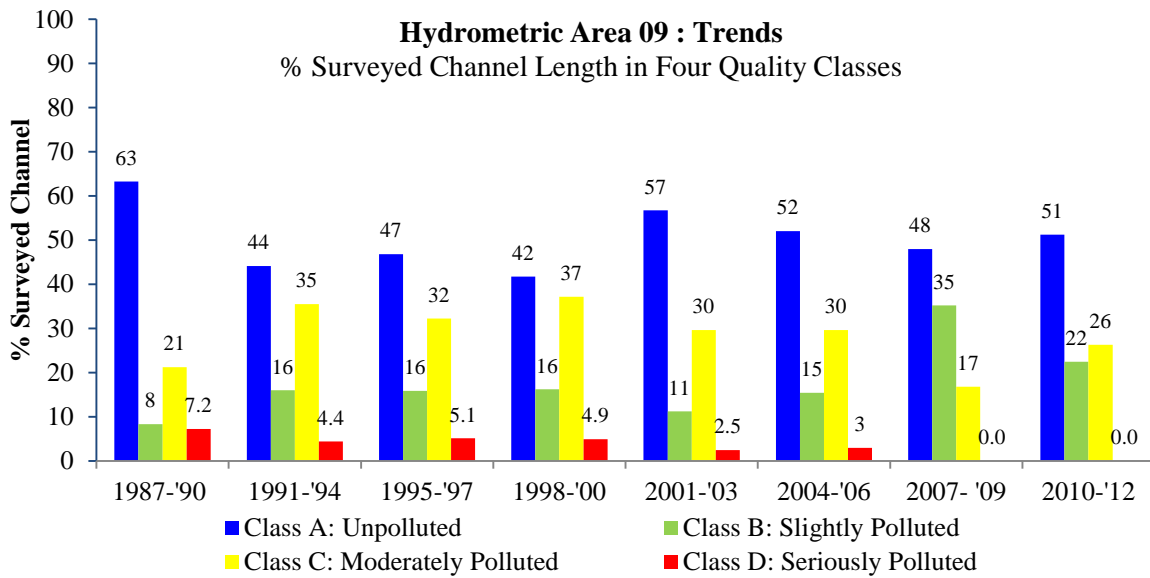
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Poddle (09P03) not surveyed in 2010.

**Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of sites at WFD status	2007-'09	2010-'12
High	11	4
Good	17	26
Moderate	20	20
Poor	18	21
Bad	2	0
<hr/>		
Total number of sites surveyed	68	71
Total number of sites at unsatisfactory status	40	41



HYDROMETRIC AREA 11 (Owenavorrhagh)	
ASKINCH UPPER STREAM *	11A03
AUGHBOY (WEXFORD)	11A02
BALLYEDMOND	11B01
BANOGE	11B02
BLACKWATER (WEXFORD)	11B03
BRACKAN	11B04
CLONOUGH	11C01
GORTEEN UPPER STREAM *	11G01
INCH (WEXFORD)	11I01
OWENAVORRAGH	11O01

* ASKINCH UPPER STREAM Formerly Clonough North West Branch 11C01

* GORTEEN UPPER STREAM Formerly Inch North Branch 11I01

River and Code : **ASKINCH UPPER STREAM**

11/A/03

Tributary of : 11C01 CLONOUGH

OS Catchment No: 176

OS Grid Ref of Confluence: T 2035 68

Date(s) Surveyed: 9/9/2010

Formerly Clonough North West Branch 11C01

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1993	1994	1995	1998	2001	2005	2007	2010
0035	2-3	2*	2-3	2-3	2-3	3*	3	2-3	3

Assessment: Slight improvement recorded but ecological quality remains Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0035	Br d/s Ballykilty Br	320304	169061	62	WX

River and Code : **AUGHBOY (WEXFORD)**

11/A/02

Tributary of : 11O01 OWENAVORRAGH

OS Catchment No: 177

OS Grid Ref of Confluence: T 200 562

Date(s) Surveyed: 10/9/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1989	1993	1995	1998	2001	2005	2007	2008	2009	2010
0180	3	3	2	1	2	3	2-3	-	-	2-3
0200	-	-	-	-	-	-	2*	2	2-3*	-

Assessment: No change. Poor ecological quality continues.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0180	Riverchapel Br	319604	155346	69	WX
0200	Br at Riverchapel	319605	155347	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0180	6	12	100	0	93	0	0	4	3	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYEDMOND**

11/B/01

Tributary of : 11O01 OWENAVORRAGH

OS Catchment No: 177

OS Grid Ref of Confluence: T 157 462

Date(s) Surveyed: 13/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0300	3-4	3	3	3	3	3	3	3
0400	3-4	3	3	3	3-4*	-	-	-

Assessment: Ecological quality has not changed since 2007: it continues to be Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Ballyedmond (Old) Br	312881	145165	69	WX
0400	Cullentra Br	315653	146068	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	49	11	100	0	51	0	0	0	49	0	0
0400	36	17	100	0	54	0	0	0	46	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BANOGE**
 Tributary of : 11O01 OWENAVORRAGH
 OS Grid Ref of Confluence: T 160 562
 Date(s) Surveyed: 9/9/2010

11/B/02
 OS Catchment No: 177

Station Nos.	Biological Quality Ratings (Q Values)											
	1980	1982	1984	1986	1988	1993	1995	1998	2001	2005	2007	2010
0050	-	-	-	4	5	5	3	4	4	3-4	-	3-4
0100	3	3	3	3	-	-	-	-	-	-	-	-
0110	-	-	-	-	2-3	3	2	2-3	2-3	-	-	-
0200	2	2-3	3	3	2-3	-	-	-	-	-	2-3	2-3
0300	3	2-3	3	3	2-3	3	3	3	3	2-3	3	3

Assessment: As in previous surveys the ecological quality of the Banoge River was Moderate upstream of Gorey and Poor at both locations surveyed below the town in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br near Killynann	315391	162271	62	WX
0100	Br just NE of Gorey	0	0	0	
0110	Br at E side of Gorey	315971	159613	69	WX
0200	2 km S of Gorey (Knockduff)	315750	157993	0	
0300	Br u/s Owenavorrach R	315952	156318	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	66	3	100	0	47	0	0	0	42	0	11
0110	36	11	100	0	35	5	0	11	41	0	8
0300	16	27	100	0	49	2	0	10	37	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKWATER (WEXFORD)**

11/B/03

Tributary of :

OS Catchment No: f2

OS Grid Ref of Confluence: T 138 122

Date(s) Surveyed: 13/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0100	4-5	-	-	-	-	-	-	-
0130	-	4	4	3	-	-	-	-
0200	4	-	3	3	3	4	3-4	3-4
0300	4	3-4	-	-	-	-	3-4	-

Assessment: Slight pollution again reduced ecological quality to Moderate in the Blackwater River in September 2010 and as such conditions were broadly similar to those recorded in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Garryvadden Br	0	0	0	
0130	Br d/s Garryvadden Br	311642	134030	77	WX
0200	Footbridge E of Blackwater at Mill	312880	133908	77	WX
0300	River Gap	313732	132167	0	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0130	22	18	100	0	61	2	0	0	37	0	0
0200	15	37	100	0	61	1	0	1	37	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRACKAN**
 Tributary of : 11O01 OWENAVORRAGH
 OS Grid Ref of Confluence: T 148 545
 Date(s) Surveyed: 10/9/2010

11/B/04
 OS Catchment No: 177

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1985	1989	1993	1995	1998	2001	2005	2007	2010
0100	3-4	2	4-5	3	4	4	4	4	-	4
0200	3-4	2-3	4	3	3	3-4*	3-4*	4	4	3-4

Assessment: Ecological quality remained Good at Toberanierin Bridge in 2010 but there were indications of some upset at Essex Bridge where quality was assessed as just Moderate: this represents a slight deterioration since 2007 at this site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Toberanieran Br	311302	153519	69	WX
0200	Essex Br	314746	154286	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	31	11	100	0	57	2	0	0	41	0	0
0200	23	36	100	0	64	1	0	0	33	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONOUGH**
 Tributary of : 11I01 INCH (WEXFORD)
 OS Grid Ref of Confluence: T 213 664
 Date(s) Surveyed: 9/9/2010, 11/9/2010

11/C/01
 OS Catchment No: 176

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1985	1989	1993	1995	1998	2001	2005	2007	2010
0050	-	-	4-5	4-5	3	3	-	4	-	3-4
0100	3-4	3-4	2-3	1	3	3	3*	-	3	-
0200	4	2-3	-	-	-	-	-	-	-	-
0300	-	2-3	3	2	2-3	3	3	4	3	3-4

Assessment: Quality was no better than Moderate at both locations surveyed on the Clonough River in 2010. This represents a slight deterioration upstream of Coolgreany (0050) but some improvement below the village (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SW of Coolgreany	318826	169258	62	WX
0100	Br ENE of St Austin's Ho	320000	168698	62	WX
0200	Ballylarkin Br	0	0	0	WX
0300	Clonough Br	321087	166882	62	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	43	8	100	0	56	12	1	2	25	0	5
0100	27	10	100	0	51	10	1	3	32	0	4
0300	11	22	100	0	62	6	0	1	29	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GORTEEN UPPER STREAM** **11/G/01**
 Tributary of : 11I01 INCH (WEXFORD) OS Catchment No: 176
 OS Grid Ref of Confluence: T 178 665
 Date(s) Surveyed: 9/9/2010

Formerly Inch North Branch 11I01

Station Nos.	1989	1993	1995	1998	Biological Quality Ratings (Q Values)			
	2001	2005	2007	2010				
0040	5	5	3	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s Inch River confl	317626	166836	62	WX

River and Code : **INCH (WEXFORD)**

11/I/01

Tributary of :

OS Catchment No: 176

OS Grid Ref of Confluence: T 238 638

Date(s) Surveyed: 9/9/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1981	1983	1985	1989	1993	1995	1998	2001	2005	2007	2010
0095	-	-	-	3-4	4	3	4	-	3-4	-	4
0130	-	-	-	-	-	-	-	-	-	4	-
0150	-	-	-	5	3-4	3	3-4	3-4	-	-	-
0200	2	3-4	3	3	2-3	3	3	3*	4	3-4	3-4

Assessment: The Inch River was heavily silted at both locations surveyed in 2010 but despite this ecological quality had improved somewhat and was satisfactory at the upper site (0095) but quality remained unsatisfactory at Castletown Bridge where it was again Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0095	Br in Inch	319027	166849	62	WX
0130	Br 1.5 km d/s Inch Village	320224	166500	0	WX
0150	Br u/s Clonough R confl	320881	166442	62	WX
0200	Castletown Br	321712	164970	62	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0095	22	35	100	0	56	5	0	0	36	0	3
0150	10	36	100	0	57	5	0	0	35	0	3
0200	6	64	100	0	60	5	0	0	32	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENAVORRAGH**

11/O/01

Tributary of :

OS Catchment No: 177

OS Grid Ref of Confluence: T 203 561

Date(s) Surveyed: 10/9/2010, 13/9/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1981	1983	1986	1989	1993	1995	1998	2001	2005	2007	2010
0080	-	-	-	-	-	3	4	4	4-5	3-4	4
0100	3-4	3-4	3-4	3-4	-	-	-	-	-	-	-
0200	-	-	-	-	-	-	3-4	3*	-	-	-
0300	3-4	4	3-4	3-4	3-4	3	3-4	3	3-4	4	3-4
0400	3-4	4	4	4	4	3-4	3-4	-	-	3-4	-
0500	3-4	4	3-4	4-5	3-4	3-4	3-4	3-4	4	3	3-4
0580	-	-	-	-	4	3-4	3-4	3	3-4	-	4
0600	3-4	4	3-4	4	-	-	-	-	-	3-4	-
0700	4	4	3-4	4	4	4	3-4	4	3-4	3	4

Assessment: Following slight improvements, the upper (0080) and lower (0580, 0700) reaches of the Owenavorrhagh River were in a satisfactory (Good) condition in September 2010 but ecological quality was just Moderate at Killenagh (0300) and Ballinamona (0500) where the river is adversely impacted by suspected sewage discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Ballynahown Br	312901	141749	69	WX
0100	Tomgarrow Br	0	0	0	WX
0200	Corbally Br	315808	146104	69	WX
0300	Br SW of Killenagh	316171	149821	69	WX
0400	Ballycanew Br	315225	151979	69	WX
0500	Essex Br	315012	154146	69	WX
0580	Br just u/s Banoge R confl	315879	156083	69	WX
0600	Boleany Br	317009	156050	69	WX
0700	Ballinatray Br	319016	156613	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	47	14	100	0	54	0	0	0	46	0	0
0200	35	32	100	0	71	1	0	0	28	0	0
0300	31	61	100	0	67	1	0	0	33	0	0
0400	27	76	100	0	67	1	0	0	32	0	0
0500	22	83	100	0	69	1	0	0	30	0	0
0580	15	123	100	0	67	1	0	0	31	0	0
0600	9	152	100	0	64	1	0	2	32	0	1
0700	4	155	100	0	64	1	0	2	32	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

SERBD: HYDROMETRIC AREA NO. 11

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Askinch Upper Stream	2010	11A03	0.0	0.0	0.0	1.5	0.0	1.5
Aughboy	2010	11A02	0.0	0.0	0.0	2.0	0.0	2.0
Ballyedmond	2010	11B01	0.0	0.0	0.5	3.0	0.0	3.5
Banoge	2010	11B02	0.0	0.0	1.7	3.8	0.0	5.5
Blackwater (Wexford)	2010	11B03	0.0	0.0	5.5	0.0	0.0	5.5
Brackan	2010	11B04	0.0	6.5	0.5	0.0	0.0	7.0
Clonough	2010	11C01	0.0	0.0	6.5	0.0	0.0	6.5
Gorteen Upper Stream	2010	11G01	0.0	3.0	0.0	0.0	0.0	3.0
Inch (Wexford)	2010	11I01	0.0	6.5	3.0	0.0	0.0	9.5
Owenavorrageh	2010	11O01	0.0	19.5	8.6	0.0	0.0	28.0
Total Length (km) surveyed this cycle	2010		0.0	35.5	26.3	10.3	0.0	72.0
Adjustments (See below)*			0.0	0.0	0.0	0.0	0.0	0.0
Current Length (km) Adjusted	2010		0.0	35.5	26.3	10.3	0.0	72.0
Percentages			0.0	49.2	36.5	14.3	0.0	100.0
Channel Length (km) in Class	2010-'12			A	B	C	D	Total
Baseline: Current adjusted Status (km)				35.5	26.3	10.3	0.0	72.0
<i>Percentages</i>				49.2	36.5	14.3	0.0	100.0
Baseline:Previous Unadjust. Status (km)**	2007-'09		0.0	28.0	24.0	20.0	0.0	72.0
<i>Percentages</i>			0.0	38.9	33.3	27.8	0.0	100.0
Changes since Previous Survey (km)			0.0	7.5	2.3	-9.7	0.0	0.0

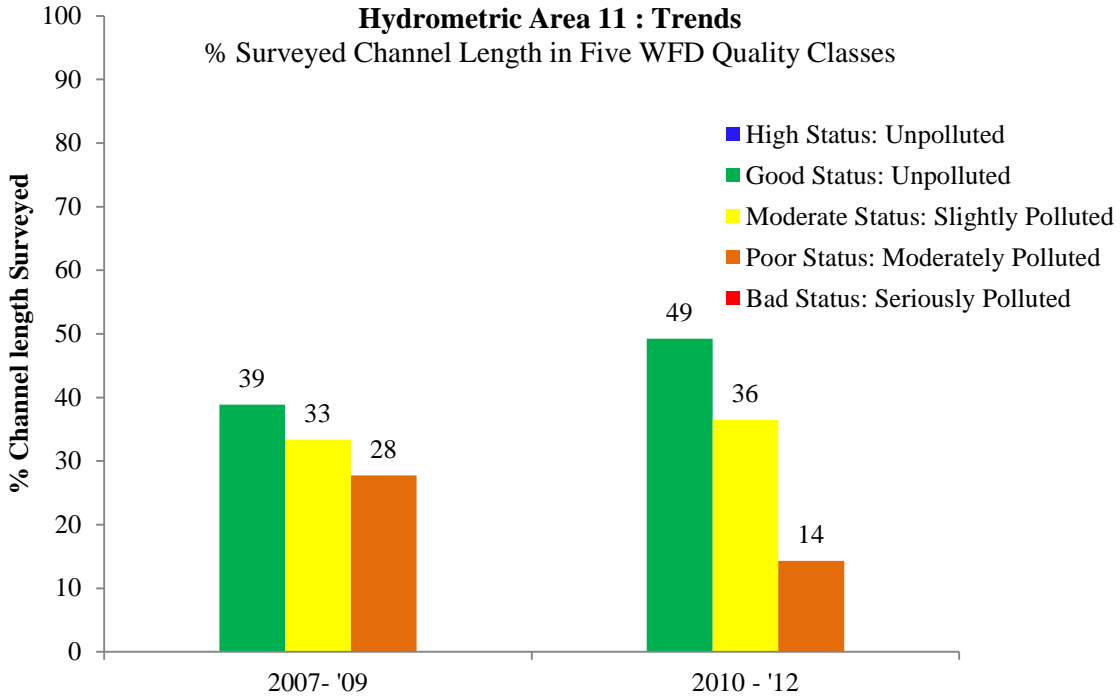
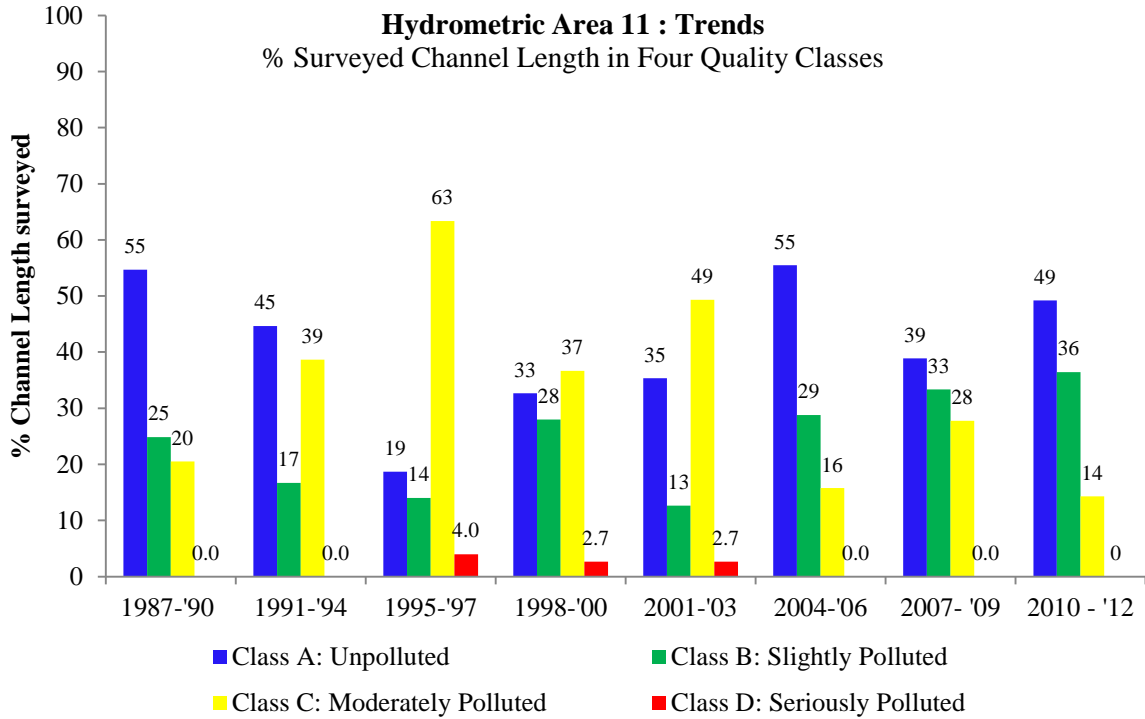
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-):

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of sites at WFD status	2007-'09	2010-'12
High	0	0
Good	4	6
Moderate	6	8
Poor	10	5
Bad	0	0
Total number of sites surveyed	20	19
Total number of sites at unsatisfactory status	16	13



HYDROMETRIC AREA 12 (Slaney & Wexford Harbour)	
ASKINVILLAR STREAM	12A03
BALLAGHMORE DISTRIBUTARY	12B12
BALLINGALE STREAM	12B06
BALLYCARNEY STREAM	12B07
BANN	12B01
BLACKLION STREAM (CARLOW)	12B04
BLACKWATER STREAM (BANN)	12B08
BORO	12B02
BORRIS STREAM (SLANEY)	12B05
BROWN'S BECK BROOK	12B03
CAMOLIN STREAM	12C08
CARRIGOWER	12C06
CLASHAVEY RIVER	12C10
CLODY	12C03
CLONMORE RIVER (SLANEY)	12C09
COOLBOY STREAM	12C07
CORBALLY STREAM	12C04
DERREEN	12D01
DERRY	12D02
DOUGLAS (BALLON)	12D03
DOUGLAS (KILTEGAN)	12D04
GLASHA (SLANEY)	12G01
KILDAVIN STREAM	12K04
KILLEEN STREAM (BORO)	12K03
KNICKEEN	12K01
LASK	12L01
LITTLE SLANEY	12L02
MINE	12M01
ROSNASTRAW STREAM	12R01
SHILLELAGH	12S01
SLANEY	12S02
SOW	12S03
TINNACROSS STREAM	12T01
TINNOKILLA STREAM	12T02
URRIN	12U01

River and Code : **ASKINVILLAR STREAM**

12/A/03

Tributary of : 12U01 URRIN

OS Catchment No: 175

OS Grid Ref of Confluence: S 864 450

Date(s) Surveyed: 2/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0100	5	-	-	-	-	-	-	-
0200	-	4-5	4	4-5	4-5	4	4-5	4-5
0300	5	-	-	-	-	-	-	-
0400	4-5	4-5	-	-	-	-	-	-

Assessment: Indications are of continuing High ecological status in the Askinvillar Stream in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Whitney's Br	0	0	68	WX
0200	Askinvillar Br	284907	145806	68	WX
0300	0.2km d/s Askinvillar Br	0	0	68	WX
0400	Blacker's Br	0	0	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	99	5	100	0	33	7	60	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLAGHMORE DISTRIBUTARY** **12/B/12**
 Tributary of : 12D03 DOUGLAS (BALLON) OS Catchment No: 175
 OS Grid Ref of Confluence: S842 679
 Date(s) Surveyed: 17/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0990	4-5	3/0	3	3-4	3-4	3	3	3-4

Assessment: The paucity of sensitive macroinvertebrate species indicated unsatisfactory moderate ecological conditions at Sandbrooke Bridge in August 2010. Previously reported as part of the Douglas (Ballon) River (12D030160).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0990	Sandbrooke Br	284204	167972	61	CW

River and Code : **BALLINGALE STREAM**

12/B/06

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 964 498

Date(s) Surveyed: 25/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0300	4	4	3	3-4	4	4	4	3-4
0500	4	3-4	-	4	-	-	-	-
0600	-	-	4-5	-	4	4	-	4
0700	5	3-4	-	-	-	-	-	-
0900	4	4-5	4	4-5	4	3-4*	3*	4

Assessment: Following a significant improvement in its lower reaches (0900) the Ballingale Stream was in a mostly satisfactory condition in August 2010. However, there were signs of some ecological upset at Ballycadden Bridge (0300) where an abundance of black slime and an unbalanced macroinvertebrate community were recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Ballycadden Br	298402	156354	68	WX
0500	Br S of Curraduff X-Rds	297785	154147	69	WX
0600	Br SW of Ballaman	297719	152938	69	WX
0700	Ballymorgan Br	0	0	68	WX
0900	Br u/s Slaney R confl	296748	149813	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	70	9	100	0	32	2	0	0	62	0	4
0500	51	15	100	0	39	1	0	0	57	0	2
0600	41	17	100	0	40	2	0	0	56	0	2
0900	41	17	100	0	40	2	0	0	56	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYCARNEY STREAM**

12/B/07

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 967 490

Date(s) Surveyed: 25/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0300	4-5	4	-	-	-	-	-	-
0400	-	4	3-4	4-5	4	3-4*	-	3-4*
0500	4-5	3-4	-	-	-	-	-	-
0700	4-5	3-4	4	4	4	3-4	4	4

Assessment: The upper Ballycarney Stream (0400) was very heavily silted and of just Moderate ecological status in 2010 but Good status was again recorded in the lower reaches (0700). * Denotes heavy substratum siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Tinnashrule Br	0	0	69	WX
0400	Br d/s Tinnashrule Br	299936	152226	69	WX
0500	Tombrack Br	0	0	69	WX
0700	Br u/s Slaney R confl	296869	148946	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	52	14	100	0	33	6	0	0	54	0	6
0700	13	1006	100	0	50	6	7	1	30	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BANN**

12/B/01

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 985 447

Date(s) Surveyed: 25/8/2010, 26/8/2010, 27/8/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1975	1979	1983	1985	1987	1989	1991	1995	1998	2001	2004	2007	2010
0020	-	-	-	-	-	-	5	5	-	-	-	-	-	-
0100	-	-	-	-	-	-	5	3-4	4	4-5	4	4-5	4-5	4-5
0200	-	-	-	-	-	-	5	4	4-5	4-5	4-5	4-5	4-5	4-5
0300	-	-	4-5	4-5	4-5	-	5	5	4	-	-	-	4	-
0400	5	4	5	4-5	4	-	5	4-5	-	4-5	3-4*	4	4-5	4-5
0450	-	-	-	-	-	-	4-5	4	-	-	-	3-4	4-5	4-5
0500	4-5	4	4	4	4-5	-	4-5	4	-	-	-	-	4	-
0600	4	4	4-5	4	-	4	4-5	4	3-4	3	3	4	4	4
0800	-	-	-	-	-	4	4-5	3-4	-	-	-	-	3-4	3
0900	4-5	4	4	4	-	4	4-5	3	3-4	3-4	3-4	4	4-5	3-4
1000	4-5	4	4	4	-	4	4-5	3-4	4	4-5	3-4	3-4	4	4

Assessment: Indications were of continuing High ecological status over most of the course of the Bann River in late August 2010. A serious deterioration was recorded downstream of Ferns where quality was Poor at Milltown Bridge (0800) and just Moderate at Doran's Bridge (0900): the latter represents a significant drop since 2007 when status was High at that location. The lowermost reaches were again assessed as being of Good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Croghan Br	0	0	62	WX
0100	Pallis Br	311591	168208	62	WX
0200	Br at Hollyfort	312177	164156	62	WX
0300	Kilmichael Br	312049	162098	62	WX
0400	Margerry's Br	311485	159358	69	WX
0450	Island Br	309475	157659	69	WX
0500	Ballydaniel Br	307440	153220	69	WX
0600	Milshoge Br	306357	152217	69	WX
0800	Milltown Br	303195	149400	69	WX
0900	Doran's Br	302213	148485	69	WX
1000	Bann Br	298773	144825	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	152	15	100	0	36	18	20	0	14	0	11
0200	90	41	100	0	57	10	9	0	16	0	8
0300	80	44	100	0	57	11	8	0	17	0	7
0400	63	56	100	0	55	10	6	0	23	0	6
0600	30	116	100	0	53	6	3	1	34	0	3
0900	20	160	100	0	49	7	2	1	38	0	3
1000	10	177	100	0	48	6	2	1	40	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKLION STREAM (CARLOW)** **12/B/04**
 Tributary of : 12D01 DERREEN OS Catchment No: 175
 OS Grid Ref of Confluence: S 870 703
 Date(s) Surveyed: 17/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0200	3	4-5	4	4	3-4*	3-4	3-4*	4
0300	-	-	-	3-4	-	-	-	-
0400	4	4-5	4	-	4	4	4	3-4

Assessment: An improvement to Good status was recorded at Blacklion (0200) but downstream (at 0400), the absence of all mayfly species together with abundant weed and algal growths, pointed to less some significant ecological disruption.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br at Blacklion	289988	167507	61	WW
0300	Br nr Glebe House	288007	169862	61	WW
0400	Br u/s Derreen R confl	287118	170233	61	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	93	5	100	0	32	5	0	0	55	0	7
0300	78	33	100	0	45	2	4	0	44	0	5
0400	74	36	100	0	48	1	4	0	42	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKWATER STREAM (BANN)** **12/B/08**
 Tributary of : 12B01 BANN OS Catchment No: 175
 OS Grid Ref of Confluence: T 120 643
 Date(s) Surveyed: 26/8/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1991	1995	1998	2001	2004	2010
0200	4	4	4	3-4	3	4-5	4-5

Assessment: This little stream continued to be of a High ecological status in 2010 and as such it must retain this status in order to comply with the requirements of the Water Framework Directive.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Blackwater Br	311437	164817	62	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	102	11	100	0	62	7	4	0	27	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BORO**
 Tributary of : 12S02 SLANEY
 OS Grid Ref of Confluence: S 975 359
 Date(s) Surveyed: 2/9/2010, 3/9/2010

12/B/02
 OS Catchment No: 175

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1984	1987	1991	1995	1998	2001	2004	2007	2010
0010	-	-	-	-	-	-	-	-	4	-
0012	-	-	-	-	-	-	-	-	4	-
0020	-	-	4-5	-	-	-	-	-	-	-
0040	-	-	3/0	3-4	3	3*	3-4*	4	4	3-4
0080	-	-	3/0	4	3-4	3-4*	4	4	-	3-4
0200	3-4	4	3-4	-	3-4	3-4*	3-4	4	4	4
0300	3-4	3-4	3-4	4	-	-	-	-	-	-
0340	-	-	-	4	4	3-4*	3-4	4	4	4
0360	-	-	4	-	-	-	-	-	-	-
0400	4	4	4	4	4	3-4*	3-4	4	-	4
0500	-	-	4	4	-	-	-	-	4	-
0600	4	4	4	4	4	3	4	3-4	-	4

Assessment: Indications at the lower four of the six locations surveyed were of Good ecological status but faunal imbalances reflected some ecological upset at the upper two locations. A considerable growth of slime was recorded at Tomanine Bridge (0040): such growths are often found below discharges from water treatment works.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Corragean (Abstr Point)	280397	142347	68	WX
0012	SW. of slievebaun	281310	140949	68	WX
0020	Crooked Br	0	0	68	WX
0040	Tomanine Br	282957	138652	68	WX
0080	Boro Br	286741	137604	68	WX
0200	Ballymackesy Br	289100	135130	68	WX
0300	Ballyeden Br	0	0	68	WX
0340	Ballinvarry Br	291586	132783	68	WX
0360	Br SE of Ballinavary	0	0	68	WX
0400	Br NW of Wilton Castle	294268	135425	68	WX
0500	Ballynapierce Br	295767	136490	68	WX
0600	Kilcarbry Br	297086	136389	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	86	19	100	0	39	27	18	0	14	0	2
0080	55	50	100	0	51	13	8	0	26	0	2
0200	43	85	100	0	51	10	4	0	33	0	1
0340	31	130	100	0	51	7	3	0	38	0	1
0400	17	140	100	0	52	8	3	0	37	0	1
0600	5	179	100	0	51	6	2	0	40	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BORRIS STREAM (SLANEY)**

12/B/05

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 943 533

Date(s) Surveyed: 25/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0200	4	4	-	-	-	-	-	-
0300	4	4	4	4-5	4	3*	4	4

Assessment: Despite considerable substratum siltation, ecological status continued to be Good at the location surveyed in late August 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br NW of Kilrush	0	0	68	WX
0300	Br u/s Slaney R confl	294496	153477	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	26	13	100	0	22	0	0	0	76	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROWN'S BECK BROOK**

12/B/03

Tributary of : 12C06 CARRIGOWER

OS Catchment No: 175

OS Grid Ref of Confluence: S 916 960

Date(s) Surveyed: 11/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0100	4-5	4-5	-	-	-	-	-	4
0200	2-3	4	4	4-5	3-4	2	4	3-4

Assessment: An overall deterioration in water quality was recorded in the Brown's Beck Brook in 2010: the upper location (0100) was heavily silted and although judged as currently Good, its status has fallen from the High recorded in the survey of 1991. Further deterioration was apparent at Donard Bridge (0200) where the unbalanced bottom fauna indicated a status no better than Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Hell Kettle Br	293298	198510	56	WW
0200	Donard Br	292703	197896	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	172	11	100	0	35	18	24	0	8	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAMOLIN STREAM**

12/C/08

Tributary of : 12B01 BANN

OS Catchment No: 175

OS Grid Ref of Confluence: T 064 524

Date(s) Surveyed: 27/8/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1983	1987	1991	1995	1998	2001	2004	2007	2010
0200	-	-	4-5	-	-	-	-	-	-	-
0300	-	-	4	3	4-5	4-5	4	3*	4	3-4
0400	4	4	3-4	3	-	-	-	-	n/s	-

Assessment: This stream had become excessively weedy and was heavily silted when surveyed in late August 2010. Its ecological status was assessed as just Moderate, representing a deterioration since 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ralph's Br	0	0	69	WX
0300	Kilcloran Br	306234	152553	69	WX
0400	Bay Br	305651	151977	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	34	15	100	0	23	18	0	1	55	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARRIGOWER**

12/C/06

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 900 936

Date(s) Surveyed: 11/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0200	4	4	-	-	-	-	-	-
0300	-	-	3-4	3-4	3-4	3-4	3-4	3-4
0400	4	4	-	-	-	-	-	-
0500	5	-	-	-	-	-	-	-
0600	-	4-5	4-5	4-5	3-4	3-4	4	4

Assessment: Unsatisfactory conditions continued in the Carrigower River which was again excessively weedy and heavily silted at Merginstown Bridge (0300) in 2010. Conditions improved over the next 4.5 kilometers and despite the impact of watering cattle, the Ecological status below Whitestown Bridge (0600) was assessed as Good.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SE of Cowpasture	0	0	55	WW
0300	Merginstown Br	291277	198167	55	WW
0400	Carrigower Br	0	0	55	WW
0500	Whitestown Br	0	0	55	WW
0600	Br d/s Whitestown Br	290725	194830	55	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	154	20	100	0	80	4	2	0	12	0	2
0600	135	46	100	0	67	8	7	1	11	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLASHAVEY RIVER** 12/C/10
 Tributary of : 12S02 SLANEY OS Catchment No:
 OS Grid Ref of Confluence: S892 624
 Date(s) Surveyed: 19/8/2010

Station Nos.	2010	Biological Quality Ratings (Q Values)
0500	3-4	

Assessment: As evidenced by the luxuriant weed and algal growth and the faunal composition, this previously unsurveyed little tributary of the Slaney River was in a highly eutrophic condition in 2010. As such its ecological status is just Moderate and hence must be improved.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Clashavey Br	287767	162633	61	CW

River and Code : **CLODY**
 Tributary of : 12S02 SLANEY
 OS Grid Ref of Confluence: S 913 569
 Date(s) Surveyed: 24/8/2010

12/C/03
 OS Catchment No: 175

Station Nos.							Biological Quality Ratings (Q Values)				
	1979	1981	1984	1987	1991	1995	1998	2001	2004	2007	2010
0080	-	-	-	4	4-5	4	4-5	4-5	4-5	4-5	4-5
0100	-	-	-	4	-	-	-	-	-	4	-
0200	5	4	3-4	4	4-5	4	4-5	4-5	5	5	4-5
0300	3-4	4	3-4	4	3-4	3/0	4-5	3-4	4	-	4

Assessment: Overall ecological status remains as previously i.e., High as far as Bunclody and then Good thereafter. However, the presence of black slime on the newly installed metal weir at Station 0200 and the reduced numbers of sensitive macroinvertebrates there is a worrying development. Increasing housing density in the catchment may be having an adverse effect on water quality of this river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br near Source	286115	155292	68	WX
0100	Ford NE of Craan	286855	155018	68	WX
0200	Ford (Br) 3km u/s Bunclody	289667	154957	68	WX
0300	Clody Br Bunclody	291006	156850	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	121	12	100	0	6	39	37	0	12	0	6
0200	63	28	100	0	20	21	30	0	24	0	5
0300	34	36	100	0	21	18	25	1	28	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONMORE RIVER (SLANEY)**

12/C/09

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 297 131

Date(s) Surveyed: 3/9/2010, 8/9/2010

Station Nos.	2010	Biological Quality Ratings (Q Values)
0050	4	
0100	4	

Assessment: This previously unsurveyed stream was in a satisfactory biological condition (Good status) at both locations surveyed in early September 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Clonmore Br	294508	131102	77	WX
0100	Mackmine Br (on Side Road)	296461	131293	77	WX

River and Code : **COOLBOY STREAM**

12/C/07

Tributary of : 12D02 DERRY

OS Catchment No: 175

OS Grid Ref of Confluence: T 009 689

Date(s) Surveyed: 20/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0200	4	4	4	4	4	4	4	n/s
0300	-	-	-	-	-	-	-	3
0500	4	4	-	-	-	-	-	-
0700	4-5	-	4-5	4-5	4-5	4-5	4-5	4

Assessment: The more sensitive macroinvertebrate species were not observed at Coolboy Bridge (0300) indicating some ecological imbalance there and consequently a rating of Poor had to be ascribed. Downstream, at Lattin Bridge (0700) heavy siltation reduced status to Good from a previous High in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Coolboy Br	304471	168439	62	WW
0300	Coolboy Bridge	303898	169145	62	WW
0500	Br NW of Coolboy	0	0	62	WW
0700	Lattin Br	301003	168845	62	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	84	11	100	0	39	12	0	0	25	0	24
0700	66	101	100	0	52	7	2	1	19	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CORBALLY STREAM**

12/C/04

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 995 421

Date(s) Surveyed: 27/8/2010, 30/8/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1991	1994	1995	1998	2001	2004	2007	2010
0200	2	3	1	2	3-4	3	3	4	-	3-4
0300	3	-	3	3-4	-	-	-	-	3-4	4
0400	-	-	-	-	3	4-5	3	4-5	-	4
0500	4	-	-	-	-	-	-	-	-	-
0600	4-5	-	-	-	4	4-5	3-4*	4-5	4	4
0700	-	-	4	-	-	-	-	-	-	-
0900	3-4	-	3	-	4	4	4	3-4*	4	4

Assessment: This stream was in a mostly satisfactory (Good status) condition when surveyed in 2010 but excessive siltation and weed growth indicated some adverse impacts at Kilcormick Bridge (0200) where status was reduced to Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Kilcormick Br	307395	143956	69	WX
0300	Ballincash Br	305750	142110	69	WX
0400	Ballymoty Br	304456	141076	69	WX
0500	Br d/s Ballymoty Br	0	0	69	WX
0600	Cooladine Br	301619	139502	69	WX
0700	Corbally Br	0	0	69	WX
0900	White's Br	299506	141965	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	61	11	100	0	66	0	0	0	31	0	3
0400	45	38	100	0	51	0	0	0	48	0	1
0600	35	48	100	0	52	0	0	0	47	0	1
0900	5	56	100	0	50	0	0	0	50	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERREEN**

12/D/01

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 854 689

Date(s) Surveyed: 12/8/2010, 13/8/2010, 16/8/2010

Station Nos.	Biological Quality Ratings (Q Values)												
	1976	1980	1983	1986	1989	1991	1994	1995	1998	2001	2004	2007	2010
0050	-	-	-	-	5	5	-	4	4-5	4-5	4-5	5	3-4
0100	-	4	5	4-5	5	1/0	4	-	-	-	-	-	-
0120	-	-	-	-	5	2/0	3	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	4	5	4	4-5	3-4	4
0200	5	4	4	4-5	4-5	3/0	4-5	-	-	-	-	3-4	-
0300	-	3	3	3-4	3	3	-	4	4-5	4-5	4	4	4
0400	3-4	4	4	4	4	3	-	-	-	-	-	3-4	4
0420	-	-	-	-	-	3	-	4-5	4	4	3-4	4	4
0500	4-5	3	4	4	4	4	-	4	4	4	4	-	3-4
0550	-	-	-	-	4-5	4	-	-	4	4	4	4	3-4
0600	4-5	4	4	4	4	4	-	3-4	4-5	4	-	-	-
0700	4	4	4	4	4-5	4	-	-	-	-	4-5	4-5	3-4
0800	-	-	-	-	4	4	-	3-4	4-5	4	-	-	-

Assessment: Of the eight locations surveyed just half were assessed as being in a satisfactory ecological condition (Good status) in mid August 2010. The almost complete absence of sensitive macroinvertebrate species, formerly recorded in the uppermost (0050) and lowermost (0700) reaches of the river indicated a significant deterioration from High to Moderate ecological status at these points.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SW of Toorboy	299625	187418	62	WW
0100	Rathcoyle Br	299610	185940	62	WW
0120	Br at Kilcarney	300020	184080	62	WW
0150	Br NE of Ballykilmurray Lr	299839	183644	62	WW
0200	2nd Ford u/s Hacketstown Br	298191	181068	62	CW
0300	Hacketstown Br	296822	180758	62	CW
0400	Saulsford Br	294400	180270	62	CW
0420	Br d/s Saulsford Br	293715	179811	62	CW
0500	Acaun Br	289980	177944	61	WW
0550	Knockeen Br	289532	174694	61	WW
0600	Knockloe Br	287548	173257	61	WW
0700	Rathglass Br	287089	170322	61	WW
0800	Ford u/s Slaney R confl	285483	169414	61	CW

Hydrometric Area 12 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	212	9	100	0	11	21	63	0	0	0	4
0150	160	35	100	0	33	22	31	0	4	0	9
0300	126	60	100	0	49	15	25	0	4	0	7
0420	109	70	100	0	54	13	21	1	6	0	6
0500	91	123	100	0	58	7	13	0	17	0	4
0550	85	175	100	0	57	7	9	0	23	0	4
0600	81	194	100	0	56	6	8	0	26	0	3
0700	74	199	100	0	56	6	8	0	26	0	3
0800	66	237	100	0	55	5	7	0	29	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRY**

12/D/02

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 900 598

Date(s) Surveyed: 18/8/2010, 20/8/2010, 23/8/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1980	1984	1987	1991	1995	1998	2001	2004	2007	2010
0100	-	4	4	4	4	4	4-5	4	3-4	4	3
0200	-	4	4	4	4-5	4-5	4-5	4	4-5	-	3-4
0300	4	4	3	4	-	-	-	-	-	-	-
0350	-	-	-	3-4	4-5	4	4-5	4-5	4-5	4	3-4
0400	-	4	3-4	4	4	-	-	-	-	-	-
0500	-	-	-	4	3-4	4	4-5	4	3-4	4	4
0600	-	4	3-4	4	-	-	-	-	-	-	-
0650	-	-	-	4	4-5	-	-	-	-	-	-
0700	4	4	4	4	4	3-4/0	4-5	3-4*	4	4	3-4
0800	-	-	-	-	4	3-4	4	4	4	-	4
0900	4	4	4	4	4	-	-	-	-	4	-
1000	-	4	4	4	4	4-5	4-5	4	4	-	-

Assessment: In stark contrast to 2007 when all six locations were assessed as being in a satisfactory ecological condition just two locations surveyed were satisfactory (Good status) in August 2010: these were in Shillelagh (0500) and in the lowermost reaches (0800). The most notable deteriorations were at Cross Bridge (0100) where status had fallen to Poor (Q3) and at Tinahely (0200) where a deterioration from High (Q4-5) to Moderate (Q3-4) status had become apparent.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cross Br	301177	174962	62	WW
0200	Tinahely Br	303696	173264	62	WW
0300	0.5km d/s Tinahely Br	303920	172580	62	WW
0350	Greenahll Br	302129	170746	62	WW
0400	Deegin's Br	0	0	62	WW
0500	Shillelagh Br	299106	167968	62	WW
0600	0.5km d/s Shillelagh Br	0	0	62	WW
0650	Br 1.3km d/s Shillelagh Br	0	0	62	WW
0700	Balisland Br	297818	164508	62	WW
0800	Ford N of Garryhasten	293028	162715	62	WX
0900	Clonegall Br	291706	160946	61	WX
1000	Just u/s Slaney R confl	290088	159878	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	126	25	100	0	61	6	1	0	5	0	27
0200	89	33	100	0	50	5	5	0	15	0	26
0350	72	60	100	0	54	6	3	0	17	0	20
0500	60	122	100	0	53	9	3	1	17	0	17
0700	51	136	100	0	53	9	2	1	19	0	15
0800	44	224	100	0	51	8	1	1	28	0	11
1000	38	247	100	0	49	8	1	1	31	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOUGLAS (BALLON)**

12/D/03

Tributary of : 12S02 SLANEY

OS Catchment

No: 175

OS Grid Ref of Confluence: S 855 685

Date(s) Surveyed: 17/8/2010, 19/8/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1976	1980	1983	1986	1989	1991	1995	1998	2001	2004	2007	2010
0100	-	4	3	3-4	4-5	3-4	3-4	4	3-4	3-4*	3-4	4
0120	-	-	-	-	3	-	-	-	-	-	-	-
0200	-	4	3/0	4	4-5	4	3	3-4	3-4	4	4	3-4
0400	4	4	4-5	4	-	3-4	3	3-4	3-4	3-4	3-4	3-4

Assessment: The Douglas River was again in a generally over-enriched condition in 2010 with just the upper surveyed location (0100) registering a satisfactory (Good) ecological status: elsewhere status was just Moderate (Q3-4). (Station 0160 reported as Ballaghmore Distributary (12B12)).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Myshall Br	282212	160836	61	CW
0120	3rd Br u/s Ballykealy Br	282070	165540	61	CW
0200	Sragh Br	284474	163964	61	CW
0400	Bang Up Br	284719	168146	61	CW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	93	6	100	0	78	2	3	0	13	0	5
0200	81	15	100	0	69	1	1	0	27	0	2
0400	64	41	100	0	55	0	0	1	43	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOUGLAS (KILTEGAN)**

12/D/04

Tributary of : 12D01 DERREEN

OS Catchment No: 175

OS Grid Ref of Confluence: S 932 806

Date(s) Surveyed: 17/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0300	4-5	-	3	4-5	4-5	4	3-4*	n/s
0400	-	-	-	-	-	-	-	3
0500	3-4	5	3-4	-	-	-	-	-
0700	4	4-5	4	4	3-4	4	4	3-4

Assessment: The Douglas (Kiltegan) River was in a generally unsatisfactory condition in 2010. An unwelcome decline in the macroinvertebrate community was noted at both stations (0400 and 0700) surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Highpark Br	296237	184211	62	WW
0400	Br d/s High Park Br	295305	183805	62	
0500	Kiltegan Br	293746	184174	62	WW
0700	Lucas Br	292749	181645	62	CW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	145	11	100	0	61	0	13	0	25	0	0
0500	125	22	100	0	66	1	7	1	26	0	0
0700	105	37	100	0	63	1	4	1	31	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHA (SLANEY)**

12/G/01

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 946 528

Date(s) Surveyed: 24/8/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1979	1981	1984	1987	1991	1995	1998	2001	2004	2007	2010
0020	-	-	-	3-4	4-5	-	-	-	-	-	-
0070	-	-	-	-	4-5	3-4	-	-	-	-	-
0100	4	4	3-4	4-5	-	3-4	4	3	4-5	4	4-5
0120	-	-	-	4	5	-	-	-	-	-	-
0200	4	4	4	4	4-5	3/0	4	3	3*	4	4

Assessment: As in 2007 the Glasha River was in a satisfactory condition at both locations surveyed in 2010 but following a slight improvement in the upper reaches ecological status had risen to High (Q4-5) at Station 0100.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br u/s Main Channel confl	0	0	68	WX
0070	Br W of Gorteen	289345	150940	68	WX
0100	Br S of Gorteen	289739	149784	68	WX
0120	Br W of Ballynelahillan	0	0	68	WX
0200	Coolattin Br	294303	152611	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	100	5	100	0	42	9	21	0	29	0	0
0100	83	7	100	0	44	6	15	0	34	0	0
0200	25	28	100	0	46	3	6	0	46	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILDAVIN STREAM**

12/K/04

Tributary of : 12S02 SLANEY

OS Catchment No:

OS Grid Ref of Confluence: S 893 584

Date(s) Surveyed: 23/8/2010

Station Nos.	2010	Biological Quality Ratings (Q Values)
0700	3	
0800	3-4	

Assessment: This stream was surveyed for the first time in 2010 and it was in an unsatisfactory ecological condition at both locations surveyed. Heavy deposition of cattle manure reduced ecological status to Poor (Q3) at the upper location (0700) and to Moderate (Q3-4) downstream at Station 0800.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br on N80 at Kildavin (u/s WWTP)	288912	159759	68	CW
0800	Br NE of Ballypierce (on quarry road)	289166	158913	68	CW

River and Code : **KILLEEN STREAM (BORO)**

12/K/03

Tributary of : 12B02 BORO

OS Catchment No: 175

OS Grid Ref of Confluence: S 867 376

Date(s) Surveyed: 3/9/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1991	1995	1998	2001	2004	2007	2010
0200	3-4	3	3	4	4	-	4
0300	4	-	-	-	-	-	-
0400	4	3	3	4	4	4	4

Assessment: Ecological status remains Good (Q4) at both locations surveyed in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Milltown Br	284481	140999	68	WX
0300	Glenglass Br	312800	145200	68	WX
0400	Garraun Br	286785	137886	68	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	99	8	100	0	92	2	6	0	1	0	0
0400	57	17	100	0	70	2	3	0	25	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KNICKEEN**
 Tributary of : 12S02 SLANEY
 OS Grid Ref of Confluence: S 985 937
 Date(s) Surveyed: 16/8/2010

12/K/01
 OS Catchment No: 175

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0100	5	5	5	-	-	-	-	4
0250	-	-	-	5	5	4-5	4-5	4-5

Assessment: The Knickeen River is surrounded by coniferous forest at Station 0100 where ecological status was assessed as Good (Q4). Further downstream status was again High (Q4-5).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE of Golier	299153	195914	56	WW
0250	Br NW of Ballyvaghan	298665	194867	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	244	6	100	0	0	28	67	0	0	0	5
0250	216	12	100	0	0	21	66	0	0	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LASK**
 Tributary of : 12B01 BANN
 OS Grid Ref of Confluence: T 108 591
 Date(s) Surveyed: 26/8/2010

12/L/01
 OS Catchment No: 175

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1983	1987	1991	1995	1998	2001	2004	2007	2010
0040	-	-	4	4	-	-	-	-	-	-
0080	-	-	4	3	3-4	3	3-4*	4	4	4
0100	4	4-5	4	-	-	3-4	-	-	-	-
0200	-	-	-	-	-	-	-	-	4	3-4
0300	-	-	3-4	3-4	4-5	3-4	4	3	-	n/s

Assessment: Upper reaches satisfactory, lower not so. Station 0200 was surveyed because the previously surveyed Station 0300 was inaccessible in 2010. Heavy substratum siltation and a virtual absence of sensitive macroinvertebrates plus floral indicators of eutrophication reduced ecological status to Moderate (Q3-4) at 0200.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SE of Baltyfarrell	0	0	62	WX
0080	Br NW of Craan	307865	162302	62	WX
0100	Craanford Br	309064	160194	62	WX
0200	2nd Br u/s Bann R confl (Ballincoola)	309941	159558	69	WX
0300	Br u/s Bann R confl	310848	159035	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	90	14	100	0	68	5	0	0	26	0	1
0100	71	23	100	0	61	5	0	0	33	0	1
0300	58	87	100	0	55	8	4	0	29	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LITTLE SLANEY**

12/L/02

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 935 300

Date(s) Surveyed: 12/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0100	5	5	4	5	4-5	-	5	4
0300	4-5	5	-	-	-	3-4	-	3-4
0400	-	-	-	5	4-5	-	5	4
0500	5	5	5	-	-	-	-	-

Assessment: An overall deterioration in quality was indicated in the Little Slaney in 2010. Previously (2007) the two locations surveyed (0100, 0400) were assessed as of High ecological status but currently a status of Good (Q4) was indicated. An additional site (0300) was included in 2010: heavy siltation, luxuriant weed growth, mats of dark green slime and a virtual absence of sensitive macroinvertebrates reflected a status of just Moderate (Q3-4) at this location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford S of Coan	298447	191763	56	WW
0300	Rostyduff Br	295819	192450	56	WW
0400	Ford d/s Rostyduff Br	294960	192335	56	WW
0500	Just u/s Slaney R confl	293531	193062	56	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	235	4	100	0	0	0	91	0	0	0	9
0400	165	17	100	0	21	11	36	0	0	0	32
0500	153	22	100	0	34	9	30	0	0	0	27

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MINE**
 Tributary of : 12D02 DERRY
 OS Grid Ref of Confluence: S 977 631
 Date(s) Surveyed: 20/8/2010, 23/8/2010

12/M/01
 OS Catchment No: 175

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0200	4-5	4-5	3-4	4	4	4	4	3-4
0300	4-5	4	-	-	-	-	-	-
0400	4	3-4	3-4	3	4	3-4	-	4
0500	3-4	4	-	-	-	-	-	-
0600	4	4	3-4	3-4	3-4	3-4	4	3-4

Assessment: Excessive weed growth and substratum siltation and a dearth of sensitive macroinvertebrates reflected some environmental stress at the upper and lower surveyed locations (0200, 0600) in 2010. As a result the ecological status at these locations has fallen from Good in 2007 to just Moderate currently. By contrast, some improvement in quality was recorded at Tombreen Bridge (0400) where status is now Good.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Money Br	303119	160397	62	WX
0300	Mine Br	0	0	62	WX
0400	Tombreen Br	300371	162146	62	WW
0500	Cronyhorn Br	0	0	62	WW
0600	Ballingate Br	297752	163984	62	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	82	18	100	0	37	6	0	0	50	0	7
0400	61	29	100	0	40	4	0	0	52	0	4
0600	50	62	100	0	46	4	0	1	47	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROSTRAW STREAM**

12/R/01

Tributary of : 12D02 DERRY

OS Catchment No: 175

OS Grid Ref of Confluence: T 038 720

Date(s) Surveyed: 18/8/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1987	1988	1991	1995	1998	2001	2004	2007	2010
0200	4	-	4	4	4	4	3-4	-	3-4
0300	-	-	3	-	-	-	-	4	-
0400	2	3	3	3	3	3-4	3	-	3-4

Assessment: This stream was excessively weedy and silted and had very few sensitive macroinvertebrates at both locations surveyed in 2010. Such conditions are consistent with the reduced ecological status termed Moderate (Q3-4). The lower location (0400) had improved since 2004 when conditions there were Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Rosnastraw Br	306165	170789	62	WW
0300	Rosnastraw Br	305351	171036	62	WW
0400	Kilcommon Br	304197	172003	62	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	9	100	0	35	22	0	0	31	0	12
0400	78	19	100	0	47	11	0	0	24	0	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHILLELAGH**
 Tributary of : 12D02 DERRY
 OS Grid Ref of Confluence: S991 680
 Date(s) Surveyed: 20/8/2010

12/S/01
 OS Catchment No: 175

Station Nos.	Biological Quality Ratings (Q Values)					
	1995	1998	2001	2004	2007	2010
0500	3-4/0	4-5	3*	4	4-5	3

Assessment: In marked contrast to 2007 when several sensitive macroinvertebrates were recorded, none were observed in the Shillelagh River in August 2010. As a consequence its ecological status has been downgraded from High to Poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br u/s Derry R confl	299015	168068	62	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	62	16	100	0	63	20	6	1	2	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SLANEY**

12/S/02

Tributary of : Sea - Wexford Harbour

OS Catchment No: 175

OS Grid Ref of Confluence: S 975 314

Date(s) Surveyed: 11/8/2010, 12/8/2010, 13/8/2010, 19/8/2010,
23/8/2010, 24/8/2010, 27/8/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1975	1979	1981	1983	1984	1987	1991	1995	1998	2001	2004	2007	2010
0100	-	-	5	-	-	4	4	5	4-5	5	4-5	4	4-5	4
0200	-	-	4	-	-	4-5	4-5	5	5	4-5	4	4-5	5	4-5
0300	-	-	5	-	-	4-5	4-5	5	-	-	-	-	-	-
0400	-	-	4-5	-	-	4-5	4	4-5	4-5	5	4-5	4	4	4
0500	-	-	5	-	-	4-5	4-5	5	-	-	-	-	-	-
0600	-	-	4	-	-	4-5	4-5	4-5	4-5	5	4-5	4	-	4-5
0700	5	5	4	-	-	4-5	4	3	4-5	4-5	4	4-5	4	3-4
0770	-	-	-	-	-	-	-	-	4-5	4-5	4	-	-	-
0800	-	-	4-5	-	-	4-5	4	-	-	-	-	4-5	4	4
0900	5	5	4	-	-	4-5	4	4	4	4	4	-	-	-
1000	-	-	-	-	-	4-5	4	-	-	-	-	4-5	4	4
1020	-	-	-	-	-	-	-	4	4-5	4-5	4-5	-	-	-
1100	-	-	-	-	-	4	4	4	4-5	4-5	4-5	3-4	4	4
1200	5	4-5	4-5	5	4-5	4-5	4-5	4	4-5	4-5	4-5	3-4	-	4
1290	-	-	-	-	-	-	4	4	4	4-5	4-5	4	-	-
1300	-	-	-	-	-	-	3-4	-	-	-	-	-	-	4
1310	-	-	-	-	-	-	3-4	3-4	-	-	-	-	-	-
1400	4-5	4-5	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	4	4	3-4
1500	4	4	4	4	-	3-4	4	-	-	-	-	-	-	-
1530	-	-	-	-	-	-	-	3-4	3-4	4	-	-	-	-
1600	-	-	-	-	-	3-4	3-4	3-4	3-4	4-5	3-4	3-4	4	4
1700	4-5	4	4	-	-	3-4	4	3-4	-	-	-	-	-	-
1800	4-5	4	4	4	-	3-4	3-4	4	3-4	4-5	4	4	4	4
1850	-	-	-	4	-	3-4	4	3-4	-	-	-	-	-	-
1900	4-5	-	3-4	3	3-4	3	3	3	3-4	-	-	-	-	-
2000	5	3-4	3-4	3-4	3-4	3	3	3	3-4	3-4	4	4-5	3-4	4
2100	5	4	4	-	-	3-4	4	3	3-4	3-4	3-4	4	3-4	3-4
2200	-	4-5	4	-	-	3-4	4	3-4	-	-	-	-	4	-
2220	-	-	-	-	-	-	-	-	3-4	4	4	4	-	4
2400	-	-	3	3	-	3	3	-	-	-	-	-	3-4*	-

Assessment: The Slaney River was in a mostly satisfactory (Q4, Good status) condition in August 2010 but several locations (0700, 1400 and 2100) were assessed as of somewhat lower (Q3-4/Moderate) status and in one instance (0100) a deterioration from a previous High to the current Good condition was recorded, an unwelcome development. Enhanced growth of the blanket alga *Cladophora* sp. pointed to some considerable eutrophication below Tullow, Bunclody and Ballycarney but macroinvertebrate composition indicated Good ecological status at these locations. Low water levels and a concomitant lessening of dilution capacity for various waste inputs are considered as significant in contributing to the luxuriant algal growths observed in 2010.

Hydrometric Area 12 (2010)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Seskin Br	297663	193902	56	WW
0200	Kelsha Br	293976	194242	56	WW
0300	Just d/s Little Slaney R confl	293392	193120	56	WW
0400	Waterloo Br	290456	193461	55	WW
0500	Manger Br	288521	192895	55	WW
0600	Tuckmill Br	287638	191459	55	WW
0700	Just d/s Baltinglass Br	286802	188494	61	WW
0770	Maiden's Ford	288183	186455	61	WW
0800	Aldborough Br	288898	185614	61	WW
0900	Ford u/s Rathvilly	288171	182990	61	CW
1000	Rathvilly Br	287749	182163	61	CW
1020	1km d/s Rathvilly Br	286889	181415	61	CW
1100	Rathmore Br	285623	178625	61	CW
1200	Moatabower Br	283201	177713	61	CW
1290	0.5km u/s Tullow Br	285033	173231	61	CW
1300	Tullow Br	285152	173060	61	CW
1310	0.9km d/s Tullow Br	285304	172384	61	CW
1400	Ford 3km d/s Tullow Br	285063	171194	61	CW
1500	Aghade Br	285794	168237	61	CW
1530	W of Ballinastraw	286755	166331	61	CW
1600	Kilcarry Br	289268	162439	61	CW
1700	New Br nr Kildavin	0	0	68	WX
1800	Slaney Br Bunclody	291360	156942	68	WX
1850	1.5 km d/s Slaney Br	291907	155799	68	WX
1900	Clohamon Br	293293	154809	69	WX
2000	1.3km d/s Clohamon Br	293337	154002	69	WX
2100	Ballycarney Br	296784	148846	69	WX
2200	Scarawalsh Br	298371	145069	69	WX
2220	Just W of Salsborough Br	299833	143348	69	WX
2400	1 km d/s Enniscorthy Br	297216	138833	69	WX

Hydrometric Area 12 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	178	27	100	0	1	10	78	0	0	0	11
0200	157	46	100	0	19	14	53	0	0	0	15
0300	153	70	100	0	25	12	45	0	0	0	18
0400	137	78	100	0	29	11	40	0	0	0	19
0500	126	132	100	0	46	9	26	0	5	0	14
0600	121	153	100	0	49	9	23	0	5	0	13
0700	117	167	100	0	51	9	22	1	5	0	12
0770	112	173	100	0	52	8	21	1	6	0	12
0800	110	175	100	0	52	8	21	1	6	0	12
0900	102	207	100	0	54	8	19	1	8	0	10
1020	98	217	100	0	54	8	18	1	10	0	10
1100	91	228	100	0	53	7	17	1	12	0	9
1200	84	238	100	0	54	7	16	1	13	0	9
1290	71	249	100	0	54	7	16	1	14	0	8
1300	71	249	100	0	54	7	16	1	14	0	8
1400	67	256	100	0	54	7	15	2	14	0	8
1500	60	537	100	0	55	5	11	1	23	0	5
1530	53	551	100	0	55	5	10	1	23	0	5
1600	42	576	100	0	55	5	10	1	24	0	5
1800	30	849	100	0	53	6	7	1	26	0	7
1850	27	892	100	0	52	7	8	1	26	0	7
1900	25	903	100	0	52	7	8	1	27	0	7
2000	24	905	100	0	51	7	8	1	27	0	7
2100	13	1006	100	0	50	6	7	1	30	0	6
2200	8	1031	100	0	49	6	7	1	31	0	6
2220	6	1250	100	0	49	6	6	1	32	0	5
2400	1	1321	100	0	49	6	6	1	33	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SOW**
 Tributary of : Sea - Slaney Estuary
 OS Grid Ref of Confluence: T 049 263
 Date(s) Surveyed: 8/9/2010, 13/9/2010

12/S/03

OS Catchment No: 178

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1984	1987	1991	1995	1998	2001	2004	2007	2010
0100	4	4	4	3*	3-4	3	4	3-4	3-4*	3-4
0200	4	4-5	4	4	3-4	-	-	-	4	-
0250	-	-	-	-	-	3-4	4	3-4*	4	3-4
0300	4-5	4	4	4	-	-	-	-	4	-
0370	-	-	-	-	4	4	4	4-5	4	4
0400	5	4-5	4-5	4	-	-	-	-	-	-

Assessment: The absence or extreme scarcity of sensitive macroinvertebrates together with unusually high numbers of more tolerant species pointed to some ecological imbalance and hence Moderate (Q3-4) status at Ballinkeel and Augharr Bridges (0100, 0250) in 2010. Satisfactory conditions were restored at Randalsmill Bridge (0370) where ecological status was Good as it was in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinkeel Br	302894	134688	77	WX
0200	Kilmallock Br	303293	131847	77	WX
0250	Augharr Br	303368	130469	77	WX
0300	Coolamain Br	302968	129552	77	WX
0370	Randalsmill Br	303555	128473	77	WX
0400	Br NW of Edenvale Ho	304200	127800	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	37	29	100	0	43	1	0	0	42	0	13
0200	34	44	100	0	42	1	0	0	48	0	9
0250	32	49	100	0	43	1	0	0	48	0	8
0370	27	54	100	0	43	1	0	0	49	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TINNACROSS STREAM**

12/T/01

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 997 434

Date(s) Surveyed: 27/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2004	2007	2010
0400	4	3-4	3-4	3	3-4*	4	3-4*	4
0500	4	4	4	3-4	4-5	-	-	-
0600	4	4	4	4	4	4	4	3-4
0700	3-4	-	-	-	-	-	-	-

Assessment: Although heavily silted at both locations, biological composition was consistent with Good ecological status at Carrigeen Bridge (0400) but faunal imbalances at Crane Bridge (0600) reflected less than fully satisfactory conditions there.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Carrigeen Br	304811	147940	69	WX
0500	Tinnacross Br	302702	145661	69	WX
0600	Crane Br	300956	143700	69	WX
0700	Salsborough Br	0	0	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	40	19	100	0	62	1	0	0	37	0	0
0500	27	27	100	0	64	1	0	0	35	0	0
0600	15	34	100	0	62	1	0	0	38	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TINNOKILLA STREAM**

12/T/02

Tributary of : 12S02 SLANEY

OS Catchment No: 175

OS Grid Ref of Confluence: S 979 275

Date(s) Surveyed: 8/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0200	3	3	4	4	4	4	4*	4
0500	4	3-4	-	-	-	-	-	-
0700	-	3-4	4-5	4	4	4	3-4*	4

Assessment: Despite considerable substratum siltation the fauna remained consistent with Good ecological status (Q4) at both locations surveyed on the Tinnokilla Stream in September 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Spring Br	292285	127974	77	WX
0500	Kereight Br	0	0	77	WX
0700	Br NE of Tinokilla	297218	129146	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	49	5	100	0	63	0	0	0	37	0	0
0700	17	21	100	0	71	2	0	0	28	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **URRIN**
 Tributary of : 12S02 SLANEY
 OS Grid Ref of Confluence: S 971 388
 Date(s) Surveyed: 2/9/2010, 30/8/2010

12/U/01
 OS Catchment No: 175

Station Nos.	1976	1980	1986	1989	1991	1995	Biological Quality Ratings (Q Values)				
							1998	2001	2004	2007	2010
0050	-	-	-	5	5	4-5	5	5	4-5	5	4
0100	-	5	4-5	4-5	5	-	-	-	-	-	3-4
0200	-	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4	4
0250	-	-	-	4-5	4-5	3-4	4-5	5	4-5	-	4
0300	-	4	4-5	3-4	4-5	3/0	4-5	4-5	4-5	4	4
0360	-	-	-	3	5	3-4	4-5	4-5	-	-	3-4
0400	5	4	3-4	-	-	-	-	-	-	-	-
0500	-	-	-	4	4-5	3-4	3-4	3-4	3-4	4	3-4

Assessment: None of the seven locations surveyed on the Urrin River achieved a status higher than Good (Q4) in 2010, continuing the gradual deterioration recorded throughout this river in recent years. This is most marked at Mocurry and Verona Bridges (0100, 0360) where conditions have recently deteriorated from High (Q5, Q4-5) to just Moderate (Q3-4) status. Conditions have also deteriorated at John's Bridge (0500) where, as at Verona Bridge upstream, slime growths were observed coating the stones on the bed of the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Ballycrystal Br	286398	148585	68	WX
0100	Mocurry Br	286500	146400	68	WX
0200	Buck's Br	286973	144130	68	WX
0250	Br S of Curraghraigue	289700	143627	68	WX
0300	Kiltrea Br	291944	140836	68	WX
0360	Verona Br	294677	139925	69	WX
0400	Carley's Br	295750	139510	68	WX
0500	John's Br	296966	138914	69	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	117	10	100	0	18	12	47	0	0	0	23
0200	61	42	100	0	43	8	25	0	15	0	9
0250	44	51	100	0	43	7	21	0	23	0	7
0300	27	68	100	0	42	6	16	0	31	0	6
0360	14	102	100	0	42	4	10	0	40	0	4
0500	5	115	100	0	42	3	9	0	41	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

SERBD: HYDROMETRIC AREA NO. 12

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 - 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Askinvillar Stream (4km)	2010	12A03	4.0	0.0	0.0	0.0	0.0	4.0	
Ballingale Stream (9.5km)	2010	12B06	0.0	6.0	3.5	0.0	0.0	9.5	
Ballycarney Stream (7km)	2010	12B07	0.0	2.7	4.3	0.0	0.0	7.0	
Bann (40km)	2010	12B01	26.2	9.0	3.9	1.0	0.0	40.0	
Blacklion Stream (7km)	2010	12B04	0.0	6.5	0.5	0.0	0.0	7.0	
Blackwater Stream (Bann) (2km)	2010	12B08	2.0	0.0	0.0	0.0	0.0	2.0	
Boro (26km)	2010	12B02	0.0	16.9	9.1	0.0	0.0	26.0	
Borris Stream (5km)	2010	12B05	0.0	5.0	0.0	0.0	0.0	5.0	
Brown's Beck Brook (6km)	2010	12B03	0.0	3.4	2.6	0.0	0.0	6.0	
Camolin Stream (4.5km)	2010	12C08	0.0	0.0	4.5	0.0	0.0	4.5	
Carrigower (8km)	2010	12C06	0.0	3.9	4.1	0.0	0.0	8.0	
Clashavey River (~8km)	2010	12C10	0.0	0.0	8.0	0.0	0.0	8.0	
Clody (8km)	2010	12C03	5.9	2.2	0.0	0.0	0.0	8.0	
Clonmore River (Slaney) (~7km)	2010	12C09	0.0	7.0	0.0	0.0	0.0	7.0	
Coolboy Stream (6km)	2010	12C07	0.0	1.2	2.2	2.6	0.0	6.0	
Corbally Stream (15.5 km)	2010	12C04	0.0	13.0	2.5	0.0	0.0	15.5	
Derreen (40km)	2010	12D01	0.0	21.0	19.1	0.0	0.0	40.0	
Derry (31km)	2010	12D02	0.0	15.2	10.9	5.0	0.0	31.0	
Douglas (Ballon) (13.5km)	2010	12D03	0.0	5.2	7.3	1.0	0.0	13.5	
Douglas (Kiltegan) (9.5km)	2010	12D04	0.0	0.0	3.7	5.8	0.0	9.5	
Glasha (Slaney) (8.5km)	2010	12G01	8.2	0.3	0.0	0.0	0.0	8.5	
Kildavin Stream (~6.5km)	2010	12K04	0.0	0.0	1.1	5.4	0.0	6.5	
Killeen Str (Boro) (7km)	2010	12K03	0.0	7.0	0.0	0.0	0.0	7.0	
Knickeen (3km)	2010	12K01	2.0	1.1	0.0	0.0	0.0	3.0	
Lask (7.5km)	2010	12L01	0.0	6.2	1.3	0.0	0.0	7.5	
Little Slaney (8km)	2010	12L02	0.0	7.4	0.6	0.0	0.0	8.0	
Mine (9.5km)	2010	12M01	0.0	3.0	6.6	0.0	0.0	9.5	
Rosnastraw Str. (5km)	2010	12R01	0.0	0.0	5.0	0.0	0.0	5.0	
Shillelagh (1.5km)	2010	12S01	0.0	0.0	0.0	1.5	0.0	1.5	
Slaney (97km)	2010	12S02	15.7	70.6	10.8	0.0	0.0	97.0	
Sow (16km)	2010	12S03	0.0	4.6	11.4	0.0	0.0	16.0	
Tinnacross Str. (13.5km)	2010	12T01	0.0	12.1	1.4	0.0	0.0	13.5	
Tinnokilla Str. (8.5km)	2010	12T02	0.0	8.5	0.0	0.0	0.0	8.5	
Urrin (22km)	2010	12U01	0.0	17.1	4.9	0.0	0.0	22.0	
Total Length (km) surveyed this cycle			63.9	255.8	129.1	22.3	0.0	471.0	
Adjustments (km) (See below)*			2.0	6.0	2.1	4.4	0.0	14.5	
Current Length (km) Adjusted			61.9	249.8	127.0	17.9	0.0	456.5	
Percentages			13.5	54.7	27.8	3.9	0.0	100.0	
Channel Length (km) in Class			2010-'12		A	B	C	D	Total
Baseline : Current Adjusted Status (km)					311.7	127.0	17.9	0.0	456.5
Percentages					68.3	27.8	3.9	0.0	100.0
Baseline:Previous Unadjust. Status (km)**			2007-'09		94.6	291.7	67.8	2.5	456.5
Percentages					20.7	63.9	14.9	0.5	100.0
Changes since Previous Survey (km)					-32.7	-41.9	59.2	15.4	0.0

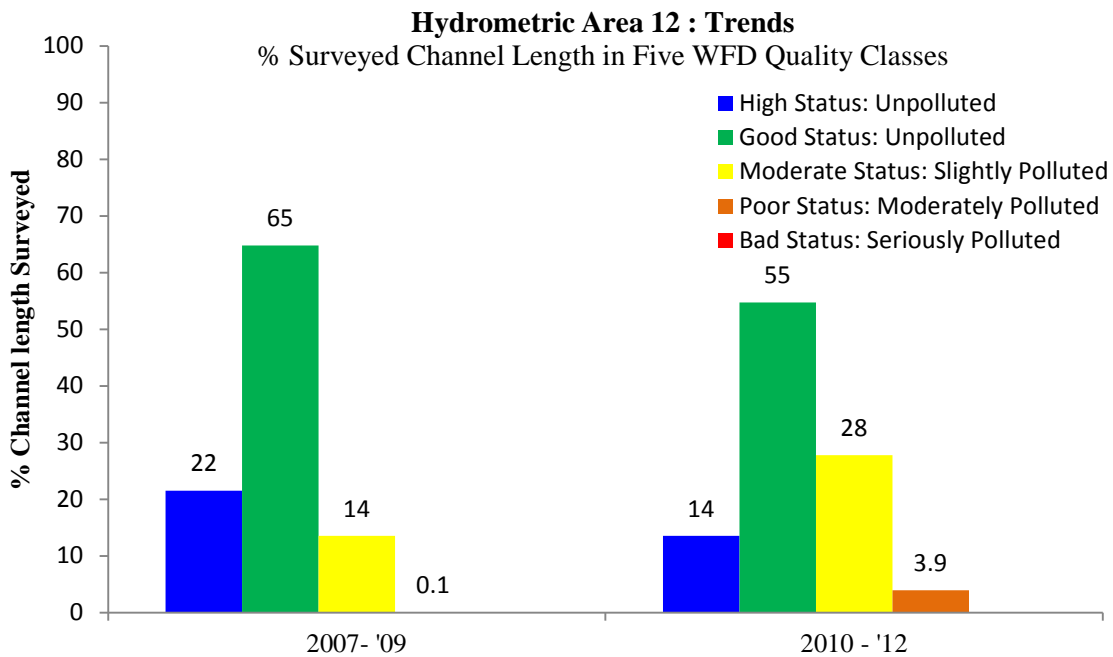
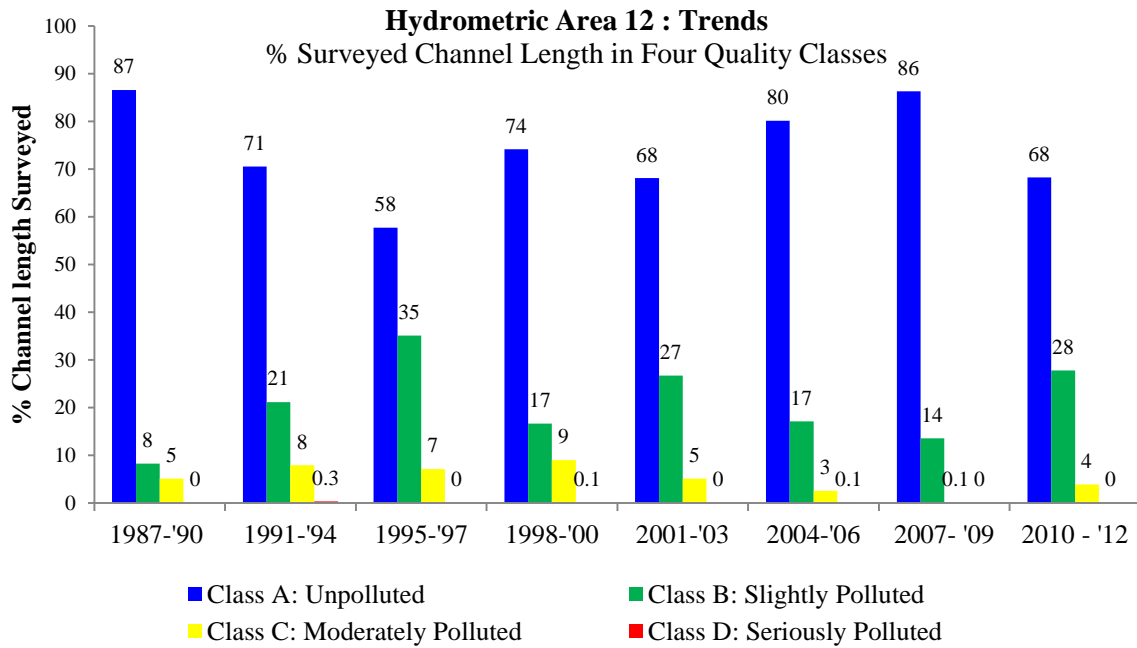
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Assaly (12A02) & Chapel Stream (12C01) not surveyed in 2010, Clashavey (12C10), Clonmore River (Slaney) (12C09) and Kildavin Stream (12K04) added to the programme in 2010.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of Sites at WFD status	2007-'09	2010-'12
High	18	12
Good	58	55
Moderate	17	38
Poor	3	6
Bad	0	0
<hr/>		
Total number of sites surveyed	96	111
Total number of sites at unsatisfactory status	20	44



HYDROMETRIC AREA 13 (Ballyteigue – Bannow)

BATTLESTOWN STREAM	13B04
BEGERIN STREAM *	13B05
BRIDGETOWN (WEXFORD)	13B01
# CLERISTOWN STREAM	13C04
COROCK	13C01
DUNCORMICK	13D01
HEATHPARK STREAM *	13H01
MULMONTRY	13M01
OWENDUFF (WEXFORD)	13O01
TINTERN ABBEY STREAM	13T01

indicates rivers having seriously polluted stretches at time of this survey.

* BEGERIN STREAM Formerly West Branch of Owenduff (Wexford) 13O01

* HEATHPARK STREAM Formerly East Branch of Owenduff (Wexford) 13O01

River and Code : **BATTLESTOWN STREAM**

13/B/04

Tributary of : Sea - Bannow Bay

OS Catchment No: J2

OS Grid Ref of Confluence: S 784 066

Date(s) Surveyed: 16/9/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1996	1998	2002	2004	2007	2010
0500	3	3	4	4	3-4	4	3-4

Assessment: Heavy siltation due to disturbance by watering cattle reduced quality at the location surveyed in 2010. Ecological status Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br E of Ballygow	277946	107172	76	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	10	8	100	0	36	0	0	0	64	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BEGERIN STREAM** **13/B/05**
 Tributary of : 13O01 OWENDUFF (WEXFORD) OS Catchment No: 181
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 16/9/2010

Formerly West Branch of Owenduff (Wexford) 13O01

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2002	2004	2007	2010
0050	3-4	4	4	4	4	4	4	4

Assessment: Continuing satisfactory: Good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Carnagh Br	277792	122194	0	WX

River and Code : **BRIDGETOWN (WEXFORD)**

13/B/01

Tributary of : Sea - at Ballyteige Bay

OS Catchment No: 179

OS Grid Ref of Confluence: S 924 084

Date(s) Surveyed: 13/9/2010

Station Nos.	Biological Quality Ratings (Q Values)										
	1981	1985	1987	1988	1991	1996	1998	2002	2004	2007	2010
0020	-	-	4	-	4	2-3	3-4	3-4	4	4	3-4
0050	-	-	2	3	3	-	-	-	-	-	-
0070	-	-	3-4	-	3-4	-	-	-	-	-	-
0080	-	-	-	-	-	3-4	3-4	4	3-4	4	4
0100	2-3	3	3	-	-	-	-	-	-	-	-

Assessment: The virtual absence of sensitive macroinvertebrates reflected a status of just Moderate at Gainstown Bridge (0020). Conditions downstream (0080 - Good status) were somewhat better.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Gainstown Bridge	298937	115731	77	WX
0050	Br d/s E. Br nr Sleadagh Ho	299130	114245	0	WX
0070	Bridge S.E. of Ballycappoge	0	0	0	WX
0080	Br E of Common	300109	111409	77	WX
0100	Bridge in Bridgetown	0	0	0	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	66	3	100	0	24	23	0	0	37	0	15
0080	15	8	67	33	49	9	0	0	36	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLERISTOWN STREAM**

13/C/04

Tributary of : 13B01 BRIDGETOWN (WEXFORD)

OS Catchment No: 179

OS Grid Ref of Confluence: S 974 095

Date(s) Surveyed: 14/9/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1996	1998	2002	2004	2007	2010
0200	3	4	3-4	4	3-4	-	1
0400	4	3	3-4	4	2-3	4	3

Assessment: The Cleristown Stream was seriously polluted at Brownstown Bridge (0200) and then moderately polluted at Castle Bridge (0400) at the time of this survey in September 2010. Agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Brownstown Br	296469	112734	77	WX
0400	Castle Br	297051	110211	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	25	4	100	0	74	2	0	0	24	0	0
0400	9	16	75	25	55	6	0	0	39	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **COROCK**
 Tributary of : Sea - at Bannow Bay
 OS Grid Ref of Confluence: S 848 133
 Date(s) Surveyed: 15/9/2010, 15/10/2010

13/C/01
 OS Catchment No: 180

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2002	2004	2007	2010
0020	4	4	3	3-4	3-4	4	4	4
0040	4-5	4	-	-	-	-	-	-
0080	4-5	4-5	4	4	4	4	4	4
0100	4	3-4	4	4	4	4	-	4
0120	4	4	-	-	-	-	-	-
0150	4	4	4	4	4	4	3-4	4

Assessment: The Corock river was in a satisfactory quality condition (Q4) at each of the four sites surveyed in September 2010. Some improvement was recorded at Station 0150 in the lower freshwater reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Aughaloe Bridge	284142	126432	77	WX
0040	Ballyshannon Bridge	0	0	0	WX
0080	Cullenstown Bridge	286126	122359	77	WX
0100	Foulkesmill Br	285387	118696	77	WX
0120	Hares' Mead Bridge	0	0	0	WX
0150	E of Coolcliffe Ho	286186	116982	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	50	15	100	0	59	1	0	0	40	0	0
0080	20	41	100	0	60	2	0	0	38	0	0
0100	9	62	100	0	54	2	0	0	44	0	0
0150	6	127	100	0	55	3	0	0	40	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNCORMICK**
 Tributary of : Sea - at Ballyteige Bay
 OS Grid Ref of Confluence: S 918 093
 Date(s) Surveyed: 14/10/2010

13/D/01
 OS Catchment No: 179

Station Nos.	Biological Quality Ratings (Q Values)											
	1981	1985	1987	1988	1991	1994	1996	1998	2002	2004	2007	2010
0200	3	3-4	3-4	-	2	3	2-3	2-3	2-3	3	3	3
0240	-	-	2	2-3	-	-	-	-	-	-	-	-
0260	-	-	-	-	-	-	-	-	-	-	-	3-4*
0280	-	-	2-3	3	3	-	3-4	3	4	4	4	n/s
0300	3-4	4	3	-	-	-	-	-	-	-	-	-
0350	-	-	3-4	-	3-4	-	4	3-4	3-4	3-4	4	4

Assessment: The Duncormick river was moderately polluted (Q3) below Taghmon (0200) and heavily silted at Aughermon Bridge (0260) in September 2010. The latter location was substituted for Tullycanna Bridge (0280) which was inaccessible. The lower reaches (0350) remained in a satisfactory quality condition (Q4, Good Status). * Denotes heavy substratum siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br E of Ballynagale	292156	117632	77	WX
0240	Br SE of Ardenagh Great	0	0	0	WX
0260	Aughermon Br	290023	115293	77	WX
0280	Tullycanna Bridge	290008	114297	77	WX
0300	Br S of Ambrosetown	0	0	0	WX
0350	{W} Br nr Gurlins	291265	110850	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	45	4	100	0	74	0	0	6	20	0	0
0280	29	13	100	0	49	0	0	2	49	0	0
0350	8	36	100	0	44	1	0	1	53	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **HEATHPARK STREAM** **13/H/01**
 Tributary of : 13O01 OWENDUFF (WEXFORD) OS Catchment No: 181
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 16/9/2010

Formerly East Branch of Owenduff (Wexford) 13O01

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2002	2004	2007	2010
0020	4	4	3-4	4	3-4	3-4	3-4	3-4
0030	4-5	4-5	-	-	-	-	-	-

Assessment: The virtual absence of sensitive macroinvertebrates reflected the less than satisfactory ecological status of this stream in 2010 as in recent previous surveys.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Ballynabola Bridge (Old)	280079	123667	76	WX
0030	Bridge W. of Tinnacarrick	0	0	0	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	47	31	100	0	47	4	0	0	45	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULMONTY**

13/M/01

Tributary of : 13C01 COROCK

OS Catchment No: 180

OS Grid Ref of Confluence: S 864 174

Date(s) Surveyed: 14/9/2010, 15/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2002	2004	2007	2010
0100	4	-	-	-	-	-	-	-
0200	4	-	-	-	-	-	3	4
0300	4	4	3-4	3-4	4	4	-	4
0400	4-5	4	-	-	-	-	3-4	-
0500	4	4-5	4	4	4	3-4	-	4
0700	4-5	4	4-5	4	4	4	3-4	4

Assessment: Following a marked improvement at Station 0200 and slight improvements at 0500 and 0700 the Mulmontry River was in a satisfactory quality condition (Q4, Good Status) in September 2010. Several black sacks of domestic refuse were observed in the river at Tottenhamgreen Bridge (0500) at the time of this survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br W.S.W. of Larkin's Cross	0	0	0	WX
0200	Aughnagroagh Br	293300	120800	0	WX
0300	Browncastle Br	291436	121857	77	WX
0400	Mulmontry Bridge	298740	121400	0	WX
0500	Tottenhamgreen Bridge	288793	120170	77	WX
0700	Goff's Bridge	287163	118531	77	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	25	26	100	0	54	6	0	0	32	0	8
0500	13	52	100	0	57	3	0	0	36	0	4
0700	8	57	100	0	57	4	0	0	36	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENDUFF (WEXFORD)**

13/O/01

Tributary of : Sea - Bannow Bay

OS Catchment No: 181

OS Grid Ref of Confluence: S 848 133

Date(s) Surveyed: 15/9/2010, 16/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2002	2004	2007	2010
0060	3	4	4	4	-	-	-	-
0100	4-5	4	-	-	-	-	-	4
0180	4	4	3-4	4	4	4	4-5	4
0200	-	-	4	-	-	-	-	-
0240	4-5	4	-	4	4	3-4	4	4

Assessment: The Owenduff River was in a satisfactory quality condition (Q4, Good Status) at each of the three sites surveyed in September 2010. Moderate substratum siltation reduced ecological status from a previous High (Q4-5 in 2007) at Mullinderry Bridge (0180).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Rathnageeragh Bridge	278598	120452	76	WX
0100	Ballygarvan Bridge	279366	118859	76	WX
0180	Mullinderry Bridge	280999	116623	76	WX
0200	1.2 km d/s Mullinderry Br	281708	115365	76	WX
0240	Taylorstown Bridge	282075	114627	76	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	35	51	100	0	55	3	0	0	38	0	4
0100	27	79	100	0	53	2	1	0	41	0	3
0180	14	93	100	0	52	2	1	0	43	0	3
0200	9	102	100	0	51	2	1	0	44	0	2
0240	7	103	100	0	51	2	1	0	45	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TINTERN ABBEY STREAM**

13/T/01

Tributary of : Sea - at Bannow Bay

OS Catchment No: j2

OS Grid Ref of Confluence: S 794 100

Date(s) Surveyed: 16/9/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1991	1994	1996	1998	2002	2004	2007	2010
0300	2	2	-	3	-	-	-	-	-	-
0400	2	2-3	-	-	-	-	-	-	-	-
0900	4-5	-	3	-	3	3	4	3	3*	n/a

Assessment: The marked tidal influence (siltation, *Enteromorpha* growths) made this location unsuitable for quality assessment by the Q procedure which is only suitable for freshwater sites.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br 1.5km SW of Rathumney	0	0	0	WX
0400	Br W. of Burkestown Cross-Roads	0	0	0	WX
0900	Bridge near Tintern Abbey	279387	109968	76	WX

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0900	7	21	100	0	37	2	0	0	58	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

SERBD: HYDROMETRIC AREA NO. 13

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Battlestown	2010	13B04	0.0	0.0	2.5	0.0	0.0	2.5	
Begerin Stream	2010	13B05	0.0	3.0	0.0	0.0	0.0	3.0	
Bridgetown (Wexford)	2010	13B01	0.0	4.9	2.7	0.0	0.0	7.5	
Cleristown Stream	2010/12	13C04	0.0	0.0	0.0	4.5	0.0	4.5	
Corock	2010	13C01	0.0	18.0	0.0	0.0	0.0	18.0	
Duncormick	2010	13D01	0.0	4.9	4.8	2.4	0.0	12.0	
Heathpark Stream	2010	13H01	0.0	0.0	5.0	0.0	0.0	5.0	
Mulmontry	2010	13M01	0.0	15.5	0.0	0.0	0.0	15.5	
Owenduff (Wexford)	2010	13O01	0.0	11.0	0.0	0.0	0.0	11.0	
Tintern Abbey Stream	2012	13T01	0.0	0.0	0.0	7.0	0.0	7.0	
Total Length (km) surveyed this cycle			0.0	57.2	15.0	13.9	0.0	86.0	
Adjustments (km) (See below)*			0.0	0.0	0.0	0.0	0.0	0.0	
Current Length (km) Adjusted			0.0	57.2	15.0	13.9	0.0	86.0	
Percentages			0.0	66.5	17.4	16.1	0.0	100.0	
Channel Length (km) in Class			2010 - '12		A	B	C	D	Total
Baseline : Current Adjusted Status (km)					57.2	15.0	13.9	0.0	86.0
Percentages					66.5	17.4	16.1	0.0	100.0
Baseline: Previous Unadjusted Status (km)**			8.5	41.5	21.0	15.0	0.0	86.0	
Percentages			2007 - '09	9.9	48.3	24.4	17.4	0.0	100.0
Changes since Previous Survey (km)			-8.5	15.7	-6.1	-1.2	0.0	0.0	

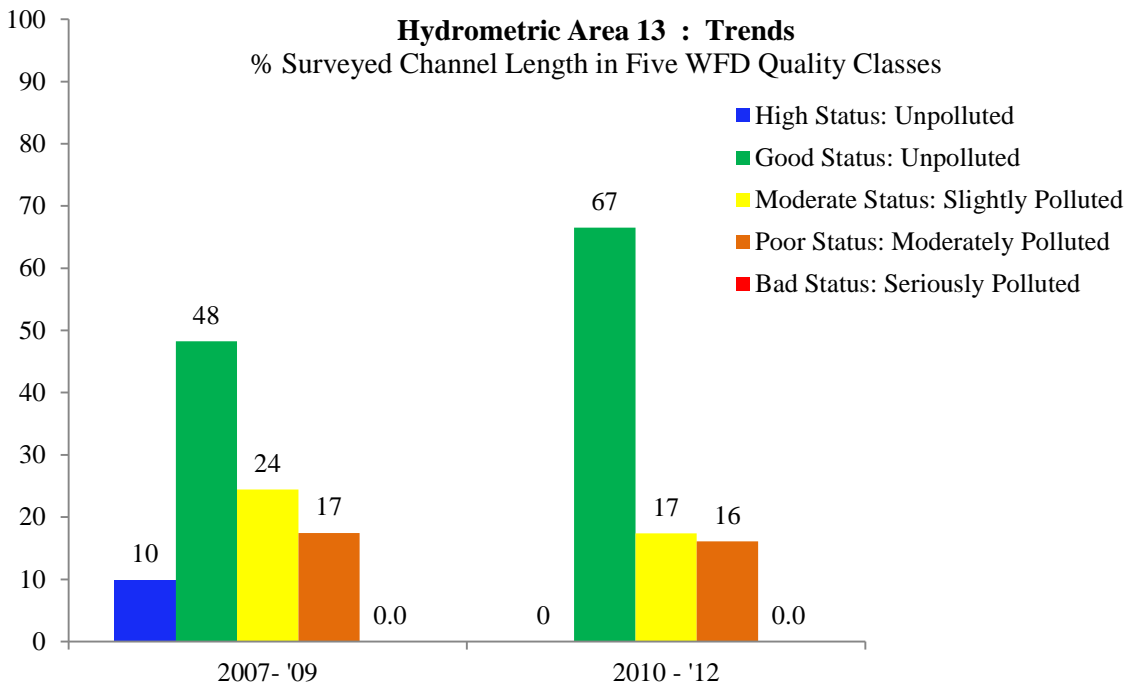
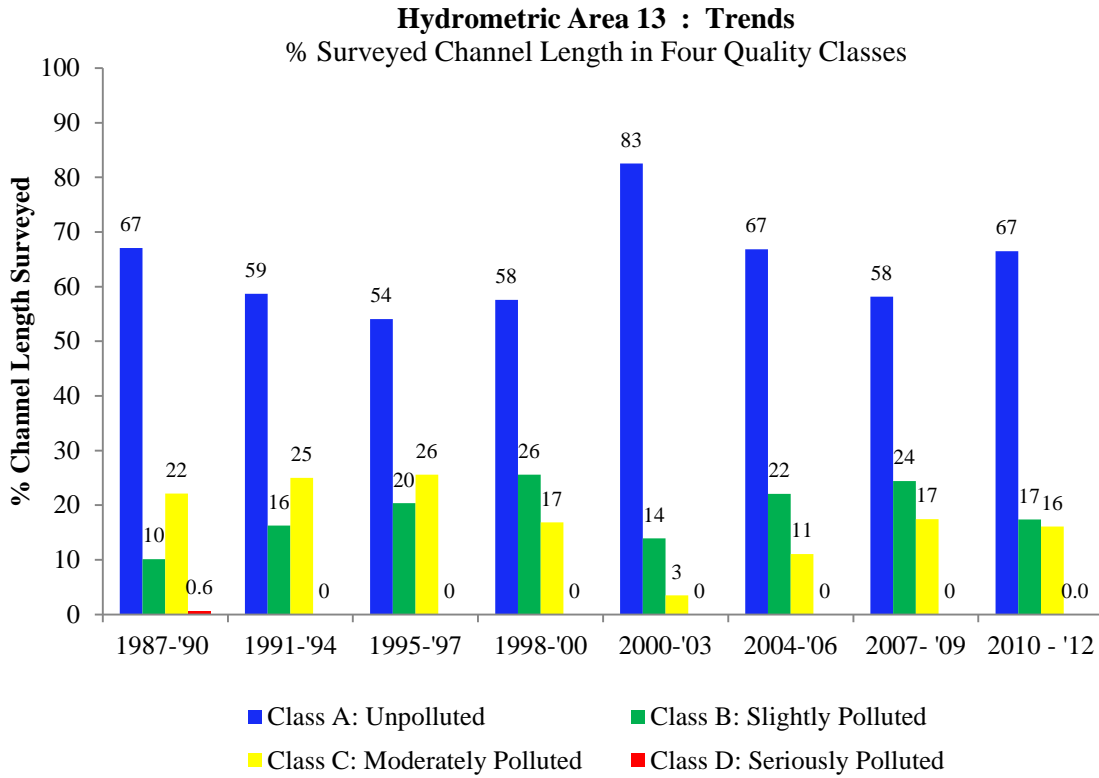
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of sites at WFD status	2007-'09	2010-'12
High	1	0
Good	10	14
Moderate	4	4
Poor	3	3
Bad	0	0
<hr/>		
Total number of sites surveyed	18	21
Total number of sites at unsatisfactory status	7	7



HYDROMETRIC AREA 15 (Nore: Partial Survey)

(Partial Survey Only, Balance of Survey in 2011)

ARIGNA (KILKENNY)	15A01
ARRIGLE	15A02
BALLYROAN	15B01
BAUNBALLINLOUGH STREAM *	15B12
BREGAGH (KILKENNY)	15B02
BROWNSTOWN STREAM	15B04
# CAHERLESK STREAM	15C12
CAPPANACLOGHY	15C06
CASTLECOMER STREAM	15C01
CLOGH	15C03
CLOGHNAGH	15C04
CLONAWOOLAN STREAM *	15C19
COALBROOK STREAM *	15C20
DESART STREAM	15D04
DININ (NORE)	15D02
DININ NORTH *	15D07
DININ SOUTH *	15D08
DONAGHMORE STREAM	15D03
ENNISNAG STREAM	15E02
ERKINA	15E01
ERRILL	15E03
GARRANACOOOL STREAM *	15G10
GLORY	15G01
GORTEENAHILLA	15G08
GOUL	15G02
GULLY	15G03
KING'S (KILKENNY)	15K02
LISDOWNEY	15L02
MUCKALEE	15M02
MUNSTER	15M03
NORE	15N01
NUENNA	15N02
OWVEG (NORE)	15O01
RATHDOWNEY STREAM	15R03
TULLAROAN STREAM *	15T02

indicates rivers having seriously polluted stretches at time of this survey.

- * BAUNBALLINLOUGH STREAM Formerly reported as the Ballydonnell Branch of the Goul 15G02
- * CLONAWOOLAN STREAM Formerly reported as the Coole Tributary of the Cappanacloghy 15C06
- * COALBROOK STREAM Formerly reported as the West Branch of the Kings (Nore) 15K02
- * DININ NORTH Formerly reported as the North Branch of the Dinin 15D02
- * DININ SOUTH Formerly reported as the South Branch of the Dinin 15D02
- * GARRANACOOOL STREAM Formerly reported as the East Branch of the Kings (Nore) 15K02
- * TULLAROAN STREAM Formerly reported as the East Branch of the Munster River 15M03

River and Code : **ARIGNA (KILKENNY)**

15/A/01

Tributary of : 15N02 NUENNA

OS Catchment No: 184

OS Grid Ref of Confluence: S 427 641

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2005	2007	2010
0400	4	4-5	3-4	3-4	3-4	4	4	4

Assessment: Continuing satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Arigna Br	242460	164069	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	64	22	0	100	80	2	0	0	18	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 15 (2010)

River and Code : **ARRIGLE**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 609 387
 Date(s) Surveyed: 3/6/2010

15/A/02
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1986	1989	1991	1995	1998	2001	2004	2007	2010
0100	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4	4
0200	4	4	4	4	-	-	-	-	-	-
0250	-	-	4	4	4	4	4	4	-	4-5
0300	5	4-5	4	3-4	4	4	4	3-4	4	4-5

Assessment: Improved with Good and High ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br W of Ballyconnaught	262181	130064	76	KK
0200	Br SW of Garrandarragh	260702	132205	76	KK
0250	Ballycorcoran Br	260436	135045	76	KK
0300	Ballyduff Br	260809	138221	68	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	97	17	100	0	73	5	0	0	12	0	10
0200	72	26	100	0	73	9	0	0	11	0	7
0250	48	38	100	0	72	12	0	0	10	0	6
0300	14	47	100	0	72	10	0	0	13	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYROAN**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 410 848
 Date(s) Surveyed: 5/8/2010

15/B/01
 OS Catchment No: 184

Station Nos.	1980	1982	1984	1987	1991	1995	Biological Quality Ratings (Q Values)				
							1998	2001	2005	2007	2010
0030	-	-	-	4	4	-	-	-	-	-	-
0050	-	-	-	3	3-4	-	-	-	-	-	-
0100	-	-	-	3	3-4	4	3-4	4	3-4	4	3-4
0150	-	4	4	3-4	4	3-4	3-4	3	3-4	-	-
0200	3	2-3	2-3	3	4	3	3	3	3	3	3

Assessment: Unsatisfactory, following deterioration since previous survey at Sallagh Bridge (0100) with only Moderate ecological quality, and continuing Poor quality downstream of Abbeyleix at Gloreen Bridge (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Dooary Br	0	0	0	LA
0050	Br in Ballyroan	0	0	0	LA
0100	Sallagh Br	244363	187557	60	LA
0150	Ballydine Br	243149	185605	60	LA
0200	Gloreen Br	242068	185179	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	101	31	0	100	77	11	4	0	7	0	1
0150	89	35	0	100	79	10	3	1	6	0	1
0200	85	39	0	100	78	9	3	4	6	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BAUNBALLINLOUGH STREAM** **15/B/12**
 Tributary of : 15G02 GOUL OS Catchment No: 184
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 8/9/2010

Formerly reported as the Ballydonnell Branch of the Goul 15G02

Station Nos.	Biological Quality Ratings (Q Values)						
	1991	1995	1998	2001	2005	2007	2010
0080	3-4	3	3-4	3-4	3	3-4	3

Assessment: Continuing unsatisfactory with Poor ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br u/s confl with R. Goul	228836	168495	60	KK

River and Code : **BREGAGH (KILKENNY)**

15/B/02

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 506 564

Date(s) Surveyed: 21/10/2010

Station Nos.	1980	1982	1985	1989	1991	1995	Biological Quality Ratings (Q Values)				
							1998	2001	2005	2007	2010
0050	-	-	-	4	-	-	-	-	-	-	-
0080	-	-	-	3	-	3	3-4	3	3	3	3-4
0300	2	3	3	2-3	-	-	-	-	n/s	-	-
0350	3	-	-	2-3	2-3	3	3	3	3	3	3

Assessment: Moderate and Poor ecological quality representing slight improvement at the first (0080) of the two locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SE of Ballyfrunk	242712	153828	67	KK
0080	Br NW of Aughtanny	245957	153340	67	KK
0300	Br E of Kilcreen House	248797	153165	67	KK
0350	Brewery Br, Kilkenny	250546	156366	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	108	4	0	100	100	0	0	0	0	0	0
0080	79	13	0	100	97	0	0	0	3	0	1
0300	67	45	0	100	89	0	0	0	8	0	3
0350	44	1644	0	100	73	0	0	3	23	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROWNSTOWN STREAM**

15/B/04

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 530 547

Date(s) Surveyed: 20/10/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2005	2007	2010
0100	3-4	-	-	-	-	-	-	-
0200	4	-	-	-	-	-	-	-
0300	2-3/0	-	-	-	-	-	-	-
0600	3-4	-	-	-	-	-	-	-
0800	3-4	3	3	3-4	3-4	3-4	-	-
1100	4	3-4	4	3-4	4	4	4	3-4*

Assessment: Deterioration to Moderate ecological quality with some siltation recorded. Also known as Pocke River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Ballyfoyle	0	0	0	KK
0200	Br NW of Kilkieran Cross-Roads	0	0	0	KK
0300	Br SW of Kilkieran Cross-Roads	253931	160913	61	KK
0600	Br S of Carrigeen	0	0	0	KK
0800	Br S of Brownstown	252388	157307	67	KK
1100	Br u/s Nore R confl	253026	154893	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	72	7	0	100	80	5	0	0	6	0	9
0800	55	30	0	100	78	2	0	0	17	0	3
1100	41	36	0	100	75	2	0	2	19	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAHERLESK STREAM** **15/C/12**
 Tributary of : 15K02 KING'S (KILKENNY) OS Catchment No: 184
 OS Grid Ref of Confluence: S 455 433
 Date(s) Surveyed: 28/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1995	1998	2001	2004	2007	2010
0200	3	-	-	-	-	-	-
0400	-	3	3	3	3	3	1

Assessment: Grossly polluted, with abundant slime growths (sewage fungus), by suspected farm discharges. Fauna had all but been totally eliminated indicating a recent episode.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br near Ballytobin House	0	0	0	KK
0400	Cormick Br	245626	143207	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	50	17	11	89	64	0	0	0	36	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAPPANACLOGHY**

15/C/06

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 404 877

Date(s) Surveyed: 22/9/2010

Station Nos.	1987	1988	1989	1990	1991	1995	Biological Quality Ratings (Q Values)				
							1998	2001	2005	2007	2010
0100	3-4	-	-	-	-	-	-	-	n/s	-	-
0400	2	2	2	2	3	2	3	2	3-4	3	3
0500	-	-	-	2	-	-	-	-	-	-	-
0600	3	-	-	-	3*	-	-	-	-	-	-
0700	1	2-3	3	3	3	3	4	3-4	3-4	-	-
0800	2	3	-	-	3	-	-	-	-	-	-
0900	-	-	-	-	-	3	4	3	4	4	n/s

Assessment: Continuing unsatisfactory, with Poor ecological quality, due to moderately polluted conditions, at Bridge East of Cloncullen. The other scheduled sample location, Bartle's Bridge, where a new bridge has been erected, was slow-flowing with unsuitable substratum for biological sampling.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SE of Kylealiss	0	0	0	
0400	Br E of Clooncullen	239724	197380	54	LA
0500	W of Gorteen	0	0	0	LA
0600	Cloncourse Br	241190	195424	54	LA
0700	The Hollow Br	241193	193775	54	LA
0800	Doon Br	0	0	0	LA
0900	Bartle's Br	240302	189619	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	108	5	18	82	71	5	5	0	6	0	13
0600	99	21	5	95	60	1	22	1	7	0	9
0700	91	24	4	96	58	1	21	1	10	0	9
0900	86	42	2	98	60	1	21	0	10	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CASTLECOMER STREAM**

15/C/01

Tributary of : 15D02 DININ (NORE)

OS Catchment No: 184

OS Grid Ref of Confluence: S 537 732

Date(s) Surveyed: 13/9/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1984	1988	1991	1995	1998	2001	2005	2007	2010
0100	4	4	4	4	4	4	3-4	3-4	4	4

Assessment: Continuing satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at N end of Castlecomer	253248	173188	61	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	118	17	0	100	66	17	0	1	12	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGH**

15/C/03

Tributary of : 15D02 DININ (NORE)

OS Catchment No: 184

OS Grid Ref of Confluence: S 560 777

Date(s) Surveyed: 13/9/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1980	1985	1988	1991	1995	1998	2001	2005	2007	2010
0100	-	-	4	4	4	-	-	-	-	n/s	-	-
0200	-	-	-	-	4	4	3-4	4	3-4	4	-	-
0300	5	4-5	4	3-4	3-4	3-4	-	-	-	n/s	4	4
0400	-	-	-	-	-	-	3-4	3-4	3-4	3-4	-	-

Assessment: Continuing satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	The Swan Br	256454	182512	61	LA
0200	Slatt Br	256466	180736	61	KK
0300	Clogh Br	256567	179014	61	KK
0400	Ford (Br) d/s Clogh Br	256239	178552	61	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	171	10	0	100	39	48	0	0	14	0	0
0200	149	20	0	100	60	28	0	2	10	0	0
0300	135	32	0	100	66	19	0	1	13	0	0
0400	131	33	0	100	68	19	0	1	12	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGHNAGH**
 Tributary of : 15D02 DININ (NORE)
 OS Grid Ref of Confluence: S 511 668
 Date(s) Surveyed: 13/9/2010

15/C/04
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1995	1998	2001	2005	2007	2010
0300	3-4	3-4	3-4	4	3-4	3-4	n/s	-
0400	4	4-5	4	4	3-4	4	4	4

Assessment: Continuing satisfactory with Good ecological quality. Also known as River Glosia.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Tober Muire Br	249978	169268	60	KK
0400	Br u/s Dinin R confl	250758	167292	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	121	13	0	100	87	9	0	0	0	0	4
0400	93	17	0	100	90	7	0	0	0	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONAWOOLAN STREAM** **15/C/19**
 Tributary of : 15C06 CAPPANACLOGHY OS Catchment No: 184
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 22/9/2010

Formerly reported as the Coole Tributary of the Cappanacloghy 15C06

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1989	1991	1995	1998	2001	2005	2007	2010
1100	1	2	2-3	2-3	2-3	3-4	2	2-3	2-3	2-3

Assessment: Continuing unsatisfactory with Poor ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1100	Br S of Coole	242758	189112	60	LA

River and Code : **COALBROOK STREAM** **15/C/20**
 Tributary of : 15K02 KING'S (KILKENNY) OS Catchment No: 184
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 10/8/2010

Formerly reported as the West Branch of the Kings (Nore) 15K02

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1995	1998	2001	2005	2007	2010
0040	4	4-5	4	4	4-5	4	4	4

Assessment: Continuing satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s confl with East Branch	229814	149889	67	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	159	8	0	100	100	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DESART STREAM**

15/D/04

Tributary of : 15K02 KING'S (KILKENNY)

OS Catchment No: 184

OS Grid Ref of Confluence: S 453 432

Date(s) Surveyed: 12/8/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1991	1994	1995	1998	2001	2004	2007	2010
0200	3	-	-	-	-	-	-	-	-
0300	3-4	3	-	3	3-4	3	3	-	-
0500	2-3	2	3	2-3	3-4	3	3	3	3-4

Assessment: Some improvement but only Moderate ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Clasheen Br	242972	149867	0	KK
0300	Br S of Desart Demesne	243703	147539	67	KK
0500	Br d/s Br SE of Knockreagh	244060	145107	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	72	15	0	100	76	2	0	0	14	0	7
0500	62	19	0	100	78	2	0	0	14	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DININ (NORE)**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 468 619
 Date(s) Surveyed: 22/9/2010

15/D/02
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1979	1985	1988	1991	1995	1998	2001	2005	2007	2010
0700	5	-	4-5	4	4	3-4	3-4	4	3-4	3-4	4	4
0760	-	-	-	-	4	3-4	3-4	4	4	3-4	n/s	-
0800	5	5	4-5	3-4	4	4	4	4	4	3-4	4	4

Assessment: Continuing satisfactory with Good ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Lisnafunshion	252151	168072	61	KK
0760	New Dinin Br	249553	164598	60	KK
0800	Dinin Br	247899	162847	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	87	247	0	100	72	11	0	1	6	0	9
0760	68	292	0	100	75	11	0	1	5	0	8
0800	58	299	0	100	75	10	0	1	6	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DININ NORTH**
 Tributary of : 15D02 DININ (NORE)
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 21/9/2010

15/D/07
 OS Catchment No: 184

Formerly reported as the North Branch of the Dinin 15D02

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1975	1979	1981	1985	1988	1989	1991	1995	1998	2001	2005	2007	2010
0070	-	-	-	-	-	4-5	-	4	-	-	-	n/s	-	-
0080	-	-	-	-	-	2	3	3	3	3	3-4	3-4	4	3-4
0100	-	-	3-4	4-5	3-4	3-4	-	4	-	-	-	-	-	-
0125	-	-	-	-	-	3-4	-	3-4	-	-	-	-	-	-
0200	5	-	4	4	4	-	-	-	3-4	4	3-4	4	4	4
0250	-	-	-	-	-	4	-	4	-	-	-	-	-	-
0300	-	-	-	4-5	4	4	-	4	3-4	4	4	4	-	-
0350	5	4	-	-	3-4	3-4	-	3-4	-	-	-	-	-	-
0400	-	-	4-5	-	4	-	-	-	4	3-4	3-4	3-4	4	4

Assessment: Mostly satisfactory with Good ecological quality. Only Moderate quality at first location (0080) where river had been recently cleared and where bank erosion had occurred.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Br SW of Moore's Cross Rds	0	0	0	
0080	Killeen Br	259788	177331	61	LA
0100	Br N of Crettyard House	258800	177500	61	LA
0125	Doonane Br	0	0	0	LA
0200	Massford Br	255655	177258	61	KK
0250	Br NE of Wood View	0	0	0	
0300	Br in Castlecomer	253716	173057	61	KK
0350	Ballyhimmin	0	0	0	
0400	Dysart Br (N Channel)	253172	170014	61	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	125	82	0	100	76	11	0	1	7	0	5
0300	112	139	0	100	71	12	0	1	12	0	4
0400	100	149	0	100	73	11	0	2	10	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DININ SOUTH**
 Tributary of : 15D02 DININ (NORE)
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 21/9/2010

15/D/08
 OS Catchment No: 184

Formerly reported as the South Branch of the Dinin 15D02

Station Nos.							Biological Quality Ratings (Q Values)				
	1979	1981	1985	1988	1991	1995	1998	2001	2005	2007	2010
0450	-	5	5	4	4-5	4	3-4	4	4	4	4-5
0500	5	5	5	-	-	4	4	3-4	4	n/s	-
0600	4-5	5	4-5	4-5	4	3-4	4	4	3-4	4	4

Assessment: Satisfactory with High and Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0450	Black Br	261777	170074	61	CW
0500	Uskerty Br	257458	169457	61	KK
0600	Dysart Br (S Channel)	253118	169885	61	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0450	180	21	0	100	49	20	0	0	0	0	30
0500	139	76	0	100	72	18	0	0	0	0	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DONAGHMORE STREAM**

15/D/03

Tributary of : 15E01 ERKINA

OS Catchment No: 184

OS Grid Ref of Confluence: S 276 788

Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2005	2007	2010
0200	4	3-4	-	-	-	n/s	-	-
0400	3-4	3-4	3	4	3-4	4	-	4
0600	4	3-4	-	-	-	-	-	-
0700	4	3-4	3	4	3-4	3-4	3-4	3-4

Assessment: No change. Good and Moderate ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Brockry Br	0	0	0	LA
0400	Coolowley Br	223296	181102	60	LA
0600	Br u/s Donaghmore	0	0	0	LA
0700	Donaghmore Br	226761	180169	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	109	N/A	12	88	73	1	4	0	11	0	11
0700	91	36	6	94	82	1	2	0	11	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ENNISNAG STREAM**

15/E/02

Tributary of : 15K02 KING'S (KILKENNY)

OS Catchment No: 184

OS Grid Ref of Confluence: S 525 440

Date(s) Surveyed: 12/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1995	1998	2001	2004	2007	2010
0500	3	-	-	-	-	-	-	-
0700	3-4	4	3-4*	3-4	3-4	3	3-4	3-4

Assessment: Only Moderate ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br SE of Cottrellsrath	249355	146714	0	KK
0700	Br in Ennisnag	252490	144022	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	31	47	0	100	58	0	0	0	42	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ERKINA**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 420 773
 Date(s) Surveyed: 8/9/2010

15/E/01
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)											
	1976	1980	1985	1988	1989	1991	1995	1998	2001	2005	2007	2010
0040	-	-	-	3	-	3-4	3	3-4	3-4	3-4	3-4	3-4
0050	-	-	-	3	-	3	-	-	-	-	-	-
0100	4-5	4	4	3-4	-	4	4	3-4	4	3-4	n/s	-
0200	4	4	2	2-3	3	3	2-3	3-4	3	3	3-4	3-4
0250	-	3	2-3	3	-	3-4	-	-	-	-	-	-
0300	-	3	3	3	-	3-4	3	3-4	3-4	3-4	3-4	3-4
0350	-	-	-	3-4	-	3-4	-	-	-	-	-	-
0400	4-5	4	4	4	-	-	4	4	3-4	4	n/s	-
0500	-	4	4	4	-	3-4	-	-	-	-	-	-
0550	-	-	4	4	-	3-4	3-4	4	3-4	3-4	3-4	4

Assessment: Mostly only Moderate ecological quality but improvement to Good at final location in Durrow.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Templequain Br	223238	175572	60	LA
0050	Br at Lyroge	0	0	0	LA
0100	Clarneyball Br	226656	178749	60	LA
0200	Coneyburrow Br	229068	178387	60	LA
0250	Coolkerry Br	230299	177741	60	KK
0300	Carrick Br	231563	177921	60	KK
0350	Br d/s Carrick Br	0	0	0	KK
0400	Br near Black Island	236364	178149	60	KK
0500	Foot-bridge 0.5 km u/s Durrow Br	240503	177472	60	KK
0550	Durrow Br	240813	177488	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	114	19	0	100	63	6	5	0	7	0	18
0100	90	62	1	99	76	4	5	0	6	0	9
0200	85	132	2	98	80	2	3	1	8	0	6
0250	83	137	2	98	80	2	3	1	9	0	6
0300	80	154	2	98	80	2	3	1	10	0	5
0400	77	180	2	98	80	2	2	1	10	0	5
0500	74	379	1	99	78	3	2	1	13	0	4
0550	73	380	1	99	78	3	2	1	13	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ERRILL**

15/E/03

Tributary of : 15E01 ERKINA

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 28/7/2010

Station Nos.	Biological Quality Ratings (Q Values)		
	2005	2007	2010
0500	3-4	3-4	3-4

Assessment: No change with only Moderate ecological quality again recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Eglish Br	224418	178043	60	LA

River and Code : **GARRANACOOOL STREAM** **15/G/10**
 Tributary of : 15K02 KING'S (KILKENNY) OS Catchment No: 184
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 10/8/2010

Formerly reported as the East Branch of the Kings (Nore) 15K02

Station Nos.	1987	1991	1995	1998	Biological Quality Ratings (Q Values)			
	2001	2005	2007	2010				
0060	4	3-4	4	3-4	4	2	3-4	4

Assessment: Improved with Good ecological quality. Has been seriously polluted in past.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br SE of Garranacool	231220	149863	67	TY

River and Code : **GLORY**

15/G/01

Tributary of : 15K02 KING'S (KILKENNY)

OS Catchment No: 184

OS Grid Ref of Confluence: S 484 430

Date(s) Surveyed: 2/6/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1986	1989	1991	1995	1998	2001	2004	2007	2010
0020	-	-	4	4	-	-	-	-	-	-
0040	-	-	3-4	3	1	-	-	-	-	-
0045	-	-	-	-	1	2-3	2	2	2-3	2-3
0100	5	4	3	4	3-4	4	3-4	3	-	-
0200	5	4	4	3-4	3	3-4	4	3	3-4	4
0300	5	4	4	4	3	4	4	3-4	4	4

Assessment: Continuing polluted, by sewage discharges, downstream of Kilmaganny (0045). Otherwise mostly satisfactory following improvement in ecological quality at the second location (0200). However just upstream of the second location (Chapelizoid Bridge) an artificial feature, comprising large landscape boulders across the river width, is acting as a barrier to fish passage.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br SW of Kilmaganny	0	0	0	KK
0040	Br N of Kilmaganny	245775	135218	67	KK
0045	0.1 km d/s Br N of Kilmaganny	245885	135201	67	KK
0100	Br SE of Rogerstown Br	246832	137121	67	KK
0200	Chapelizoid Br South	248509	139863	67	KK
0300	Br u/s King's R confl	248364	143103	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	61	8	89	11	91	2	0	0	7	0	0
0045	61	7	88	12	91	0	0	0	8	0	0
0100	55	14	75	25	80	8	0	0	9	0	3
0200	53	62	53	47	70	8	0	0	18	0	4
0300	44	371	47	53	70	7	0	0	20	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GORTEENAHILLA**

15/G/08

Tributary of : 15N02 NUENNA

OS Catchment No: 184

OS Grid Ref of Confluence: S 405 647

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1995	1998	2001	2005	2007	2010
0300	4	3	3	3-4	3-4	3-4	3-4
0500	4	-	-	-	n/s	-	-

Assessment: Continuing eutrophic with only Moderate ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br N of Balleen	238263	167307	60	KK
0500	Br at Mills in Freshford	240356	164933	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	106	22	0	100	85	4	0	0	7	0	4
0500	77	62	0	100	78	3	0	0	14	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GOUL**
 Tributary of : 15E01 ERKINA
 OS Grid Ref of Confluence: S 374 779
 Date(s) Surveyed: 17/8/2010

15/G/02
 OS Catchment No: 184

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1980	1984	1987	1991	1995	1998	2001	2005	2007	2010
0100	-	3	3-4	3-4	4	-	-	-	n/s	-	-
0250	-	-	-	3	3	3	3	3-4	3	3-4	3
0300	-	-	3-4	4	3-4	3-4	3-4	3-4	3	3-4	3-4
0360	-	-	-	-	-	3-4	4	3-4	4	4	3-4
0400	-	4	3-4	4	3-4	-	-	-	-	-	-
0500	4-5	4	4	4	4	3-4	3-4	3-4	3-4	4	4

Assessment: Mostly unsatisfactory with Moderate and Poor ecological quality. Continuing satisfactory with Good ecological quality at final sampling location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Urlingford	228068	163753	60	KK
0250	Br 2 km NW of Johnstown	229037	167905	60	KK
0300	Fertagh Bridges	230637	170320	60	KK
0360	2nd Br u/s Aghmacart Br	231558	173524	60	LA
0400	Aghmacart Br	233030	173955	0	LA
0500	Br near Newtown Mills	236339	177355	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	116	54	0	100	61	9	3	1	19	0	8
0250	112	88	0	100	65	6	2	1	20	0	5
0300	108	118	0	100	70	5	2	1	19	0	4
0360	102	136	0	100	73	4	1	1	17	0	3
0500	79	159	0	100	76	4	1	1	16	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GULLY**

15/G/03

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 415 788

Date(s) Surveyed: 8/7/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1980	1984	1987	1991	1995	1998	2001	2005	2007	2010
0060	-	-	-	3-4	3-4	3-4	3-4	3	3	3	3
0100	-	4	3-4	3	4	3	3-4	4	4	4	4
0200	5	5	4	3-4	4	3-4	4	3	4	-	-
0300	5	5	5	3-4	4	4	4	4	4	4	4

Assessment: No change since previous survey with the first sample location (0060) continuing Poor quality and the other two (0100, 0300) Good quality. The substratum of this river is naturally heavily calcified in places.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Gully Br	231402	187629	60	LA
0100	Gortnaclea Br	236076	186396	60	LA
0200	Gully Br	239013	182569	60	LA
0300	Colooney Br	240412	179264	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	99	8	0	100	90	0	0	0	10	0	0
0100	84	38	0	100	82	1	0	0	11	0	6
0200	78	53	0	100	79	2	0	0	15	0	4
0300	75	67	0	100	75	3	0	0	18	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KING'S (KILKENNY)**

15/K/02

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 547 442

Date(s) Surveyed: 10/8/2010, 11/8/2010, 12/8/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1979	1983	1987	1991	1995	1998	2001	2005	2007	2010
0100	-	-	4-5	4	4	4-5	-	-	-	-	-	-
0200	-	-	4-5	4	4	3	4	3-4	4	4	4	4
0250	-	-	-	-	3	3-4	-	4	4	4	-	-
0300	4-5	3-4	4-5	4	4	-	-	-	-	-	-	-
0400	-	4	5	4-5	3-4	-	-	-	-	-	-	-
0500	4	-	4-5	4	3	3-4	3	3-4	3	3	3-4	3-4
0600	4	3-4	4	3-4	3	3	-	3-4	3-4	3-4	4	4
0700	-	-	-	4	3-4	3-4	3-4	3-4	3-4	3-4	-	-
0800	4-5	4	4-5	4	3-4	4	-	-	-	-	3-4	3-4
0850	-	-	-	-	3-4	3-4	3	3-4	3-4	3-4	-	-
0900	4-5	4	4-5	4	3-4	3-4	3	3	3-4	3-4	3-4	3-4

Assessment: Only Moderate ecological quality over much of its course (0500, 0800, 0900). Maintaining improvement of Good quality downstream of Callan (0600) and continuing likewise at the uppermost location (0200). Seepage of 'sewage' from old discharge pipe on left-hand side some 100m downstream of bridge in Callan (0500). Two weirs downstream of bridge at Kells may hinder fish passage and that area (0800) was assessed as only Moderate hydromorphological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballingarry Br	229608	149021	67	KK
0200	At Garrynoe	229351	147669	67	TY
0250	Second Br u/s Island's Br	231157	144765	67	KK
0300	Island's Br	233128	144143	67	TY
0400	Br near Physicianstown	237106	143804	67	KK
0500	Br in Callan	241539	143878	67	KK
0600	2 km d/s Callan - nr Old Mill	243161	142720	67	KK
0700	Newtown Br	246458	143559	67	KK
0800	Kells Br	249411	143686	67	KK
0850	Near Kellsborough House	250423	143379	67	KK
0900	Ennisnag Br	252605	143932	67	KK

Hydrometric Area 15 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	146	19	0	100	100	0	0	0	0	0	0
0200	132	22	0	100	100	0	0	0	0	0	0
0250	96	53	0	100	97	1	0	0	2	0	0
0300	84	58	0	100	97	1	0	0	2	0	0
0400	72	64	0	100	97	1	0	0	2	0	0
0500	61	203	0	100	91	1	0	0	7	0	1
0600	57	240	2	98	89	2	1	0	7	0	1
0700	48	293	2	98	86	1	1	0	11	0	1
0800	40	378	10	90	82	2	0	0	13	0	2
0850	40	381	10	90	82	2	0	0	14	0	2
0900	31	395	10	90	81	2	0	0	14	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISDOWNEY**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 442 685
 Date(s) Surveyed: 5/8/2010

15/L/02
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)						
	1991	1995	1998	2001	2005	2007	2010
0100	-	4	3-4	3-4	4	4	4
0200	3	-	-	-	-	-	-
0300	3	dry	-	-	-	-	-

Assessment: Satisfactory with Good ecological quality. The river can become dry at other locations in summer as happened at Grange Bridge (0300) in 1995.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Lisdowney Cross Rds	241126	171277	60	KK
0200	Br E of Lisdowney Cross Rds	0	0	0	KK
0300	Grange Br	243629	168626	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	93	13	0	100	91	5	0	0	4	0	0
0300	67	22	0	100	81	3	0	0	16	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MUCKALEE**
 Tributary of : 15D02 DININ (NORE)
 OS Grid Ref of Confluence: S 508 665
 Date(s) Surveyed: 13/9/2010

15/M/02
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1985	1989	1991	1995	1998	2001	2005	2007	2010
0100	5	4	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5
0200	5	4	4	4	4	4	4	4	4	4

Assessment: Continuing satisfactory, with High and Good ecological quality, with no change in recent surveys. Also known as Douglas River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Cloghpook	254855	165682	61	KK
0200	Br u/s Dinin R confl	251298	166322	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	160	9	0	100	74	16	0	0	0	0	10
0200	85	15	0	100	82	10	0	0	0	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 15 (2010)

River and Code : **MUNSTER**

15/M/03

Tributary of : 15K02 KING'S (KILKENNY)

OS Catchment No: 184

OS Grid Ref of Confluence: S 393 445

Date(s) Surveyed: 10/8/2010, 11/8/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1985	1987	1991	1998	2001	2005	2007	2010
0500	5	4	4	-	-	-	-	-	-
0540	-	-	4	3-4	4	3-4	3-4	4	4
0600	5	4-5	4	4-5	3-4	3-4	4	4-5	4
0700	5	4	4	4	4	3-4	3-4	3-4	4

Assessment: Satisfactory, with Good ecological quality, at all three locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br SW of Gortnagap	233413	154399	67	KK
0540	Br WSW of Killeen	235073	152475	67	TY
0600	Cappagh Br	236133	148542	67	KK
0700	Br u/s King's R confl	239277	145283	67	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	184	5	0	100	97	2	0	0	1	0	0
0540	143	14	0	100	98	1	0	0	1	0	0
0600	94	29	0	100	96	0	0	0	3	0	0
0700	68	101	0	100	87	1	0	0	11	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 15 (2010)

River and Code : **NORE**

15/N/01

Tributary of : Barrow/Nore/Suir Estuary

OS Catchment No: 184

OS Grid Ref of Confluence: S 706 306

Date(s) Surveyed: 18/10/2010, 19/10/2010, 20/10/2010, 21/10/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1975	1979	1981	1984	1987	1991	1995	1998	2001	2004	2007	2008	2010
0030	-	-	-	-	-	-	-	3	4	3	4	-	-	-
0080	-	-	-	-	-	-	3-4	3-4	3-4	3-4	3-4	4	-	4
0100	-	-	4-5	4-5	4	4	4	-	-	-	-	-	-	-
0200	-	-	3	4	3-4	3-4	4	3	3-4	3-4	3-4	-	-	-
0300	5	4-5	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	-	4
0400	5	5	4-5	-	3-4	3-4	4	4	3-4	3-4	3-4	-	-	-
0500	4-5	4-5	4-5	-	-	4	-	4*	4	4	4	4	-	4
0580	-	-	-	-	-	-	-	3-4	3-4	4	4	-	-	-
0600	5	4-5	5	-	4-5	4-5	4	-	-	-	-	-	-	-
0700	-	-	4	-	3-4	4	4	4	3-4	4	3-4	3-4	-	4
0800	5	5	4-5	-	4	4	4	-	-	-	-	-	-	-
0900	-	-	-	-	4	4-5	4	4	3-4	3-4	3-4	4	-	4
1000	5	5	5	-	4	4	4	-	-	-	-	-	-	-
1100	5	5	4-5	-	4	4	4-5	3-4	3-4	4	4	4	-	4
1200	-	-	-	-	4	4	4	-	-	-	-	-	-	-
1300	4-5	4-5	4-5	-	4	4	4	3-4	4	4-5	4-5	4	-	4
1400	5	4-5	4	4	4	3-4	3-4	-	-	-	-	-	-	-
1450	5	4-5	4	4	4	3-4	3-4	3-4	4	3-4	3-4	3-4	-	4
1500	4-5	4	3-4	4	3-4	3-4	3-4	-	-	-	-	-	-	-
1600	5	5	3-4	4	3-4	4	4	3-4	4	4	4	-	-	-
1700	-	-	4	-	4	4	4	4	4	4	4	4	-	4
1750	-	-	-	-	-	4	4	-	-	-	-	-	-	-
1800	5	4-5	5	-	5	5	4	4	4-5	4	4	4	-	4
1900	-	-	-	-	2-3	4-5	4	3-4	-	-	-	-	-	-
1950	3-4	3	-	-	2-3	4	3-4	3-4	3-4	3-4	3-4	3-4	-	4
2000	-	-	3	3-4	3-4	4	4	3	3-4	3	3-4	3	-	4*
2100	-	-	4	-	3-4	3-4	4	4	-	-	-	-	-	-
2120	-	-	4	-	3-4	3-4	4	4	4	3-4	3-4	-	-	-
2200	-	-	4	-	3-4	4	4	3-4	3-4	3-4	3-4	4	-	4
2305	4-5	4-5	3-4	3	3	2	2	2	3	2	3	2	3	4
2310	4-5	4-5	3-4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	4	-	4
2320	-	-	-	-	-	-	-	3	3-4	3-4	3	3	-	3
2400	-	-	4	4	4	4	3-4	3-4	4	4	3-4	3-4	-	4

Assessment: Improved. Satisfactory, with Good ecological quality, over most of its course. Poor quality downstream of Thomastown (2320). Some siltation recorded downstream of Kilkenny (2000).

Hydrometric Area 15 (2010)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br SW of Clonakenny	210834	180507	59	TY
0080	Br NE Clonakenny	213153	181463	60	TY
0100	Curragunneen Br	214207	182899	60	TY
0200	Nore Br, SE of Roscrea	217232	185677	60	TY
0300	Quaker's Br	221099	186962	60	LA
0400	New Br, WNW of Borris-in-Ossory	223718	187833	60	LA
0500	Br S of Coolrain	229321	190565	54	LA
0580	Danganroe Br	232593	193087	54	LA
0600	Castletown, New Road Br	234208	192101	54	KK
0700	Kilbricken Br	236144	190004	54	LA
0800	New Br	237453	187978	60	LA
0900	Poorman's Br	240775	185967	60	LA
1000	Waterloo Br	241165	184062	60	KK
1100	Watercastle Br	242572	180312	60	LA
1200	New Br, u/s Durrow	241540	178595	60	LA
1300	Tallyho Br	242319	176232	60	LA
1400	0.5 km u/s Ballyragget	244267	171182	60	KK
1450	Ballyragget Br	244528	170813	60	KK
1500	1.5 km d/s Ballyragget	244009	169382	60	KK
1600	Lismaine Br	244102	166118	60	KK
1700	Threecastles Br	245811	162687	60	KK
1750	ENE of Troyswood House	249539	159374	67	KK
1800	1 km u/s Green's Br, Kilkenny	250457	157314	67	KK
1900	St John's Br, Kilkenny	251080	155819	67	KK
1950	Fennessy's Mill (Ossory Br)	252280	154969	67	KK
2000	NE of Warrington, d/s Kilkenny	253739	154473	67	KK
2100	Bennettsbridge, 600 m d/s br	255340	148725	67	KK
2120	1 km d/s Bennettsbridge	255341	148743	67	KK
2200	Ballylinch Br	254688	143592	67	KK
2305	Thomastown Br (LHS)	258572	141743	67	KK
2310	Thomastown Br (RHS)	258572	141743	67	KK
2320	1 km d/s Thomastown Br	259179	141770	67	KK
2400	Brownsbarn Br	261808	139168	68	KK

Hydrometric Area 15 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	130	6	94	6	87	8	0	0	5	0	0
0080	120	19	72	28	92	3	0	0	5	0	0
0100	112	30	67	33	95	2	0	0	3	0	0
0200	101	47	58	42	92	1	1	0	2	0	3
0300	100	83	45	55	74	6	8	0	6	0	7
0400	100	109	40	60	76	5	6	0	6	0	6
0500	95	153	35	65	77	5	5	0	7	0	6
0580	92	268	55	44	59	17	9	0	9	0	5
0600	90	275	54	46	60	16	9	0	9	0	6
0700	88	339	53	47	60	15	10	1	9	0	5
0800	86	347	52	48	60	15	10	1	9	0	5
0900	81	429	42	58	61	12	10	1	9	0	6
1000	79	474	38	62	63	12	10	1	9	0	5
1100	76	489	37	63	62	12	10	1	9	0	5
1200	74	561	32	68	63	11	8	1	11	0	5
1300	71	947	19	81	69	8	6	1	11	0	5
1400	65	1058	17	83	71	8	5	1	11	0	4
1450	64	1059	17	83	71	8	5	1	11	0	4
1500	62	1067	17	83	71	8	5	1	11	0	4
1600	58	1105	17	83	71	8	5	1	12	0	4
1700	53	1235	15	85	72	7	4	1	12	0	4
1750	47	1561	12	88	72	8	3	1	11	0	5
1800	44	1570	12	88	72	8	3	1	11	0	5
1900	42	1644	11	89	72	7	3	1	12	0	5
1950	40	1648	11	89	72	7	3	1	12	0	5
2000	38	1705	11	89	72	7	3	1	12	0	4
2100	29	1768	10	90	71	7	3	1	13	0	4
2120	29	1768	10	90	71	7	3	1	13	0	4
2200	21	2222	10	90	73	6	2	1	14	0	4
2305	14	2309	12	88	73	6	2	1	14	0	4
2310	14	2309	12	88	73	6	2	1	14	0	4
2320	13	2358	12	88	73	6	2	1	14	0	4
2400	8	2418	15	85	73	6	2	1	14	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NUENNA**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 442 641
 Date(s) Surveyed: 7/7/2010

15/N/02
 OS Catchment No: 184

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1980	1985	1987	1991	1995	1998	2001	2005	2007	2010
0100	-	4	4	4	3-4	3-4	3-4	3-4	3	4	3-4
0200	-	4	4	3-4	3-4	-	-	-	-	-	-
0300	-	4	4	3-4	3	3	3	3	3	3	3-4
0400	4-5	4	4-5	3-4	4	3-4	4	3-4	3-4	3	-

Assessment: Only Moderate ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br d/s Clomantagh	236280	163720	60	KK
0200	Freshford, E Br	0	0	0	KK
0300	1km d/s Freshford	241320	164642	60	KK
0400	Br near Cooleeshal	244548	164220	60	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	108	23	0	100	78	3	0	0	14	0	5
0300	69	66	0	100	78	3	0	1	14	0	4
0400	56	1191	15	85	71	7	4	1	12	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWVEG (NORE)**

15/O/01

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 440 735

Date(s) Surveyed: 9/9/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1984	1987	1991	1995	1998	2001	2005	2007	2010
0050	-	-	3-4	4	-	3-4	4	4	3-4	4
0060	-	-	3-4	3-4	-	-	-	n/s	-	-
0080	-	-	-	-	3	3-4	3-4	3-4	4	4
0100	4	3-4	3-4	4	-	-	-	n/s	-	-
0160	-	-	-	-	4	3-4	4	4	4	4
0200	4	4	4	4	-	-	-	n/s	-	-
0280	-	-	-	-	4	4	4	4	3-4	4
0300	5	4	4	4	-	-	-	n/s	-	-
0400	-	-	-	-	4	4	4	4	4	4

Assessment: Improved with Good ecological quality recorded at all sampling locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br W of Spink	251915	183643	60	LA
0060	Graiguenasmuttan Br	0	0	0	LA
0080	Boleybeg Br	249560	184070	60	LA
0100	Dysart Wooden Br	248987	182613	60	LA
0160	Br WNW of Boleybawn	247994	181032	60	LA
0200	Ironmills Br	247330	179567	60	KK
0280	Castlemarket Br	245754	178117	60	KK
0300	Rosconnell Br	245113	177986	60	KK
0400	Attanagh Br	244170	175889	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	162	14	0	100	70	13	0	0	14	0	3
0080	144	29	0	100	74	16	0	0	8	0	3
0100	138	33	0	100	77	14	0	0	7	0	2
0160	121	41	0	100	79	12	0	1	5	0	2
0200	112	43	0	100	80	11	0	1	5	0	2
0280	97	57	0	100	79	12	0	1	6	0	2
0300	92	72	0	100	81	9	0	1	5	0	3
0400	79	83	0	100	80	8	1	2	6	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RATHDOWNEY STREAM**

15/R/03

Tributary of : 15E01 ERKINA

OS Catchment No: 184

OS Grid Ref of Confluence: S 283 788

Date(s) Surveyed: 28/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1995	1998	2001	2005	2007	2010
0100	3	3	-	-	n/s	-	-
0300	3	3	3	-	n/s	-	-
0500	3-4	-	-	-	n/s	-	-
0700	4-5	4	3-4	3*	3-4	3-4*	3-4*
1000	3	3	-	-	-	-	-
1100	3	3	3-4	3	3-4	3-4	3-4*

Assessment: No change with only Moderate ecological quality and siltation at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Cody's Castle	226553	172711	60	KK
0300	Br u/s confl with Castletown Tribu	227365	173556	60	KK
0500	Br W of Whiteswall	226970	173717	60	KK
0700	Br W of Glasha Crossroads	227098	175990	60	LA
1000	Br at S end of Rathdowney	228044	178207	60	LA
1100	Br in Rathdowney	227973	178139	60	LA

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	127	3	0	100	76	0	0	11	13	0	0
0500	121	4	0	100	72	0	0	9	19	0	0
0700	109	10	0	100	83	0	0	6	12	0	0
1000	93	15	0	100	84	0	0	5	10	0	0
1100	94	13	0	100	84	0	0	6	10	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TULLAROAN STREAM**

15/T/02

Tributary of : 15M03 MUNSTER

OS Catchment No: 184

OS Grid Ref of Confluence:

Date(s) Surveyed: 11/8/2010

Formerly reported as the East Branch of the Munster River 15M03

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1985	1987	1991	1995	1998	2005	2007	2010
0100	4	3	2-3	-	-	-	n/s	-	-
0250	-	-	3-4	3-4	-	3-4	3-4	4	4
0300	4	3-4	3	4	-	-	-	-	-
0400	5	4	4	4	-	4	3-4	-	-
0450	-	-	4	4	3-4	3-4	3-4	4	4

Assessment: Satisfactory with Good ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br in Tullaroan	237800	156700	67	KK
0250	Br at Oldtown	238863	154617	67	KK
0300	Br E of Kilmanagh	239400	152200	67	KK
0400	Br E of Graigue	239927	150134	67	KK
0450	Br u/s confl. with Munster R	239274	146694	0	KK

HYDROMETRIC AREA 17 (Colligan – Mahon)	
ARAGLIN (COLLIGAN)	17A01
BRICKEY	17B01
COLLIGAN	17C01
DALLIGAN	17D01
DUNHILL	17D02
LEPERSTOWN STREAM	17L01
MAHON	17M01
MORRAGEN	17M02
TAY	17T01

Hydrometric Area 17 (2010)

River and Code : **ARAGLIN (COLLIGAN)**

17/A/01

Tributary of : 17C01 COLLIGAN

OS Catchment No: 188

OS Grid Ref of Confluence: S 232 024

Date(s) Surveyed: 27/10/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0300	4	4-5	4-5	4-5	4	4-5	4	4-5
0400	4	4	4-5	4-5	4	4-5	-	-

Assessment: Continuing satisfactory with High ecological quality recorded in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Coum Br	224892	103680	82	WD
0400	Ballynakill Br	223154	102480	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	154	9	100	0	4	8	25	0	12	0	51
0400	90	35	100	0	33	6	23	0	6	0	32

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRICKEY**
 Tributary of : Sea - Dungarvan Harbour
 OS Grid Ref of Confluence: X 243 902
 Date(s) Surveyed: 27/10/2010

17/B/01
 OS Catchment No: 189

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0030	3	3	-	-	-	-	-	-
0050	-	-	3	3	3	4	3	3-4
0070	3-4	3*	-	-	-	-	-	-
0090	3-4	3-4	3-4	3-4	3-4	3-4	-	-

Assessment: Moderate ecological quality which represents a slight improvement from Poor in 2007 but that was deterioration from Good in 2004.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Canty Br	0	0	0	WD
0050	Knockmaon Br	218746	93400	82	WD
0070	Drehidatogher Br	0	0	0	WD
0090	Br u/s Twomile Br	222101	91318	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	6	11	23	77	79	2	0	2	17	0	0
0090	2	34	40	60	74	6	0	2	15	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **COLLIGAN**
 Tributary of : Sea - Dungarvan Harbour
 OS Grid Ref of Confluence: X 262 933
 Date(s) Surveyed: 27/10/2010

17/C/01
 OS Catchment No: 188

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1984	1987	1991	1996	1998	2001	2004	2007	2010
0090	-	-	4-5	4	4-5	4-5	4	4-5	4-5	4-5
0100	5	4	4-5	4	4-5	4-5	4	4-5	4	4-5
0150	-	-	-	-	4-5	4-5	4-5	4-5	4-5	4-5
0180	-	-	4	4	4-5	4-5	4-5	4-5	-	-
0250	-	-	-	4	4	4	4	4	4	4

Assessment: Continuing satisfactory with High and Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	Scart Br (West)	222967	104892	82	WD
0100	Scart Br (East)	222960	104927	82	WD
0150	Br ESE of Lackandarra	223066	102061	82	WD
0180	Colligan Br	222017	98002	82	WD
0250	Killadangan Br	223210	95188	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	120	15	100	0	25	0	43	0	0	0	32
0100	121	15	100	0	25	0	43	0	0	0	32
0150	85	54	100	0	37	6	21	0	7	0	29
0180	44	77	100	0	47	7	15	0	8	0	23
0250	11	84	98	2	48	9	14	0	8	0	21

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DALLIGAN**

17/D/01

Tributary of : Sea - E. of Dungarvan Harbour

OS Catchment No: 187

OS Grid Ref of Confluence: X 335 950

Date(s) Surveyed: 28/10/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0050	4	4	4	4	4	4	-	4-5
0100	4	4	3-4	4	4	4	-	-
0300	4	4	3-4	4	4	4-5	4-5	4-5

Assessment: Continuing satisfactory with High quality at both locations. Accumulation of household rubbish, being dumped from bridge, is quite bad at Ballyvole New Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br E of Glendalligan	229488	100223	82	WD
0100	Br S of Shanbally	230999	97508	82	WD
0300	Ballyvoyle New Br	233814	95971	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	147	7	100	0	12	20	58	0	0	0	10
0100	68	13	100	0	29	21	32	0	4	0	15
0300	24	18	100	0	47	15	22	0	5	0	11

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNHILL**

17/D/02

Tributary of : Sea - E. of Dunbrattin Head

OS Catchment No: k2

OS Grid Ref of Confluence: X 496 988

Date(s) Surveyed: 27/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1991	1996	1998	2001	2004	2007	2010
0100	3-4	2-3	3	2	3-4	3-4	3-4	3-4
0200	3-4	3	3	3-4	3-4	3-4	-	-

Assessment: Continuing unsatisfactory, with Moderate ecological quality, at Ballyphilip Bridge (0100). Also known as Annewstown Stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballyphilip Br	250744	102651	82	WD
0200	Br W of Dunhill Lodge	250541	100753	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	10	12	100	0	61	0	0	0	32	0	7
0200	4	15	100	0	63	0	0	0	29	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEPERSTOWN STREAM**

17/L/01

Tributary of : Sea - Tramore Bay

OS Catchment No: k2

OS Grid Ref of Confluence: S 641 012

Date(s) Surveyed: 27/9/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1996	1998	2001	2004	2007	2010
0300	3	3	3	3	3	3	3

Assessment: Continuing unsatisfactory with Poor ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Aughanodrish Br	265710	102128	76	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	21	7	100	0	76	4	0	0	10	4	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 17 (2010)

River and Code : **MAHON**
 Tributary of : Sea - Bunmahon Bay
 OS Grid Ref of Confluence: X 434 988
 Date(s) Surveyed: 28/9/2010

17/M/01
 OS Catchment No: 185

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0100	3-4	4	4	4	4	4-5	4-5	4-5
0140	3-4	3	4	4	4	4	-	-
0180	4	4	-	-	-	-	-	-
0200	3	3	4	3-4	3-4	3-4	3-4	3-4
0300	4	4	4	4	4	4	-	-
0350	4	4	4	4	4	4	4	4

Assessment: Satisfactory, with High and Good ecological quality, except downstream of Kilmacthomas (0200) where again slightly polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Mahon Br	234225	106019	75	WD
0140	Br S of Ballyboy	236739	105686	82	WD
0180	Br in Kilmacthomas	0	0	0	WD
0200	Br just S of Kilmacthomas	239661	105641	82	WD
0300	Aughshemus Br	241686	102677	82	WD
0350	E of Seafield	242275	101069	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	87	11	100	0	6	0	23	0	0	0	72
0140	54	35	100	0	47	5	11	0	3	0	34
0200	29	61	100	0	55	4	7	1	12	0	22
0300	10	73	100	0	59	3	6	1	13	0	18
0350	6	91	100	0	63	3	5	1	15	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MORRAGEN**
 Tributary of : 17M01 MAHON
 OS Grid Ref of Confluence: S 392 065
 Date(s) Surveyed: 28/9/2010

17/M/02
 OS Catchment No: 185

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0100	3	4	3-4	3-4	4	3-4	-	-
0200	4	4	4	4	4	3-4	4	4

Assessment: Satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Rahoughtragh Br	240198	109506	75	WD
0200	Kilnagrange Br	239349	106523	75	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	81	4	100	0	75	0	1	0	17	0	7
0200	34	13	100	0	70	3	0	0	23	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TAY**

17/T/01

Tributary of : Sea - Dungarvan Bay

OS Catchment No: 186

OS Grid Ref of Confluence: X 368 970

Date(s) Surveyed: 29/9/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1984	1987	1991	1996	1998	2001	2004	2007	2010
0050	-	-	4-5	4-5	4-5	4	3-4	4-5	4-5	4-5
0100	-	4-5	4-5	4-5	4	4	3-4	4-5	-	-
0200	-	-	4-5	4	4	-	-	-	-	-
0250	-	-	-	-	4-5	4	4	4-5	4	4-5
0300	4-5	4-5	4-5	4	-	-	-	-	-	-
0400	-	-	4-5	4	4	4	4	4	4	4

Assessment: Continuing satisfactory with High and Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Aughnacurra Br	231942	104035	82	WD
0100	Br N of Lemybrien	233504	102342	82	WD
0200	Fox's Castle Br	234073	100370	82	WD
0250	Durrow Br	234019	98720	82	WD
0300	Br S of Kilminnin	0	0	0	WD
0400	Stradbally Br	236823	97209	82	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	93	19	100	0	19	9	39	0	7	0	27
0100	63	23	100	0	28	8	33	0	6	0	25
0200	48	34	100	0	46	5	22	0	7	0	20
0250	33	53	100	0	56	7	16	0	4	0	16
0400	3	67	100	0	60	7	13	0	5	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

SERBD: HYDROMETRIC AREA NO. 17

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 – 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Araglin (Colligan)	2010	17A01	5.0	0.0	0.0	0.0	0.0	5.0	
Brickey	2010	17B01	0.0	0.0	7.0	0.0	0.0	7.0	
Colligan	2010	17C01	19.5	2.0	0.0	0.0	0.0	21.5	
Dalligan	2010	17D01	10.0	0.0	0.0	0.0	0.0	10.0	
Dunhill	2010	17D02	0.0	0.0	5.5	0.0	0.0	5.5	
Leperstown Stream	2010	17L01	0.0	0.0	0.0	2.0	0.0	2.0	
Mahon	2010	17M01	6.5	9.0	2.0	0.0	0.0	17.5	
Morrageen	2010	17M02	0.0	3.5	0.0	0.0	0.0	3.5	
Tay	2010	17T01	16.0	0.5	0.0	0.0	0.0	16.5	
Total Length (km) surveyed this cycle			57.0	15.0	14.5	2.0	0.0	88.5	
Adjustments			0.0	0.0	0.0	0.0	0.0	0.0	
Current Length (km) Adjusted			57.0	15.0	14.5	2.0	0.0	88.5	
Percentages			64.4	16.9	16.4	2.3	0.0	100.0	
Channel Length (km) in Class			2010-'12		A	B	C	D	Total
Baseline : Current Adjusted Status (km)					72.0	14.5	2.0	0.0	88.5
Percentages					81.4	16.4	2.3	0.0	100.0
Baseline: Previous Unadjust. Status (km)**			2007-'09		35.3	36.8	11.0	5.5	88.5
Percentages					39.8	41.5	12.4	6.2	100.0
Changes since Previous Survey (km)					21.8	-21.8	3.5	-3.5	0.0

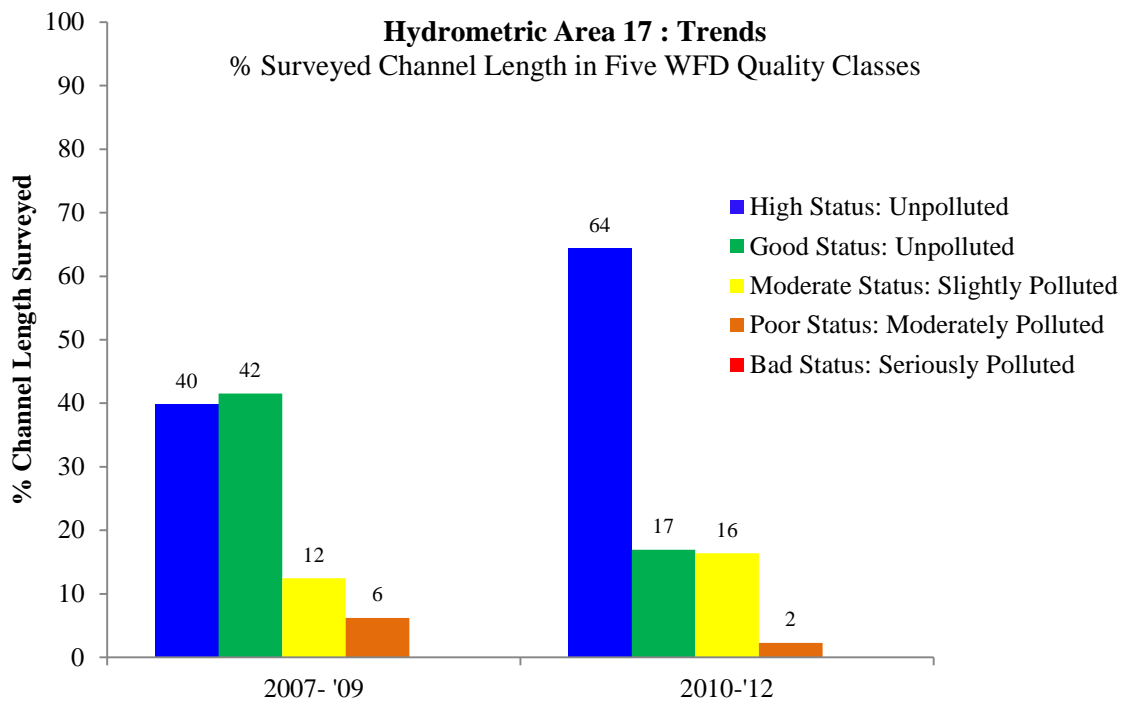
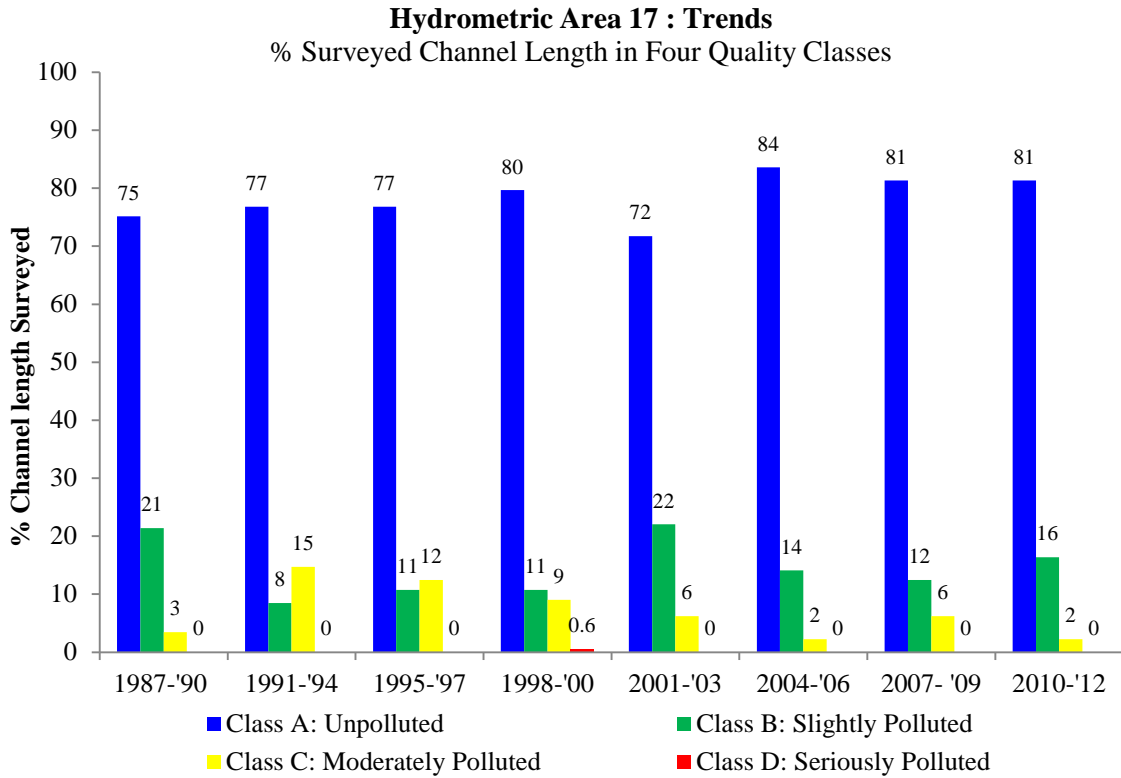
*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

** Table II.4 Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of Sites at WFD status	2007-'09	2010-'12
High	5	9
Good	7	4
Moderate	2	3
Poor	2	1
Bad	0	0
<hr/>		
Total Number of sites surveyed	16	17
Total Number of sites at unsatisfactory status	4	4



HYDROMETRIC AREA 22 (Laune, Maine – Dingle Bay: Partial Survey)

Partial Survey in 2010 & 2011, Balance of Survey in 2012

BEHEENAGH	22B01
COTTONER'S (LAUNE)	22C05
CROAGHANE	22C09
FAHADUFF	22F09
FINGLAS (LAUNE)	22F03
FINOW	22F04
FLESK (KERRY)	22F02
GADDAGH	22G01
LAUNE	22L01
LOE	22L03
LOO	22L04
OWENREAGH	22O03
OWNEYKEAGH	22O05
QUAGMIRE	22Q01
SHANOWEN (KERRY)	22S01

River and Code : **BEHEENAGH**
 Tributary of : 22O05 OWNEYKEAGH
 OS Grid Ref of Confluence: W 090 907
 Date(s) Surveyed: 10/9/2010

22/B/01

OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0400	4-5	4-5	4-5	4	3-4	4	-	4
0500	4	-	-	-	-	-	-	-
0600	4	4	4	4	4	4-5	4	4

Assessment: Satisfactory with Good ecological quality at both locations sampled in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br N of Gortderrig	112873	88373	79	KY
0500	W of Beheenagh	0	0	0	KY
0600	Br u/s Owneykeagh R confl	109770	90919	79	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	154	9	89	11	22	0	71	0	6	0	2
0600	112	25	49	51	40	0	55	0	4	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **COTTONER'S (LAUNE)**

22/C/05

Tributary of : 22L01 LAUNE

OS Catchment No: 207

OS Grid Ref of Confluence: V 667 957

Date(s) Surveyed: 2/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0100	-	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0200	4	-	-	-	-	-	-	-
0400	4-5	4-5	4-5	4-5	4-5	4-5	-	4
0500	4	-	-	-	-	-	-	-
0600	4	4	3-4	3-4	3-4	4	3-4	3-4

Assessment: High, Good and Moderate quality representing an unchanged situation since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Breanlee	76789	86771	78	KY
0200	Br NW of Glancuttaun Upper	0	0	0	KY
0400	Br N of Glancuttaun Lower	77827	91566	78	KY
0500	Ownagarry Br	0	0	0	KY
0600	Br u/s Laune R confl	78526	95437	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	138	5	100	0	0	0	85	0	0	6	9
0400	50	21	100	0	7	0	72	0	11	2	7
0600	4	34	84	16	15	0	68	0	10	1	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CROAGHANE** 22/C/09
 Tributary of : 22S01 SHANOWEN (KERRY) OS Catchment No: 197
 OS Grid Ref of Confluence: R 062 092
 Date(s) Surveyed: 8/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2002	2005	2007	2010
0100	4-5	4	4	4	4	4	4-5	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Sheheree Br	106386	109862	72	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	94	5	0	100	62	0	21	0	0	0	17

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FAHADUFF**
 Tributary of : 22M01 MAINE
 OS Grid Ref of Confluence: Q 985 093
 Date(s) Surveyed: 8/9/2010

22/F/09
 OS Catchment No: 197

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1996	1998	2002	2005	2007	2010
0200	3-4	4	4	4	4	-	-
0400	3-4	3-4	4	3-4	4	3-4	4

Assessment: Reversion to Good quality since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Mullaghmarky Br	98988	112248	71	KY
0400	Br u/s Maine R confl	98804	110315	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	58	9	0	100	42	12	15	0	30	0	0
0400	27	11	0	100	53	9	12	0	25	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINGLAS (LAUNE)**

22/F/03

Tributary of : 22L01 LAUNE

OS Catchment No: 207

OS Grid Ref of Confluence: V 805 942

Date(s) Surveyed: 3/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2005	2007	2010
0400	5	5	4-5	4	4	4-5	4-5	4
0700	4	4	4-5	4	4	4-5	-	-

Assessment: Continuing satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Cappagh Br	81077	91442	78	KY
0700	Meanus Br	80388	93993	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	32	6	94	6	32	0	63	0	0	0	5
0700	4	21	37	63	67	0	28	0	0	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINOW** **22/F/04**
 Tributary of : 22F02 FLESK (KERRY) OS Catchment No: 207
 OS Grid Ref of Confluence: W 010 875
 Date(s) Surveyed: 12/5/2010, 14/5/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0100	-	5	5	5	4-5	5	4-5	5
0200	4	-	-	-	-	-	-	-
0300	4-5	4-5	4-5	4-5	4-5	4-5	3-4	3-4

Assessment: Again High ecological quality upstream of Lough Guitane (0100) but continuing only Moderate at the other sampling site (0300) which is upstream Flesk River confluence.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 0.3km u/s L Guitane	103336	83943	79	KY
0200	Finow Br	0	0	0	KY
0300	Br (Ford) u/s Flesk R confl	100855	87339	79	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	82	10	69	31	0	0	97	0	2	0	1
0300	54	39	62	38	11	1	60	0	8	8	12

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FLESK (KERRY)**

22/F/02

Tributary of : Lough Leane

OS Catchment No: 207

OS Grid Ref of Confluence: V 961 882

Date(s) Surveyed: 9/9/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1981	1986	1990	1994	1996	1998	2001	2005	2007	2010
0010	-	-	-	-	-	4-5	5	3-4	4	4	4	4
0040	-	-	-	-	5	4-5	4-5	4-5	4	4-5	4-5	4-5
0060	-	-	-	-	5	5	5	5	5	5	5	5
0070	-	-	-	-	5	-	-	-	-	-	-	-
0100	-	5	5	5	5	5	5	5	5	5	5	5
0200	5	5	5	5	4	4	4	4	4	4	-	-
0250	-	-	5	5	4	4	4-5	4-5	4	4-5	4-5	4-5
0275	-	-	-	-	4-5	-	-	-	-	-	-	-
0300	5	5	5	5	4-5	4-5	4-5	4	4	4	4	4-5
0310	5	5	5	5	4-5	3	4-5	3-4	3	4	3	-

Assessment: Satisfactory with mostly High ecological quality. The right-hand-side of river at the final location has a history of Moderate or Poor status due to intermittent sewage storm-overflow discharges but was clear in the latest survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	N of Clydaghroe	118905	83730	79	KY
0040	Br u/s Clydagh Br	113760	83596	79	KY
0060	Poulgorm Br	109582	81735	79	KY
0070	Garries Br	0	0	0	KY
0100	Curreal Br	106641	85385	79	KY
0200	Flesk Br, Gortahoosh	103617	87678	79	KY
0250	Ford NE of Faghcullia	100247	87972	79	KY
0275	Br d/s Woodford R confl	0	0	0	KY
0300	Flesk Br, S of Killarney LHS	96719	89433	78	KY
0310	Flesk Br, S of Killarney RHS	96734	89429	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	317	20	100	0	0	28	47	0	0	0	25
0040	217	43	100	0	2	31	49	0	0	0	18
0060	83	71	93	7	6	24	55	0	3	0	12
0100	60	127	94	6	6	16	65	0	2	0	11
0200	59	254	56	44	26	9	53	0	4	0	8
0250	45	304	54	46	26	7	53	0	5	1	8
0300	22	329	50	50	29	7	49	1	5	1	8
0310	22	329	50	50	29	7	49	1	5	1	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GADDAGH**
 Tributary of : 22L01 LAUNE
 OS Grid Ref of Confluence: V 841 937
 Date(s) Surveyed: 3/9/2010

22/G/01
 OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0300	4	4-5	4-5	5	4-5	4-5	4-5	4-5
0400	4	4	4-5	4-5	4	4	-	-
0500	4	4-5	4	3-4	3-4	3-4	4	3-4

Assessment: High ecological quality again at first location but reversion to Moderate quality at Gortnaskarry Bridge (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Ford SW of Gortboy	82856	88415	78	KY
0400	Gaddagh Br	83836	91571	78	KY
0500	Gortnaskarry Br	83731	93518	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	96	21	100	0	10	0	76	0	2	0	13
0400	25	37	96	4	23	0	62	0	6	0	9
0500	11	42	86	14	32	1	54	1	5	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LAUNE**

22/L/01

Tributary of : Sea - Castlemaine Harbour

OS Catchment No: 207

OS Grid Ref of Confluence: V 770 994

Date(s) Surveyed: 2/9/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1981	1986	1990	1994	1996	1998	2001	2005	2007	2010
0100	-	4-5	4-5	-	4	-	-	-	3-4	-	-	-
0200	5	4-5	4-5	4-5	4	4	4	4	4	4	4	4
0300	-	-	4-5	-	4	4	4	4	4	4	4	4-5
0400	5	5	5	4	3-4	3-4	3-4	3-4	3-4	4	3-4	4
0500	5	5	4-5	4	4	-	-	-	-	-	-	-

Assessment: Satisfactory at all locations following improvement downstream of Gweestin River confluence (0400) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Laune Br, d/s L Leane	0	0	0	KY
0200	Beaufort Br	88164	92634	78	KY
0300	Ballymalis Castle	83881	93824	78	KY
0400	1.5km d/s Gweestin R confl	82466	95518	78	KY
0500	Killorglin Br	0	0	0	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	13	592	57	43	24	9	48	2	4	5	9
0300	8	644	59	41	26	8	48	2	4	4	9
0400	4	749	50	50	34	7	42	1	5	4	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOE**
 Tributary of : 22L01 LAUNE
 OS Grid Ref of Confluence: V 883 915
 Date(s) Surveyed: 3/9/2010

22/L/03

OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0100	-	3-4	4-5	4-5	5	4-5	-	4-5
0400	4	4	4	4	4	4-5	4	4-5

Assessment: Satisfactory with High ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br just d/s Black Lake	87690	87792	78	KY
0400	Br u/s Laune R confl	88005	90821	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	100	10	100	0	0	0	83	0	0	0	17
0400	24	16	97	3	11	0	77	0	1	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOO**
 Tributary of : 22F02 FLESK (KERRY)
 OS Grid Ref of Confluence: W 087 814
 Date(s) Surveyed: 10/9/2010

22/L/04
 OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0100	-	4	4	4	4	4	4	4
0300	4	-	-	-	-	-	-	-
0400	4	4	4	3-4	4	4	4	-

Assessment: Satisfactory with Good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Agnanus Br	104511	78891	79	KY
0300	Second Br u/s Flesk R confl	0	0	0	KY
0400	Loo Br	108561	81399	79	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	79	5	99	1	0	20	62	0	0	0	18
0400	64	32	98	2	3	11	74	0	0	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENREAGH**
 Tributary of : Upper Lake Killarney
 OS Grid Ref of Confluence: V 892 819
 Date(s) Surveyed: 12/5/2010

22/O/03
 OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	4-5	4-5	4-5	4-5	4-5	-
0200	4-5	4-5	4-5	4-5	4-5	4-5	-	-
0400	5	5	5	5	5	5	5	5

Assessment: High ecological quality at the only location, which is upstream of Upper Lake, sampled in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Graignagreana	84009	78588	78	KY
0200	Just u/s trib from Looscaunagh Lough	87629	79496	78	KY
0400	Br u/s Upper Lake	88404	82103	78	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	120	9	100	0	0	0	61	0	9	0	30
0200	91	22	100	0	0	1	65	0	7	0	27
0400	20	62	100	0	1	5	69	0	4	1	20

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWNEYKEAGH**
 Tributary of : 22F02 FLESK (KERRY)
 OS Grid Ref of Confluence: W 054 868
 Date(s) Surveyed: 10/9/2010

22/O/05
 OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2001	2004	2007	2010
0200	4-5	4-5	4-5	4-5	4	4	-	-
0400	4-5	4	4-5	4-5	4	4-5	4-5	4-5

Assessment: High ecological quality again recorded at the only location, which is upstream of Flesk River confluence, sampled in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br WNW of Drom	108069	88593	79	KY
0400	Br u/s Flesk R confl	106791	86952	79	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	77	98	16	84	46	2	42	0	8	0	2
0400	60	105	17	83	46	1	41	0	8	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **QUAGMIRE**
 Tributary of : 22O05 OWNEYKEAGH
 OS Grid Ref of Confluence: W 090 907
 Date(s) Surveyed: 10/9/2010

22/Q/01

OS Catchment No: 207

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1996	1998	2002	2004	2007	2010
0200	-	4	4-5	4-5	4-5	4	4	4
0400	4	4	4	4-5	4	4	4-5	4
0500	4	4-5	4-5	-	-	-	-	-

Assessment: Satisfactory with Good ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br d/s Tooreennamult Br	110341	98438	79	KY
0400	Annagh Br	109629	95047	79	KY
0500	0.5km u/s Oweykeagh R confl	108857	90721	79	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	176	6	0	100	49	1	45	0	0	0	5
0400	126	35	0	100	51	3	35	0	9	0	1
0500	95	61	0	100	49	2	36	0	10	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 22 (2010)

River and Code : **SHANOWEN (KERRY)**

22/S/01

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: R 007 023

Date(s) Surveyed: 8/9/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1981	1985	1990	1994	1996	1998	2002	2005	2007	2010
0020	-	-	-	-	3	3	3	3-4	3-4	4	4	4
0040	-	-	-	-	3-4	-	-	-	-	-	-	-
0100	5	4-5	4-5	4	3-4	3-4	4	4	2-3	4	4	3

Assessment: Good quality maintained at upper location but deterioration to Poor ecological quality upstream of Maine River confluence.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br u/s Cordal Stream	105467	108958	72	KY
0040	Fairfield Br	0	0	0	KY
0100	Br u/s Maine R confl	101349	109064	72	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	54	10	0	100	61	2	26	0	0	0	11
0100	34	41	0	100	67	5	20	0	3	0	4

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 27 (Shannon Estuary North: Partial Survey)

Partial Survey Only, Balance of Survey in 2011

CASTLELODGE	27C01
CLOONDANAGH LOUGH STREAM	27C13
CLOONEEN (CLARE)	27C03
CRAGGAUNBOY	27C04
FERGUS	27F01
HELL	27H01
KILMORE NORTH STREAM	27K04
LISKENNY	27L01
MILL BROOK	27M03
MOYREE	27M02
RINE	27R01
SPANCELHILL	27S03

River and Code : **CASTLELODGE**

27/C/01

Tributary of : Muckanagh Lough

OS Catchment No: 158

OS Grid Ref of Confluence: R 378 932

Date(s) Surveyed: 23/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2004	2007	2010
0700	4	4	3	3	3	3	-	3
0900	4	4	3	2-3	3	2-3	3	3

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Castlelodge in 2010. Excessive silt and continuing cattle access are likely contributors.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Bridge u/s Lough Aslaun	141931	196216	52	GY
0900	Bridge u/s Muckanagh Lough	139605	194171	52	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	22	13	0	100	67	6	0	0	9	0	18
0900	19	20	0	100	63	4	0	0	11	2	20

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONDANAGH LOUGH STREAM** 27/C/13
 Tributary of : 27R01 RINE OS Catchment No: 158
 OS Grid Ref of Confluence: R 475 818
 Date(s) Surveyed: 26/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2004	2007	2010
0100	-	3	-	-	-	-	-	-
0300	3-4	3-4	3	3-4	3	3-4	3-4	3

Assessment: Unsatisfactory ecological conditions have once again been recorded on the Cloondanagh, with a further decline noted in 2010. Cattle access continues to be an issue here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br d/s Cloondanagh Lough	149529	183019	0	CE
0300	Drumullan Br	147669	181948	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	51	9	51	49	33	20	5	0	17	3	22

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONEEN (CLARE)**

27/C/03

Tributary of : (Goes underground)

OS Catchment No: 158

OS Grid Ref of Confluence: R 233 918

Date(s) Surveyed: 24/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2005	2007	2010
0200	3-4	3	3	3	3	3-4	3	3-4
0300	4	4	4	4	4	3-4	4	4

Assessment: Unsatisfactory ecological conditions were once again recorded at Clogher Bridge (0200), albeit with a slight improvement noted. The lower Clooneen (0300) has maintained good ecological condition in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Clogher Br	120816	192447	51	CE
0300	Br N Knockroe	122479	192028	51	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	44	62	0	100	32	2	2	0	7	0	58
0300	41	76	0	100	32	1	5	0	12	0	50

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CRAGGAUNBOY**

27/C/04

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 265 883

Date(s) Surveyed: 24/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2005	2007	2010
0200	3-4	4	-	4	4	3-4	-	3-4
0300	-	-	4	-	-	-	-	-
0400	4	4-5	-	-	-	-	-	-
0600	4	4	3-4	4	3	3-4	3	4

Assessment: A welcome improvement to satisfactory ecological condition was recorded on the Craggaunboy, upstream of the Fergus River in 2010. New fencing, preventing cattle access to the river, appears to be working. The upper reach (0200) remains in unsatisfactory ecological condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br d/s Trib ex L Nagowan	121720	186692	57	CE
0300	Br SE of L. Nagowan	122431	186670	57	CE
0400	Bridge N.W. of Cloncarragh	124055	187565	0	CE
0600	Annalabba Br	126120	188092	57	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	75	4	0	100	47	0	5	0	19	0	28
0300	73	8	0	100	47	0	10	0	17	0	26
0600	19	18	0	100	55	3	7	0	12	0	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FERGUS**
 Tributary of : Sea - Shannon Estuary
 OS Grid Ref of Confluence: R 363 700
 Date(s) Surveyed: 24/8/2010, 25/8/2010

27/F/01

OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1979	1982	1985	1988	1991	1996	1998	2001	2005	2007	2010
0100	-	-	4	4-5	4-5	4	4	3-4	4	3-4	3-4	4	4
0200	5	5	4	4	4	4	4	4	4	4	4	-	4
0300	-	-	3-4	4	4	4	4	3-4	4-5	4	4	4	3-4
0350	-	-	-	4	4	4	4	-	4	3	3	-	-
0400	-	-	-	4	4	4	4	4	4	4	4	-	4
0500	5	5	4	4	4	4	4	4	4	4	4	4	3-4
0560	-	-	-	-	-	4	3	-	-	-	-	-	-
0590	-	-	-	-	-	-	3	3	2-3	3	3	3	3
0600	4	4-5	4	4	4	4	4	4	4	4	4	4	4
0640	-	-	-	-	-	-	4	-	-	-	-	-	-
0700	4-5	4-5	4	-	4	4	4	3-4	3-4	3-4	3-4	3*	3

Assessment: A slight decline in overall ecological condition was noted on the Fergus in 2010. Declines from good to unsatisfactory quality were noted at the bridge in Corrofin (0300) and Nutfield Bridge (0500). Moderate pollution continued at two further sites (0590 and 0700), with urban pressures a contributory factor. The remaining four sites, two of which are located in the upper reach, have maintained satisfactory ecological condition since the last survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Poplar Bridge	127075	191255	51	CE
0200	Riverstown Bridge	126728	188773	57	CE
0300	Bridge in Corofin	128653	188589	57	CE
0350	Ballyogan Br	133617	189112	58	CE
0400	Addroon Bridge	135942	187842	58	CE
0500	Nutfield Bridge	134326	183301	58	CE
0560	Bridge S.E. of Brookville	0	0	0	CE
0590	Corravarrin Br	134646	178510	58	CE
0600	Drehidnagower Bridge	133017	178654	58	CE
0640	2nd Br d/s Drehidnagower	0	0	0	CE
0700	Bridge near Clonroad House	134487	177869	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	22	133	0	100	29	1	3	0	11	0	56
0200	22	145	0	100	30	1	3	0	11	1	54
0300	18	165	0	100	34	1	3	0	11	1	50
0350	19	314	0	100	36	1	3	0	9	3	49
0400	17	320	0	100	36	1	3	0	9	3	49
0500	10	464	8	92	39	4	5	0	10	2	40
0590	3	520	7	93	42	4	5	1	10	2	36
0700	6	59	0	100	48	7	8	7	15	0	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **HELL**
 Tributary of : 27R01 RINE
 OS Grid Ref of Confluence: R 445 765
 Date(s) Surveyed: 13/9/2010

27/H/01
 OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)								
	1986	1988	1991	1996	1998	2001	2004	2007	2010
0100	-	5	4	-	-	-	-	-	-
0200	-	4	4	3-4	4	4	4	-	-
0300	-	5	4	-	-	-	-	-	-
0400	4-5	4	3-4	3	4	4	3	4	4

Assessment: Satisfactory ecological conditions have been maintained in the Hell River in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Rylane Bridge	0	0	0	CE
0200	Bridge WSW Carrahan	142938	180757	58	CE
0300	Sandhill Bridge	0	0	0	CE
0400	Hell Bridge	144212	176920	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	41	7	14	86	58	10	12	0	10	0	9
0400	28	22	5	95	73	5	4	0	6	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILMORE NORTH STREAM**

27/K/04

Tributary of : 27C03 CLOONEEN (CLARE)

OS Catchment No: 158

OS Grid Ref of Confluence: R 211 923

Date(s) Surveyed: 24/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2005	2007	2010
0200	4	4	-	-	-	-	-	-
0400	3	3	4	4	4	4	4	3

Assessment: A disappointing decline to unsatisfactory ecological condition was recorded in the Kilmore North Stream in 2010, with a loss of sensitive macroinvertebrate taxa noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Second Bridge d/s L Fergus	0	0	0	CE
0400	Bridge u/s Clooneen River	121796	191026	51	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	52	10	0	100	6	0	25	0	47	0	23

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISKENNY**
 Tributary of : Lough Cullynaheeda
 OS Grid Ref of Confluence: R 481 753
 Date(s) Surveyed: 13/9/2010

27/L/01

OS Catchment No: 155

Station Nos.							Biological Quality Ratings (Q Values)				
	1980	1985	1988	1991	1996	1997	1998	2001	2004	2007	2010
0070	-	-	3	2-3	-	-	3	3	3-4	3	3
0100	3-4	3	3	3	2-3	-	3	3	-	-	-
0200	-	-	4	4	3	3	3	3	3	3	3

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Liskenny in 2010, with a dominance of pollution tolerant taxa recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Couly Br	149812	178042	58	CE
0100	Wyndham's Bridge	149183	177526	58	CE
0200	Bridge u/s L Cullynaheeda	149247	175349	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	40	4	0	100	88	0	0	0	12	0	0
0100	36	10	0	100	74	0	0	4	22	0	0
0200	29	5	0	100	70	0	9	0	13	0	9

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MILL BROOK**
 Tributary of : 27F01 FERGUS
 OS Grid Ref of Confluence: R 364 859
 Date(s) Surveyed: 14/9/2010

27/M/03
 OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2004	2007	2010
0700	4-5	-	-	4	4	4-5	-	4
0800	-	4	4	-	-	-	-	-
0900	-	-	-	-	4	4-5	-	-
1000	5	4-5	-	4	-	-	-	-
1100	4-5	4	4	4	4	4	4	-

Assessment: Satisfactory ecological conditions were recorded in the Mill Brook in 2010, a situation unchanged in over twenty years of surveying this Fergus River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Third Br d/s Br at Derryboy	142611	187484	58	CE
0800	Br nr Derrycalliff Lr (side road)	142296	187058	58	CE
0900	Black's Br	140592	185831	0	
1000	Bridge u/s Inchicronan Lough	140464	186394	58	CE
1100	Ballyline Bridge	138413	186083	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	54	5	89	11	13	11	20	0	21	0	35
0800	49	6	86	14	13	10	20	0	23	0	34
1000	30	14	70	30	18	9	22	0	22	0	30
1100	30	21	50	50	35	6	15	0	17	4	22

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOYREE**
 Tributary of : 27F01 FERGUS
 OS Grid Ref of Confluence: R 358 878
 Date(s) Surveyed: 23/8/2010

27/M/02
 OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2004	2007	2010
0300	4-5	5	4-5	4-5	4	4	4	4
0400	4	4	-	-	-	-	-	-
0500	4	4	-	-	4-5	5	-	4
0600	4	4-5	4	4	4	4	-	-
0700	4	4	4-5	4-5	4	4	4	4

Assessment: Satisfactory ecological conditions were recorded along the length of the Moyree in 2010, a situation unchanged in over twenty years of surveying this Fergus River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Bunnahow Lough	144841	193528	52	GY
0400	Bridge d/s Bunnahow Lough	0	0	0	CE
0500	Cregg Br	143210	192968	0	CE
0600	Inghid Br	140192	191558	52	CE
0700	Bridge u/s Fergus River	136128	188061	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	37	18	76	24	21	13	22	0	8	0	36
0600	23	44	57	43	34	7	20	0	17	1	21
0700	17	64	39	61	38	5	14	0	14	1	28

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RINE**
 Tributary of : Sea - Fergus Estuary
 OS Grid Ref of Confluence: R 367 712
 Date(s) Surveyed: 26/8/2010

27/R/01
 OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)									
	1986	1988	1991	1996	1997	1998	2001	2004	2007	2010
0100	-	4-5	4	-	-	-	-	-	-	-
0200	-	4-5	5	4	-	4-5	4-5	4-5	4-5	4-5
0300	-	5	5	-	-	-	-	-	-	-
0500	4	5	4-5	4-5	-	4-5	4	4	-	4
0600	-	5	-	-	-	-	-	-	-	-
0700	5	3-4	3	4	-	4	4	3-4	-	3-4
0900	-	4-5	-	-	-	-	-	-	-	-
1100	4-5	4-5	4	4	3	4-5	4	4	4	4
1200	4-5	4-5	4	-	-	-	-	-	-	-
1300	4-5	4	4	3-4	-	4	4	3-4	-	4
1400	5	4-5	4-5	-	-	-	-	-	-	-
1500	4-5	5	4	-	4	4	4	3-4	4	4

Assessment: Macroinvertebrate fauna continue to indicate satisfactory ecological conditions at all but one of the sites surveyed on the Rine in 2010. Moderate pollution was noted at 0700, with a dominance of pollution tolerant taxa recorded. The upper Rine is heavily afforested and care is needed to protect the river's existing high status at this point.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Lough Blarnagh	0	0	0	CE
0200	Bridge W.S.W. of Commons	147377	186863	58	CE
0300	Bridge N. of Derryulk	0	0	0	CE
0500	Eyrehill Bridge	147160	181703	58	CE
0600	Newgrove Bridge	0	0	0	CE
0700	Bridge near Moymore	145890	178391	58	CE
0900	Ballynafersha Bridge	0	0	0	CE
1100	Creevagh Bridge (New)	144087	174850	58	CE
1200	Bridge in Quin	0	0	0	CE
1300	Ford u/s Ardsollus Bridge	140422	173162	58	CE
1400	Ardsollus Bridge	140129	172201	58	CE
1500	Blackweir Bridge	138929	171568	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	178	7	100	0	0	46	11	0	0	0	43
0500	50	30	77	23	12	26	9	0	18	1	34
0700	33	41	56	44	27	19	9	0	17	1	27
1100	23	90	29	71	51	13	6	0	11	0	19
1300	12	112	23	77	56	11	5	0	10	0	18
1400	9	113	23	77	57	10	5	0	10	0	18
1500	4	118	22	78	56	11	5	1	9	0	17

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SPANCELHILL**

27/S/03

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 350 771

Date(s) Surveyed: 14/9/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1997	1998	2001	2005	2007	2010
0200	4	4	4	5	4-5	4	-	4
0400	3-4	3-4	4	4	4	4	4	3

Assessment: Although satisfactory ecological conditions have been maintained in the upper Spancelhill (0200) in 2010, there was a noticeable decline in quality downstream at station 0400. Evidence of sewage overflow was evident in the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge near Spancelhill	138710	181063	58	CE
0400	Br d/s Aughavaddy Bridge	136038	178303	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	30	3	0	100	57	0	0	0	38	0	4
0400	4	26	7	93	53	3	6	2	23	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 34 (Moy & Killala Bay: Partial Survey)

Partial Survey Only, Balance of Survey in 2011

ADDERGOOLE	34A01
BAR DEELA	34B02
BEHY (NORTH MAYO)	34B08
BELLANAMEAN	34B04
BELLAWADDY	34B05
BLACK (SLIGO) *	34B12
BREAGHWY	34B06
BRUSNA (NORTH MAYO)	34B07
CALLOW LOUGHS STREAM	34C08
CARROWKERIBLY LOUGH STREAM	34C07
CHARLESTOWN STREAM *	34C28
CLOONAGHMORE	34C03
CLOONLAVIS	34C10
CRUMLIN (LOUGH CULLIN)	34C11
DEEL (CROSSMOLINA)	34D01
DUVOWEN	34D03
EIGNAGH	34E01
FIDDAUNATOOGHAUN STREAM *	34F06
GLENREE	34G01
GLORE (MAYO)	34G02
GWEESTION	34G03
LEAFFONY	34L01
LENYVEE	34L06
LITTLE (STRADE)	34L02
LOUGHANABOLL	34L07
MAD	34M04
MOY	34M02
MULLAGHANOE	34M03
OUGHTAGH	34O05
OWENAHER	34O01
OWENGARVE (SLIGO)	34O03
OWENLOBNAGLAUR	34O04
POLLAGH	34P01
SHANVOLAHAN	34S01
SLIEVECLAUR	34S06
SONNAGH (MOY)	34S02
SPADDAGH	34S03
SWINFORD	34S05
TRIMOGE	34T01
TUBBERCURRY	34T02
# TUBBERCURRY STREAM	34T03
YELLOW (FOXFORD)	34Y01
YELLOW (KNOCK)	34Y02

indicates rivers having seriously polluted stretches at time of this survey.

* BLACK (SLIGO) MULLAGHANOE 34M030180 .

* CHARLESTOWN STREAM Previously reported as part of the Mullaghanoe

* FIDDAUNATOOGHAUN STREAM Previously reported as part of the Shanvolahan 34S01

River and Code : **ADDERGOOLE**

34/A/01

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: G 151 105

Date(s) Surveyed: 19/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1999	2001	2005	2007	2010
0100	-	4	-	-	3-4	4	-	4
0300	4	-	2-3	4	-	-	-	-
0500	4-5	-	-	-	-	-	-	-
0600	-	4	4	4-5	4	4	4-5	4

Assessment: Generally satisfactory at both stations sampled but a decline in status was noted at the lower site downstream of Lahardane village and upstream of Lough Conn. An algal bloom emanating from Levally Lake caused turbidity at the upper site at the lake outflow and some turbidity was still evident at Station 0600. Levally is prone to algal blooms indicating eutrophic conditions in the lake. Both crayfish and otters (two protected species) were noted at the upper site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge just d/s Levally Lough	114270	305550	0	MO
0300	Br 0.6km d/s Levally Lough	114066	306042	23	MO
0500	Bridge NW of Tonacrock	114688	309157	0	MO
0600	Bridge u/s Lough Conn	114963	309861	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	28	21	38	62	11	0	52	0	28	6	2
0600	19	40	40	60	9	1	52	0	32	3	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BAR DEELA** **34/B/02**
 Tributary of : 34D01 DEEL (CROSSMOLINA) OS Catchment No: 110
 OS Grid Ref of Confluence: G 016 147
 Date(s) Surveyed: 12/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1999	2001	2005	2007	2010
0200	4	4	3	4	4	4	4	4

Assessment: Satisfactory with no significant change noted. The presence of cattle in the river is giving rise to some pollution at the sample point close to the confluence with the Deel River (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Deel R confl	101362	314675	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	58	17	44	56	0	2	45	0	4	0	50

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BEHY (NORTH MAYO)**

34/B/08

Tributary of : 34G01 GLENREE

OS Catchment No: 110

OS Grid Ref of Confluence: G 283 182

Date(s) Surveyed: 10/8/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1993	1995	1998	2002	2004	2005	2007	2010
0300	5	3*	5	5	4-5	4-5	-	-	4-5
0400	5	4	4-5	3-4/0	4-5	-	4-5	4-5	4

Assessment: Although satisfactory ecological conditions were recorded at both sites on the Behy in 2010, there was a slight decline from high quality at Behy Bridge (0400). This was due to a loss of some pollution sensitive stoneflies.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br S Bunnyconnellan W	132533	317178	24	MO
0400	Behy Bridge	128781	318132	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	54	7	68	32	33	0	66	0	1	0	0
0400	20	35	34	66	56	1	37	0	3	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLANAMEAN**

34/B/04

Tributary of : 34E01 EIGNAGH

OS Catchment No: 110

OS Grid Ref of Confluence: G 412 086

Date(s) Surveyed: 7/10/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0200	-	4	4-5	4	4-5	4-5	-	4-5
0300	5	5	-	-	-	-	-	-
0500	4-5	3-4	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions were recorded at both sites on the Bellanamean in 2010, a situation virtually unchanged in over twenty years of surveying this Eignagh tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br 1.5 km NE of L. Naskea	136660	309539	24	SO
0300	Bridge N. of Belclare	0	0	0	SO
0500	Bridge u/s Eignagh River	140639	309098	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	151	5	100	0	0	0	64	0	23	0	12
0500	46	13	77	23	14	2	40	0	24	0	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLAWADDY**
 Tributary of : Killala Bay (at Enniscrone)
 OS Grid Ref of Confluence: G 284 296
 Date(s) Surveyed: 27/7/2010

34/B/05
 OS Catchment No: 111

Station Nos.	Biological Quality Ratings (Q Values)									
	1982	1986	1989	1993	1995	1999	2001	2004	2007	2010
0100	5	3-4	3	4	3	4	4	4	-	-
0150	-	-	3-4	4-5	-	-	-	-	4	4
0200	4	4	4	4	4	4	4-5	4	-	4
0300	3	3-4	4	4	-	-	-	-	4	3

Assessment: Although satisfactory ecological conditions have been maintained at upper stations (0150 and 0200) on the Bellowaddy, a disappointing decline to unsatisfactory ecological condition was recorded at the Bridge in Enniscrone (0300) in 2010. A paucity of sensitive macroinvertebrate taxa was noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Tullylin (main road)	133470	327924	24	SO
0150	Bridge u/s Knocknagower Br	131730	328545	24	SO
0200	Knocknagower Bridge	129852	328499	24	SO
0300	Bridge in Enniscrone	128424	329640	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	61	5	0	100	62	0	35	0	0	0	3
0200	31	11	0	100	70	0	22	0	7	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK (SLIGO)**
 Tributary of : 34M03 MULLAGHANOE
 OS Grid Ref of Confluence: G 484 020
 Date(s) Surveyed: 22/7/2010

34/B/12
 OS Catchment No: 110

MULLAGHANOE 34M030180.

Station Nos.	2004	Biological Quality Ratings (Q Values)	
		2010	
0140	4	-	
0180	-	3-4	

Assessment: Unsatisfactory ecological conditions were recorded on the Black (Sligo) in 2010, with a dominance of pollution tolerant macroinvertebrates noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0140	Bridge N of Cloonmeen West	150637	301360	32	MO
0180	Bridge N. of Charlestown	147900	302690	32	SO

River and Code : **BREAGHWY**
 Tributary of : 34C03 CLOONAGHMORE
 OS Grid Ref of Confluence: G 161 278
 Date(s) Surveyed: 10/8/2010

34/B/06
 OS Catchment No: 104

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1999	2001	2005	2007	2010
0200	4	4-5	3-4	3	4	4	-	4
0600	4-5	4	3	4	4	4	4	4

Assessment: Satisfactory ecological conditions have been maintained at both stations sampled on the Breaghwy in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Belladoan Br	111890	328439	23	MO
0600	Bridge S.W. of Seeaghanbaun	114304	327622	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	40	4	0	100	21	7	26	0	36	0	10
0600	22	13	0	100	48	3	15	0	31	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRUSNA (NORTH MAYO)**

34/B/07

Tributary of : 34G01 GLENREE

OS Catchment No: 110

OS Grid Ref of Confluence: G 289 190

Date(s) Surveyed: 5/8/2010, 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1993	1995	1999	2001	2002	2004	2007	2010
0200	4-5	4-5	4-5	4	4	-	4	4	4
0300	-	4	-	-	-	-	-	-	-
0400	4	-	5	4-5	-	4-5	4-5	-	4-5
0600	4-5	4-5	4	4-5	-	4	4-5	4	4

Assessment: Satisfactory ecological conditions were recorded along the length of the Brusna in 2010, a situation unchanged in over twenty years of surveying this Glenree tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Emlymoran	131636	323930	24	SO
0300	Br W of Carha	131090	322546	24	SO
0400	Bridge W. of Cloonta	130196	320988	24	MO
0600	Just u/s Glenree River confl	128608	319117	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	55	12	0	100	43	4	52	0	1	0	0
0400	38	28	1	99	38	5	46	0	5	0	5
0600	25	32	1	99	44	5	42	0	5	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CALLOW LOUGHS STREAM** **34/C/08**
 Tributary of : 34Y01 YELLOW (FOXFORD) OS Catchment No: 110
 OS Grid Ref of Confluence: G 293 062
 Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0200	4	4	-	-	-	-	-	-
0300	4	4-5	4	4-5	4-5	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions were recorded on the Callow Loughs Stream in 2010, a situation virtually unchanged in over twenty years of surveying this Yellow (Foxford) River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Second Br d/s Callow Loughs	130085	304855	24	MO
0300	Bridge u/s Yellow River	129356	305629	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	19	9	100	0	0	4	53	0	29	13	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARROWKERIBLY LOUGH STREAM** 34/C/07
 Tributary of : 34M02 MOY OS Catchment No: 110
 OS Grid Ref of Confluence: G 265 104
 Date(s) Surveyed: 15/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0300	-	-	4-5	4-5	4-5	4	-	-
0400	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0600	4	3-4	4	4	4-5	4	4-5	4

Assessment: Satisfactory ecological conditions were recorded at both sites sampled on the Carrowkeribly in 2010, a situation virtually unchanged in over twenty years of surveying this Moy River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Ballymore L.	129568	313161	24	MO
0400	Bridge near Ardrass	127707	312002	24	MO
0600	Bridge u/s Moy River confl	126346	310474	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	15	14	80	20	40	2	53	0	0	0	5
0400	16	29	69	31	46	2	42	0	4	2	4
0600	5	35	67	33	44	4	40	0	4	3	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CHARLESTOWN STREAM** **34/C/28**
 Tributary of : 34M03 MULLAGHANOE OS Catchment No: 110
 OS Grid Ref of Confluence: G 475 027
 Date(s) Surveyed: 22/7/2010

Previously reported as part of the Mullaghanoe

Station Nos.							Biological Quality Ratings (Q Values)				
	1980	1983	1985	1989	1993	1995	1998	2001	2004	2007	2010
0070	5	5	-	4-5	4-5	-	-	-	-	-	-
0100	3	4	4-5	3	4	2-3	2-3	3-4	3-4	2-3	3

Assessment: Although a slight improvement was noted compared to the last survey, unsatisfactory ecological conditions were once again recorded on the Charlestown Stream in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Bridge at Bracklagh	0	0	0	MO
0100	Bridge W.N.W. of Bellahy	147505	302542	32	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	60	25	72	28	60	1	13	2	4	0	21

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONAGHMORE**

34/C/03

Tributary of :

OS Catchment No: 104

OS Grid Ref of Confluence: G 174 314

Date(s) Surveyed: 11/8/2010, 12/8/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1979	1981	1986	1989	1993	1995	1999	2001	2005	2007	2010
0030	-	-	-	-	-	4-5	4-5	4-5	4-5	4-5	4
0060	-	-	-	5	-	-	-	-	-	-	-
0100	-	5	5	4-5	4	4	4-5	4	4-5	-	4
0150	-	5	4	5	4-5	4	4-5	4	4-5	4-5	4
0200	4-5	4-5	3-4	4	4	4	4-5	4-5	4	-	4
0270	-	-	-	-	-	4-5	4	4-5	4	4-5	4
0280	-	-	-	4	-	-	-	-	-	-	-
0300	4	4	4-5	-	4	-	-	-	-	-	-
0310	1	4	4	4	-	-	-	-	-	-	-

Assessment: Although satisfactory ecological conditions have been maintained at all three sites surveyed on the Cloonaghmore in 2010, there has been a drop from high to good quality at all sites. A loss of some sensitive macroinvertebrate taxa compared to previous surveys was noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br u/s Ford SSE Tawnywaddyduff	107128	324369	23	MO
0060	Bridge near Lecarrowwaddy	0	0	0	MO
0100	Bridge near Belville	112162	324780	23	MO
0150	Ballintober Bridge	114375	326127	23	MO
0200	Tonrehown Bridge	115725	328668	23	MO
0270	1.2 km u/s Palmerstown Br	116966	331253	24	MO
0280	200 m u/s Palmerstown Bridge	117122	331467	0	MO
0300	Palmerstown Bridge (LH side)	117372	331447	24	MO
0310	Palmerstown Bridge (RH side)	117372	331447	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	67	11	0	100	2	24	63	0	3	0	8
0100	36	43	0	100	8	13	62	0	9	0	8
0150	25	51	0	100	17	12	55	0	8	0	7
0200	14	96	0	100	31	9	39	0	14	0	7
0270	3	132	0	100	43	6	31	0	13	0	6
0300	1	133	0	100	43	6	31	0	13	0	6
0310	1	133	0	100	43	6	31	0	13	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONLAVIS** **34/C/10**
 Tributary of : 34Y02 YELLOW (KNOCK) OS Catchment No: 110
 OS Grid Ref of Confluence: M 350 868
 Date(s) Surveyed: 5/10/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1995	1998	2001	2005	2007	2010
0100	4	3	4	4	3-4	-	-
0300	4	4	4	4	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained on the Cloonlavis in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W of Knockbaun	137898	281323	32	MO
0300	Bridge u/s Yellow R confluence	135750	285160	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	71	13	0	100	43	0	40	1	13	2	1
0300	59	18	0	100	41	0	30	1	26	2	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CRUMLIN (LOUGH CULLIN)** **34/C/11**
 Tributary of : Lough Cullin OS Catchment No: 110
 OS Grid Ref of Confluence: G 222 018
 Date(s) Surveyed: 15/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1994	1995	1998	2002	2004	2007	2010
0300	4-5	4	3-4	4	3-4*	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained in the Crumlin in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Lough Cullin	121092	301325	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	17	20	100	0	0	3	48	0	38	5	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DEEL (CROSSMOLINA)**

34/D/01

Tributary of : Lough Conn

OS Catchment No: 110

OS Grid Ref of Confluence: G 175 171

Date(s) Surveyed: 12/8/2010, 13/8/2010, 19/8/2010, 30/8/2010

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0006	-	-	-	-	-	5	4-5	4-5	4	4	4	4	4
0010	-	-	-	5	5	4-5	4-5	4	4	4	4	4	4
0025	-	-	-	4-5	4-5	4-5	4	4	3-4	4	4	4	4
0050	-	-	-	-	5	-	-	-	-	-	-	-	-
0100	5	-	-	5	5	4-5	4-5	4	4-5	5	4-5	4-5	4-5
0120	-	-	-	-	-	-	-	-	-	-	4	4-5	4
0150	-	-	-	4	-	4	4	-	-	-	-	-	-
0200	-	-	-	-	-	4-5	4-5	-	4	-	4-5	-	-
0250	-	-	-	-	-	-	-	3	-	4	4	-	-
0300	5	5	4-5	3-4	3-4	4	5	3-4	4	4-5	4	4	4
0400	-	-	-	-	4	4-5	4-5	4	4-5	4-5	4-5	-	4-5

Assessment: The River Deel is the main tributary of Lough Conn. Satisfactory ecological conditions were recorded along the length of the Deel in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0006	Bridge at Keenagh	102160	310888	23	MO
0010	Deel Bridge	100978	315759	23	MO
0025	Ford S.W. of Knockbrack	106715	314258	23	MO
0050	Ford at Ballymulty	108981	315078	23	MO
0100	Ford E. of Ballycarroon House	112102	316034	23	MO
0120	Crossmolina Bridge .	113770	317650	23	MO
0150	S.E. of Crossmolina	114500	316400	0	MO
0200	800 m d/s Crossmolina Bridge	114258	317863	23	MO
0250	1.3km d/s Crossmolina Br	114016	318340	23	MO
0300	Knockadangan Bridge	115748	319214	23	MO
0400	Br at Deelcastle	117885	318843	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0006	87	9	88	12	3	3	65	0	2	0	27
0010	55	64	32	68	2	4	63	0	9	0	22
0025	45	98	27	73	2	4	64	0	10	0	20
0050	39	143	21	79	3	6	63	0	12	0	16
0100	26	152	20	80	7	5	59	0	12	0	16
0200	18	155	20	80	9	5	58	0	12	0	15
0250	16	156	20	80	9	5	58	0	12	0	15
0300	10	227	13	87	29	4	44	0	12	0	11
0400	10	230	13	87	29	4	43	0	12	0	11

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUVOWEN**
 Tributary of : 34C03 CLOONAGHMORE
 OS Grid Ref of Confluence: G 144 261
 Date(s) Surveyed: 11/8/2010

34/D/03
 OS Catchment No: 104

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1999	2001	2005	2007	2010
0100	-	4-5	-	-	-	-	-	-
0300	-	-	-	-	-	4	-	4
0400	-	-	4	4	4	-	-	-
0500	4-5	4	-	-	-	-	-	-
0800	4-5	4-5	4	4	4	4-5	4-5	4

Assessment: Although satisfactory ecological conditions have been maintained in the Duvowen in 2010, a slight drop in condition was recorded at station 0800, upstream of its confluence with the Cloonaghmore.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N of Carnclogh	0	0	0	MO
0300	Br N Ballynagar (main Road)	110532	326784	0	
0400	Br S of Garranard	111689	326152	23	MO
0500	Bridge E.S.E. of Garranard	0	0	0	MO
0800	Br u/s Cloonaghmore River	114125	326062	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	40	14	0	100	21	12	44	0	1	0	22
0800	26	17	0	100	28	10	37	0	6	0	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **EIGNAGH**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: G 433 080
 Date(s) Surveyed: 20/7/2010

34/E/01
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)											
	1977	1979	1981	1986	1989	1993	1995	1998	2001	2004	2007	2010
0080	-	-	-	-	-	4-5	-	-	-	-	-	-
0100	-	-	5	5	5	5	4-5	4-5	5	5	5	5
0200	-	4-5	5	4-5	4-5	4-5	4	4	4-5	5	-	4-5
0300	5	-	4-5	5	4-5	4-5	4	4-5	4	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained on the Eignagh in 2010, a situation unchanged in over thirty years of surveying this Moy River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br 1.2 km d/s L. Talt	140960	313905	24	SO
0100	Bridge 1.75 km d/s Lough Talt	141442	313659	24	SO
0200	Bridge in Aclare	141020	310045	24	SO
0300	Br u/s Moy River at Cloongoonagh	143097	308108	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	81	13	100	0	16	4	70	0	2	8	0
0200	50	34	73	27	32	3	44	0	14	3	4
0300	41	59	61	39	31	3	43	0	14	2	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FIDDAUNATOOGHAUN STREAM** **34/F/06**
 Tributary of : 34S01 SHANVOLAHAN OS Catchment No: 110
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 13/8/2010

Previously reported as part of the Shanvolahan 34S01

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0100	3	4	4	4	4	4	4	4

Assessment: Satisfactory ecological conditions have been maintained in the Fiddaunatooghaun in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Eskeragh Bridge	103890	318899	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	66	6	0	100	0	0	75	0	5	0	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENREE**
 Tributary of : Sea - Moy Estuary
 OS Grid Ref of Confluence: G 255 195
 Date(s) Surveyed: 5/8/2010, 9/8/2010

34/G/01
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)											
	1979	1981	1986	1989	1993	1995	1998	2001	2004	2005	2007	2010
0020	-	-	-	-	5	4-5	5	4-5	4-5	-	4-5	4-5
0050	-	-	5	5	5	5	-	5	5	-	-	4-5
0053	-	-	-	-	-	-	4-5	-	-	-	-	-
0060	-	-	-	-	5	4-5	5	4-5	4-5	-	4-5	4-5
0100	5	5	5	5	4-5	-	-	-	-	-	-	4-5
0200	4	4-5	4	4	4-5	4-5	4	4-5	-	4-5	4	4

Assessment: Highly satisfactory ecological conditions have been maintained on the Glenree in 2010, a situation unchanged in over thirty years of surveying this Moy Estuary tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Bridge near Carrownaglogh	136084	319511	24	MO
0050	Bridge 2 km E. of Cloonta	132475	320862	24	MO
0053	Br. SE of Cloonta	131539	320499	24	MO
0060	0.7 km u/s Brusna River confluence	129030	319334	24	MO
0100	Ford u/s Rathkip	126883	317994	24	MO
0200	Bunree Bridge	125500	319402	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	107	9	97	3	5	14	69	0	7	0	4
0050	55	13	69	31	14	10	60	0	7	0	9
0053	48	14	67	33	16	10	58	0	8	0	8
0060	30	19	48	52	24	7	55	0	6	0	9
0100	14	93	23	77	47	3	41	0	4	0	5
0200	4	96	23	77	47	3	40	1	4	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLORE (MAYO)**

34/G/02

Tributary of : 34G03 GWEESTION

OS Catchment No: 110

OS Grid Ref of Confluence: M 343 930

Date(s) Surveyed: 5/10/2010, 6/9/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0005	-	-	-	4	4	-	-	-	-	-	-
0010	-	4	3-4	3-4	3-4	3	-	3	3	3	4
0050	-	4	4-5	4	4-5	4	4-5	3-4	3-4	-	-
0100	-	4	4-5	4	4-5	-	-	-	-	-	4
0110	-	-	-	-	-	-	4	4	4	4	-
0140	-	-	-	4	4	-	-	-	-	-	-
0150	-	4	3-4	4	4	-	-	-	-	-	-
0180	-	-	-	-	4	-	-	-	-	-	-
0190	-	-	-	-	4	-	-	-	-	-	-
0200	4-5	4	4	4	4	4	4	4	4-5	4-5	4

Assessment: A welcome return to satisfactory ecological condition was recorded on the upper Glore in 2010, with satisfactory conditions maintained at both downstream sites. A slight decline from high to good ecological conditions was noted at Glore Bridge (0200), characterised by a loss of some pollution sensitive macroinvertebrate taxa.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Cave Br	149575	282010	0	MO
0010	Bridge u/s Island Lough	148643	281092	32	MO
0050	br NW Ballinacostello	142520	286854	32	MO
0100	Bridge near Cloonfallagh	138996	289492	32	MO
0110	Br W Derrynaned	138599	289806	32	MO
0140	Ford N. of Canbrack	137380	298950	0	MO
0150	Bridge S. of Ballynamona	136500	290600	0	MO
0180	200 m u/s Glore Bridge	135155	291640	0	MO
0190	80 m u/s Glore Bridge	132085	291720	0	MO
0200	Glore Bridge	135000	291785	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	79	26	0	100	55	0	26	1	14	1	3
0050	72	50	0	100	53	0	15	1	17	1	14
0100	66	57	0	100	48	0	14	1	18	0	19
0110	65	61	0	100	45	0	17	1	17	0	20
0200	47	65	0	100	42	0	19	0	17	0	21

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GWEESTION**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: M 296 984
 Date(s) Surveyed: 7/10/2010

34/G/03
 OS Catchment No: 110

Station Nos.							Biological Quality Ratings (Q Values)				
	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0050	-	4	4	4	4	-	-	-	-	-	-
0080	-	-	-	-	-	3-4	4	4	4	-	-
0100	-	5	4-5	4	3-4	-	-	-	-	4	4
0200	5	5	4	5	4-5	4	4	4	4	4	4-5

Assessment: Satisfactory ecological conditions were maintained at both sites sampled on the Gweestion in 2010, with a slight improvement to high quality noted at Scarrownageeragh Bridge (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br 3 km u/s Ballymiles Br	133100	294700	0	MO
0080	Br NE of Lismiraun	132897	294677	32	MO
0100	Ballymiles Bridge	132900	296000	32	MO
0200	Scarrownageeragh Bridge	130322	297584	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	28	214	0	100	28	1	24	1	27	0	20
0100	24	222	0	100	27	1	23	1	28	0	20
0200	16	322	1	99	26	1	27	1	27	1	18

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEAFFONY**
 Tributary of : Sea - Killala Bay
 OS Grid Ref of Confluence: G 310 358
 Date(s) Surveyed: 27/7/2010

34/L/01
 OS Catchment No: 112

Station Nos.	Biological Quality Ratings (Q Values)									
	1982	1986	1989	1993	1995	1999	2001	2004	2007	2010
0100	4-5	4-5	4-5	4	4-5	4-5	4	4	4	4
0150	-	4-5	4	4	-	-	-	-	-	-
0180	-	-	-	-	3-4	4	4	4	-	-
0200	4	4	3-4	4	-	-	-	-	-	-
0260	-	-	4	4	3	4	3-4	3-4	4	4
0300	4	4	4	-	-	-	-	-	-	-

Assessment: Satisfactory ecological conditions have been maintained at both sites sampled on the Leaffony in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Culleens Br	135229	329497	24	SO
0150	Bridge at Gortagheen	0	0	0	SO
0180	Br SW Carragh Town	133857	333099	24	SO
0200	Ford N. of Leaffony	0	0	0	SO
0260	Br S Cabraghkeel	131466	335886	24	SO
0300	Br at Cabraghkeel	0	0	0	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	64	10	0	100	29	1	52	0	0	0	18
0180	29	20	0	100	54	0	29	0	7	0	9
0260	4	35	0	100	61	0	16	0	17	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LENYVEE** **34/L/06**
 Tributary of : 34O01 OWENAHER OS Catchment No: 110
 OS Grid Ref of Confluence: G 424 179
 Date(s) Surveyed: 19/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0300	4-5	4-5	4-5	4-5	5	5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained in the Lenyvee in 2010, a situation unchanged in over twenty years of surveying this Owenaher River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br ESE Loughannagally	141856	317227	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	151	6	100	0	0	6	51	0	0	0	43

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LITTLE (STRADE)**

34/L/02

Tributary of : 34S04 STRADE

OS Catchment No: 110

OS Grid Ref of Confluence: M 258 957

Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0300	-	-	4-5	4-5	4-5	4-5	-	4-5
0390	4	-	-	-	-	-	-	-
0400	3	4	-	-	-	-	-	-
0500	4	4-5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory ecological conditions were recorded along the length of the Little in 2010, a situation unchanged in over twenty years of surveying this Strade River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Buck Br	127593	291109	31	MO
0390	U/s Bridge S.W. of Boleyard	127684	292227	0	MO
0400	D/s Bridge S.W. of Boleyard	127525	292292	0	MO
0500	Bridge N. of Knockatemple	127002	294236	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	84	6	0	100	0	2	64	0	22	0	12
0500	44	12	0	100	2	4	56	0	32	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGHANABOLL**

34/L/07

Tributary of : 34O01 OWENAHER

OS Catchment No: 110

OS Grid Ref of Confluence: G 438 168

Date(s) Surveyed: 19/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1995	1998	2001	2004	2010
0100	4-5	5	4	4-5	4-5	5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained in the Loughanaboll in 2010, a situation virtually unchanged in over twenty years of surveying this Owenaher River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Owenaher River	143999	317468	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	104	7	100	0	33	0	56	0	0	0	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAD** **34/M/04**
 Tributary of : 34M02 MOY OS Catchment No: 110
 OS Grid Ref of Confluence: G 493 170
 Date(s) Surveyed: 19/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0100	5	3-4	3	3	3-4	4	3	3

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Mad in 2010, with a dominance of pollution tolerant taxa recorded. This upper Moy tributary is affected by forestry and sheep farming in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Moy River confl	149230	317304	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	8	98	2	1	0	97	0	0	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOY**

34/M/02

Tributary of : Sea - Killala Bay

OS Catchment No: 110

OS Grid Ref of Confluence: G 254 197

Date(s) Surveyed: 5/7/2010, 6/7/2010, 7/7/2010, 8/7/2010, 26/7/2010, 30/8/2010

Station Nos.	Biological Quality Ratings (Q Values)															
	1971	1973	1977	1980	1982	1984	1989	1993	1995	1998	2001	2003	2004	2005	2007	2010
0010	-	-	-	-	-	-	-	-	-	-	3	-	3-4	-	3-4	3-4
0050	-	-	-	5	-	5	5	5	4-5	4-5	3	-	4	-	4	4
0100	5	5	5	5	-	5	5	5	4-5	5	4	-	4-5	-	4-5	4
0150	-	-	-	5	-	5	5	5	-	-	-	-	-	-	-	-
0300	5	5	5	5	-	5	5	5	4-5	4-5	4-5	-	4-5	-	4-5	4-5
0350	-	-	-	4	-	4-5	-	-	-	-	-	3/0	-	-	-	-
0400	-	-	5	4	-	4	4-5	3	3	4-5	4-5	3-4	4-5	-	4	4
0420	-	-	-	4-5	-	4	5	4-5	4	4	4-5	-	4	-	-	-
0470	-	-	-	5	-	4	4	4	4	4	4-5	-	4	-	4	4
0500	5	5	4-5	5	-	4-5	5	4	4-5	4-5	4-5	-	4-5	-	4	4
0590	-	-	-	-	-	-	-	-	-	-	4-5	-	-	-	-	-
0600	5	-	5	5	-	5	4-5	4-5	-	-	-	-	-	-	-	-
0610	-	-	-	-	-	3-4	4	3	4	4	4	-	4	-	-	-
0650	-	-	-	4	-	4-5	4	4-5	4-5	4-5	4-5	-	4	-	4	4
0700	-	5	5	5	-	4-5	4	4-5	4-5	4	4-5	-	4-5	-	4	4-5
0750	-	-	-	-	-	-	-	-	5	5	5	-	-	4-5	4-5	4-5
0770	-	-	-	-	-	-	-	-	4	4	4	-	-	4	4*	4
0800	4-5	5	4	3-4	3	3	3	3	3	3	3-4	-	-	4	4	4
0850	-	-	-	-	-	-	4-5	4-5	4-5	4-5	4	-	-	4-5	4	4
0900	-	-	-	-	4	4	4-5	4-5	4	4-5	4-5	-	-	4	-	-
0960	-	-	-	-	4	4	4	-	4	4	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4	-
1050	5	4	4	4	-	4	4	3*	3-4	4	4	-	-	4	-	-
1055	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	-

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the upper Moy (0010) in 2010, with moderate pollution recorded. Forestry activities in the upper catchment appear to be the main pressure. However, satisfactory ecological conditions were recorded along the rest of the Moy, with three sites in high condition and the remaining nine maintaining good condition.

Hydrometric Area 34 (2010)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Branchfield Bridge	152937	320469	25	SO
0050	Cloonbaniff Br	152304	319444	25	SO
0100	Bridge S.E. of Cloonacool	149279	316791	25	SO
0150	Ford u/s Metal Bridge	147300	314900	25	SO
0300	Annagh Bridge	146661	312324	24	SO
0350	Tullanaglug d/s Tubercurry R	147800	310900	24	SO
0400	Bridge at Banada	146503	310006	24	SO
0420	Ford N. of Ballygallagart	143500	308942	24	SO
0470	Ford near Bellanacurra	140391	304616	24	MO
0500	Cloonacannana Bridge	138932	302397	32	MO
0590	U/s Swinford R confl LHS	134858	301517	32	MO
0600	Br near Cloongullaun (RHS)	134766	301455	32	MO
0610	Br near Cloongullaun (LHS)	134766	301455	32	MO
0650	Ford 2 km u/s Gweestion River	131052	298834	31	MO
0700	Ballylahan Bridge	127589	299311	31	MO
0750	At Cuilbaum	126160	300835	31	MO
0770	U/s Foxford Br (LHS)	126787	304037	24	MO
0800	1 km N of Foxford (RHS)	126978	304787	24	MO
0850	Near Bunnafinglas	126287	310392	24	MO
0900	U/s Corroy River - nr Hollywood Ho	124827	313872	24	MO
0960	0.5 km d/s Corroy River confl	124933	314030	24	MO
1040	0.6km u/s Ardnaree Bridge LHS	124324	318278	24	MO
1050	0.3 km u/s Ardnaree Br (LHS)	124421	318510	24	MO
1055	0.3 km u/s Ardnaree Bridge (RHS)	124495	318535	24	MO
1100	Ardnaree Bridge	124587	318647	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	68	16	75	25	6	2	60	0	26	0	6
0100	55	52	52	48	24	1	51	0	20	0	4
0300	47	132	61	39	27	7	43	0	11	0	13
0400	44	176	46	54	39	5	35	1	10	0	10
0420	41	182	45	55	40	5	35	1	10	0	10
0470	37	438	37	63	40	2	36	1	10	0	10
0500	33	484	35	65	41	2	36	1	10	0	10
0600	30	531	34	66	42	2	36	1	9	0	10
0610	30	531	34	66	42	2	36	1	9	0	10
0650	16	585	31	69	41	2	35	1	11	0	10
0700	10	935	21	79	36	1	32	1	17	0	12
0750	9	974	20	80	35	1	32	1	19	0	12
0770	8	1805	24	76	29	2	31	1	22	4	11
0800	7	1806	24	76	29	2	31	1	22	4	11
0850	4	1879	27	73	28	2	32	1	22	4	10
0900	2	1922	27	73	29	2	32	1	22	4	10
0960	2	1947	27	73	29	2	32	1	22	4	10
1050	1	1976	27	73	30	2	32	1	21	4	10
1100	0	1976	27	73	30	2	32	1	21	4	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULLAGHANOE**

34/M/03

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 404 048

Date(s) Surveyed: 22/7/2010, 23/7/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1983	1989	1993	1995	1998	2001	2004	2007	2010
0140	-	-	-	3	3	4	4	-	-	-
0180	-	-	4	4	-	-	-	-	-	-
0190	-	-	-	-	3	3-4	3-4	4	-	-
0200	3-4	3-4	3-4	4	-	-	4	-	3	3
0220	-	-	-	-	3	3-4	-	4	3	3-4
0300	4	4-5	3-4	4	3-4	3-4	4	4	-	4

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions at stations 0200 and 0220 on the Mullaghanoe in 2010, with a dominance of pollution tolerant taxa recorded. Satisfactory conditions were restored just upstream of the Moy River confluence (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0190	0.2 km d/s Charlestown Branch conf	147322	302944	32	SO
0200	Bridge at Cloonlaughil	146108	303662	32	SO
0220	Br SW of Cully Cross Roads	144812	304053	24	SO
0300	Bridge 1 km u/s Moy River	141063	304857	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0140	83	3	56	44	23	0	25	0	0	0	52
0190	58	40	50	50	54	0	16	2	11	0	17
0200	52	5	100	0	0	0	64	0	23	0	12
0220	48	44	45	55	54	0	17	1	11	0	16
0300	39	51	39	61	52	0	20	1	12	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OUGHTAGH**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: M 275 993
 Date(s) Surveyed: 15/7/2010

34/O/05
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0300	-	4	4	4	3-4	4	-	-
0400	4	4-5	4	4	3-4	4	4	3-4

Assessment: A disappointing decline to unsatisfactory ecological condition was recorded on the Oughtagh in 2010, with a dominance of pollution tolerant macroinvertebrate taxa noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br near Carrowgowan House	127562	294712	31	SO
0400	Bridge u/s Moy River confl	127445	299069	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	43	4	0	100	0	7	27	0	66	0	0
0400	11	9	0	100	16	3	11	0	70	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENAHER**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: G 463 134
 Date(s) Surveyed: 19/7/2010

34/O/01
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1986	1989	1993	1995	1998	2001	2004	2007	2010
0050	-	5	5	4-5	4-5	4-5	5	4-5	-	4
0100	5	5	5	5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory ecological conditions were recorded at both sites sampled on the Owenaher in 2010, although a slight decline from high to good was noted at station 0050.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Ford E. of Zion Hill	143117	317186	24	SO
0100	Bellanagraugh Bridge	144389	313851	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	105	22	100	0	2	29	35	0	0	0	34
0100	51	40	100	0	16	19	40	0	0	0	25

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENGARVE (SLIGO)**

34/O/03

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 435 075

Date(s) Surveyed: 20/7/2010, 21/7/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1977	1980	1984	1989	1993	1995	1998	1999	2001	2004	2007	2010
0010	-	5	4-5	4-5	5	4-5	4-5	-	4-5	4-5	4-5	4-5
0050	-	5	4-5	4-5	4-5	4-5	5	-	4	4	4-5	4-5
0080	-	-	-	5	5	-	-	-	-	-	-	-
0100	-	5	4-5	4	5	4-5	5	-	4	4-5	4-5	4-5
0150	-	-	-	5	4	-	-	-	-	-	-	-
0200	5	5	5	5	5	4-5	-	3-4	5	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained at all sites sampled on the Owengarve in 2010, a situation virtually unchanged in over thirty years of surveying this Moy River tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge at Derrynabrock	158793	302104	32	MO
0050	Ford N.W. of Srah Upper	154929	303986	32	MO
0080	Fords near Botinny	151732	304555	32	MO
0100	Bridge in Curry	149323	306156	32	SO
0150	Ford S. of Rathmagurry Ho	147217	306895	24	SO
0200	Dawros Br	145310	307417	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	97	7	70	30	1	0	63	0	28	0	9
0050	72	44	47	53	40	0	39	0	12	0	10
0100	58	83	31	69	37	0	37	0	11	0	15
0200	43	121	21	79	40	0	37	1	11	0	12

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENLOBNAGLAUR**

34/O/04

Tributary of : 34O03 OWENGARVE (SLIGO)

OS Catchment No: 110

OS Grid Ref of Confluence: G 558 033

Date(s) Surveyed: 21/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2004	2007	2010
0100	4	4-5	-	-	-	-	-	-
0200	4-5	4-5	4-5	4	4	4	4-5	4

Assessment: Although satisfactory ecological conditions have been recorded on the Owenlobnaglaur in 2010, a slight decline from high to good condition was noted. Increased silt and algal abundance suggests eutrophication present.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE Currinah	157506	298842	32	RN
0200	Br S Calveagh Lr	155565	301288	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	88	9	69	31	50	0	24	0	21	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **POLLAGH**
 Tributary of : 34G03 GWEESTION
 OS Grid Ref of Confluence: M 343 930
 Date(s) Surveyed: 4/10/2010, 6/9/2010

34/P/01
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)											
	1977	1981	1986	1988	1989	1993	1995	1998	2001	2005	2007	2010
0100	-	4-5	4-5	-	4	3-4	4-5	3-4	4	4-5	4-5	4-5
0200	-	4-5	4	4-5	4	4-5	4	4	4	4	-	4-5
0260	-	-	-	-	-	-	3	3-4	3-4	3-4	3	3-4
0300	4	4-5	4-5	-	4	3-4	4	4	3-4	4	4	4

Assessment: Highly satisfactory ecological conditions have been maintained on the upper Pollagh (stations 0100 and 0200) in 2010. Although a slight improvement was noted at Station 0260, downstream of Kiltimagh wastewater treatment plant, moderate pollution persists. Satisfactory ecological conditions have been maintained upstream of the confluence with the Gweestion River (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Linban Br	132328	285971	32	MO
0200	Br N Gortgarve	133360	289251	32	MO
0260	Br NW of Cloonkedagh	132986	290741	32	MO
0300	Bridge u/s Gweestion River	134208	292687	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	54	91	0	100	26	1	32	1	27	1	12
0200	45	128	0	100	25	1	27	1	27	0	18
0260	43	134	0	100	24	1	27	1	28	0	19
0300	40	145	0	100	22	1	27	1	30	0	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHANVOLAHAN**

34/S/01

Tributary of : 34D01 DEEL (CROSSMOLINA)

OS Catchment No: 110

OS Grid Ref of Confluence: G 067 155

Date(s) Surveyed: 13/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2010
0200	4-5	-	-	-	-	-	-	-
0300	4-5	3-4	3	4	4	3-4	-	4
0400	4-5	4	4	4-5	4-5	3-4	4	3-4

Assessment: The Shanvolahan flows through a region of raised bog which has been extensively planted with conifers and grazed by sheep. While satisfactory ecological conditions were recorded at station 0300 on the Shanvolahan in 2010, quality at the lower station 0400 (just upstream of the Deel River confluence) declined to moderately polluted conditions. Cattle access is an issue here, with excessive siltation noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	E. of Shanvolahan	0	0	0	MO
0300	Bridge S.W. of Coolturk	106221	318059	23	MO
0400	Just u/s Deel River confl	106459	315877	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	55	12	0	100	1	3	67	0	18	0	11
0400	47	28	0	100	0	5	66	0	16	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SLIEVECLAUR**

34/S/06

Tributary of : 34D01 DEEL (CROSSMOLINA)

OS Catchment No: 110

OS Grid Ref of Confluence: G 157 203

Date(s) Surveyed: 19/8/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1993	1995	1999	2001	2002	2005	2007	2010
0200	-	-	-	3-4	-	3	3-4	-	4
0400	3-4	3	3	3	3-4	3-4	3-4	3	3-4

Assessment: While satisfactory ecological conditions were recorded at the uppermost Slieveclaur station (0200) in 2010, the lower station (0400) remains moderately polluted. The main pressure in the catchment is primarily intensive agricultural practices.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br near Slieveclaur	120625	322524	24	MO
0400	Ballyneety Bridge (Lower)	116453	320740	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	28	4	0	100	54	0	33	0	13	0	0
0400	14	23	0	100	74	0	15	0	10	1	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SONNAGH (MOY)**

34/S/02

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 404 046

Date(s) Surveyed: 23/7/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1985	1989	1994	1995	1999	2001	2005	2007	2010
0009	-	-	3-4	-	-	-	-	-	-	-
0060	-	-	4-5	3-4	3-4	3-4	4	3	3	3
0070	-	-	-	-	-	-	-	4	-	4
0075	5	5	3	3-4	4	4	4-5	-	-	-
0090	-	-	4	-	-	-	-	-	-	-
0100	4-5	5	4	3-4	4-5	4	4-5	4	3	4-5

Assessment: Unsatisfactory ecological conditions were recorded once again on the upper Sonnagh at station 0060. A dramatic improvement to highly satisfactory conditions was noted at the lowermost station at Gorteen Bridge, with an abundance of sensitive macroinvertebrate taxa recorded. Good conditions exist in the middle reach at Station 0070.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0009	Bridge N.W. of Tomboholla	0	0	0	MO
0060	Bridge NE of Stripe	143503	298902	32	MO
0070	Br SE Cartron	144342	300600	31	MO
0075	Bridge E of Cartron (main road)	144836	301016	32	MO
0090	Bridge at Lisleaghna	143343	303100	0	MO
0100	Gorteen Br	141484	304012	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	88	4	54	46	31	0	56	8	5	0	0
0075	60	22	39	61	41	0	47	4	7	0	0
0100	42	36	24	76	41	0	46	3	5	0	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SPADDAGH**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: M 323 999
 Date(s) Surveyed: 4/8/2010

34/S/03
 OS Catchment No: 110

Station Nos.							Biological Quality Ratings (Q Values)				
	1981	1985	1989	1993	1995	1999	2001	2004	2005	2007	2010
0050	4-5	5	4-5	4-5	4-5	4	4	-	4-5	4-5	4
0100	5	4-5	4-5	4-5	4	3	4	4	-	-	4
0200	5	4-5	4-5	4-5	4-5	3-4*	4	-	4	4	4

Assessment: Satisfactory ecological conditions have been maintained at all sites sampled on the Spaddagh in 2010, although a slight decline from high to good was noted at the uppermost station 0050 .

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N. of Castlesheenaghan	139460	296734	32	MO
0100	Bridge N.E. of Esker	136348	298660	32	MO
0200	Bridge u/s Moy River confl	132382	299369	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	77	5	0	100	22	0	61	0	9	0	8
0100	52	11	0	100	32	0	37	4	5	0	21
0200	25	15	0	100	24	0	28	3	25	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SWINFORD**
 Tributary of : 34M02 MOY
 OS Grid Ref of Confluence: G 347 014
 Date(s) Surveyed: 7/10/2010

34/S/05
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)															
	1977	1979	1981	1983	1985	1988	1989	1990	1991	1993	1995	1999	2001	2005	2007	2010
0100	-	4-5	4-5	4-5	4	4-5	4	-	-	4	3-4	-	-	-	-	-
0200	-	2	3	1-2	1-2	1	1	1	1	2-3	3	-	2-3	4	4	4
0300	3-4	3-4	3-4	3-4	3	3	3	-	-	3	3-4	3-4	3-4	3-4	4	4

Assessment: The improvements first noted in the Swinford in 2005 have been maintained in 2010, with satisfactory ecological conditions recorded at both sites sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Swinford	138410	299905	32	MO
0200	Swinford: Br on Foxford Road	136632	300450	32	MO
0300	Bridge 100 m u/s Moy River	134893	301450	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	63	14	5	95	61	0	32	0	0	0	6
0200	53	18	4	96	64	0	25	3	0	0	8
0300	31	19	4	96	60	0	27	3	3	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TRIMOGE**
 Tributary of : 34G03 GWEESTION
 OS Grid Ref of Confluence: M 330 964
 Date(s) Surveyed: 4/10/2010, 5/10/2010

34/T/01
 OS Catchment No: 110

Station Nos.							Biological Quality Ratings (Q Values)				
	1977	1981	1986	1989	1993	1995	1998	2001	2005	2007	2010
0100	-	4	4-5	4	4	-	-	-	-	-	-
0200	-	4	4	4	3-4	4	3	3-4	3-4	3-4	3-4
0250	-	4	4-5	4	4	-	-	-	-	-	-
0300	-	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4	4
0350	-	5	4-5	4	4-5	-	-	-	-	-	-
0400	5	4-5	4-5	-	4-5	-	4	4	3-4	-	-
0500	5	4-5	4-5	5	4-5	4	-	4	4	4	4-5

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions at the upper station on the Trimoge in 2010. Increased algal abundance is indicative of eutrophication. Satisfactory ecological conditions have been maintained in the middle reach at station 0300, while an improvement to high quality was noted at Tullyroe Bridge (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge in Kilkelly	144190	291554	32	MO
0200	Ford just W. of Kilkelly	143760	291423	32	MO
0250	Br N.W. of Woodfield House	141500	291200	0	MO
0300	Bridge S.W. of Rinn Lough	139189	290950	32	MO
0350	Ford S. of Castleroyan	137300	292000	0	MO
0400	Kinaff Bridge	135657	293678	32	MO
0500	Tullyroe Br	133005	296373	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	75	42	3	97	31	0	31	2	18	6	12
0200	74	47	4	96	28	0	34	2	19	5	11
0300	64	75	3	97	28	0	35	1	18	3	15
0400	46	82	2	98	26	0	38	1	17	3	15
0500	25	90	2	98	27	0	37	1	18	3	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TUBBERCURRY**

34/T/02

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 270 085

Date(s) Surveyed: 22/7/2010

Station Nos.	Biological Quality Ratings (Q Values)																		
	1971	1973	1977	1979	1980	1982	1986	1989	1990	1993	1995	1998	2001	2003	2004	2007	2008	2009	2010
0005	-	-	-	-	4	4	4-5	4-5	-	4-5	-	-	-	-	-	-	-	-	-
0050	-	-	-	-	1	1-2	2-3	2	1-2	2	2	2-3	2	-	1-2	1-2	2	1-2	1-2
0100	1/0	1	1	1	2	3	3	-	-	2-3	-	-	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-
0200	-	-	-	3	3	3	3-4	3	-	3	3	3	3	3	2-3	3	-	-	3

Assessment: Serious pollution was recorded once again on the upper Tubbercurry station 0050, while moderate pollution prevails just upstream of the Moy River confluence. Sewage discharges are the main pressure.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Br N. of Carrowntubber	152157	313820	25	SO
0050	Br 1 km W. of Tubbercurry	151078	311707	25	SO
0100	Br N. of Rue Cross Roads	150280	311600	24	SO
0150	Br N of Tullanaglug	148618	311525	25	SO
0200	Br just u/s Moy River	147608	311425	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	72	16	0	100	65	0	13	8	13	0	0
0200	50	22	0	100	73	0	11	6	9	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TUBBERCURRY STREAM**

34/T/03

Tributary of : 34T02 TUBBERCURRY

OS Catchment No: 110

OS Grid Ref of Confluence: G 514 120

Date(s) Surveyed: 22/7/2010

Station Nos.	Biological Quality Ratings (Q Values)				
	2004	2007	2008	2009	2010
0300	2	-	-	-	-
0400	1-2	1-2	2	2	2
0500	1-2	-	-	-	-

Assessment: The Tubbercurry Stream was again seriously polluted in 2010 due to poorly treated sewage discharges upstream of the existing treatment plant in Tubbercurry.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	N17 Bridge in Tubbercurry	152136	311935	25	SO
0400	At old railway bridge	151965	312030	25	SO
0500	0.1 km d/s old Railway Br	151850	312065	25	SO

River and Code : **YELLOW (FOXFORD)**

34/Y/01

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 270 085

Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1986	1989	1993	1995	1998	2001	2004	2007	2010
0100	5	5	5	5	5	5	5	5	5	5
0200	5	5	5	5	-	-	-	-	-	-
0400	-	-	5	5	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions have been maintained in the Yellow (Foxford) in 2010, a situation unchanged in almost thirty years of surveying this Moy river tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford W. of Corlee	132280	308607	24	MO
0200	Bridge S. of Church Village	129895	305897	24	MO
0400	Bridge u/s Moy River confl	128236	306728	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	102	20	100	0	0	2	90	0	4	0	3
0200	19	35	100	0	1	2	80	0	15	0	2
0400	10	47	100	0	2	2	73	0	19	2	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 34 (2010)

River and Code : **YELLOW (KNOCK)**

34/Y/02

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: M 338 861

Date(s) Surveyed: 5/10/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1986	1989	1993	1995	1998	2002	2005	2007	2010
0250	-	-	3-4	3-4	-	-	4	-	3-4	-
0255	-	-	3	3-4	2	2-3	2-3	3-4	-	3-4
0275	-	-	3	4	3	4	4	4-5	n/s	4
0290	-	-	3-4	4	3-4	4	-	-	-	-
0300	5	4	-	-	-	-	-	-	-	-
0400	-	-	4	4-5	4	4	4	4	4	4

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the upper Yellow (Knock) at station 0255. Satisfactory ecological conditions have been maintained along the rest of the river although a slight decline from high to good conditions was noted at station 0275 compared to the last survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br SW Derragh (u/s outfall)	140302	284555	0	MO
0255	0.2km d/s Br SW Derragh (d/s outfall)	140302	284555	32	MO
0275	Bridge N.E. of Faughil	137241	286818	32	MO
0290	Bridge S.E. of Kiltimagh	134906	288149	32	MO
0300	Second Bridge u/s Cultybo L	134649	286731	32	MO
0400	Bridge just u/s Cultybo L	133791	285976	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0255	81	22	0	100	31	0	13	0	37	1	17
0275	67	25	0	100	27	0	19	0	37	1	16
0290	59	50	0	100	20	0	32	1	35	1	10
0300	58	72	0	100	25	0	33	1	32	1	7
0400	58	81	0	100	25	0	32	1	30	1	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 36 (Erne)	
AGHACASHLAUN	36A03
AGHNACLIFFE STREAM	36A06
ANNADALE STREAM	36A05
ANNALEE	36A02
AVAGHON LAKE STREAM	36A07
BAWNBOY	36B07
BLACKWATER (NEWTOWNGORE)	36B04
BLACKWATER (SWANLINBAR)	36B03
BUNNOE	36B05
# CAVAN	36C02
CONAWARY (UPPER)	36C11
CORNAVANNOGE	36C04
CULLIES	36C03
DERRADDA STREAM *	36D07
DROMORE	36D02
DRUMANE STREAM	36D04
ERNE	36E01
FINN (MONAGHAN)	36F01
KNAPPAGH	36K01
LAHEEN STREAM	36L02
LARAGH	36L01
LEGGA STREAM	36L03
MADABAWN STREAM	36M02
MAGHERARNEY	36M01
MAGHERY	36M03
OWENSALLAGH	36O01
RAG (CAVAN)	36R01
ROO	36R02
STRADONE	36S02
SWANLINBAR	36S01
TEMPLEPORT LAKE STREAM	36T01
WATERFOOT	36W03
YELLOW (BALLINAMORE)	36Y01

indicates rivers having seriously polluted stretches at time of this survey.

* DERRADDA STREAM Previously reported as part of the Blackwater (Newtowngore)
36B04

River and Code : **AGHACASHLAUN**

36/A/03

Tributary of : St John's Lough

OS Catchment No: 123

OS Grid Ref of Confluence: H 082 090

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1997	1998	2001	2004	2007	2010
0300	5	4-5	5	4-5	4-5	3-4*	4-5	4-5
0500	5	4-5	4-5	4-5	4-5	4-5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Aghacashlaun in July 2010. Low water levels were a feature of both sites, but particularly at Aghacashlaun bridge (0500) where the weir was defunct and the bridge apron was exposed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Aghlin Br	206515	313452	26	LM
0500	Aghacashlaun Br	204880	310860	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	96	15	0	100	2	14	67	0	15	0	3
0500	70	27	0	100	4	8	57	0	30	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AGHNACLIFFE STREAM**

36/A/06

Tributary of : Lough Gowna

OS Catchment No: 123

OS Grid Ref of Confluence: N 275 887

Date(s) Surveyed: 16/8/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1982	1989	1993	1997	1998	2001	2004	2007	2010	
0400	4-5	4	4-5	4-5	4-5	4	4-5	4-5	4-5	

Assessment: Despite very low water levels in August 2010, continuing good ecological conditions exist on the Aghnacliffe Stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	1st Br u/s L Gowna	227350	288747	34	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	67	14	100	0	96	0	0	0	0	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ANNADALE STREAM**

36/A/05

Tributary of : Lough Scur

OS Catchment No: 123

OS Grid Ref of Confluence: H 030 092

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1993	1997	1998	2001	2004	2007	2010
0300	4-5	4-5	4	4	4	4	4	4
0500	4-5	4	4	3	3	3	3-4	3-4

Assessment: Satisfactory ecological conditions persist in the upper reaches (0300) of the Annadale Stream in July 2010, however the dominance of pollution tolerant species continues to indicate unsatisfactory conditions further downstream (0500). Restriction of livestock access and the creation of a vegetative buffer along the banks could help alleviate the bank erosion and heavy siltation of the substrata at this lower site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br NE of Carrickaport	201589	310409	26	LM
0500	Br u/s Lough Scur	203529	309665	33	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	70	10	5	95	58	4	17	0	11	0	10
0500	63	17	3	97	57	5	14	0	18	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ANNALEE**

36/A/02

Tributary of : Lough Oughter

OS Catchment No: 123

OS Grid Ref of Confluence: H 393 101

Date(s) Surveyed: 2/7/2010, 5/8/2010, 11/8/2010, 16/7/2010, 30/6/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1977	1979	1980	1982	1983	1986	1989	1993	1997	1998	2001	2004	2007	2010
0080	-	-	-	-	-	-	-	3-4	3-4	3-4	4-5	3-4*	4	3-4	4
0100	4	3-4	4	3	4	-	4	-	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	-	3-4	3	3	3	3	3	3
0200	4-5	4	4	3	3-4	-	3-4	-	-	-	-	-	-	-	-
0300	-	-	4	4-5	4-5	-	3	-	-	-	-	-	n/s	-	-
0350	-	-	-	-	-	-	-	3	4	4	3-4	4	4	4	4
0500	5	3	3/0	4	5	-	5	2-3	4-5	4-5	3	4	4	4	4
0600	-	-	4	3-4	4	-	4	2-3	4	4-5	3-4	3-4	4	3-4	3-4
0800	5	4	5	5	5	-	4-5	3-4	4-5	4-5	4	4-5	4	4	4
0900	-	-	4	4-5	4-5	-	4-5	4	4	4	4	3-4	4	3-4	4
1000	3	3-4	-	-	-	-	4-5	4	4	4	4	3-4	3-4	3-4	3-4
1150	-	4	-	4	4-5	-	5	3-4	4-5	4-5	4	3-4	4-5	-	4
1200	-	-	-	-	-	3-4	-	3	-	-	-	-	n/s	-	-
1300	-	-	4	4	4	-	4-5	3-4	-	-	-	-	n/s	-	-
1350	-	-	-	-	-	-	4-5	4-5	4	3-4	4	3-4	3-4	-	3-4
1400	-	-	-	3-4	3-4	-	3-4	3-4	4	3-4	3-4	3	3-4	3-4	3-4

Assessment: Overall, the Annalee River was in a generally unsatisfactory ecological condition when sampled in summer 2010, with little improvement from the 2007 survey. However, six of the eleven sites sampled were of satisfactory ecological condition, with improvements noted upstream of Lough Sillan (0080) and at Ballynallon Br (0900). The most marked pollution (Q3) was recorded immediately downstream of Lough Sillan (0159i0), with heavy silt and excessive macrophyte growth a feature.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	2nd Br u/s L Sillan	272660	306124	35	CN
0100	Br just u/s L Sillan	272400	305900	0	CN
0150	Annafarney Br	268391	306322	35	CN
0200	Br u/s L Tacker	268046	307553	35	CN
0300	Br nr Lisclogher	267800	309900	0	CN
0350	Br nr Ann's Fort	265753	310346	28	CN
0500	New Grove Br	262451	310839	28	CN
0600	Br SE of Fort William	259354	312835	27	CN
0800	Br NW of Rakenny Ho	253489	311541	27	CN
0900	Ballynallon Br	250064	311589	27	CN
1000	Ballyhaise Br	245253	311608	27	CN
1150	Br nr Curraghanoe	243384	312004	27	CN
1200	0.2km u/s Butlersbridge	243406	312047	27	CN
1300	Butlersbridge (d/s side)	240817	310466	27	CN
1350	0.2km u/s Cavan R confl	240254	310101	27	CN
1400	0.2km d/s Cavan R confl	239983	310835	27	CN

Hydrometric Area 36 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	98	16	100	0	82	0	0	0	18	0	0
0150	95	58	100	0	79	0	0	1	15	4	1
0200	92	76	100	0	78	0	0	1	16	4	1
0350	81	168	100	0	80	1	0	1	14	4	0
0500	66	223	100	0	78	0	0	1	17	3	1
0600	64	253	100	0	79	1	0	1	16	3	0
0800	60	508	100	0	84	1	0	1	10	2	2
0900	54	700	99	1	86	1	0	0	9	2	2
1000	50	746	99	1	86	1	0	0	9	2	2
1150	50	760	99	1	85	1	0	0	9	2	2
1200	50	760	99	1	85	1	0	0	9	2	2
1300	48	772	99	1	85	1	0	0	9	2	2
1350	49	0	100	0	100	0	0	0	0	0	0
1400	49	859	96	4	86	1	0	1	8	2	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AVAGHON LAKE STREAM**

36/A/07

Tributary of : 36D02 DROMORE

OS Catchment No: 123

OS Grid Ref of Confluence: H 660 173

Date(s) Surveyed: 16/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1997	1998	2001	2004	2007	2010
0200	-	3	3	3	3	3	-	3
0600	3	3-4	3	3	3	3	3	3

Assessment: The complete lack of pollution sensitive species continues to indicate moderate pollution at both sites on the Avaghon Lake Stream in July 2010. Unsatisfactory ecological conditions have persisted at this river for over twenty years, with agricultural causes suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	2nd Br d/s L Avaghon	267819	314158	28	MN
0600	Br u/s Dromore R confl	266555	317142	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	122	5	100	0	73	0	0	0	16	11	0
0600	79	0	100	0	100	0	0	0	0	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BAWNBOY** **36/B/07**
 Tributary of : 36B04 BLACKWATER (NEWTOWNGORE) OS Catchment No: 123
 OS Grid Ref of Confluence: H 200 158
 Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1989	1993	1997	1998	2001	2004	2007	2010
0300	-	4-5	4-5	4-5	5	4-5	4-5	4	4
0400	4	3-4	-	-	-	-	-	-	-
0500	-	3-4	4-5	4	4	4	4	4	3

Assessment: An unwelcome decline in ecological quality was apparent below Brackley Lough (0500) on the Bawnboy River in 2010, where a paucity of pollution sensitive macroinvertebrate fauna was noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	1st Br u/s Brackley L	219275	321692	26	CN
0400	Br in Bawnboy	221200	319100	0	CN
0500	Bellaboy Br. (u/s Bellaboy Lough)	220895	317704	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	60	5	0	100	0	0	29	0	43	0	28
0500	56	24	0	100	15	7	9	0	42	8	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKWATER (NEWTOWNGORE)**

36/B/04

Tributary of : Ballymagauran Lake

OS Catchment No: 123

OS Grid Ref of Confluence: H 207 134

Date(s) Surveyed: 9/7/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1982	1986	1989	1990	1993	1997	1998	1999	2001	2004	2007	2010
0180	-	-	-	-	5	5	4-5	-	5	4-5	4	4
0200	5	5	-	5	4-5	4-5	4	-	5	4	4	4-5
0300	5	5	-	-	-	-	-	-	-	-	-	-
0400	4-5	4-5	3-4	4	5	5	4	-	4-5	4	3-4	4
0500	4	-	-	-	-	-	-	-	-	-	-	-
0600	4	5	-	4	4	-	4-5	4	-	4	-	4

Assessment: A welcome return to overall satisfactory ecological condition was noted in the Blackwater (Newtowngore) in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0180	Br W of Knockmore	215425	319694	26	CN
0200	Br NE of Sradrinan	216372	317085	26	LM
0300	Blackwater Br	219065	316053	0	CN
0400	Br d/s Blackwater Br	220277	314605	27	CN
0500	Ballymagauran Br	0	0	27	CN
0600	Br u/s Ballymagauran L	220800	313100	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0180	99	7	0	100	0	11	46	0	43	0	0
0200	67	19	0	100	0	8	41	0	49	0	1
0400	53	93	0	100	25	6	17	0	38	4	11

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKWATER (SWANLINBAR)** **36/B/03**
 Tributary of : 36S01 SWANLINBAR OS Catchment No: 123
 OS Grid Ref of Confluence: H 200 272
 Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1998	2001	2004	2007	2010
0400	4-5	4-5	4-5	5	5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Blackwater (Swanlinbar) in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br SE of Gorteen (on Tributary)	219252	325040	26	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	60	16	0	100	0	4	35	0	53	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNNOE**
 Tributary of : 36A02 ANNALEE
 OS Grid Ref of Confluence: H 505 124
 Date(s) Surveyed: 11/8/2010

36/B/05
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)												
	1983	1985	1987	1988	1989	1990	1993	1997	1998	2001	2004	2007	2010
0080	-	-	2	3	2-3	-	-	-	-	-	-	-	-
0090	-	-	-	-	-	-	3	3	3-4	3	4	4	3-4
0100	-	2-3	1	3	2	2-3	-	-	-	-	-	-	-
0200	-	-	2	2-3	2-3	-	-	-	-	-	-	-	-
0300	-	1	1-2	2-3	-	-	-	-	-	2-3	-	-	-
0400	1-2	3	1-2	2-3	3	-	3-4	4	-	3	4	3-4	3
0440	-	-	3	-	4	-	3-4	-	-	-	-	-	-
0500	3-4	4	4	-	3-4	-	3-4	3-4	3-4	3	3-4	-	3-4
0600	4-5	4	4-5	-	3-4	-	-	-	-	-	-	-	-
0700	4-5	4-5	4-5	-	3-4	-	4	3-4	3-4	3-4	3-4	4	3-4

Assessment: An unwelcome decline in ecological quality at three out of four sites sampled on the Bunnoe was noted in August 2010, and resulted in overall unsatisfactory conditions. Agriculture is suspected as the cause of the less than satisfactory state of the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br E of Manse	0	0	0	MN
0090	Rly Br Aghadrumkeen	261631	322968	28	MN
0100	Br SW of Aghadrumkeen	260906	322596	28	MN
0200	Br N of Corduff	0	0	0	MN
0300	Doohat Br	0	0	0	MN
0400	Dianmore Br	255171	318370	27	MN
0440	Br nr Ballinageeragh	0	0	0	MN
0500	Br W of Killynenagh L	252344	316054	27	CN
0600	Br E of Lisboduff	0	0	0	CN
0700	Br u/s Annalee R confl	250376	313112	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	98	8	100	0	98	2	0	0	0	0	0
0100	94	9	100	0	99	1	0	0	0	0	0
0400	89	54	100	0	96	0	0	0	0	1	3
0500	75	65	100	0	93	0	0	0	4	1	3
0700	61	80	100	0	87	0	0	0	10	1	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAVAN**
 Tributary of : 36A02 ANNALEE
 OS Grid Ref of Confluence: H 475 112
 Date(s) Surveyed: 30/6/2010

36/C/02
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)													
	1978	1980	1984	1986	1987	1989	1990	1993	1997	1998	2001	2004	2007	2010
0040	-	-	-	-	-	3	-	3-4	3	4	3	3	3	3
0085	-	-	-	-	-	-	-	3-4	4-5	4	4	4	4	4
0100	-	4-5	3-4	3-4	-	3	-	-	-	-	-	-	-	-
0200	1	1	1	2	2-3	2	2-3	3	-	-	-	-	-	-
0300	-	-	-	2	2	2-3	2-3	3	2-3	2-3	2-3	2-3	2-3	2
0400	2	2	2	2-3	2-3	2-3	-	3	2-3	2-3	2-3	2-3	2-3	2-3

Assessment: The Shantemon Lake Branch was again significantly polluted at Breffni Park (0040) in 2010. The main channel continued to be in a satisfactory ecological condition upstream of Cavan (0085). Once again quality deteriorated considerably below Cavan town (0300, 0400) where the river was very heavily silted and was characterised by excessive algal growth and a faunal composition indicative of considerable pollution. Unsatisfactory conditions have persisted downstream of Cavan town for over thirty years.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br nr Breffni Park	242062	303637	34	CN
0085	Br E of Thomascourt/Drumroosk	241582	301090	34	CN
0100	In Royal School Grounds	0	0	0	CN
0200	Br d/s Cavan (Lisdarn)	0	0	0	CN
0300	Br d/s St 0200	241294	306933	34	CN
0400	Br u/s Annalee R confl	240121	310116	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	62	58	90	10	92	1	1	3	2	0	0
0085	86	10	100	0	93	0	5	0	2	0	0
0300	50	67	87	13	90	1	1	6	2	0	0
0400	50	85	74	26	89	2	1	6	1	1	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CONAWARY (UPPER)**

36/C/11

Tributary of : Ulster Canal

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 14/7/2010

Station Nos.	Biological Quality Ratings (Q Values)				
	1998	2001	2004	2007	2010
0500	3	3*	2	3	3

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions in the Conawary (Upper), with agricultural causes suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br West Cornasoo	261029	328367	27	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	124	0	100	0	100	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CORNAVANNOGE**

36/C/04

Tributary of : Lough Macnean Upper

OS Catchment No: 123

OS Grid Ref of Confluence: H 026 389

Date(s) Surveyed: 19/8/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1997	1998	2005	2007	2010
0400	5	4-5	5	4-5	-	4	4
0600	5	4-5	5	4-5	4-5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Cornavannoge in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br NW of Ardvarney	196966	337633	26	LM
0600	Br u/s L Macnean	200874	337565	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	90	22	0	100	26	2	37	0	13	0	22
0600	64	39	0	100	20	6	32	0	26	0	17

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CULLIES**
 Tributary of : Lough Oughter
 OS Grid Ref of Confluence: H 256 013
 Date(s) Surveyed: 16/8/2010, 17/8/2010

36/C/03
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)													
	1977	1979	1981	1983	1985	1989	1990	1993	1997	1998	2001	2004	2007	2010
0050	-	-	-	3-4	-	4	-	-	-	-	-	n/s	-	-
0100	-	-	-	-	4	-	-	-	-	-	-	-	-	-
0200	-	-	4	4	3-4	-	-	-	-	-	-	-	-	-
0300	-	-	3-4	2	3-4	3	-	3	3	3-4	3*	4	3-4	3-4
0500	-	3	3-4	3	3-4	3-4	-	3	-	-	-	-	-	-
0550	-	-	4	3	4	2-3	-	3-4	3-4	3	3-4*	3-4*	3-4	3-4
0600	3	3	3-4	3	3-4	1-2	3-4	3-4	3-4	3	3	3*	3	3
0650	-	-	3-4	4	-	3	-	3-4	3-4	3-4	3*	3-4*	3-4	3-4
0750	4	3-4	4	3-4	4	2	3-4	3-4	3-4	3	4	4	-	3-4
0800	2-3	1-2	2	3	4	2	3	3	-	-	-	-	-	-
0900	-	-	2-3	2-3	3	2	2-3	2-3	2-3	3	2-3	3	3	3
1000	-	3	2-3	3	-	2-3	-	3	-	-	-	-	-	-

Assessment: Once again the Cullies River was in a generally unsatisfactory ecological condition when sampled in 2010. Moderate pollution was noted at both 0600 (Kilbrackan bridge) and 0900 (downstream of Killeshandra), and none of the six sites sampled were of satisfactory quality. Ecological quality in the reach below Killeshandra (0900) continued to be adversely affected by highly eutrophic lake outflows and by suspected sewage and industrial waste inputs. The overall unsatisfactory condition of the Cullies River is partly due to its slow-flowing, lake-influenced characteristics which reduce its self-purification and re-aeration capacity and low water levels in 2010 would have further exacerbated the effects of any pollutant inputs.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br u/s Garty L	228700	297700	34	CN
0100	In Arva d/s Garty L	0	0	34	CN
0200	Just u/s Lower L	227200	297300	34	CN
0300	Br u/s Gulladoo L	224525	299670	34	LM
0500	Ballygad Br	225300	301100	34	LM
0550	Br u/s Drumhart L	226258	302626	34	LM
0600	Kilbrackan Br	226255	304329	34	LM
0650	Br d/s Laheen L	226964	307657	34	CN
0750	Br d/s Disert L	228803	307807	34	CN
0800	Br u/s Town L	229900	308200	0	CN
0900	New Br	231389	308801	34	CN
1000	Br d/s Tullyguide L	232100	307500	34	CN

Hydrometric Area 36 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	58	80	100	0	90	1	4	1	3	2	1
0550	48	98	100	0	90	0	3	1	3	2	1
0600	49	108	100	0	90	0	3	0	2	3	1
0650	45	165	76	24	79	1	2	0	11	2	5
0750	46	170	74	26	79	1	2	0	10	3	5
0900	48	185	70	30	80	1	2	1	10	3	5

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRADDA STREAM** **36/D/07**
 Tributary of : 36B04 BLACKWATER (NEWTOWNGORE) OS Catchment No: 123
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 7/7/2010

Previously reported as part of the Blackwater (Newtowngore) 36B04

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1989	1993	1997	1998	2004	2007	2010
0040	-	-	-	5	4-5	4-5	4	4	4
0100	5	5	4-5	4-5	5	-	4-5	3/0	4-5

Assessment: A marked improvement in ecological quality was noted at Derrinivver Bridge (0100) during the 2010 survey of the Derradda stream, with the site now restored to its historically highly satisfactory condition. The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at the uppermost station, Drumderg bridge (0040).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Drumderg Br	212183	317447	26	CN
0100	Br NW of Sradrinan	215513	316965	0	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	85	6	0	100	0	17	41	0	19	0	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DROMORE**
 Tributary of : 36A02 ANNALEE
 OS Grid Ref of Confluence: H557 122
 Date(s) Surveyed: 10/8/2010, 12/7/2010

36/D/02
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1977	1980	1982	1984	1986	1989	1990	1993	1997	1998	2001	2004	2007	2010
0015	-	-	-	-	-	-	-	-	4	4-5	4	4	4-5	4	4
0016	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-
0036	-	-	-	-	-	-	3-4	-	4	3-4	3-4	3-4	3-4	4	4
0075	-	-	-	-	-	-	-	-	-	3	3	3	4	3-4	3-4
0090	-	-	-	-	-	-	1	3	3-4	3-4	3-4	3	3-4	-	3-4
0100	5	3	3-4	3	2	3-4	2	3	-	-	-	2-3	-	-	-
0150	-	-	2	2	2	3	2	3	3	3-4	3-4	-	3	3-4	3-4
0200	4	4	3-4	3-4	-	3-4	2-3	-	3	2-3	3	3	3-4	-	3
0300	4	2	3-4	3-4	3-4	3-4	3	-	3-4	3	3	3	3	3	3
0400	4	4	3-4	3-4	3-4	3-4	3-4	-	3	-	-	-	-	-	-
0500	-	-	4	4	3-4	3	3	-	3	3	3	3-4	3-4	3	3
0600	-	-	4	3-4	3-4	3	3	-	-	-	-	-	-	-	-
0700	4-5	2-3	3	4	3	3-4	3	-	3	3-4	3	3	3	3	3
0800	-	-	4	4-5	4	4	-	-	-	-	-	-	-	-	-
0900	4-5	4-5	4-5	4-5	4	4	3-4	-	4	4	4-5	4	4	3-4	3-4
0910	-	-	-	-	1	4	3-4	-	-	-	3	-	-	-	-

Assessment: Once again the Dromore remains in generally unsatisfactory ecological condition in 2010. Only the two uppermost sites (0015 and 0036) of the ten stations surveyed were in a satisfactory ecological condition. Signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive weed and/or algal growth, depressed DO and excessive siltation were apparent at all sites surveyed largely due to the effects of sewage and agriculture on the lakes along the rivers course, and the further effects of these lake outflows on the biota of the river itself.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br NE of Corryloan L (RHS)	278600	320800	28	MN
0016	Br NE of Corryloan L (LHS)	278600	320800	28	MN
0036	Br d/s Ballintra Br	274400	320100	28	MN
0075	Br SW of Bartley's Grove	269096	324195	28	MN
0090	Br SE of Edenaferkin	269573	322131	28	MN
0100	Br NE of Derryvalley Ho	269716	322178	28	MN
0150	Br in Ballybay	271686	320500	28	MN
0200	Br d/s L Major	271940	320165	28	MN
0300	Balladian Br	269589	319748	28	MN
0400	Ballycoghill Br	265980	317553	28	MN
0500	Ballynascarva Br	264655	316409	28	MN
0600	New Br N of Clementstown	259750	315155	27	CN
0700	Br W of Clementstown	259132	314766	27	CN
0800	Br N of Ashfield Lodge	257500	313800	27	CN
0900	Killycreeny Br (Mid)	255694	313094	27	CN
0910	Killycreeny Bridge (RHS)	255714	313118	27	CN

Hydrometric Area 36 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	98	7	100	0	95	0	0	0	5	0	0
0016	98	7	100	0	95	0	0	0	5	0	0
0036	80	45	100	0	94	0	2	0	4	0	0
0075	98	20	100	0	99	1	0	0	0	0	0
0090	88	30	100	0	98	1	0	0	1	0	0
0100	89	29	100	0	98	1	0	0	1	0	0
0150	79	40	100	0	98	1	0	0	1	0	0
0200	79	50	100	0	93	1	2	0	3	0	0
0300	78	118	100	0	96	1	1	1	2	0	0
0400	78	133	100	0	96	1	1	0	1	1	0
0500	80	166	100	0	95	1	1	0	2	1	0
0600	80	205	100	0	90	1	0	1	2	2	4
0700	76	216	100	0	90	1	0	1	3	2	4
0900	67	222	100	0	89	1	0	1	3	2	3
0910	67	222	100	0	89	1	0	1	3	2	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMANE STREAM**
 Tributary of : 36W01 WOODFORD (CAVAN)
 OS Grid Ref of Confluence: H 270 179
 Date(s) Surveyed: 8/7/2010

36/D/04
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1993	1997	1998	2001	2007	2010
0200	-	5	5	5	4-5	4	4-5
0500	4	4-5	-	4	4	-	-

Assessment: An increase in ecological condition from good to high quality was noted in this tributary of the Woodford river in 2010, characterised by the presence of a high diversity of sensitive macroinvertebrate taxa .

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br 3km W of Ballyconnell	224320	318415	27	CN
0500	Br u/s Woodford R confl	226818	317885	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	92	6	0	100	5	0	63	0	0	0	32
0500	49	14	0	100	39	0	29	0	0	0	32

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ERNE**

36/E/01

Tributary of : Sea - Ballyshannon

OS Catchment No: 123

OS Grid Ref of Confluence: G 877 614

Date(s) Surveyed: 19/8/2010, 28/6/2010, 29/6/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1973	1977	1979	1981	1984	1989	1993	1997	1998	2001	2004	2007	2010
0100	-	-	4	4	4	4-5	3-4	4	4	4	4	4	3-4	3-4
0200	-	-	-	-	5	5	2-3	4-5	4	3-4	3-4	4	3-4	3-4
0300	-	-	-	2-3	3-4	3-4	4-5	-	-	-	-	-	-	-
0400	-	-	-	4	3-4	3-4	2-3	3-4	3-4	3-4	3-4	3-4	-	3
0500	5	-	2	4	4	4	3-4	3-4	3-4	3-4	4	3-4	3	3-4
0600	-	-	-	5	5	5	4	-	-	-	-	-	-	-
0700	-	-	2-3	5	5	5	4	4	4	3-4	4	3-4	3-4	3-4
0900	5	5	3-4	3-4	3	3	3-4	3	3	3	3	3-4	3-4	3-4
1000	-	-	-	4	4-5	4	4	4	4	4	4	4	-	4
1100	5	5	4-5	4-5	4	4-5	4-5	4	4	4	4	4	3-4	3-4
1300	4-5	4	3	3	3	3-4	3-4	3-4	3-4	-	3-4	3-4	3-4	3-4
1400	4	-	-	-	3-4	3-4	3	3-4	3	3	3	3-4	3-4	3-4
1410	-	-	-	-	-	-	-	-	-	3	1	1	-	3-4
1500	-	4	4	4	3-4	3-4	3	-	-	-	-	-	-	-
1550	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4

Assessment: The Erne River system was in a generally unsatisfactory ecological condition when sampled in summer 2010. The decline in ecological quality noted in the upstream reaches (0100 and 0200) during the 2007 survey has been maintained in 2010, and only one out of twelve stations sampled was deemed of satisfactory quality (1000). Slight pollution extended downstream to Belturbet with excessive siltation and/or excessive algal/macrophyte growth noted at all stations sampled. The river is subject to over-enrichment from suspected agriculture and probably other sources. It is also affected by outflows from Loughs Gowna (at 0900) and Oughter (at 1300). Water transparency and faunal composition have improved markedly below Lough Oughter in recent years and this is attributed to the filtration activities of the populations of zebra mussel (*Dreissena* sp.) which have appeared since 2001.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 3km SW of Crosskeys	246239	295265	34	CN
0200	Derrin Br	242600	292915	34	CN
0300	Br 2km NW of Derrin Br	241412	293605	34	CN
0400	Br at Carrigan	239215	293185	34	CN
0500	Legwee Br	237669	292429	34	CN
0600	Br u/s Kilsarn Br	236600	290900	34	CN
0700	Kilsarn Br	235283	290632	34	CN
0900	Dingin's Br	233149	294883	34	CN
1000	Br E of Corlismore	235578	297398	34	CN
1100	Bellahillan Br	235617	301507	34	CN
1300	Baker's Br	237780	312584	27	CN
1400	Br at Kilconny Belturbet (RHS)	236117	317097	27	CN
1410	Kilconny Belturbet (LHS)	236211	317269	27	CN
1500	2.5km d/s Belturbet	236797	319378	27	CN
1550	Rosscor Viaduct	198657	358678	17	FH

Hydrometric Area 36 (2010)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	99	19	100	0	93	0	5	1	0	0	0
0200	84	42	100	0	95	0	3	1	0	0	1
0300	81	53	100	0	93	0	3	3	0	1	1
0400	76	66	100	0	92	0	4	2	0	1	1
0500	71	83	100	0	91	0	6	2	0	1	0
0700	64	96	100	0	91	0	6	1	0	1	0
0900	62	278	92	8	86	1	5	1	1	6	2
1000	53	291	92	8	86	1	5	1	1	5	2
1100	48	336	93	7	87	1	4	1	1	5	2
1300	48	1483	88	12	84	1	2	1	7	3	3
1400	47	1492	88	12	84	1	2	1	7	3	3
1410	47	1496	87	13	84	1	2	1	7	3	3
1500	47	1507	87	13	84	1	2	1	7	3	3
1550	N/A	0	0	0	0	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINN (MONAGHAN)**

36/F/01

Tributary of : Upper Lough Erne

OS Catchment No: 123

OS Grid Ref of Confluence: H 422 200

Date(s) Surveyed: 15/7/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1973	1977	1980	1982	1984	1989	1993	1997	1998	2001	2004	2007	2010
0010	-	-	-	-	-	-	3-4	4-5	4-5	4	3	3-4*	4	4
0080	-	-	-	-	-	-	3	4	3	4	4	4	-	3-4
0100	5	5	4-5	4	4-5	4-5	3-4	4	3-4	4	3-4	3-4	3	3-4
0200	5	4-5	4-5	4	4	4	3-4	4	3	3-4	3	4	3-4	3-4
0400	-	-	3-4	3-4	3-4	3-4	3-4	3	3-4	3-4	3	4	-	3-4
0500	3-4	3	1	3	3	3	3	3	3	3	3	3-4	3-4	3-4
0600	-	-	-	-	3	3	3	-	-	-	-	-	-	-

Assessment: The macroinvertebrate fauna continues to indicate generally unsatisfactory ecological conditions on the Finn (Monaghan) in 2010. Only the uppermost Station 0010 (SW of Shanroe) showed satisfactory standards out of the six sites sampled. Low DO (dissolved oxygen) levels were recorded below the Magherarney confluence (station 0400 - 87%) and again below Clones (station 0500 -75%).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br at Mill NW of Kilcreen	256057	335418	27	MN
0080	E of Aghafin Lough	252797	329862	27	MN
0100	Stone Br	254401	328407	27	MN
0200	Annamakiff Br	254563	326483	27	MN
0400	Scarvy Br	251806	324610	27	MN
0500	Cumber Br	249939	323331	27	MN
0600	Annie's Br	0	0	0	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	80	1	0	100	100	0	0	0	0	0	0
0080	56	1	0	100	94	6	0	0	0	0	0
0100	56	5	0	100	99	1	0	0	1	0	0
0200	48	79	26	74	95	1	1	0	0	0	2
0400	47	103	43	57	97	1	1	0	0	0	1
0500	47	118	41	59	96	1	1	1	0	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KNAPPAGH**
 Tributary of : 36A02 ANNALEE
 OS Grid Ref of Confluence: H 678 099
 Date(s) Surveyed: 2/7/2010

36/K/01
 OS Catchment No: 123

Station Nos.							Biological Quality Ratings (Q Values)				
	1977	1981	1985	1989	1993	1997	1998	2001	2004	2007	2010
0200	-	4	3-4	3-4	3	3	3	3*	4	3	3-4
0400	4	4	3-4	3	3-4	3	3	3-4*	3-4*	-	3
0700	-	4-5	4	3	3-4	3-4	3	3-4*	4	3-4	3-4

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions at all sites on the Knappagh in 2010. Signs of moderate pollution such as paucity of pollution sensitive macroinvertebrates, excessive weed and algal growth, excessive siltation and low DO (77%) were apparent at Lacken bridge (0400), exacerbated by lake effects.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Bellatrain L	274468	310701	28	MN
0400	Lacken Br	270618	311430	28	MN
0700	Br u/s Annalee R confl	267974	310045	28	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	106	44	100	0	86	0	0	1	9	4	0
0400	108	66	100	0	81	2	0	1	12	4	0
0700	86	79	100	0	82	1	0	1	12	4	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LAHEEN STREAM**

36/L/02

Tributary of : 36C03 CULLIES

OS Catchment No: 123

OS Grid Ref of Confluence: H 266 075

Date(s) Surveyed: 17/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1997	1998	2001	2004	2007	2010
0300	-	4	4	4	3*	4-5	4	4
0600	-	3-4	3-4	3	3*	-	3-4	3-4
0800	3	3-4	3-4	3	3*	3-4	3-4	3-4

Assessment: The upper reaches of the Laheen Stream (0300) remained in a satisfactory ecological condition in 2010, while the downstream quality (0600 & 0800) remains unsatisfactory once again. Signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive weed and/or algal growth, excessive siltation and depressed DO were apparent at both sites, indicating eutrophication.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W of Aghavilla	221091	305820	34	LM
0600	Br SW of Drummercross	224215	307477	34	LM
0800	Br u/s Cullies R confl	226482	307687	34	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	63	10	38	62	24	0	0	0	36	3	37
0600	55	31	18	82	42	0	0	0	39	1	18
0800	49	38	14	86	48	0	1	0	36	1	14

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LARAGH**
 Tributary of : 36A02 ANNALEE
 OS Grid Ref of Confluence: H 532 117
 Date(s) Surveyed: 5/8/2010

36/L/01
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1978	1982	1986	1989	1993	1997	1998	2001	2004	2007	2010
0030	-	-	-	-	4	-	4-5	4-5	4	4-5	4	4
0080	-	-	-	-	-	4-5	4-5	4-5	4	4	3-4	4
0400	4-5	4	4-5	5	4-5	4-5	4-5	4-5	3-4	3-4	3-4	4

Assessment: A welcome return to overall satisfactory ecological conditions was noted in the Laragh in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br WSW of Knockataggart	254202	301997	35	CN
0080	Laragh Br	251393	305216	34	CN
0400	Main Rd Br u/s Annalee R	252908	311299	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	126	25	100	0	95	0	0	0	2	2	1
0080	83	45	99	1	92	0	1	0	2	1	4
0400	61	99	92	8	95	0	1	0	1	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEGA STREAM**

36/L/03

Tributary of : Gulladoo Lough

OS Catchment No: 123

OS Grid Ref of Confluence: N 233 992

Date(s) Surveyed: 16/8/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1989	1990	1993	1997	1998	2001	2004	2007	2010	
0100	4-5	-	4	-	-	-	n/s	-	-	
0200	3	-	-	-	-	-	-	-	-	
0300	1-2	4	3	4	3	3*	4	3-4	3-4	
0600	1	2-3	3	3	3	3-4	-	-	-	
0700	3	-	3	4	3	3-4	3-4*	3-4*	3-4*	

Assessment: Heavy siltation and eutrophic lake outflows continue to adversely affect this sluggish stream. The Legga Stream remains in an unsatisfactory ecological condition in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Corglass Lough	0	0	34	LD
0200	Br d/s Corglass Lough	0	0	34	LD
0300	1st Br d/s Doogary L	220291	296202	34	LM
0600	Farmullagh Br	221845	297091	34	LM
0700	Drumury Br	223332	298973	34	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	55	21	100	0	85	2	9	0	0	0	3
0600	58	29	100	0	84	2	7	0	4	0	3
0700	50	3	100	0	87	0	0	0	13	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MADABAWN STREAM**

36/M/02

Tributary of : 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of Confluence: H 650 100

Date(s) Surveyed: 2/7/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1979	1980	1982	1984	1986	1989	1990	1993	1997	1998	2001	2004	2007	2010
0070	-	-	-	-	-	2	3	4	3-4	3-4	3	3-4	3-4	3-4
0100	-	-	1/0	1	2	3	-	-	-	-	-	-	-	-
0200	-	-	3/0	1	3	3	-	4	4	3	4	4	4	4
0380	-	-	-	-	-	3	-	-	-	-	-	-	-	-
0400	-	-	3-4	-	3	3	-	-	-	-	-	-	-	-
0500	-	-	1	4	3	-	-	-	-	-	-	-	-	-
0600	3-4	3-4	3-4	3	3	3	-	4	4	4	3-4	4	3-4	4

Assessment: A welcome improvement in ecological condition was noted upstream of the Annalee River confluence (0600) on the Madabawn stream in 2010. Only the uppermost station at Canningstown (0070) was in unsatisfactory condition with excessive siltation and dominance of pollution tolerant macroinvertebrates noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	S Br Canningstown	262565	303872	35	CN
0100	Br W of Corranearry Lough	0	0	35	CN
0200	Lucas's Br	264362	307310	35	CN
0380	Br u/s NW Branch confl	0	0	35	CN
0400	Br u/s E Branch confl	0	0	35	CN
0500	Br NW of Kilnacrew	0	0	35	CN
0600	Br u/s Annalee R confl	264547	309860	35	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	120	14	100	0	58	0	0	0	42	0	0
0200	92	20	100	0	56	0	0	0	44	0	0
0600	78	43	100	0	65	0	0	0	35	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAGHERARNEY**

36/M/01

Tributary of : 36F01 FINN (MONAGHAN)

OS Catchment No: 123

OS Grid Ref of Confluence: H 556 280

Date(s) Surveyed: 14/7/2010

Station Nos.	Biological Quality Ratings (Q Values)													
	1973	1977	1980	1982	1986	1987	1989	1993	1997	1998	2001	2004	2007	2010
0100	-	-	3	3	-	3	2-3	-	-	-	-	n/s	-	-
0150	-	-	-	-	-	3	3	3	3	3	2-3	3	-	3
0200	5	3	2-3	2	2	2-3	2-3	3	3	3	2/0	3	3	3
0250	-	-	-	-	-	-	2-3	-	-	-	-	-	-	-
0300	-	-	-	-	2-3	-	3	-	-	-	-	-	-	-

Assessment: Unsatisfactory ecological conditions have persisted in the Magherarney river for over thirty years, a situation which still prevails at all sites in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2 km NE of Smithborough	260611	331794	28	MN
0150	Br E of Smithborough	259808	330603	27	MN
0200	Magherarney Br	257868	329856	27	MN
0250	0.2km u/s Maghery R confl	0	0	27	MN
0300	0.2km d/s Maghery R confl	0	0	27	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	16	0	100	97	2	0	0	0	0	0
0150	56	21	6	94	98	2	0	0	0	0	0
0200	52	28	18	82	98	1	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAGHERY**
 Tributary of : 36M01 MAGHERARNEY
 OS Grid Ref of Confluence: H 574 293
 Date(s) Surveyed: 14/7/2010

36/M/03
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)								
	1986	1989	1993	1997	1998	2001	2004	2007	2010
0100	-	3	-	-	-	-	-	-	-
0200	-	3	3-4	3	3	3	3	-	2-3
0600	-	2-3	3-4	-	-	-	3	3-4	2-3
0900	-	-	-	3	3	2-3	3	-	3
1000	-	3	3-4	-	-	-	-	-	-
1200	2-3	2-3	3	3	3	3	3	3	3

Assessment: Persistent unsatisfactory ecological conditions are a feature of the Maghera river, and there has been no change in 2010. The very restricted faunal diversity and the complete absence of sensitive macroinvertebrate species point to something amiss in this shallow stony stream, with agricultural causes suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Lennaght Br	0	0	27	MN
0200	Br SW of Kilmore L	254990	336826	27	MN
0600	Br WSW of Drumloo L	257160	335850	0	MN
0900	Wats Br	256817	333997	27	MN
1000	Br NW of Maghera	0	0	27	MN
1200	Hagan's Br	256957	330156	27	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	101	4	0	100	42	12	22	0	4	0	20
0900	65	10	0	100	69	5	10	0	2	0	14
1200	54	19	0	100	84	3	5	0	1	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENSALLAGH** **36/O/01**
 Tributary of : 36B03 BLACKWATER (SWANLINBAR) OS Catchment No: 123
 OS Grid Ref of Confluence: H 188 240
 Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1993	1997	1998	2001	2004	2007	2010
0500	5	5	3-4*	4-5	4-5	4	4

Assessment: This small tributary of the Blackwater (Swanlinbar) maintained its satisfactory ecological status in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br E of Drumcor	218498	323375	26	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	67	9	0	100	0	7	60	0	22	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RAG (CAVAN)**

36/R/01

Tributary of : 36W01 WOODFORD (CAVAN)

OS Catchment No: 123

OS Grid Ref of Confluence: H 347 207

Date(s) Surveyed: 29/6/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1982	1985	1989	1993	1997	1998	2001	2004	2007	2010
0100	3	2-3	-	-	-	-	-	n/s	-	-
0200	3	2-3	-	-	-	-	-	-	-	-
0300	3-4	3	-	-	-	-	-	-	-	-
0400	3-4	3	-	-	-	-	-	-	-	-
0500	3-4	3	3	-	-	-	-	-	-	-
0600	4	3	2-3	3	3	-	3-4	3-4	-	3
0700	3-4	3-4	-	-	-	-	-	-	-	-
0800	1	4-5	2-3	3	3	3-4	4	4	4	4
0900	4	4	3	3	3	-	-	-	-	-

Assessment: Lake influences reduced biological diversity below Killywilly Lake (0600) but the presence of some of the more pollution sensitive species indicated satisfactory water quality conditions in the lower reaches (0800) of the Rag river in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Clonty L*	0	0	27	CN
0200	Br d/s Clonty L*	0	0	27	CN
0300	Br 0.6km d/s St 0200*	0	0	27	CN
0400	Br d/s Togher L*	0	0	27	CN
0500	Br d/s Aghavoher L*	0	0	27	CN
0600	Br nr Killywilly Ho	230360	317920	27	CN
0700	Br d/s Tomkinroad L	0	0	27	CN
0800	Br u/s Tee L Lr	232598	318019	27	CN
0900	Br d/s Tee L Lr	234536	318459	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	47	31	0	100	63	0	11	3	20	2	0
0800	49	49	0	100	66	1	7	2	20	3	2
0900	48	52	0	100	68	1	7	2	18	2	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROO**

36/R/02

Tributary of :

OS Catchment No: 123

OS Grid Ref of Confluence: H 058 380

Date(s) Surveyed: 19/8/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1997	1998	2005	2007	2010
0200	4	4-5	4	4	-	5	5
0400	-	-	-	3-4	-	-	-
0500	4	4	-	-	4	-	4

Assessment: Despite low water levels, satisfactory ecological condition was maintained at both sites sampled in the Roo in 2010, with station 0200 (west of Barran) retaining its high quality status .

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br W of Barran	203133	335566	26	CN
0400	Br SE of Upper Thornhill House	204197	336692	26	CN
0500	Br u/s L Macnean	205140	337575	26	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	81	4	0	100	12	0	49	0	30	0	9
0400	69	7	0	100	11	0	35	0	36	0	17

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **STRADONE**
 Tributary of : 36L01 LARAGH
 OS Grid Ref of Confluence: H 532 117
 Date(s) Surveyed: 5/8/2010

36/S/02
 OS Catchment No: 123

Station Nos.							Biological Quality Ratings (Q Values)				
	1978	1982	1986	1989	1993	1997	1998	2001	2004	2007	2010
0075	-	-	-	4-5	3-4	4	3-4	4	4	-	4
0100	4	3-4	3-4	-	-	-	-	-	-	-	-
0120	-	-	-	3-4	3-4	-	-	-	-	-	-
0200	4-5	4	4	4-5	4-5	4	3-4	4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Stradone in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0075	2nd Br d/s L Alion	249085	302183	34	CN
0100	Br d/s Lisnaneanagh L	249900	303400	34	CN
0120	2nd Br d/s Lisnaneanagh L	0	0	34	CN
0200	Drumcrow Br	250002	304862	34	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0075	91	16	100	0	100	0	0	0	0	0	0
0200	80	24	94	6	99	0	0	0	1	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SWANLINBAR**

36/S/01

Tributary of : Upper Lough Erne

OS Catchment No: 123

OS Grid Ref of Confluence: H 265 327

Date(s) Surveyed: 8/7/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1977	1981	1985	1989	1993	1997	1998	2001	2004	2007	2010
0100	5	5	5	5	5	5	5	4-5	4-5	4-5	4-5
0200	5	5	5	5	5	-	-	-	n/s	-	-
0300	5	5	5	4	4-5	4-5	4-5	4-5	3-4	4	4-5

Assessment: The Swanlinbar was in a highly satisfactory ecological condition when sampled in July 2010. The macroinvertebrate fauna indicated a further improvement in ecological quality downstream of Swanlinbar village (0300) since the 2007 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Commas Br	214898	324800	26	CN
0200	0.1km u/s Swanlinbar Br	219000	327200	0	CN
0300	0.6km d/s Swanlinbar Br	219750	327141	26	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	214	11	0	100	0	9	91	0	0	0	0
0300	59	22	0	100	0	6	71	0	14	0	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TEMPLEPORT LAKE STREAM** **36/T/01**
 Tributary of : 36B07 BAWNBOY OS Catchment No: 123
 OS Grid Ref of Confluence: H 207 163
 Date(s) Surveyed: 8/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1982	1989	1993	1997	1998	2001	2004	2010
0600	4	3	3	3	4	3	3/0	3-4

Assessment: Despite a slight improvement in the macroinvertebrate fauna, Templeport Lake stream remains in unsatisfactory ecological condition in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br u/s Templeport L	222189	316463	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	57	11	0	100	74	1	6	0	5	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **WATERFOOT**
 Tributary of : Lower Lough Erne
 OS Grid Ref of Confluence: H 097 650
 Date(s) Surveyed: 19/8/2010

36/W/03
 OS Catchment No: 123

Station Nos.	Biological Quality Ratings (Q Values)			
	2000	2002	2007	2010
0700	4-5	4-5	4-5	4-5

Assessment: The Waterfoot was unpolluted where sampled at Letter Bridge (0700) in 2010 .

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Letter Br	208500	365143	17	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	0	15	100	0	1	3	36	0	17	0	44

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **YELLOW (BALLINAMORE)**

36/Y/01

Tributary of : Garadice Lake

OS Catchment No: 123

OS Grid Ref of Confluence: H 168 110

Date(s) Surveyed: 7/7/2010

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1977	1981	1985	1989	1993	1997	1998	2001	2004	2007	2010
0050	-	-	-	-	-	4	4	4	2/0	4	4	3*	4
0100	-	-	-	5	5	-	-	-	4	-	-	-	-
0200	-	-	-	5	5	4	5	4-5	4	4-5	4	4	4
0300	-	-	-	-	-	3	5	-	-	-	-	-	-
0330	-	-	-	-	-	-	-	5	-	-	-	-	-
0340	-	-	-	-	-	3	-	-	-	-	-	-	-
0400	-	-	4-5	5	4-5	4-5	-	-	-	-	-	-	-
0600	3-4	4-5	4	4-5	4	4-5	-	-	-	-	-	-	-
0700	4	4-5	4-5	5	4	-	-	-	-	-	-	-	-
0800	4	5	4-5	5	4	3-4	-	-	-	-	-	-	-

Assessment: A welcome improvement in ecological condition at Stralongford bridge (0050) was noted during the survey, resulting in overall satisfactory conditions on the Yellow (Ballinamore) in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Stralongford Br	207422	316829	26	LM
0100	Br E of Boggaun	207906	314942	26	LM
0200	Br SE of Greaghglass	208193	312999	26	LM
0300	Br WNW of Mayo	209200	311900	26	LM
0330	Br just u/s Johns L	209605	310854	26	LM
0340	Br d/s St John's Lough	0	0	26	LM
0400	0.6km u/s Ballinamore Br	212400	311900	26	LM
0600	Br nr Riverdale (Aghoo)	213300	308900	26	LM
0700	Br at Derrygoan	215600	309500	26	LM
0800	S Br nr Aghyowla	216400	311000	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	162	12	0	100	0	48	52	0	0	0	0
0100	120	17	0	100	0	45	44	0	10	0	1
0200	76	19	0	100	3	40	39	0	17	0	1
0330	60	100	2	98	38	3	19	0	27	7	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

NWIRBD: HYDROMETRIC AREA NO. 36

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 - 2012.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Aghacashlaun	2010	36A03	7.5	8.5	0.0	0.0	0.0	16.0	
Aghnacliffe Stream	2010	36A06	5.0	0.0	0.0	0.0	0.0	5.0	
Annadale Stream	2010	36A05	0.0	8.5	1.5	0.0	0.0	10.0	
Annalee	2010	36A02	0.0	35.6	11.0	2.4	0.0	49.0	
Avaghon lake Stream	2010	36A07	0.0	0.0	0.0	3.0	0.0	3.0	
Bawnboy	2010	36B07	0.0	5.4	0.0	1.6	0.0	7.0	
Blackwater (Newtowngore)	2010	36B04	9.2	9.4	0.0	0.0	0.0	18.5	
Blackwater (Swanlinbar)	2010	36B03	0.0	2.5	0.0	0.0	0.0	2.5	
Bunnoe	2010	36B05	0.0	0.0	18.1	2.9	0.0	21.0	
Cavan	2010/11	36C02	0.0	14.0	0.0	7.0	0.0	21.0	
Conawary (Upper)	2010	36C11	0.0	0.0	0.0	5.0	0.0	5.0	
Cornavannoge	2010	36C04	0.0	16.0	0.0	0.0	0.0	16.0	
Cullies	2010	36C03	0.0	0.0	12.5	3.5	0.0	16.0	
Derradda Stream	2010	36D07	4.6	5.0	0.0	0.0	0.0	9.5	
Dromore	2010	36D02	0.0	8.5	16.0	11.5	0.0	36.0	
Drumane Stream	2010	36D04	5.0	0.0	0.0	0.0	0.0	5.0	
Erne	2010	36E01	0.0	8.4	49.8	1.9	0.0	60.0	
Finn (Monaghan)	2010	36F01	0.0	4.5	20.0	0.0	0.0	24.5	
Knappagh	2010	36K01	0.0	0.0	5.3	2.2	0.0	7.5	
Laheen Stream	2010	36L02	0.0	6.5	4.5	0.0	0.0	11.0	
Laragh	2010	36L01	0.0	21.5	0.0	0.0	0.0	21.5	
Legga Stream	2010	36L03	0.0	0.0	5.0	0.0	0.0	5.0	
Madabawn Stream	2010	36M02	0.0	6.5	4.0	0.0	0.0	10.5	
Magherarney	2010	36M01	0.0	0.0	0.0	8.0	0.0	8.0	
Maghery	2010	36M03	0.0	0.0	0.0	15.5	0.0	15.5	
Owensallagh	2010	36O01	0.0	9.0	0.0	0.0	0.0	9.0	
Rag (Cavan)	2010	36R01	0.0	5.5	1.2	0.9	0.0	7.5	
Roo	2010	36R02	5.0	1.0	0.0	0.0	0.0	6.0	
Stradone	2010	36S02	0.0	7.0	0.0	0.0	0.0	7.0	
Swanlinbar	2010	36S01	12.0	0.0	0.0	0.0	0.0	12.0	
Templeport L Stream	2010	36T01	0.0	0.0	2.5	0.0	0.0	2.5	
Waterfoot	2010	36W03	6.5	0.0	0.0	0.0	0.0	6.5	
Yellow (Ballinamore)	2010	36Y01	0.0	13.0	0.0	0.0	0.0	13.0	
Total Length (km) surveyed this cycle			54.7	196.2	151.3	65.3	0.0	467.5	
Adjustments			0.0	0.0	2.5	0.0	0.0	2.5	
Current Length (km) Adjusted			54.7	196.2	148.8	65.3	0.0	465.0	
Percentages			11.8	42.2	32.0	14.0	0.0	100.0	
Channel Length (km) in Class			2010 - '12		A	B	C	D	Total
Baseline : Current Adjusted Status (km)					250.9	148.8	65.3	0.0	465.0
Percentages					54.0	32.0	14.0	0.0	100.0
Baseline: Previous Unadjusted Status (km)**			2007 - '09		35.0	207.0	171.2	51.9	465.0
Percentages					7.5	44.5	36.8	11.2	100.0
Changes since Previous Survey (km)					19.7	-10.8	-22.4	13.4	0.0

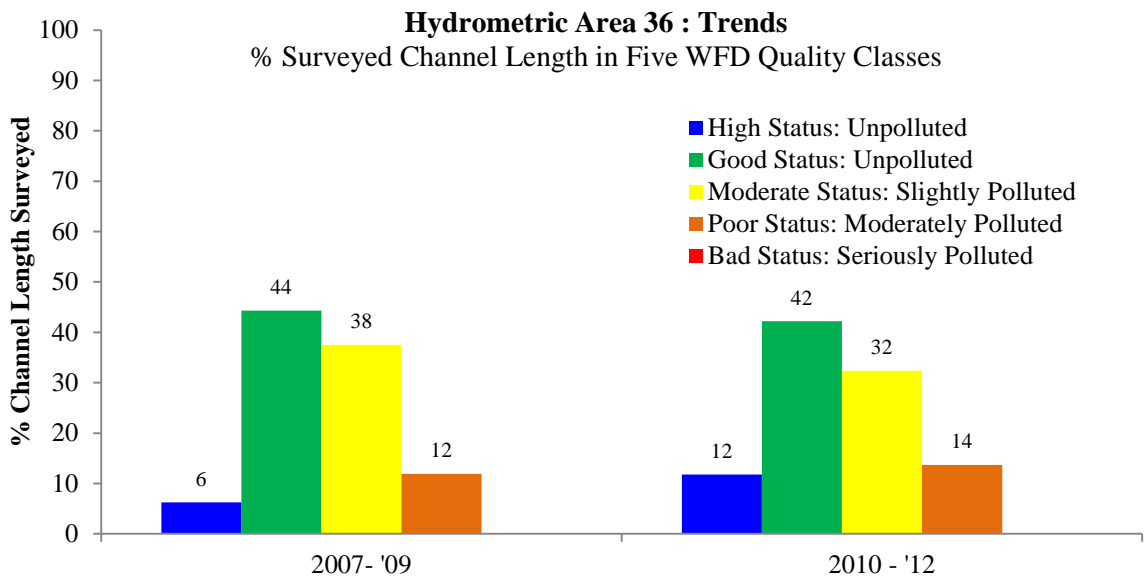
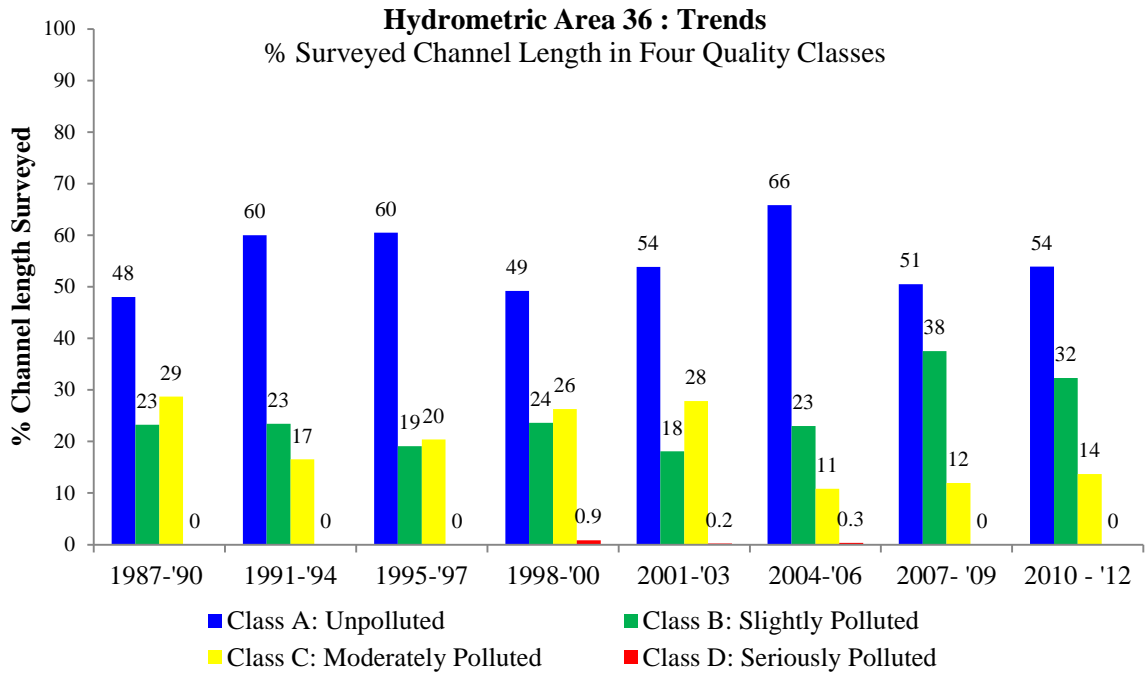
*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Templeport Lake Stream (36T01) added back into the programme in 2010.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of Sites at WFD Status	2007-'09	2010-'12
High	5	9
Good	28	34
Moderate	35	39
Poor	18	24
Bad	0	0
<hr/>		
Total number of sites surveyed	86	106
Total number of sites at unsatisfactory status	53	63



HYDROMETRIC AREA 37 (Donegal Bay North: Partial Survey)

Partial Survey Only, Balance of Survey in 2011

BALLAGHDOO	37B01
FINTRAGH	37F01
GLENADDRAGH	37G02
LOUGHADEERY	37L03
ROECHROW	37R01
STRAGAR	37S02

River and Code : **BALLAGHDOO**
 Tributary of : 37G02 GLENADDRAGH
 OS Grid Ref of Confluence: G 616 761
 Date(s) Surveyed: 16/8/2010

37/B/01
 OS Catchment No: 53

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005	2008	2010
0025	-	-	-	-	-	-	-	-	-	-	3-4	-
0050	-	-	-	-	-	-	-	-	-	-	2/0	3
0075	-	-	-	-	-	-	-	-	-	-	3	-
0100	5	4	5	5	4-5	-	-	4-5	-	-	2-3	2-3
0200	-	-	1/0	4-5	4-5	1/0	4	3/0	4	3	2-3	2-3

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Ballaghdoon in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br. SW Crowanrudda	164295	380570	10	DL
0050	Br WNW Meenychanon	163162	379485	10	DL
0075	WNW Ballymoon	162405	378640	10	DL
0100	Cashling's Bridge	161707	377569	10	DL
0200	Bridge in Kilcar	161590	376065	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	43	16	100	0	23	7	61	0	0	0	9
0200	10	38	100	0	14	14	60	0	3	0	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINTRAGH**
 Tributary of : Sea - Fintragh Bay
 OS Grid Ref of Confluence: G 691 766
 Date(s) Surveyed: 17/8/2010

37/F/01
 OS Catchment No: g6

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1999	2002	2005	2008	2010
0100	5	4-5	5	4-5	4-5	4-5	4-5	4-5

Assessment: Highly satisfactory ecological conditions were recorded in the Fintragh in 2010, a situation unchanged in almost twenty years of surveying this river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Corrin Lodge	169353	376874	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	23	8	100	0	6	0	90	0	2	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENADDRAUGH**

37/G/02

Tributary of : Sea - Tawny Bay

OS Catchment No: 53

OS Grid Ref of Confluence: G 610 755

Date(s) Surveyed: 16/8/2010, 17/8/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005	2008	2010
0050	-	-	-	-	-	-	-	-	-	-	-	3
0100	5	5	5	5	5	5	5	4-5	4-5	4	3-4/0	2-3
0150	5	5	5	5	4-5	-	-	-	-	-	3	-
0190	-	-	4	-	5	4-5	-	-	-	-	3/0	3
0195	-	-	-	-	-	-	-	-	4	3	3/0	-
0200	-	3	1/0	4	4-5	3/0	4	3/0	-	-	-	2-3

Assessment: Unsatisfactory ecological conditions were once again recorded at all sites sampled on the Glenaddragh in 2010. Forestry, clear-felling and new planting and sheep dip usage are all potential contributors to the on-going problems observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	SW Fintragh	166485	378625	10	DL
0100	Bridge S.W. of Meenboy	164781	377014	10	DL
0150	Bridge 1.5 km E. of Kilcar (upstream)	162875	375990	0	DL
0190	75 m u/s Ballaghdoe River	161679	376071	10	DL
0195	0.3km d.s Ballaghdoe R Confl	161500	375981	0	DL
0200	0.5 km d/s Ballaghdoe River confl	161383	375818	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	120	12	100	0	0	34	50	0	5	0	11
0200	8	38	100	0	14	14	59	0	3	0	10

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGHADEERY**

37/L/03

Tributary of : 37S02 STRAGAR

OS Catchment No: 54

OS Grid Ref of Confluence: G 729 804

Date(s) Surveyed: 18/8/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1999	2002	2005	2008	2010
0100	-	4	4-5	4-5	-	4	-	4
0300	5	-	-	-	3-4*	3-4	4	4

Assessment: Satisfactory ecological conditions have been maintained at both sites sampled on the Loughadeery in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just d/s trib from L. Aroshin	170486	380441	10	DL
0300	Bungosteen Bridge	172975	380610	10	DL

River and Code : **ROECHROW**
 Tributary of : 37S02 STRAGAR
 OS Grid Ref of Confluence: G 741 825
 Date(s) Surveyed: 17/8/2010

37/R/01
 OS Catchment No: 54

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1999	2002	2005	2008	2010
0100	-	-	-	-	-	2/0	2/0	3
0200	4-5	5	4-5	4-5	3-4	2/0	3	4

Assessment: A welcome improvement in both sites sampled was recorded on the Roechrow in 2010, although unsatisfactory ecological conditions persist at the upper station (0100). The lower Roechrow (0200) has reached satisfactory conditions for the first time in ten years.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	N Br SSW Meenateia	171076	384276	10	DL
0200	Br u/s Stragar R. confl.	173665	383090	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	7	100	0	0	23	65	0	5	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **STRAGAR**
 Tributary of :
 OS Grid Ref of Confluence: G 728 780
 Date(s) Surveyed: 17/8/2010

37/S/02
 OS Catchment No: 54

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1985	1990	1994	1997	1999	2002	2005	2008	2010
0100	5	5	5	4	4-5	4-5	4	3-4	4-5	3-4
0180	-	-	-	-	-	-	3	3	4	-
0200	5	4	5	5	-	-	-	-	-	-
0300	-	-	-	-	4-5	4-5	-	3	4	-
0400	-	-	-	-	-	-	-	-	-	-

Assessment: A very disappointing decline to unsatisfactory ecological condition was recorded on the Stragar in 2010, with a paucity of sensitive macroinvertebrate taxa noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Meentullynagarn Br	174211	382791	10	DL
0180	E Faiafannan	172765	379440	0	DL
0200	Br W Five Points	172910	379005	10	DL
0300	Br SW of Tullagha	172945	378576	10	DL
0400	Br u/s Killybegs Harbour	172940	378145	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	83	10	100	0	0	7	67	0	7	0	19
0300	9	36	100	0	0	11	66	0	14	1	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 39 (Lough Swilly)	
AGHAWHEEL	39A01
BULLABA	39B01
BURNFOOT	39B02
CASHELNACOR	39C01
CORRAVADDY BURN	39C03
CRANA	39C02
DOOBALLAGH BURN	39D02
DRUMBARNET STREAM	39D03
DRUMHALLAGH	39D01
GLASHAGH (CRANA)	39G06
GLASHAGH (LOWER)	39G02
GLASHAGH (UPPER)	39G01
GLASKEELAN	39G05
GLENALLA	39G03
GLENVAR	39G04
LEANNAN	39L01
LESLIE HILL STREAM	39L05
LOWNAGH	39L04
LURGY	39L02
# MAGGY'S BURN	39M01
MILL (DONEGAL)	39M02
OWENBOY (CRANA)	39O04
OWENERK	39O02
OWENNASOP	39O05
OWENWEE (LOUGH GARTAN)	39O03
SKEOGE	39S01
SWILLY	39S02

indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **AGHAWHEEL**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 305 377
 Date(s) Surveyed: 20/7/2010

39/A/01
 OS Catchment No: a7

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1989	1991	1996	1998	2001	2004	2007	2010
0100	1	2-3/0	3/0	1-2	-	-	-	-	-	-
0300	2/0	-	3	-	3	3	3	3	-	3
0400	2/0	2-3/0	4	4	4-5	3	4	4-5	4	4

Assessment: The upper Aghaweel (0300) remained moderately polluted when surveyed in July 2010, while more satisfactory conditions were noted downstream (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Corveen	234043	437779	0	DL
0300	Ballyannan Bridge	232232	437679	3	DL
0400	Castle Ross Bridge	230783	437959	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	69	3	100	0	1	15	43	0	19	0	22
0400	23	10	100	0	23	4	32	0	28	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BULLABA**
 Tributary of : Lough Gartan
 OS Grid Ref of Confluence: C 037 148
 Date(s) Surveyed: 27/7/2010

39/B/01
 OS Catchment No: 31

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2004	2007	2010
0100	5	5	5	5	5	5	5	5

Assessment: The Bullaba drains a pristine upland area which is quite acidic, and has a typically sparse fauna. There was no change from satisfactory ecological condition when surveyed in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Roadside 0.6 km u/s Owenwee River	201100	413760	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	79	15	100	0	0	0	68	0	0	0	32

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BURNFOOT**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 352 238
 Date(s) Surveyed: 29/7/2010

39/B/02
 OS Catchment No: 35

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1991	1996	1998	2004	2007	2010
0100	3	4-5	-	-	-	-	-
0200	4-5	4-5	4-5	4-5	3-4	-	3
0500	3	4	-	-	-	-	-
0600	3-4	4-5	4	4	4	3-4	3

Assessment: The Burnfoot was found to be moderately polluted at both sites surveyed in 2010, a decline in quality since last surveyed. The upstream site (0200) is impacted by the nearby quarry, while a serious sewage problem was observed at the downstream site (0600) in Burnfoot village.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S Thompsons Town	244232	425630	0	DL
0200	Br SW of Gortcormacan	241721	424590	7	DL
0500	Glen Br	240392	424257	0	DL
0600	Bridge in Burnfoot	237963	423688	7	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	36	10	100	0	42	4	24	2	10	0	19
0600	8	21	100	0	49	2	19	2	12	0	16

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CASHELNACOR**

39/C/01

Tributary of : 39C02 CRANA

OS Catchment No: 9

OS Grid Ref of Confluence: C 358 345

Date(s) Surveyed: 20/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0200	4-5	5	4-5	3-4	4	4	4	3

Assessment: An unwelcome decline in ecological quality was apparent at the Cashelnacor in July 2010, where a paucity of pollution sensitive macroinvertebrate fauna was noted and unsatisfactory ecological conditions were recorded for the first time in over a decade.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge u/s Crana River confl	235846	434602	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	40	7	100	0	25	1	51	0	10	0	12

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CORRAVADDY BURN**

39/C/03

Tributary of : 39S02 SWILLY

OS Catchment No: 51

OS Grid Ref of Confluence: C 192 112

Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0140	4-5	4	-	-	-	-	-	-
0250	4-5	4	4	4	4	2/0	2-3/0	3

Assessment: Although a slight improvement was noted in the macroinvertebrate fauna, ecological conditions remain unsatisfactory on the Corravaddy Burn in July 2010. A lack of pollution sensitive species and lots of rubbish dumped instream were a feature of this site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0140	Second Br u/s Cullion Bridge	217580	408827	0	DL
0250	Br d/s Cullion Br	219164	410207	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0250	10	8	82	18	36	4	14	0	2	0	44

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CRANA**

39/C/02

Tributary of : Sea - Lough Swilly

OS Catchment No: 9

OS Grid Ref of Confluence: C 344 325

Date(s) Surveyed: 20/7/2010, 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1977	1981	1986	1987	1991	1996	1998	2001	2004	2007	2010
0080	-	-	-	-	-	-	-	-	-	-	-	3
0100	5	5	5	4-5	5	4-5	4-5	4	4	3-4	3	3
0200	-	-	5	5	5	4	4	4	-	-	-	-
0225	-	-	-	-	-	-	-	-	4	4	3	3
0300	5	5	5	4-5	4-5	5	-	-	4-5	4	3	3
0350	-	-	-	-	-	-	4-5	4	-	-	-	-
0400	5	4-5	4-5	4	5	4	-	-	-	-	-	-
0500	5	5	5	4	5	4-5	4	4	4	4	4	4

Assessment: The significant decline in water quality observed in the Crana during the 2007 survey was maintained in July 2010, with no change from overall unsatisfactory ecological condition. Only one site of the five surveyed, the bridge in Bunrana (0500), was of satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Srath Br	245229	433779	0	DL
0100	Bridge near Stracarragh	244118	434265	3	DL
0200	0.3 km d/s Glashagh (Crana) confl.	241003	434189	3	DL
0225	Br N Stranaclea	240330	434100	0	DL
0300	Br NNW Druminderry	238800	434300	0	DL
0350	Br d/s Druminderry Br	237930	434502	3	DL
0400	Cockhill Br	235367	433744	3	DL
0500	First Br d/s Br at Cock Hill	234816	432897	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	120	27	97	3	1	7	78	0	0	4	11
0200	98	45	97	3	6	7	74	0	0	2	10
0350	64	52	97	3	8	6	74	0	0	2	10
0400	26	96	98	2	12	4	70	0	3	1	10
0500	13	98	98	2	12	4	69	1	4	1	9

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOOBALLAGH BURN**

39/D/02

Tributary of : Sea - Lough Swilly

OS Catchment No: 51

OS Grid Ref of Confluence: C 231 105

Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0100	4-5	-	-	-	-	-	-	-
0110	4-5	4-5	3	4	4-5	4	-	4
0200	5	5	4-5	4-5	4-5	4	3	4

Assessment: A welcome return to overall satisfactory ecological condition was noted on the Dooballagh Burn in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N Knockbrack	219970	407612	0	DL
0110	100m d/s Br N Knockbrack	220000	407698	6	DL
0200	Bridge N Pluck Mill	222868	410325	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0110	90	5	29	71	42	0	27	0	18	0	14
0200	9	11	68	32	67	0	14	0	12	0	6

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMBARNET STREAM**

39/D/03

Tributary of : Sea - Lough Swilly

OS Catchment No: 51

OS Grid Ref of Confluence: C 305 188

Date(s) Surveyed: 29/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1989	1991	1996	1998	2004	2007	2010
0600	2	2	2-3	2-3/0	2	2-3	2-3B	2-3

Assessment: Ecological quality in the Drumbarnet Stream was again unsatisfactory in July 2010. The main pressure appears to be from agricultural practices in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Bridge N. of Moyle	229865	416938	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	6	9	100	0	47	0	0	0	53	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMHALLAGH**

39/D/01

Tributary of : Sea - Lough Swilly

OS Catchment No: 32

OS Grid Ref of Confluence: C 296 328

Date(s) Surveyed: 28/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1996	1998	2001	2004	2007	2010
0100	4	4-5	-	-	-	-	-	-
0300	4-5	5	-	-	-	-	-	-
0400	-	-	5	-	4-5	4-5	-	4
0500	4	5	-	4	3-4	3	3-4	3-4

Assessment: The upper station (0400) was found to be of satisfactory ecological condition, although suffering from bad cattle poaching, but the lowermost site at Drumhallagh Bridge (0500) continued to show signs of moderate pollution in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S.E. of Lurganboy	226680	430350	0	DL
0300	Br NW Keranstown	227649	431038	0	DL
0400	Br N of Lugher	228244	431731	3	DL
0500	Drumhallagh Bridge	229618	432580	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	54	7	100	0	0	0	76	0	24	0	0
0500	2	15	100	0	5	2	65	0	22	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHAGH (CRANA)**

39/G/06

Tributary of : 39C02 CRANA

OS Catchment No: 9

OS Grid Ref of Confluence: C 411 432

Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1991	1996	1998	2001	2004	2010
0100	4	3	3	3-4	3	4	3

Assessment: An unwelcome return to unsatisfactory ecological condition was noted on the Glashagh (Crana) in July 2010. This river has been historically impacted by agricultural sources.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge upstream Crana R confl	241495	434338	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	107	7	96	4	11	0	89	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHAGH (LOWER)**

39/G/02

Tributary of : 39L01 LEANNAN

OS Catchment No: 31

OS Grid Ref of Confluence: C 196 197

Date(s) Surveyed: 29/7/2010

Station Nos.	Biological Quality Ratings (Q Values)										
	1973	1977	1981	1986	1988	1991	1996	1998	2001	2004	2010
0075	-	-	-	-	-	-	-	-	4	3-4	3
0100	5	4-5	4-5	4	4	4	4	3-4	-	-	-
0170	-	-	-	-	4	-	-	-	-	-	-
0200	-	-	-	-	-	3	4	4	3-4	3-4	3

Assessment: Despite the presence of good riffle habitat on the Glashagh (Lower), ecological condition was found to be unsatisfactory at both sites sampled in 2010, with a decline in quality since the last survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0075	Br E Killydesert	215741	416504	0	DL
0100	Br 1 km N.W. of Ellistrin	216946	417187	6	DL
0170	Barrack Bridge	218384	418934	6	DL
0200	Crooked Br	218987	419422	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	27	13	100	0	45	2	10	5	30	0	8
0170	20	21	100	0	43	3	8	3	34	0	9
0200	16	25	100	0	41	5	9	2	33	0	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHAGH (UPPER)**

39/G/01

Tributary of : 39L01 LEANNAN

OS Catchment No: 31

OS Grid Ref of Confluence: C 114 157

Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2004	2007	2010
0200	5	5	5	4-5	4-5	3	4	3
0400	5	4-5	5	4-5	4-5	3	3-4	4

Assessment: The loss of sensitive macroinvertebrate taxa at the upper site (0200) on the Glashagh (Upper) in July 2010 was matched by a slight improvement at the lower site (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Drumbologe Br	208159	413207	6	DL
0400	Bridge u/s Leannan River	209629	415234	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	65	17	100	0	0	0	56	0	30	0	14
0400	42	26	100	0	8	1	51	0	27	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASKEELAN**

39/G/05

Tributary of : Lough Gartan

OS Catchment No: 31

OS Grid Ref of Confluence: C 051 164

Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	4	4	3-4	4	3-4	4

Assessment: A welcome return to satisfactory ecological condition was noted on the Glaskeelan, a tributary of Lough Gartan, in July 2010

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glaskeelan Br	205190	417345	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	71	16	97	3	0	0	72	0	2	3	23

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENALLA**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 258 253
 Date(s) Surveyed: 28/7/2010

39/G/03
 OS Catchment No: 33

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	-	-	-	-	-	-
0180	-	-	4-5	3-4	4	4	4	4
0200	4	4-5	-	-	-	-	-	-

Assessment: Good ecological conditions persist on the heavily shaded Glenalla Stream in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glentidaly Bridge	223998	427273	2	DL
0180	Headleys Br (900m u/s Ray Br)	225111	425542	2	DL
0200	Br 450 m u/s Ray Br	225474	425280	0	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	87	5	100	0	8	8	43	0	5	0	35
0180	14	9	100	0	14	10	44	0	6	0	26

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENVAR**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 270 359
 Date(s) Surveyed: 28/7/2010

39/G/04
 OS Catchment No: 10

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1991	1996	1998	2001	2004	2007	2010
0200	4	4	-	-	-	-	-	-
0300	4-5	4-5	4-5	4	4-5	4-5	4-5	3-4

Assessment: A very unwelcome decline in ecological condition was noted on the Glenvar in July 2010, with unsatisfactory quality recorded for the first time. The loss of the more sensitive species historically found at the site is a cause for concern.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Meentagh Bridge	225199	433787	0	DL
0300	Br at Milltown	226554	434982	2	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	32	9	100	0	19	0	71	0	11	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEANNAN**

39/L/01

Tributary of : Sea - Lough Swilly

OS Catchment No: 31

OS Grid Ref of Confluence: C 227 213

Date(s) Surveyed: 27/7/2010, 28/7/2010, 29/7/2010

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1977	1980	1985	1988	1991	1996	1998	2001	2004	2007	2010
0100	-	-	5	4-5	4	4	4-5	4-5	4-5	4-5	4-5	4-5
0200	5	4-5	5	4-5	4-5	5	-	-	-	4	4	4
0250	-	-	-	-	-	-	-	-	-	3-4	-	3-4
0300	5	4-5	5	5	4-5	4-5	4	5	4	3-4	3	3-4
0400	5	4	-	-	5	4	-	-	-	-	-	-
0450	-	-	5	4-5	4	-	-	-	-	-	-	-
0500	4-5	4	3-4	3-4	4	4-5	4	4-5	3-4	4	4	4
0600	4-5	4-5	4	4	4	5	4	4-5	4	4	4	4
0700	-	-	4	-	-	-	-	-	-	-	-	-
0800	5	5	4	5	4	4-5	4-5	4-5	4	4-5	4-5	4-5

Assessment: Overall ecological condition remains generally satisfactory in the Leannan in July 2010. Only two stations of the seven surveyed (0250 and 0300) are showing signs of unsatisfactory condition with increased silt, algal growth and lack of pollution sensitive macroinvertebrates.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Gartan Bridge	206881	416990	6	DL
0200	Barrack Bridge	209517	415967	0	DL
0250	Bellanaed Bridge	211383	416406	0	DL
0300	Dromore Bridge	212486	417658	6	DL
0400	Milltown Br	214513	419996	0	DL
0450	At Ballyboe u/s Lurgy River	214965	420807	0	DL
0500	Ballydone Br (u/s L Fern)	216451	421904	6	DL
0600	Drumman Br (d/s L Fern)	219011	421891	6	DL
0700	Bridge at Claragh	220277	420112	6	DL
0800	Br NNE Bayhill	221996	420893	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	69	77	98	1	0	2	59	0	14	4	21
0300	33	136	99	1	9	3	50	0	17	2	19
0500	17	188	99	1	15	3	45	0	18	2	17
0600	16	211	99	1	20	3	41	0	17	2	17
0700	8	245	99	1	23	3	37	1	19	2	16
0800	2	255	99	1	24	3	35	1	19	2	16

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LESLIE HILL STREAM**

39/L/05

Tributary of : Sea - Swilly Estuary

OS Catchment No: 51

OS Grid Ref of Confluence: C 236 101

Date(s) Surveyed: 26/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0400	4-5	5	-	3-4*	4	4	-	4
0600	4	5	4-5	4	4-5	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Leslie Hill Stream in July 2010, despite the presence of lots of rubbish.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge W. of Kinbraig	223097	408248	6	DL
0600	Br at Labbadish	223927	409632	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	30	12	85	15	60	1	9	0	14	0	16
0600	11	17	75	25	55	1	8	0	19	0	17

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOWNAGH**
 Tributary of : 39S02 SWILLY
 OS Grid Ref of Confluence: C 061 093
 Date(s) Surveyed: 26/7/2010

39/L/04
 OS Catchment No: 51

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0100	5	4	-	-	-	-	-	-
0200	-	-	4-5	4-5	4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Lownagh in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW Ballygallan	206036	407369	0	DL
0200	Br u/s Leannan R confl	206132	409138	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	68	5	100	0	8	0	80	0	0	0	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LURGY**
 Tributary of : 39L01 LEANNAN
 OS Grid Ref of Confluence: C 150 208
 Date(s) Surveyed: 28/7/2010

39/L/02
 OS Catchment No: 31

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1977	1980	1985	1988	1991	1996	1998	2001	2004	2007	2010
0050	-	-	4	3	4	3-4	-	-	-	-	-	-
0070	-	-	-	-	-	3-4	-	-	-	-	-	-
0100	-	-	4	4-5	4	5	4	4	3	4	4	4
0200	5	4-5	4	4-5	4-5	5	-	-	-	-	-	-
0300	4-5	4-5	3	4	3	4-5	3	4	4	3	3	3-4

Assessment: The upper reach of the Lurgy at Goldrum Bridge (0100) was once again in satisfactory ecological condition in July 2010. The lower site (0300), upstream of its confluence with the Leannan (qv), despite slight improvement, was again moderately polluted due primarily to sewage discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge E. of Drumfin	209100	422000	0	DL
0070	Br u/s Camowen R confl	210031	423783	0	DL
0100	Goldrum Bridge	212254	422915	6	DL
0200	Procklis Bridge	213700	420900	0	DL
0300	Bridge u/s Leannan River	214924	421057	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	16	95	5	28	0	48	0	14	0	10
0300	21	39	98	2	32	3	40	1	17	0	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAGGY'S BURN**

39/M/01

Tributary of : Lough Fern

OS Catchment No: 31

OS Grid Ref of Confluence: C 184 247

Date(s) Surveyed: 28/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1973	1977	1979	1981	1985	1988	1989	1990	1991	1996	1998	2001	2004	2007	2008	2010
0080	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
0100	4-5	4	3	3-4	4	2/0	3/0	3	3	-	-	-	-	-	-	-
0150	-	-	-	-	-	1/0	1-2	2	2	-	-	-	-	-	-	-
0200	1	1	1	2	2	1/0	1	1	1-2	-	-	-	-	-	-	-
0300	2	1	1	3	2-3	1	2	-	2	2	3	2	2	2	2-3	2

Assessment: The dominance of pollution tolerant species continues to indicate serious pollution on Maggy's Burn in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	200 m u/s Br in Milford	219460	426791	2	DL
0100	Bridge in Milford	219500	426700	0	DL
0150	D/s Br in Milford (u/s STW)	219252	426489	2	DL
0200	D/s Milford (d/s STW)	218956	426314	2	DL
0300	Br Just u/s Lough Fern	218592	424904	2	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	34	3	100	0	47	0	31	2	0	0	20
0150	29	4	100	0	49	0	27	7	0	0	17
0200	27	4	100	0	52	0	23	7	2	0	15
0300	20	9	100	0	51	0	16	4	15	0	14

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MILL (DONEGAL)**

39/M/02

Tributary of : Sea - Lough Swilly

OS Catchment No: 34

OS Grid Ref of Confluence: C 346 314

Date(s) Surveyed: 20/7/2010

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1985	1989	1991	1996	1998	2004	2007	2010
0050	-	5	4-5	4-5	5	5	4-5	4	4-5	4-5
0100	5	5	5	5	5	5	4-5	4	-	4
0200	-	3-4	4-5	4	4-5	-	-	-	-	-
0300	-	2	3	3-4	4	3-4	4	4	3	3

Assessment: No change in ecological condition was noted in the Mill (Donegal) in July 2010 with satisfactory quality at both upper stations (0050 and 0100), and moderate pollution at the lower station in Buncrana (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Ford NE Owenkillew and Barnahone	240743	430044	3	DL
0100	Bridge SW of Tullydush	238343	430153	3	DL
0200	Br u/s old Railway Br	235100	431600	0	DL
0300	D/s Old Railway Br	234965	431639	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	129	16	100	0	0	24	60	0	0	0	15
0100	81	26	99	1	2	19	57	0	0	0	22
0300	9	44	96	4	10	15	57	1	2	0	15

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBOY (CRANA)**

39/O/04

Tributary of : 39C02 CRANA

OS Catchment No: 9

OS Grid Ref of Confluence: G 369 344

Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1991	1996	1998	2004	2007	2010
0100	4	4	-	-	-	-	-
0400	5	4-5	4-5	4-5	4	3-4	3

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions on the Owenboy (Crana) in July 2010. The bridge at this station (Kinnagoe Bridge) appears to be used as a vehicle burning area with massive amounts of metal, wire and car parts dumped near and over the bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carroghill Bridge	238579	439049		DL
0400	Kinnagoe Bridge	237547	435508	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	62	28	100	0	11	0	77	0	6	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENERK**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 292 394
 Date(s) Surveyed: 20/7/2010

39/O/02
 OS Catchment No: 8

Station Nos.							Biological Quality Ratings (Q Values)				
	1973	1980	1985	1987	1991	1996	1998	2001	2004	2007	2010
0100	5	5	5	4-5	5	5	5	4-5	4	-	4
0200	5	5	5	5	4-5	5	5	5	4-5	3-4*	3-4

Assessment: No change in ecological condition was noted in the Owenerk in July 2010 with satisfactory quality recorded at the upper station (0100) and less than satisfactory quality noted downstream at Milltown Bridge (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Owenerk Bridge	232491	441500	3	DL
0200	Br SW Milltown	229778	439585	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	116	9	100	0	0	0	99	0	1	0	0
0200	10	20	100	0	2	2	80	0	7	0	8

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENNASOP**
 Tributary of : 39C02 CRANA
 OS Grid Ref of Confluence: C 440 344
 Date(s) Surveyed: 27/7/2010

39/O/05
 OS Catchment No: 9

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1991	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	4	4	3-4	3	3	3

Assessment: The macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions on the Owennasop in July 2010, suspected to be impacted by Pollan dam upstream of Station 0100.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Camowen R confl	244148	434373	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	121	16	95	5	1	3	78	0	0	7	11

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENWEE (LOUGH GARTAN)** **39/O/03**
 Tributary of : 39B01 BULLABA OS Catchment No: 31
 OS Grid Ref of Confluence: C 013 137
 Date(s) Surveyed: 27/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1991	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	3-4	4-5	4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Owenwee in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW Stramore	201536	413468	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	77	9	100	0	0	0	67	0	0	0	33

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SKEOGE**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 354 232
 Date(s) Surveyed: 29/7/2010

39/S/01
 OS Catchment No: 51

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1985	1987	1988	1991	1996	1998	2004	2007	2010
0050	-	-	3	-	3	3	3	3	3	3
0100	3-4	3	2-3	3	2-3	-	-	-	-	-
0200	-	-	2-3	3	3	-	-	-	-	-
0300	-	3	2-3	3	2-3	2-3	3	3	2-3	2-3

Assessment: The Skeoge was once again moderately polluted at both sites surveyed in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SW Drumadooey	240996	423105	7	DL
0100	Bridge E. of Skeoge	239600	422000	0	DL
0200	Bridge N. of Skeoge	238800	422600	0	DL
0300	Bridge u/s Lough Swilly	237864	423024	7	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	42	3	100	0	62	0	0	0	37	0	1
0300	5	18	100	0	51	0	8	0	39	0	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SWILLY**
 Tributary of : Sea - Lough Swilly
 OS Grid Ref of Confluence: C 195 117
 Date(s) Surveyed: 26/7/2010

39/S/02
 OS Catchment No: 51

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1977	1980	1985	1987	1991	1996	1998	2001	2004	2007	2010
0050	-	5	5	5	4-5	5	4-5	4-5	4	4-5	4	4	4
0100	-	-	-	5	5	4	4-5	4	4-5	4-5	4-5	-	4
0190	-	-	-	-	-	-	3-4	-	-	-	-	-	-
0200	5	5	5	5	5	5	3/0	4	5	4-5	4	3	3

Assessment: The upper reaches (0050 and 0100) of the Swilly continued to attain satisfactory ecological condition in July 2010, while the lowermost station at Newmills (0200) maintained the downward trend recorded in 2007 and remains unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Swilly Br (near Breenagh)	205979	409165	6	DL
0100	Br N Rashedoge	210276	410021	6	DL
0190	75m u/s Br at Newmills	212246	409109	0	DL
0200	Bridge at Newmills	212277	409118	6	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	67	18	100	0	18	18	30	0	0	0	34
0100	31	44	100	0	22	10	45	0	2	0	21
0200	14	53	100	0	20	10	47	0	4	0	19

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

NWIRBD: HYDROMETRIC AREA NO. 39

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 - 2012.

Channel Length (km) in Class			A	A	B	C	D	Total		
WFD Quality Class			High	Good	Moderate	Poor	Bad			
River Name	Year	Code								
Aghaweel	2010	39A01	0.0	0.9	0.8	0.4	0.0	2.0		
Bullaba	2010	39B01	6.0	0.0	0.0	0.0	0.0	6.0		
Burnfoot	2010	39B02	0.0	0.0	0.0	10.0	0.0	10.0		
Cashelnacor	2010	39C01	0.0	0.0	0.0	2.5	0.0	2.5		
Corravaddy Burn	2010	39C03	0.0	0.0	0.0	5.0	0.0	5.0		
Crana	2010	39C02	0.0	2.5	3.0	11.5	0.0	17.0		
Dooballagh Burn	2010	39D02	0.0	6.0	0.0	0.0	0.0	6.0		
Drumbarnet Stream	2010	39D03	0.0	0.0	0.0	5.0	0.0	5.0		
Drumhallagh	2010	39D01	0.0	3.5	0.5	0.0	0.0	4.0		
Glashagh (Crana) ¹	2010	39G06	0.0	0.0	0.0	2.0	0.0	2.0		
Glashagh (Lower) ¹	2010	39G02	0.0	0.0	0.0	4.5	0.0	4.5		
Glashagh (Upper)	2010	39G01	0.0	2.2	1.6	5.7	0.0	9.5		
Gliskeelan	2010	39G05	0.0	4.5	0.0	0.0	0.0	4.5		
Glenalla	2010	39G03	0.0	5.0	0.0	0.0	0.0	5.0		
Glenvar	2010	39G04	0.0	0.0	3.0	0.0	0.0	3.0		
Leannan	2010	39L01	6.8	12.7	5.1	0.0	0.0	24.5		
Leslie Hill Stream	2010	39L05	0.0	4.5	0.0	0.0	0.0	4.5		
Lownagh	2010	39L04	0.0	4.0	0.0	0.0	0.0	4.0		
Lurgy	2010	39L02	0.0	7.0	0.5	0.0	0.0	7.5		
Mill (Donegal)	2010	39M02	5.5	4.5	0.0	0.5	0.0	10.5		
Maggy's Burn	2010/11	39M01	0.0	1.0	0.0	0.0	2.0	3.0		
Owenboy (Crana)	2010	39O04	0.0	0.0	0.0	5.0	0.0	5.0		
Owenerk	2010	39O02	0.0	7.0	1.0	0.0	0.0	8.0		
Owennasop	2010	39O05	0.0	0.0	0.0	4.0	0.0	4.0		
Owenwee (L. Gartan)	2010	39O03	0.0	4.5	0.0	0.0	0.0	4.5		
Skeoge	2010	39S01	0.0	0.0	0.0	7.0	0.0	7.0		
Swilly	2010	39S02	0.0	11.0	0.0	6.0	0.0	17.0		
Total Length (km) surveyed this cycle			18.3	80.7	15.4	69.1	2.0	185.5		
Adjustments			0.0	0.0	0.0	3.5	0.0	3.5		
Current Length (km) Adjusted			18.3	80.7	15.4	65.6	2.0	182.0		
Percentages			10.1	44.4	8.5	36.0	1.1	100.0		
Channel Length (km) in Class			2010-'12		A	B	C	D	Total	
Baseline : Current Adjusted Status (km)					99.0	15.4	65.6	2.0	182.0	
Percentages					54.4	8.5	36.0	1.1	100.0	
Baseline: Previous Unadjusted Status (km)**			2007-'09		35.4	58.2	35.8	52.6	0.0	182.0
Percentages					19.5	32.0	19.6	28.9	0.0	100.0
Changes since Previous Survey (km)					-17.1	22.5	-20.4	13.0	2.0	0.0

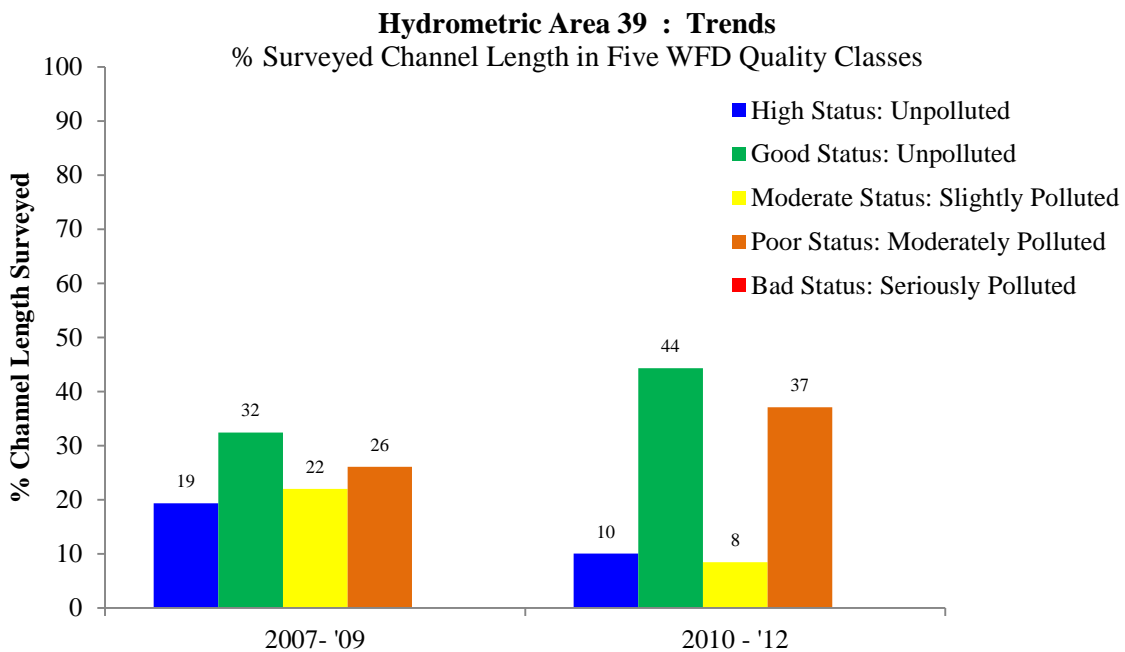
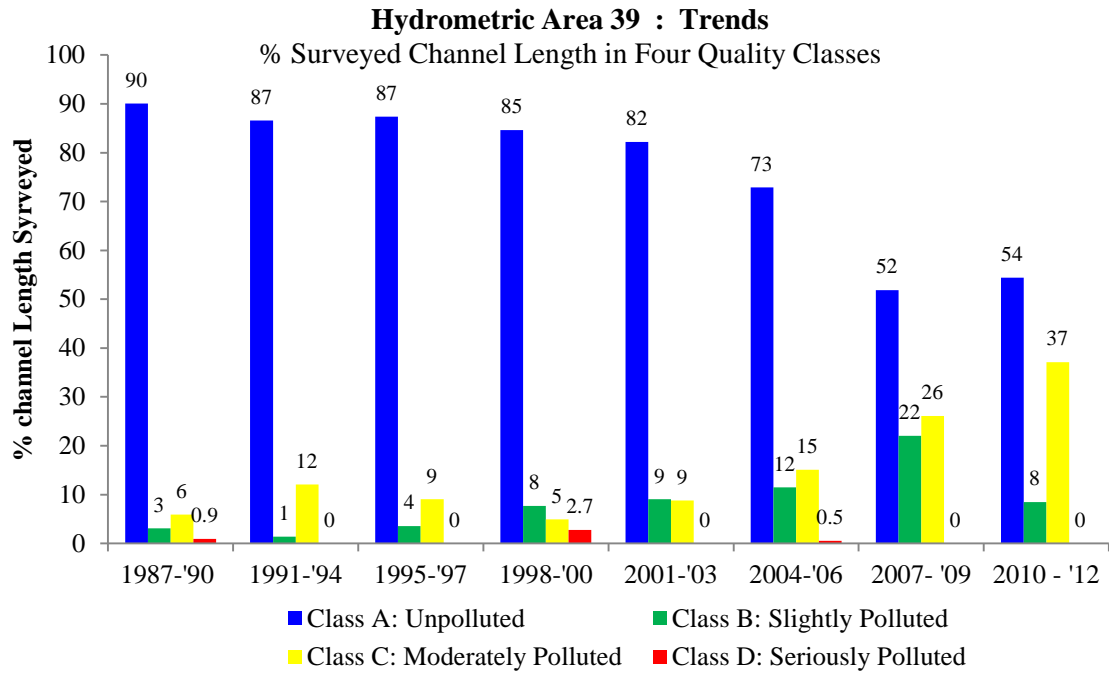
*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Camowen Crana (39C08) not surveyed in 2010, Glashagh (Crana) (39G06) & Glashagh (Lower) (39G02) added back into the programme in 2010.

** Clabby *et al.*, 2008

¹ Rivers not included in the previous National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of Sites at WFD Status	2007-'09	2010-'12
High	5	4
Good	13	20
Moderate	6	6
Poor	15	21
Bad	0	1
<hr/>		
Total number of Sites surveyed	39	52
Total number of sites at unsatisfactory status	21	28



HYDROMETRIC AREA 40 (Donagh – Moville)	
BALLYBOE	40B03
BALLYHALLAN	40B01
# BREDAGH	40B02
CABRY	40C03
CLONMANY	40C01
CLOONTAGH	40C04
CULDAFF	40C02
DONAGH	40D01
DRUNG	40D02
GLENNAGANNON	40G01
KEENAGH	40K01
LONG GLEN	40L01
LOUGH NASTACKAN STREAM	40L03
MALIN STREAM	40M01
PORTALEEN	40P02
ROOSKY	40R01
STRAID	40S01

indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **BALLYBOE**

40/B/03

Tributary of : Sea - Trawbreaga Bay(at Malin)

OS Catchment No: a

OS Grid Ref of Confluence: C 473 499

Date(s) Surveyed: 21/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0400	4	4	4	4	4	4	4B	4B

Assessment: The lower Ballyboe (0400) is subjected to occasional salt water intrusion. The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Ballyboe in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br u/s Malin Br	248114	449702	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	5	8	100	0	59	0	29	0	12	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYHALLAN**

40/B/01

Tributary of : 40C01 CLONMANY

OS Catchment No: 4

OS Grid Ref of Confluence: C 371 463

Date(s) Surveyed: 21/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0100	4-5	3	4-5	-	-	-	-	-
0200	5	4	4-5	5	4	4	3	3

Assessment: Ecological conditions remain unsatisfactory in the Ballyhallan in July 2010, with the system showing no improvement from the serious decline noted during the 2007 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S.W. of Tirhoran	235864	444238	3	DL
0200	Bridge u/s Clonmany River	236909	446031	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	98	6	100	0	8	0	67	0	0	0	25
0200	19	9	100	0	16	0	56	0	3	0	24

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BREDAGH**
 Tributary of : Sea - Lough Foyle
 OS Grid Ref of Confluence: C 611 382
 Date(s) Surveyed: 19/7/2010

40/B/02

OS Catchment No: 13

Station Nos.	Biological Quality Ratings (Q Values)												
	1973	1977	1987	1988	1989	1993	1996	1998	2001	2004	2007	2008	2010
0200	5	5	4-5	-	-	3	4-5	4	4-5	4-5	4-5	-	4-5
0300	5	4	4	-	-	-	-	-	-	-	-	-	-
0400	-	-	2	1	1	1	1	1-2	2	2	2	2	2

Assessment: The upper station sampled on the Bredagh (0200) has maintained its high status again in July 2010. The lower station (0400, Bridge in Moville) was, however, once again seriously polluted due to municipal discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Moglass Bridge	258225	442594	3	DL
0300	1 km u/s Moville Bridge	260530	439000	4	DL
0400	Br in Moville	261059	438427	4	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	108	6	100	0	11	0	83	0	2	0	4
0400	7	18	100	0	40	0	49	1	8	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CABRY**
 Tributary of : Sea - Lough Foyle
 OS Grid Ref of Confluence: C 518 311
 Date(s) Surveyed: 23/7/2010

40/C/03

OS Catchment No: 11

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0100	4	4	-	-	-	-	-	-
0200	5	4	5	4	4-5	4	4	3

Assessment: An unwelcome decline from good to unsatisfactory ecological condition was evident in the Cabry in 2010. The presence of large amounts of metal rubbish instream (car parts, metal bars etc) is evidently causing problems at this site (0200), upstream of Lough Foyle.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Pollan R confl	249128	433392	3	DL
0200	Bridge u/s Lough Foyle	251474	431328	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	5	11	99	1	29	1	44	0	5	0	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONMANY**
 Tributary of : Sea - Tullagh Bay
 OS Grid Ref of Confluence: C 358 482
 Date(s) Surveyed: 21/7/2010

40/C/01
 OS Catchment No: 4

Station Nos.							Biological Quality Ratings (Q Values)				
	1973	1980	1985	1987	1993	1996	1998	2001	2004	2007	2010
0050	-	-	-	-	-	3	4	4	3	-	3-4
0090	-	-	-	-	-	4-5	-	-	-	-	-
0100	-	3-4	4-5	4	3	3-4	4	4	2-3	3	2-3
0150	5	4	4-5	4	4	-	-	-	-	-	-
0200	4	4-5	4	3-4	4	4	4	4	3	3	3
0300	-	4	4	4	-	-	-	-	-	-	-

Assessment: Despite a slight improvement noted at the upper station (0050 - Br SE Cloghglass), the macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions at all stations sampled on the Clonmany in 2010. Further unwelcome deterioration was noted at Meendoran Bridge (0100), possibly due to water works discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	SE Cloghglass	237893	442474	3	DL
0090	0.4 km u/s Meendoran Br (u/s WTW effluent)	238996	444206	3	DL
0100	Meendoran Bridge	239063	444418	3	DL
0150	Cleahagh Bridge	238000	445900	3	DL
0200	Bridge W. of Clonmany	237113	446383	3	DL
0300	S.W. of Binion House	236100	447800	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	46	12	100	0	11	0	51	0	5	6	26
0100	42	13	100	0	11	0	50	0	7	6	26
0200	13	37	100	0	23	0	56	1	6	2	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONTAGH**
 Tributary of : 40C01 CLONMANY
 OS Grid Ref of Confluence: C 385 451
 Date(s) Surveyed: 21/7/2010

40/C/04

OS Catchment No: 4

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0400	4-5	4	4-5	4	4	4	3	3

Assessment: The deterioration in quality observed in the Cloontagh in 2007 has been maintained in 2010, with the macroinvertebrate fauna continuing to indicate unsatisfactory ecological conditions on this Clonmany tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Gortaran Bridge	238737	445028	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	35	14	100	0	18	0	75	0	4	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CULDAFF**
 Tributary of : Sea - Culdaff Bay
 OS Grid Ref of Confluence: C 532 494
 Date(s) Surveyed: 19/7/2010

40/C/02
 OS Catchment No: 12

Station Nos.	Biological Quality Ratings (Q Values)												
	1973	1980	1985	1987	1988	1989	1993	1996	1998	2001	2004	2007	2010
0050	-	4	4-5	2-3	2-3	2	4	3-4	3	4	4	-	4
0100	4-5	4-5	4-5	3	-	-	4	4	4	4	3-4	3	3
0150	5	4	4	4	-	-	4	3-4	3-4	4	4	3	n/s

Assessment: No change was noted in the ecological condition of the Culdaff when sampled in July 2010. Although the upper station (0050 - Br S Gleneely) is of satisfactory quality, Gleneely Bridge (0100) remains moderately polluted with a lack of pollution sensitive macroinvertebrates, despite very suitable riffle habitat present.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge S Gleneely	254652	443448	3	DL
0100	Gleneely Bridge	251873	446209	3	DL
0150	Bridge near Holmes	252613	448560	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	51	17	100	0	13	0	69	0	13	0	5
0100	15	47	100	0	32	0	55	0	10	0	4
0150	2	58	96	4	35	0	49	0	10	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DONAGH**
 Tributary of : Sea - Trawbreaga Bay
 OS Grid Ref of Confluence: C 465 480
 Date(s) Surveyed: 22/7/2010

40/D/01
 OS Catchment No: 6

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1973	1977	1980	1985	1987	1988	1989	1993	1996	1998	2001	2004	2007	2010
0020	-	-	-	-	-	5	-	-	4-5	-	-	-	-	-	-
0040	-	-	-	-	-	-	-	-	-	4-5	4-5	4-5	4-5	4	4
0050	-	5	-	5	4-5	4	-	-	4	-	-	-	-	-	-
0100	-	5	-	5	4-5	4-5	-	-	4	4-5	4-5	4	4	-	3
0200	5	-	4-5	4	4	4-5	-	-	4	-	-	-	-	-	-
0300	-	-	-	1/0	1-2	1	1	2	1	1	-	1-2	4-5	3	3
0310	-	-	1	-	-	-	-	4	-	-	1	-	-	-	-
0400	1	2	1	1	2-3	1	1-2	3-4	2-3	1-2	1-2	2	4	3	3

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions at most sites on the Donagh, with only the upper reaches (0040) showing satisfactory ecological quality in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Minehill Bridge	247895	437758	3	DL
0040	Br d/s Johnston's Br	247328	439797	3	DL
0050	Bridge E. of Whin Park	247065	440640	3	DL
0100	Bridge u/s Carndonagh Br	246483	443968	3	DL
0200	Carndonagh Bridge	246813	445146	3	DL
0300	1.5 km d/s Carndonagh Br	247142	445869	3	DL
0310	Millrace Str nr St 0300	247139	445860	3	DL
0400	Corvish Bridge	247368	447458	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	83	10	95	5	11	10	46	0	0	0	34
0100	48	28	95	5	21	4	58	0	3	0	14
0300	19	33	95	5	26	3	52	2	4	0	13
0310	19	33	95	5	26	3	52	2	4	0	13
0400	5	34	96	4	28	3	51	3	4	0	12

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUNG** **40/D/02**
 Tributary of : Sea - Lough Foyle OS Catchment No: 14
 OS Grid Ref of Confluence: C 540 340
 Date(s) Surveyed: 23/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0200	4	4-5	4	3-4	4	4	4	4B

Assessment: Despite saline intrusion, this Foyle tributary was in generally satisfactory ecological condition in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br at Vances Point	253931	434079	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	5	8	100	0	17	9	28	1	39	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENNAGANNON**

40/G/01

Tributary of : Sea - Trawbreaga Bay

OS Catchment No: 7

OS Grid Ref of Confluence: C 474 482

Date(s) Surveyed: 22/7/2010

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1977	1981	1985	1987	1993	1996	1998	2001	2004	2007	2010
0010	-	-	-	5	4	4-5	4	-	-	-	-	-	-
0015	-	-	-	-	-	-	-	4-5	5	4-5	4-5	4-5	4
0100	5	5	4	4-5	5	4	4	3-4	4	4	-	-	-
0200	5	5	4	4-5	5	4	4-5	4-5	4	4	4	3-4	4

Assessment: Although a decline in ecological condition was noted in the upper reaches (0015), it was coupled with a slight increase in quality downstream (0200) and resulted in overall satisfactory ecological conditions in the Glennagannon in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge d/s Lough Inn	251500	439200	0	DL
0015	Br SW Shones Hill	249822	440795	3	DL
0100	Glennagannen Br	247797	445025	3	DL
0200	Strawbridge Br	247880	447642	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	147	14	100	0	0	0	100	0	0	0	0
0100	30	26	98	2	25	0	75	0	0	0	0
0200	4	29	99	1	30	0	68	1	0	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KEENAGH**

40/K/01

Tributary of : Sea - White Strand Bay

OS Catchment No: 1

OS Grid Ref of Confluence: C 413 564

Date(s) Surveyed: 19/7/2010

Station Nos.							Biological Quality Ratings (Q Values)				
	1973	1980	1986	1987	1993	1996	1998	2001	2004	2007	2010
0100	-	4	4	5	-	-	-	-	-	-	-
0200	5	5	4	5	5	4	4	4-5	4	-	3-4
0300	5	4	4-5	5	4	-	-	-	-	-	-
0400	-	4	5	5	4-5	4	4	4	4	4	4

Assessment: Good ecological conditions persist in the lower reaches of the Keenagh, however an unwelcome decline in ecological condition was noted in the upper reach (0200) in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SW of Lagawollen Br	247800	454200	3	DL
0200	Hugh Roe's Br	245357	454361	3	DL
0300	Keenagh Br	243282	455523	3	DL
0400	Br SW Carnmalin	241481	456827	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	47	16	100	0	21	0	62	0	11	0	5
0300	18	22	100	0	30	0	49	0	17	0	4
0400	1	28	100	0	33	0	48	0	15	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

Hydrometric Area 40 (2010)

River and Code : **LONG GLEN**
 Tributary of : Sea - Kinnagoe Bay
 OS Grid Ref of Confluence: C 628 462
 Date(s) Surveyed: 19/7/2010

40/L/01
 OS Catchment No: b

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1996	1998	2001	2004	2007	2010
0200	4	4-5	3	4	4	4-5	n/s

Assessment: Access issues prevented sampling of the Long Glen in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Kinnagoe Bay	262659	446185	4	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	33	6	100	0	32	0	61	0	7	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGH NASTACKAN STREAM** **40/L/03**
 Tributary of : Sea - Tremone Bay OS Catchment No: b
 OS Grid Ref of Confluence: C 692 475
 Date(s) Surveyed: 19/7/2010

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1996	1998	2001	2004	2007	2010
0400	4-5	3	4-5	4	4-5	4-5	4-5

Assessment: Good ecological conditions persist on the Lough Nastacken Stream in July 2010, with good fencing in place to prevent livestock access.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br u/s Sea (White Strand)	259088	447485	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	5	11	100	0	44	0	32	0	23	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MALIN STREAM**

40/M/01

Tributary of : Sea - Trawbreaga Bay

OS Catchment No: a

OS Grid Ref of Confluence: C 467 498

Date(s) Surveyed: 22/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0200	4	4	-	1/0	2-3	3	3	3
0250	-	-	3	-	-	-	-	-
0270	-	-	-	1	-	-	-	-
0300	3-4	-	-	1	3	3	-	n/s

Assessment: The Malin stream remains polluted in July 2010 with a lack of pollution sensitive species present, agricultural sources are suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge NE of Malin	247119	450398	3	DL
0250	Br u/s Br W Malin	246894	450164	3	DL
0270	300 m u/s Br W of Malin	246849	450115	3	DL
0300	Bridge W. of Malin	246770	450005	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	11	7	100	0	48	0	36	0	12	0	5
0250	4	9	100	0	56	0	29	0	11	0	3
0270	3	9	100	0	56	1	29	0	11	0	3
0300	1	10	100	0	56	1	28	0	11	0	3

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **PORTALEEN**
 Tributary of : Sea - S of Glengad Head
 OS Grid Ref of Confluence: C 523 527
 Date(s) Surveyed: 19/7/2010

40/P/02

OS Catchment No: a

Station Nos.	Biological Quality Ratings (Q Values)						
	1994	1996	1998	2001	2004	2007	2010
0100	3	4	4	4	3-4	-	-
0200	-	-	-	-	-	4	3

Assessment: A decline in ecological condition was noted in the Portaleen stream, with signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species and excessive algal growth apparent during July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Portaleen Bridge	252025	452691	3	DL
0200	Br d/s Portaleen Br just u/s Sea	252422	452799	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	22	4	100	0	32	0	50	0	18	0	0
0200	N/A	4	100	0	32	0	50	0	18	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROOSKY**
 Tributary of : Sea - Lough Foyle
 OS Grid Ref of Confluence: C 526 326
 Date(s) Surveyed: 23/7/2010

40/R/01

OS Catchment No: 15

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1993	1996	1998	2001	2004	2007	2008	2010
0100	4	-	3	-	-	-	-	-	-	-
0200	1-2	2-3	2	-	-	1	1-2	2	2	2-3
0300	2	2-3	1/0	1-2	2-3	2	3	2-3	-	2-3

Assessment: Moderate pollution due to agricultural sources was again noted in the Roosky in July 2010, with a complete absence of pollution sensitive species noted at both sites.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Third Bridge u/s Lough Foyle	251568	434126	3	DL
0200	Mullinroe Bridge	251710	433704	3	DL
0300	Br u/s Lough Foyle	252553	432716	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	8	3	98	2	43	0	37	0	20	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **STRAID**

40/S/01

Tributary of : Sea - Trawbreaga Bay

OS Catchment No: 5

OS Grid Ref of Confluence: C 429 488

Date(s) Surveyed: 21/7/2010

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1993	1996	1998	2001	2004	2007	2010
0100	5	-	4	4-5	4	4	-	4
0400	5	4	4-5	4	4-5	4-5	4-5	4-5

Assessment: Good ecological conditions persist at both stations on the Straid in July 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Craignahorna Bridge	243418	443559	3	DL
0400	1 km d/s Strath's Bridge	243363	448254	3	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	108	6	100	0	0	0	100	0	0	0	0
0400	9	20	100	0	17	2	76	0	4	0	1

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

NWIRBD: HYDROMETRIC AREA NO. 40

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes:- A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2010 - 2012.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Ballyboe	2010	40B03	0.0	3.0	0.0	0.0	0.0	3.0
Ballyhallan	2010	40B01	0.0	0.0	0.0	4.0	0.0	4.0
Bredagh	2010/11	40B02	8.0	0.0	0.0	0.0	0.5	8.5
Cabry	2010	40C03	0.0	0.0	0.0	4.0	0.0	4.0
Clonmany	2010	40C01	0.0	0.0	2.5	7.0	0.0	9.5
Cloontagh	2010	40C04	0.0	0.0	0.0	3.0	0.0	3.0
Culdaff	2010	40C02	0.0	10.6	0.0	6.4	0.0	17.0
Donagh	2010	40D01	0.0	6.6	0.0	5.4	0.0	12.0
Drung	2010	40D02	0.0	3.0	0.0	0.0	0.0	3.0
Glennagannon	2010	40G01	0.0	12.0	0.0	0.0	0.0	12.0
Keenagh	2010	40K01	0.0	3.8	6.3	0.0	0.0	10.0
Long Glen	2010	40L01	0.0	0.0	0.0	0.0	0.0	0.0
Lough Nastackan Stream	2010	40L03	2.0	0.0	0.0	0.0	0.0	2.0
Malin Stream	2010	40M01	0.0	0.0	0.0	2.5	0.0	2.5
Portaleen Stream	2010	40P02	0.0	0.0	0.0	1.5	0.0	1.5
Roosky	2010	40R01	0.0	0.0	0.0	1.5	0.0	1.5
Straid	2010	40S01	4.0	6.0	0.0	0.0	0.0	10.0
Total Length (km) surveyed this cycle	2010/11		14.0	45.0	8.8	35.3	0.5	103.5
Adjustments			-2.0	0.0	0.0	0.0	0.0	-2.0
Current Length (km) Adjusted			16.0	45.0	8.8	35.3	0.5	105.5
Percentages			15.2	42.6	8.3	33.5	0.5	100.0
Channel Length (km) in Class	2010-'12			A	B	C	D	Total
Baseline : Current Adjusted Status (km)				61.0	8.8	35.3	0.5	105.5
Percentages				57.8	8.3	33.5	0.5	100.0
Baseline: Previous Unadjusted Status (km)**	2007-'09		33.0	30.5	1.0	39.5	1.5	105.5
Percentages			31.3	28.9	0.9	37.4	1.4	100.0
Changes since Previous Survey (km)			-17.0	14.5	7.8	-4.2	-1.0	0.0

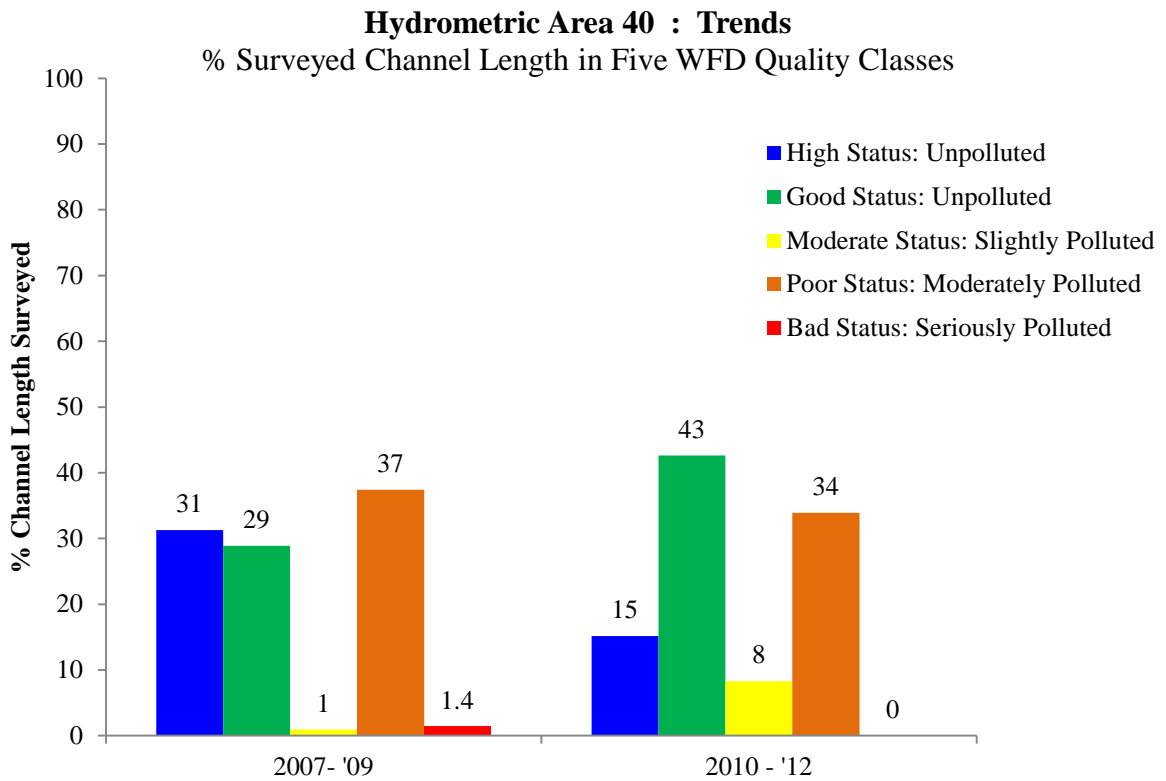
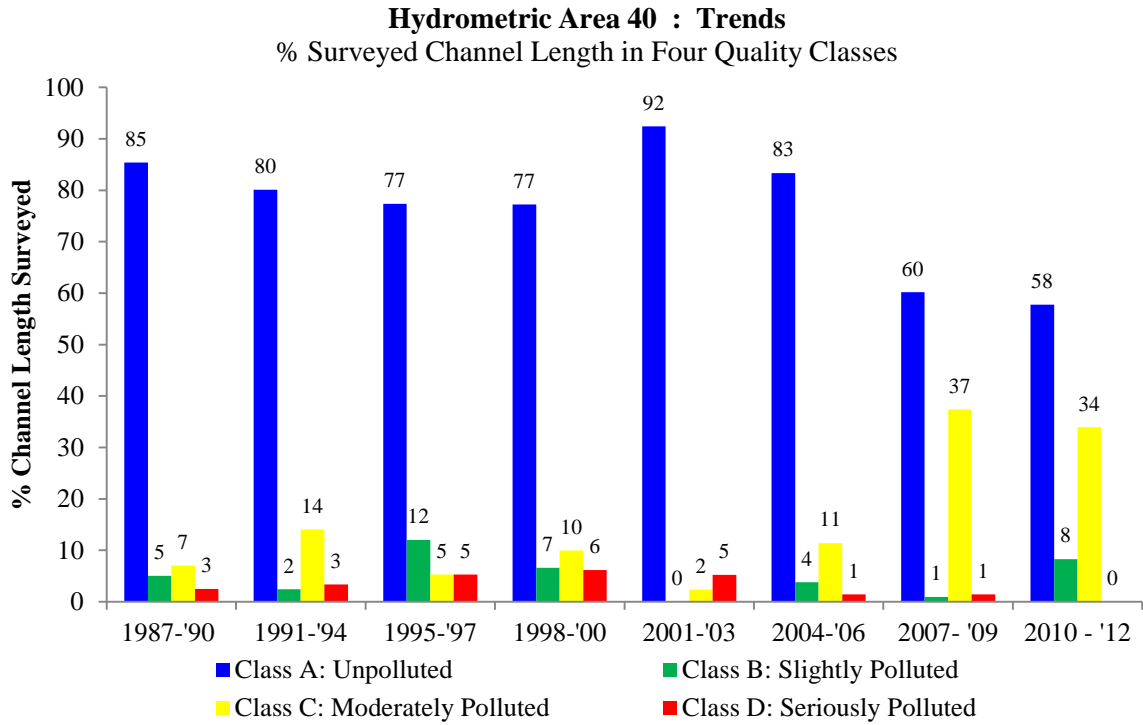
*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Long Glen (40L01) was not surveyed in 2010.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics.

The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

Number of Sites at WFD status	2007-'09	2010-'12
High	5	3
Good	6	8
Moderate	1	2
Poor	10	13
Bad	2	1
Total number of sites surveyed	24	27
Total number of sites at unsatisfactory status	13	16



ADDITIONAL SURVEYS

Seriously Polluted & Investigative Sites

HYDROMETRIC AREA 06 (Ballymascanlan)

BALLYMASCANLAN

06B02

River and Code : **BALLYMASCANLAN**

06/B/02

Tributary of : 06F02 FLURRY

OS Catchment No: 91

OS Grid Ref of Confluence: J 081 100

Date(s) Surveyed: 16/9/2010

Station Nos.	Biological Quality Ratings (Q Values)										
	1990	1991	1994	1997	2000	2003	2006	2007	2008	2009	2010
0100	2-3	-	3/0	4	3/0	2/0	2/0	2/0	2-3/0	3-4	3-4
0200	-	-	-	-	-	-	-	-	3	-	-
0300	4-5	-	-	-	3	-	-	-	-	-	-
0500	1-2	1	3	4	3	-	-	-	-	-	-

Assessment: Continued improvement in the Ballymascanlan River was recorded in 2011, with moderate status now achieved. The river was in flood at time of sampling but sensitive macroinvertebrates were still present. Oil/diesel odours continue to be an issue here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Jonesborough Br	306465	314446	36	LH
0200	Br nr Carrickaneena House	306700	313600	36	
0300	New Br	307128	311816	29	LH
0500	Ballymascanlan Br	308085	310187	29	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	58	0	100	0	40	0	0	60	0	0	0
0300	30	2	85	15	91	5	0	4	0	0	0
0500	6	4	54	46	87	3	0	8	2	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 10 (Avoca)

AVOCA

10A03

River and Code : **AVOCA**

10/A/03

Tributary of :

OS Catchment No: 171

OS Grid Ref of Confluence: T 256 729

Date(s) Surveyed: 20/9/2010

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1977	1981	1986	1990	1994	1997	2000	2003	2006	2007	2008	2009	2010
0650	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
0680	-	-	-	-	-	4-5	5	4	4	3-4	-	-	-	-	-
0700	1/0	1/0	1/0	1/0	1/0	1/0	1/0	-	1/0	-	4	1/0	2/0	2/0	4
0800	1/0	1/0	1/0	-	1/0	1/0	-	-	-	-	-	-	-	-	-
0900	-	-	-	-	2/0	2/0	1/0	-	-	-	-	-	-	-	-
1000	1/0	1/0	1/0	-	2/0	-	-	-	-	-	-	-	-	-	-
1200	-	-	-	-	1/0	1/0	-	-	-	-	-	-	-	-	-

Assessment: A marked improvement in biological quality (to Q4, Good Status) was indicated by the numbers and diversity of sensitive macroinvertebrates observed at Avoca Bridge in late September 2010. Similar temporary improvements have been observed in recent surveys however ecological quality has returned to serious pollution due to acid mine drainage effluent upon return surveys. It is expected that this improvement will again only be temporary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0650	0.1km d/s Avonbeg R confl	0	0	62	WW
0680	1km d/s Avonbeg R confl	319661	182146	62	WW
0700	Avoca Br	320337	179825	62	WW
0800	At Woodenbridge Golf Club	319290	177220	62	WW
0900	Footbr 0.5km d/s Aughrim R	320245	176469	62	WW
1000	At Shelton Abbey (u/s I.F.I.)	321810	175230	62	WW
1200	Arklow Br	324720	173530	62	WW

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0680	29	362	100	0	17	18	40	0	12	1	13
0700	22	378	100	0	19	17	38	1	12	1	12
0900	2	615	100	0	27	17	30	1	12	0	13

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 25 (Brosna)

BROSNA

25B09

River and Code : **BROSNA**
 Tributary of : 25S01 SHANNON (Lower)
 OS Grid Ref of Confluence: N 022 187
 Date(s) Surveyed: 20/9/2010

25/B/09

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1978	1982	1984	1987	1993	1996	1999	2002	2005	2007	2008	2009	2010
0003	-	-	-	-	4-5	4	3-4	-	-	-	-	-	-	-	-
0004	-	-	-	-	2-3	3	-	-	-	-	-	-	-	-	-
0005	-	-	-	-	3	3-4	3	3	3-4	3	3-4	-	3	-	-
0006	-	-	-	-	3-4	3	3	3	3	3	3-4	-	3	-	-
0010	-	-	-	-	3-4	2-3	3	-	-	-	-	-	-	-	-
0040	-	-	-	-	3-4	2-3	3	3	3	3	3	-	3	-	-
0100	1	1	1-2	1-2	2-3	2	2-3	3	2-3	2	1-2	2	2	2	3-4
0200	4-5	4	3-4	4	4	4	3-4	3-4	3	3-4	3-4	-	-	-	-
0250	-	-	-	-	4	4-5	3-4	3-4	4	3-4	3	-	3-4	-	-
0400	4-5	4-5	4-5	4	4-5	4	3-4	3-4	4	3	3	-	-	-	-
0420	-	-	-	-	4-5	4-5	-	-	-	-	-	-	-	-	-
0450	-	-	-	-	-	4	4	3-4	4	3	3-4	-	3-4	-	-
0500	4-5	4-5	4-5	-	-	4	4	3-4	3-4	3-4	3	-	3-4	-	-
0600	3-4	4	4	4	4	4	4	-	3-4	-	-	-	3-4	-	-
0700	4	4	-	4-5	4	4-5	3-4	3	3-4	3-4	4	-	-	-	-
0760	-	-	-	-	-	4	3-4	4	4	4	3-4	-	3-4	-	-
0800	4-5	4-5	4	-	4	5	3*	4	3	3-4*	4-5	-	-	-	-
0950	-	-	-	-	4-5	4-5	4	4	4	4-5	4-5	-	4	-	-
1000	4-5	5	4-5	4	3-4	4-5	3-4	3-4	3-4	3	3	-	-	3-4*	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-

Assessment: Water quality improved significantly at Butlers Bridge since 2009 and previous years. The river was assessed as just slightly polluted (Q3-4) in late September 2010 which is in marked contrast to all previous surveys when this location had been seriously polluted (Q2 and less).

Additional Surveys (2010)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0003	1.1 km d/s L Owel	0	0	41	MH
0004	1.5 km d/s L Owel	0	0	41	MH
0005	Br SW of Culleen Beg	244154	255390	41	MH
0006	Br d/s L Sheever	245584	254938	41	MH
0010	Mullingar: Canal Crossing	0	0	41	MH
0040	Mullingar: Indust Est Br	243777	252327	41	MH
0100	Butler's Br	241888	250152	41	MH
0200	Newell's Br	238329	242309	48	MH
0250	Ballynagore Br	235670	239652	48	MH
0400	Just d/s Kilbeggan Br	233189	235498	48	MH
0420	Glebe Ho d/s Kilbeggan	0	0	48	MH
0450	Br near Lismoynty	229565	233197	48	OF
0500	Lehinch u/s Clara	228318	232293	48	OF
0600	Bolart Br	223379	232486	48	OF
0700	Ballycumber Br	221137	230646	48	OF
0760	0.5km NW of Pollagh	219007	225677	48	OF
0800	Br nr Kilcolgan	214922	223732	48	OF
0950	Ferbane Br	211508	224407	47	OF
1000	Bellmount d/s Ferbane	207296	222118	47	OF
1100	Clonony Br	204768	220877	47	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	88	4	0	100	48	0	0	52	0	0	0
0200	84	157	0	100	72	2	1	5	6	8	6
0250	80	185	0	100	71	2	2	4	8	7	6
0400	67	220	0	100	72	2	2	4	8	6	6
0450	62	252	0	100	73	2	2	4	9	5	5
0500	57	260	0	100	73	2	2	4	9	5	5
0600	49	391	0	100	78	2	2	3	8	3	4
0700	48	422	0	100	78	1	3	3	7	3	4
0760	45	817	3	97	73	2	6	3	9	2	6
0800	43	923	4	96	70	2	9	3	9	1	7
0950	41	1117	7	93	67	3	10	2	9	1	7
1000	39	1126	7	93	68	3	10	2	9	1	7

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

AN GHNÍOMHAIREACHT UM CHAOMHNÚ COMHSHAOIL

Tá an Gníomhaireacht um Chaomhnú Comhshaoil (GCC) freagrach as an gcomhshaoil a chaomhnú agus a fheabhsú mar shócmhainn luachmhar do mhuintir na hÉireann. Táimid tiomanta do dhaoine agus don chomhshaoil a chosaint ó éifeachtaí díobhálacha na radaíochta agus an truaillithe.

Is féidir obair na Gníomhaireachta a roinnt ina trí phríomhréimse:

Rialú: Déanaimid córais éifeachtacha rialaithe agus comhlionta comhshaoil a chur i bhfeidhm chun torthaí maithe comhshaoil a sholáthar agus chun díriú orthu siúd nach gcloíonn leis na córais sin.

Eolas: Soláthraimid sonraí, faisnéis agus measúnú comhshaoil atá ar ardchaighdeán, spríodhíre agus tráthúil chun bonn eolais a chur faoin gcinnteoireacht ar gach leibhéal.

Tacaíocht: Bimid ag saothrú i gcomhar le grúpaí eile chun tacú le comhshaoil atá glan, táirgiúil agus cosanta go maith, agus le hiompar a chuirfidh le comhshaoil inbhuanaithe.

Ár bhFreagrachtaí

Ceadúnú

Déanaimid na gníomhaíochtaí seo a leanas a rialú ionas nach ndéanann siad dochar do shláinte an phobail ná don chomhshaoil:

- saoráidí dramhaíola (*m.sh. láithreáin líonta talún, loisceoirí, stáisiúin aistriúcháin dramhaíola*);
- gníomhaíochtaí tionsclaíoch ar scála mór (*m.sh. déantúsaíocht cógaisíochta, déantúsaíocht stroighne, stáisiúin chumhachta*);
- an diantalmhaíocht (*m.sh. muca, éanlaith*);
- úsáid shrianta agus scaoileadh rialaithe Orgánach Géinmhodhnaithe (*OGM*);
- foinsí radaíochta ianúcháin (*m.sh. trealamh x-gha agus radaiteiripe, foinsí tionsclaíochta*);
- áiseanna móra stórála peitрил;
- scardadh dramhuisce;
- gníomhaíochtaí dumpála ar farraige.

Forfheidhmiú Náisiúnta i leith Cúrsaí Comhshaoil

- Clár náisiúnta iniúchtaí agus cigireachtaí a dhéanamh gach bliain ar shaoráidí a bhfuil ceadúnas ón nGníomhaireacht acu.
- Maoirseacht a dhéanamh ar fhreagrachtaí cosanta comhshaoil na n-údarás áitiúil.
- Caighdeán an uisce óil, arna sholáthar ag soláthraithe uisce phoiblí, a mhaoirsiú.
- Obair le húdaráis áitiúla agus le gníomhaireachtaí eile chun dul i ngleic le coireanna comhshaoil trí chomhordú a dhéanamh ar líonra forfheidhmiúcháin náisiúnta, trí dhírú ar chiontóirí, agus trí mhaoirsiú a dhéanamh ar leasúchán.
- Cur i bhfeidhm rialachán ar nós na Rialachán um Dhramhthrealamh Leictreach agus Leictreonach (DTLL), um Shrian ar Shubstaintí Guaiseacha agus na Rialachán um rialú ar shubstaintí a idíonn an ciseal ózóin.
- An dlí a chur orthu siúd a bhriseann dlí an chomhshaoil agus a dhéanann dochar don chomhshaoil.

Bainistíocht Uisce

- Monatóireacht agus tuairisciú a dhéanamh ar cháilíocht aibhneacha, lochanna, uisce idirchriosacha agus cósta na hÉireann, agus screamhuisc; leibhéal uisce agus sruthanna aibhneacha a thomhas.
- Comhordú náisiúnta agus maoirsiú a dhéanamh ar an gCreat-Treoir Uisce.
- Monatóireacht agus tuairisciú a dhéanamh ar Cháilíocht an Uisce Snámha.

Monatóireacht, Anailís agus Tuairisciú ar an gComhshaoil

- Monatóireacht a dhéanamh ar cháilíocht an aeir agus Treoir an AE maidir le hAer Glan don Eoraip (CAFÉ) a chur chun feidhme.
- Tuairisciú neamhspleách le cabhrú le cinnteoireacht an rialtais náisiúnta agus na n-údarás áitiúil (*m.sh. tuairisciú tréimhsiúil ar staid Chomhshaoil na hÉireann agus Tuarascálacha ar Tháscairí*).

Rialú Astaíochtaí na nGás Ceaptha Teasa in Éirinn

- Fardail agus réamh-mheastacháin na hÉireann maidir le gáis ceaptha teasa a ullmhú.
- An Treoir maidir le Trádáil Astaíochtaí a chur chun feidhme i gcomhair breis agus 100 de na táirgeoirí dé-ocsaíde carbóin is mó in Éirinn.

Taighde agus Forbairt Comhshaoil

- Taighde comhshaoil a chistiú chun brúnna a shainiú, bonn eolais a chur faoi bheartais, agus réitigh a sholáthar i réimsí na haeráide, an uisce agus na hinbhuanaitheachta.

Measúnacht Straitéiseach Timpeallachta

- Measúnacht a dhéanamh ar thionchar pleananna agus clár beartaithe ar an gcomhshaoil in Éirinn (*m.sh. mórfheananna forbartha*).

Cosaint Raideolaíoch

- Monatóireacht a dhéanamh ar leibhéal radaíochta, measúnacht a dhéanamh ar nochtadh mhuintir na hÉireann don radaíocht ianúcháin.
- Cabhrú le pleananna náisiúnta a fhorbairt le haghaidh éigeandálaí ag eascairt as tairmí núicléacha.
- Monatóireacht a dhéanamh ar fhorbairtí thar lear a bhaineann le saoráidí núicléacha agus leis an tsábháilteacht raideolaíochta.
- Sainseirbhísí cosanta ar an radaíocht a sholáthar, nó maoirsiú a dhéanamh ar sholáthar na seirbhísí sin.

Treoir, Faisnéis Inrochtana agus Oideachas

- Comhairle agus treoir a chur ar fáil d'earnáil na tionsclaíochta agus don phobal maidir le hábhair a bhaineann le caomhnú an chomhshaoil agus leis an gcosaint raideolaíoch.
- Faisnéis thráthúil ar an gcomhshaoil ar a bhfuil fáil éasca a chur ar fáil chun rannpháirtíocht an phobail a spreagadh sa chinn-teoireacht i ndáil leis an gcomhshaoil (*m.sh. Timpeall an Tí, léarscáileanna radóin*).
- Comhairle a chur ar fáil don Rialtas maidir le hábhair a bhaineann leis an tsábháilteacht raideolaíoch agus le cúrsaí práinnfhreagartha.
- Plean Náisiúnta Bainistíochta Dramhaíola Guaisí a fhorbairt chun dramhaíl ghuaiseach a chosaint agus a bhainistiú.

Múscailt Feasachta agus Athrú Iompraíochta

- Feasacht chomhshaoil níos fearr a ghiniúint agus dul i bhfeidhm ar athrú iompraíochta dearfach trí thacú le gnóthais, le pobail agus le teaghlaigh a bheith níos éifeachtúla ar acmhainní.
- Tástáil le haghaidh radóin a chur chun cinn i dtithe agus in ionaid oibre, agus gníomhartha leasúcháin a spreagadh nuair is gá.

Bainistíocht agus struchtúr na Gníomhaireachta um Chaomhnú Comhshaoil

Tá an gníomhaíocht á bainistiú ag Bord Iáinimseartha, ar a bhfuil Ard-Stiúrthóir agus cúigear Stiúrthóirí. Déantar an obair ar fud cúig cinn d'Oifigí:

- An Oifig um Inmharthanacht Comhshaoil
- An Oifig Forfheidhmithe i leith cúrsaí Comhshaoil
- An Oifig um Fianaise is Measúnú
- An Oifig um Cosaint Raideolaíoch
- An Oifig Cumarsáide agus Seirbhísí Corparáideacha

Tá Coiste Comhairleach ag an nGníomhaireacht le cabhrú léi. Tá dáréag comhaltáí air agus tagann siad le chéile go rialta le plé a dhéanamh ar ábhair inné agus le comhairle a chur ar an mBord.

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