

Interim Report on the Biological Survey of River Quality

Results of the 2005 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 2005 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 macro-scopic) 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 bio-degradation 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., run-off 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.

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 but in practice macroinvertebrate community analysis is found to be satisfactory for routine water quality monitoring purposes.

For the purposes of the EPA assessment procedure benthic macroinvertebrates have been divided into five 'Indicator Groups' as follows: Group A, the sensitive forms, Group B, the less sensitive forms, Group C, the tolerant forms, Group D, the very tolerant forms and Group E, the most tolerant forms (Toner *et al.*, 2005).

In contrast to physico-chemical surveys which extend throughout the year, biological 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 in the shallower, faster-flowing areas (riffles) and the assessment of water quality is made on site. Having determined the relative proportions of the various organisms in the sample, water quality is inferred by a comparison of this data with that which

might be expected from unpolluted habitats of the type under investigation. Other relevant factors such as the intensity of algal and/or weed development, presence of slime growths, water turbidity, siltation, dissolved oxygen and water temperature, are also taken into account in the assessment procedure.

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) Values 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. The scheme may be further simplified as shown by the classification set out below:-

Class A waters are those in which problems relating to existing or potential beneficial uses are unlikely to arise and they are, therefore, regarded as being in a 'satisfactory' condition. Classes B, C and D are to a lesser or greater extent 'unsatisfactory' in this regard. For example, the main characteristic of Classes B and C waters is eutrophication, which may interfere with the amenity, abstraction or fisheries potential. In Class D waters excessive organic loading leads to deoxygenation and may produce 'sewage fungus' (slime) growths, and as a

consequence most beneficial uses are severely curtailed or eliminated.

References

Toner, P., Bowman, J., Clabby, K., Lucey, J., McGarrigle, M., Concannon, C.,

Cleneghan, C., Cunningham, P., Delaney, J., O'Boyle, S., MacCarthaigh, M., Craig M. and Quinn, R., 2005. *Water Quality in Ireland 2001 – 2003*. Environmental Protection Agency, Ireland.

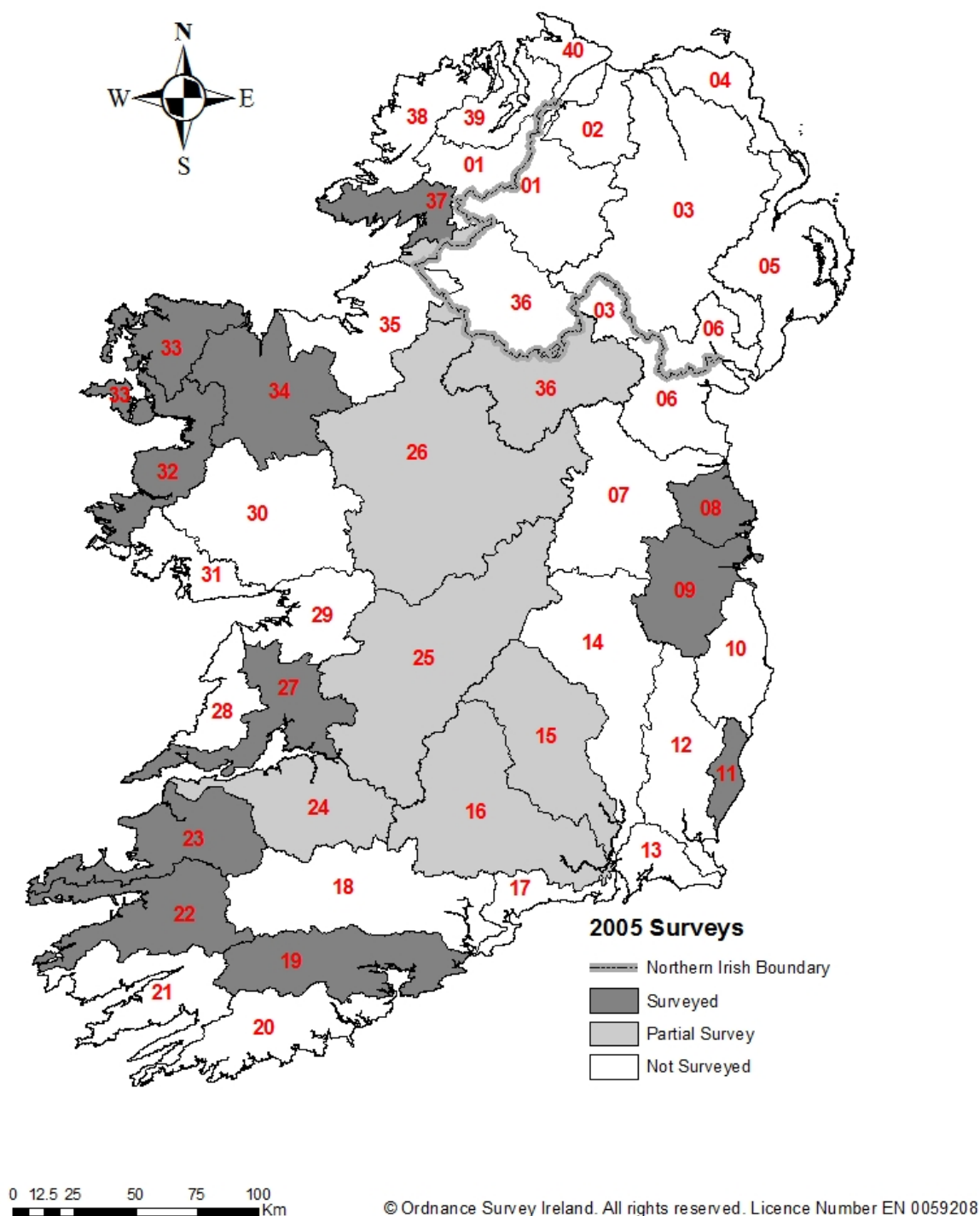
Table 1: The EPA Q-value classification system and its relationship to water quality

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.

2005 INTERIM BIOLOGICAL (MACROINVERTEBRATE) REPORTS

Principal Hydrometric Areas Surveyed



HYDROMETRIC AREA 08 (Nanny – Devlin)	
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

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

* 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: 10/5/2005

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

Assessment: An unbalanced and very restricted fauna indicated significant water quality impairment at Corduff Bridge in mid May 2005. Agriculture suspected.

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: 10/5/2005

08/B/01

OS Catchment No: 163

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

Assessment: The complete absence of sensitive species indicated considerable ecological disruption at both locations surveyed on the Ballyboghil River in May 2005. 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: 9/5/2005, 10/5/2005

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1973	1974	1976	1981	1983	1985	1988	1989	1991	1994	1996	1998	2001	2005
0400	-	-	-	-	3	3	2-3	3	2-3	2	3	3	2-3	2-3	2-3
0500	2	3	2-3	2	3	1	2-3	2	2-3	1-2	2-3	1-2	1	2-3	2-3
0600	-	-	-	-	3	2-3	3-4	3-4	-	3	-	3	2-3	3	3
0800	3-4	4	3-4	3	3-4	3	3	3	-	3	-	3	2-3	3	2-3

Assessment: As in all previous surveys sensitive species were not observed at any of the locations surveyed on the Broadmeadow in 2005 indicating significant water quality degradation over its course. Stations 0150 and 0200 have been re-assigned to the Ratoath Stream (08R01) and Station 0300 to the Dunshaughlin Stream (08D03).

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
0600	Greenoge Br (WSW of Fieldstown Ho)	310722	250322	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
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**

08/D/01

Tributary of : Sea - Gormanston

OS Catchment No: 162

OS Grid Ref of Confluence: O 182 664

Date(s) Surveyed: 13/5/2005

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

Assessment: Continuing moderately polluted in the Naul area (0080) but following a significant improvement at Gormanstown (0400) the lower river was satisfactory in May 2005. Heavy siltation from sandpits threaten this situation in the Forty Acres area (0250) however.

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: 9/5/2005

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
0300	2	3	2	2	2	2-3	2	2-3	3	2-3	1-2	3	2-3/0	3

Assessment: Despite a minor improvement since 2001 conditions remained unsatisfactory as regards water quality at Cookstown Bridge in 2005. A large bore pipe from a nearby industrial estate discharges just below the bridge. This location was formerly included with the Broadmeadow (q.v.).

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: 9/5/2005

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

Assessment: Slightly improved since 2001 but remains in a moderately polluted condition.

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**

08/H/01

Tributary of : 08N01 NANNY (MEATH)

OS Catchment No: 160

OS Grid Ref of Confluence: O 003 655

Date(s) Surveyed: 10/5/2005, 12/5/2005

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

Assessment: Following a marked improvement in the lower reaches conditions were mostly satisfactory in the Hurley at the time of this survey but heavy siltation depressed ecological diversity at Painestown (0200) where the river was assessed as slightly polluted.

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: 13/5/2005

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

Assessment: Abundant filamentous algae and the absence of sensitive macroinvertebrate indicator species point to a continuation of unsatisfactory conditions in the Mosney River in May 2005.

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: 12/5/2005, 13/5/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1978	1980	1982	1986	1988	1991	1996	1998	2001	2005
0040	-	-	-	-	-	-	-	-	2-3	2-3	2	2-3
0110	-	-	-	-	-	-	3	3	3	2-3	2-3	2-3
0280	-	-	-	-	-	-	3	3	3	3-4	3-4	4
0500	3	1-2	3	3	3-4	3-4	3	3-4	3	3-4	3-4	3-4
0700	4	3-4	3	3	3-4	3-4	3-4	3	3-4	3-4	3	3-4

Assessment: Despite slight improvements at three locations (0040, 0280 and 0700) the Nanny was in a mostly unsatisfactory quality condition when surveyed in May 2005. Just one location (0280) could be regarded as satisfactory as regards macroinvertebrate composition but the high Dissolved Oxygen reading recorded there (134%) indicated some enrichment also. The upper river was no longer seriously polluted at Folistown Bridge (0040) but the substratum there and also downstream at Kentstown (0110) was very heavily silted with deep banks of mud at the sides. As indicated by luxuriant algal crops and considerable bottom siltation at Bellewstown (0500) and Julianstown (0700) the lower river continued to be impacted by eutrophication and possibly land disturbance.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Folistown Br	292819	266023	43	MH
0110	East Br Kentstown	297656	264965	43	MH
0280	Br d/s Nanny Br	302759	265156	43	MH
0500	Br NE of Bellewstown Ho	307307	269147	43	MH
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: 9/5/2005

Formerly Ratoath Branch of the Broad Meadow 08B02

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

Assessment: Formerly reported as the Ratoath Branch of the Broadmeadow this little stream was in a slightly better condition in May 2005 than previously thus continuing the improvement first recorded in 2001. A continuation of this trend should see satisfactory conditions restored in the near future.

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	N/A	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****08/W/01**

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 186 417

Date(s) Surveyed: 9/5/2005

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1973	1974	1977	1979	1981	1983	1985	1988	1991	1994	1996	1998	2001	2005
0070	-	-	-	-	-	-	-	-	3	2-3	3	2-3	2-3	3	2
0300	-	3	2	4	3	3-4	3	3	3	3	-	3	3	3	2-3
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

Assessment: With serious pollution apparent at Coolatrath Bridge (0070) and conditions bordering on this at the other two locations surveyed the Ward River was in a highly unsatisfactory condition in early May 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
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
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.

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: 17/5/2005

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

Assessment: Continuing satisfactory.

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****09/B/08**

Tributary of : 09K01 KING'S (LIFFEY)

OS Catchment No: 168

OS Grid Ref of Confluence: O 032 020

Date(s) Surveyed: 17/5/2005

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

Assessment: Continuing satisfactory despite signs of increasing enrichment i.e., moderate algal development from suspected forestry activities upstream.

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: 19/5/2005

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

Assessment: Continuing highly satisfactory. Five sensitive macroinvertebrate species observed here at the time of this survey.

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**
 Tributary of : 09B03 BALLYDONNELL BROOK
 OS Grid Ref of Confluence: O 062 135
 Date(s) Surveyed: 19/5/2005

09/B/04

OS Catchment No: 168

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

Assessment: Considerable growths of the filamentous alga *Batrachospermum* sp. indicated some enrichment from suspected forestry activities at the location surveyed in 2005 but macroinvertebrate diversity was consistent with a satisfactory quality status.

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**

09/B/02

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: O 025 160

Date(s) Surveyed: 19/5/2005

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

Assessment: The appearance of luxuriant crops of algal infested moss and heavy substratum siltation indicated some ecological upset at the upper surveyed location (0100) representing a deterioration since 2002. Conditions at the two downstream stations remained satisfactory.

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**

09/C/02

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: N 137 343

Date(s) Surveyed: 21/6/2005

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1974	1977	1979	1981	1983	1984	1986	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005
0050	-	-	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-	-
0100	5	5	5	4-5	4-5	3	4-5	3	-	4	-	-	4	-	4	3	3-4	3
0150	-	-	-	-	-	-	-	-	-	4	-	-	4-5	-	-	-	-	-
0200	3-4	3	3	3-4	3-4	3	3	2-3	-	2	2/0	2	2	2	2	2	-	-
0250	-	-	-	-	-	-	-	-	-	3	2/0	3	3	-	-	-	2-3	3
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
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

Assessment: Upper reaches (0100) polluted by oil, very dirty at Baldonnell (0250), moderately polluted at Clondalkin (0310) and despite some improvement there were signs of toxicity in the Inchicore area (0500) at the time of this survey in June 2005.

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	3167	27047	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**

09/C/03

Tributary of : 09L02 LYREEN

OS Catchment No: 168

OS Grid Ref of Confluence: N 892 350

Date(s) Surveyed: 16/6/2005

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

Assessment: With no sensitive macroinvertebrates and a virtual absence of all insect nymphs the quality profile of the upper Clonshanbo (0300) had once again regressed to a state bordering on serious pollution while the lower reaches continued as before i.e., moderately polluted. Unsatisfactory and deteriorating.

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: 17/5/2005

09/C/04

OS Catchment No: 168

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

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Kilmore	302092	208816	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: 22/6/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1975	1977	1979	1981	1984	1988	1991	1996	1998	2002	2005
0010	-	-	-	-	-	-	-	5	5	4	5	5	4
0100	-	-	5	4-5	5	5	5	-	4	4-5	4-5	4	4-5
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
0600	-	-	-	-	-	3	4	2-3	-	-	-	-	-
0620	-	-	-	-	-	-	-	-	3	3	3	3	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
0900	3-4	1-2	3	3	3	2-3	2-3	3	3	-	-	-	-
1000	2	1-2	1	2-3	2-3	2	2-3	-	-	-	-	-	-

Assessment: Overall profile little changed since 2002. The 'Fair' quality rating (Q4) at Station 0010 is lower than in former years and reflects the ecological effects of considerable siltation upstream of the reservoir: the cause of this is not known but it could be due to livestock access. The reach upstream of Fort Bridge (0100) is hydromorphologically degraded although water quality there continues to be quite good. The middle and lower reaches continue to reflect the impacts of the various adverse influences on quality viz. storm overflows, diffuse urban run-off etc.

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: 17/5/2005

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

Assessment: Continuing satisfactory.

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: 17/6/2005

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
0500	2	2	1-2	3	2-3	2	2	2	2	2	2	2-3	3

Assessment: Formerly reported as the Dunboyne Branch of the Tolka (q.v.) water quality continues to be of an unsatisfactory standard at Dunboyne. The stream had been dredged prior to this survey but a smell of sewage indicated one possible source of the pollution recorded there.

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: 17/5/2005

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

Assessment: The absence of acid sensitive mayflies may indicate episodic acid events in this upland brook but overall quality is assessed as satisfactory.

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: 10/6/2005

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

Assessment: A major deterioration was recorded in the Yellowbog area (0800) where the river was seriously polluted by unknown toxic influences. The lower reaches (1100) were also significantly polluted at the time of this survey in June 2005. The situation has been reported to Wicklow County Council.

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: 17/5/2005

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

Assessment: Has improved considerably in upper reaches (0060) since 2002 and was satisfactory there as at Lockstown Bridge (0100) downstream in mid May 2005.

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: 10/6/2005

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

Assessment: Despite some siltation at 0100 and cattle damage at 0600 the diversity and numbers of sensitive macroinvertebrates found indicate satisfactory quality conditions at both locations surveyed in June 2005.

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: 10/6/2005, 14/6/2005, 16/6/2005, 19/5/2005

Biological Quality Ratings (Q Values)

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

Assessment: Water quality in the Liffey in June 2005 was similar to 2002 i.e., generally satisfactory (mostly 'Fair' quality) but the reach from Leixlip to Lucan and beyond remained moderately polluted by suspected sewage and water treatment plant effluents. Although remaining satisfactory, the upper reaches are stressed by forestry, agriculture and quarrying and this is reflected in the reduced ('Fair') quality at Ballysmuttan and Ballyward Bridges (0200, 0250). Rubbish dumped at Station 0100 marred the aesthetic beauty of this remote location. The river from Ballymore Eustace (0400) to Connell Ford (0850) was quite heavily silted by suspected water treatment works discharges which, combined with typical lake effects, would have contributed to the reduced quality ratings in this stretch. A marked deterioration was recorded upstream of Kilcullen (0600) where luxuriant algal crops and a dirty substratum indicated some considerable impact. Weed growth has increased considerably at Castlekeely Ford (1200) below Osberstown since 2002 but for the present conditions there remain satisfactory (Q4). Abundant weed-growth at Clane (1500) and luxuriant algal developments at Straffan (1600) reflected some considerable eutrophication at these locations while at Leixlip (1900) ecological disruption due to heavy siltation from the water treatment works continued. There were some indications of a recovery at Lucan (2100) but further improvement is required here before a satisfactory standard of water quality is achieved.

Hydrometric Area 09 (2005)

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	302770	216276	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	284239	219446	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 Park)	309691	234954	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**

09/L/02

Tributary of : 09R01 RYE WATER

OS Catchment No: 168

OS Grid Ref of Confluence: N 942 388

Date(s) Surveyed: 16/6/2005

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1979	1981	1983	1985	1987	1988	1989	1991	1994	1996	1998	2002	2005
0030	-	-	-	-	-	-	-	-	3	-	2-3	-	-	-	-	-
0035	-	-	-	-	-	-	-	-	-	-	-	3	2-3	2-3	3	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

Assessment: The Lyreen was again hypertrophic at both points surveyed in mid-June 2005. Dissolved Oxygen was 176% in the lower reaches (0100) at that time.

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**

09/M/03

Tributary of : Sea - at Howth

OS Catchment No: 165

OS Grid Ref of Confluence: O 239 416

Date(s) Surveyed: 21/6/2005

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

Assessment: No further improvement since 2002. Remains moderately polluted.

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**

09/M/01

Tributary of : 09L01 LIFFEY

OS Catchment No: 168

OS Grid Ref of Confluence: N 926 921

Date(s) Surveyed: 16/5/2005

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

Assessment: Following a significant improvement at Johnstown (0100) the Morell River was in a mostly satisfactory ('Fair') condition when surveyed in May 2005. Further abatement of eutrophication is required in the Sherlockstown area (0150), however, and the upper reaches (0060) continued to be hydromorphologically damaged by watering cattle, a situation which could be easily remedied by the employment of an electric fence.

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: 9/6/2005

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

Assessment: Upper reaches continuing satisfactory but significant toxic pollution recorded at Scholarstown (1300) and little recovery apparent at the Dodder confluence (1700) in June 2005.

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 NE of Jamestown	313385	224011	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**

09/P/01

Tributary of : 09M01 MORELL

OS Catchment No: 168

OS Grid Ref of Confluence: N 922 273

Date(s) Surveyed: 16/5/2005

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

Assessment: A significant improvement was recorded in Kill village (0300) where serious pollution was no longer evident in May 2005. Further abatement is required, however, before the moderate pollution persisting there and the slight pollution further downstream (0400) is addressed.

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: 17/6/2005

09/P/02

OS Catchment No: 167

Station Nos.	Biological Quality Ratings (Q Values)			
	1996	1998	2002	2005
0700	1	3	3	3

Assessment: This tiny stream may run dry at times and so the total lack of sensitive species may not be entirely due to pollution but in any case dilution/assimilative capacity is minimal and so even small waste inputs would be expected to adversely affect stream ecology as at the time of this survey when there were indications of a significant degree of water quality impairment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br SW of Powerstown	305800	242500	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
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: 16/5/2005

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

Assessment: Continuing satisfactory. Also known as Hartwell Stream.

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	292542	221951	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: 17/6/2005

Station Nos.	Biological Quality Ratings (Q Values)															
	1971	1973	1975	1977	1979	1981	1983	1985	1988	1989	1990	1991	1996	1998	2002	2005
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
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
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
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

Assessment: Widespread eutrophication continued to affect the Rye Water in 2005. Some improvement was apparent at Anne's Bridge but the more marked pollution continued at Kildare Bridge and at Leixlip (0400, 0600): in addition to pronounced eutrophication a toxic effect was suspected at the latter location due to the unusual fauna and the sterile appearance of the substratum below the weir.

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**

09/S/01

Tributary of : Sea - at Dollymount

OS Catchment No: 166

OS Grid Ref of Confluence: O 203 376

Date(s) Surveyed: 21/6/2005

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

Assessment: Some improvement was apparent at Clonsaugh where serious pollution had abated. The Bettyglen site was inaccessible at this time.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Clonsaugh 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: 17/6/2005, 21/6/2005

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1979	1981	1983	1985	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005
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
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
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
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
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
1200	1	1	-	1	1	1-2	2	2	2	2	1/0	1-2	2	2-3	-	-	-	-

Assessment: The Tolka had improved somewhat in the Black Bull area (0300) since 2002 but as at Dunboyne (0600) downstream there was evidence of considerable eutrophication. The river was again assessed as moderately polluted at Mulhuddart, Abbotstown and Finglas, the latter location additionally affected by oil pollution.

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	31587	22685	50	
1100	Violet Hill Drive Finglas	314313	237425	50	DN
1200	Drumcondra Rd Br	316200	236730	50	

Hydrometric Area 09 (2005)

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.

HYDROMETRIC AREA 11 (Owenavorragh)	
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: 27/6/2005

Formerly Clonough North West Branch 11C01

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

Assessment: Formerly reported as the North West Branch of the Clonough River (11C01) (q.v.) this stream was again considerably impacted by heavy deposits of silt at the time of this survey in late June 2005. *Heavy Siltation.

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: 29/6/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1998	2001	2005
0180	3	3	2	1	2	3

Assessment: Despite heavy siltation and turbidity from construction work just upstream, a noticable improvement was apparent at Riverchapel in June 2005. Further improvement will be required, however, before fully satisfactory conditions are restored.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0180	Riverchapel Br	319604	155346	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: 28/6/2005

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

Assessment: As in 2001 sewage is suspected as the cause of the continuing moderate pollution at Ballyedmond Bridge. No change. Unsatisfactory.

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****11/B/02**

Tributary of : 11O01 OWENAVORRAGH

OS Catchment No: 177

OS Grid Ref of Confluence: T 160 562

Date(s) Surveyed: 27/6/2005

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

Assessment: The upper surveyed reaches of the Banoge (0050) were slightly polluted by suspected domestic influences and the lower reaches (0300) were again considerably impacted by suspected sewage effluent from Gorey. Overall condition unsatisfactory and somewhat worse than in 2001.

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 Owenavorrigh 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: 28/6/2005

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

Assessment: Following a marked improvement since 2001 satisfactory conditions were restored at Blackwater (0200) on the Main Channel. Surveys of the West Branch are no longer possible as the stream is now overgrown and inaccessible.

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**

11/B/04

Tributary of : 11O01 OWENAVORRAGH

OS Catchment No: 177

OS Grid Ref of Confluence: T 148 545

Date(s) Surveyed: 29/6/2005

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

Assessment: A slight improvement was recorded at Essex Bridge (0200) in 2005 although algal growth indicated some enrichment there. Overall condition satisfactory.

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: 27/6/2005

11/C/01
 OS Catchment No: 176

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

Assessment: Station 0100 was inadvertently overlooked but following an improvement at Clonough Bridge (0300) both locations surveyed were satisfactory in 2005. The North West Branch has been renamed Askinch Upper Stream (11A03) (q.v.).

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: 27/6/2005

Formerly Inch North Branch 11I01

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

Assessment: Continuing satisfactory. Formerly reported as the North Branch of the Inch River (11I01).

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: 27/6/2005

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

Assessment: Heavily silted and distinctly eutrophic at Inch (0095) but improved at Castletown Bridge (0200) where satisfactory in 2005. For Station 0040 on the North Branch see Gorteen Upper Stream (11G01) (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0095	Br in Inch	319027	166849	62	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 : **OWENA VORRAGH**

11/O/01

Tributary of :

OS Catchment No: 177

OS Grid Ref of Confluence: T 203 561

Date(s) Surveyed: 28/6/2005, 29/6/2005

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

Assessment: Improvements were recorded at all but the lowermost location (0700) where deterioration due to suspected sewage was recorded in 2005. Recent fencing has had a beneficial effect at Essex Bridge (0500) where satisfactory conditions have been restored and, although some improvement was also apparent at Stations 0300 and 0580, these locations have not yet reached a satisfactory quality standard.

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.

HYDROMETRIC AREA 15 (Nore – Partial Survey)

Partial Survey Only

ARIGNA (KILKENNY)	15A01
BALLYROAN	15B01
BAUNBALLINLOUGH STREAM *	15B12
BREGAGH (KILKENNY)	15B02
BROWNSTOWN STREAM	15B04
CAPPANACLOGHY	15C06
CASTLECOMER STREAM	15C01
CLOGH	15C03
CLOGHNAGH	15C04
CLONAWOOLAN STREAM *	15C19
COALBROOK STREAM *	15C20
DELOUR	15D01
DININ (NORE)	15D02
DININ NORTH *	15D07
DININ SOUTH *	15D08
DONAGHMORE STREAM	15D03
ERKINA	15E01
ERRILL	15E03
# GARRANACOOOL STREAM *	15G10
GORTEENAHILLA	15G08
GOUL	15G02
GULLY	15G03
KILLEEN	15K01
KING'S (KILKENNY)	15K02
LISDOWNEY	15L02
MOUNTRATH	15M01
MUCKALEE	15M02
MUNSTER	15M03
NEEDLEFORD STREAM	15N04
NUENNA	15N02
OWVEG (NORE)	15O01
RATHDOWNEY STREAM	15R03
TONET	15T01
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: 30/6/2005

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

Assessment: Satisfactory following improvement, since previous survey, at the only location examined.

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.

River and Code : **BALLYROAN**
 Tributary of : 15N01 NORE
 OS Grid Ref of Confluence: S 410 848
 Date(s) Surveyed: 22/6/2005

15/B/01
 OS Catchment No: 184

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

Assessment: Unsatisfactory, due to mostly slight pollution, following deterioration, since previous survey, at the first location (0100) resulting in reversion to 1998 conditions. Continuing moderately polluted at the final location (0200) downstream of Abbeylax.

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

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: 24/6/2005

Formerly reported as the Ballydonnell Branch of the Goul 15G02

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

Assessment: Deterioration, from slight to moderate pollution, since previous survey. Formerly Ballymacdonnell Branch of Goul.

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: 2/8/2005

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

Assessment: Continuing moderately polluted at both 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: 30/6/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1991	1995	1998	2001	2005
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

Assessment: No change with eutrophic conditions at first location (0800) and satisfactory conditions at the other location (1100), which is upstream of Nore River confluence, but where an increase in filamentous algae was recorded since the previous survey. Also known as the Pooke 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 : **CAPPANACLOGHY**

15/C/06

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 404 877

Date(s) Surveyed: 21/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1987	1988	1989	1990	1991	1995	1998	2001	2005
0100	3-4	-	-	-	-	-	-	-	-
0400	2	2	2	2	3	2	3	2	3-4
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

Assessment: Although satisfactory at just one location significant improvement was recorded at two locations (0400, 0900) with no change, since previous survey, at the other (0700).

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	LS
0500	W of Gorteen	0	0	0	LS
0600	Cloncourse Br	241190	195424	54	LS
0700	The Hollow Br	241193	193775	54	LS
0800	Doon Br	0	0	0	LS
0900	Bartle's Br	240302	189619	60	LS

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: 2/8/2005

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

Assessment: Slightly polluted by sewage from 'storm overflow' immediately upstream of bridge from left-hand side. In 2001 sewage was entering from left-hand side of river just downstream of the bridge.

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: 2/8/2005

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

Assessment: Reversion to 1998 status following improvement, since 2001 survey, to satisfactory conditions at Slatt Bridge (0200). Continuing slightly polluted at the other location (0400) which is also known as Cooltha Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	The Swan Br	256454	182512	61	LS
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: 5/7/2005

15/C/04

OS Catchment No: 184

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

Assessment: Improvement at the lowermost location (0400), since previous survey, but again slightly polluted at the other location (0300) examined. 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: 20/7/2005

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
1100	1	2	2-3	2-3	2-3	3-4	2	2-3

Assessment: Moderately polluted representing some 'improvement' from seriously polluted condition in 2001.

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

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: 7/7/2005

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

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

Assessment: Continuing satisfactory. Formerly West Branch of Kings River.

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 : **DELOUR**

15/D/01

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 305 919

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1980	1986	1989	1991	1995	1998	2001	2005
0060	-	-	-	5	5	5	4-5	4	4
0100	-	5	4-5	5	4-5	-	-	-	-
0150	-	-	-	-	-	3-4*	4	4-5	4-5
0200	-	5	4-5	4	4-5	-	-	-	-
0300	4-5	4	4	-	-	-	-	-	-
0400	-	-	-	4-5	4-5	4-5	4-5	4	4

Assessment: Continuing satisfactory with no change since previous survey. The first location (0060) was a high biological quality site until the late 1990s.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Dooley's Br	230174	200409	54	LS
0100	Lacca Br	229177	198052	54	LS
0150	Garrafin Br	229058	195614	54	LS
0200	Delour Br	228000	194600	0	LS
0300	Annagh Br	229102	193504	54	LS
0400	Derrynaseera Br	229478	192448	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	176	17	100	0	4	57	30	0	4	0	4
0100	145	31	100	0	10	57	25	0	6	0	3
0150	124	35	96	4	15	51	21	0	8	0	5
0300	99	68	96	4	28	38	18	0	11	0	5
0400	97	70	95	5	29	37	17	0	12	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 : **DININ (NORE)**

15/D/02

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 468 619

Date(s) Surveyed: 22/7/2005

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

Assessment: Unsatisfactory, due to widespread eutrophication, following deterioration, since previous survey, at two locations (0760, 0800).

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: 21/7/2005

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
0070	-	-	-	-	-	4-5	-	4	-	-	-	-
0080	-	-	-	-	-	2	3	3	3	3	3-4	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
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

Assessment: Despite amelioration in condition at one location, since previous survey, two of the four locations (0080, 0400) were unsatisfactory. Formerly North Branch of Dinin.

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	LS
0100	Br N of Crettyard House	258800	177500	61	LS
0125	Doonane Br	0	0	0	LS
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: 21/7/2005, 22/7/2005

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
0450	-	5	5	4	4-5	4	3-4	4	4
0500	5	5	5	-	-	4	4	3-4	4
0600	4-5	5	4-5	4-5	4	3-4	4	4	3-4

Assessment: Two of the three locations were satisfactory following improvement at one (0500) since previous survey. Formerly South Branch of Dinin.

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
0600	N/A	87	0	100	67	13	0	0	0	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 : **DONAGHMORE STREAM****15/D/03**

Tributary of : 15E01 ERKINA

OS Catchment No: 184

OS Grid Ref of Confluence: S 276 788

Date(s) Surveyed: 28/6/2005

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

Assessment: Some amelioration of conditions at one of the locations (00400) since the previous survey but continuing slightly polluted at the other (0700) where small amounts of domestic sewage were reaching the river from behind a public house.

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

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 : **ERKINA****15/E/01**

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 420 773

Date(s) Surveyed: 28/6/2005, 29/6/2005

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

Assessment: No overall change with five of the six locations again indicating unsatisfactory conditions due mostly to eutrophication. The only change, since the previous survey, was that one location (0100) had deteriorated, from satisfactory to slightly polluted, while another (0400) had improved in the opposite direction. Continuing moderately polluted downstream of Rathdowney (0200).

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

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**
Tributary of : 15E01 ERKINA
OS Grid Ref of Confluence:
Date(s) Surveyed: 28/6/2005

15/E/03

OS Catchment No:

Biological Quality Ratings (Q Values)

Station Nos. **2005**
0500 3-4

Assessment: Sampled for the first time in June 2005 when the only location was slightly polluted.

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

River and Code : **GARRANACOO L STREAM** **15/G/10**
 Tributary of : 15K02 KING'S (KILKENNY) OS Catchment No: 184
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 28/6/2005

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

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

Assessment: Seriously polluted due to agricultural discharge, via a stream some 300 m upstream of bridge, to river. The river was heavily infested with slime growths and many dead invertebrates were recorded. Formerly East Branch of Kings River.

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 : **GORTEENAHILLA**

15/G/08

Tributary of : 15N02 NUENNA

OS Catchment No: 184

OS Grid Ref of Confluence: S 405 647

Date(s) Surveyed: 29/6/2005

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

Assessment: Continuing eutrophic at the only site sampled - 0500 is no longer sampled as it dries in some summers.

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**

15/G/02

Tributary of : 15E01 ERKINA

OS Catchment No: 184

OS Grid Ref of Confluence: S 374 779

Date(s) Surveyed: 23/6/2005, 24/6/2005

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

Assessment: Mostly unsatisfactory. Although there was improvement, to satisfactory conditions, at one location (0360) two others (0250, 0300) had deteriorated, from slight to moderate pollution, since previous survey. The last two locations (0450, 0500) showed no change in the same period.

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	LS
0400	Aghmacart Br	233030	173955	0	LS
0500	Br near Newtown Mills	236339	177355	60	LS

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: 23/6/2005

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

Assessment: Mostly satisfactory following improvement, since previous survey, at Gully Bridge (0200). Continuing moderately polluted at the first location which is also called Gully Bridge (0060).

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

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 : **KILLEEN**

15/K/01

Tributary of : 15D01 DELOUR

OS Catchment No: 184

OS Grid Ref of Confluence: S 285 955

Date(s) Surveyed: 15/7/2005, 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1991	1995	1998	2001	2005
0200	5	5	4-5	4-5	4-5	4-5
0400	5	5	5	4-5	4-5	4-5

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Cardtown Br	227157	197960	54	LS
0400	Br u/s Delour River	228286	196266	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	164	9	100	0	9	58	25	0	8	0	0
0400	130	12	99	1	26	43	18	0	12	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 : **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: 7/7/2005, 8/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1975	1979	1983	1987	1991	1995	1998	2001	2005
0100	-	-	4-5	4	4	4-5	-	-	-	-
0200	-	-	4-5	4	4	3	4	3-4	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
0600	4	3-4	4	3-4	3	3	-	3-4	3-4	3-4
0700	-	-	-	4	3-4	3-4	3-4	3-4	3-4	3-4
0800	4-5	4	4-5	4	3-4	4	-	-	-	-
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

Assessment: Unchanged since previous survey. Continuing satisfactory upstream of Callan but polluted to a moderate and slight degree thereafter. Two discharges reach the river at sampling sites: from left-hand side at Callan (0500) and in midstream at Ennisnag (0900).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballingarry Br	229608	149021	67	TY
0200	At Garrynoee	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

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: 29/6/2005

15/L/02

OS Catchment No: 184

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

Assessment: Satisfactory following improvement, since previous survey, at the only location examined. Other locations (e.g. 0300) which dry in some summers are no longer sampled.

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 : **MOUNTRATH**

15/M/01

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 348 913

Date(s) Surveyed: 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1980	1985	1987	1991	1995	1998	2001	2005
0050	-	-	-	-	-	-	4	4-5	4	4-5
0080	-	-	-	-	5	5	-	-	-	-
0100	-	-	4-5	4	4	4	4	4	4-5	3-4
0160	-	-	4-5	4	3-4	4	4	4	4	3-4
0200	-	-	4	4	3-4	4	-	-	-	-
0300	5	4	4-5	4	4	4	4	3-4	3-4	3-4

Assessment: Mostly unsatisfactory following deterioration at three of the four locations since previous survey. Significant change.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S of Drim	233320	198857	54	LS
0080	Roundwood Br	0	0	0	LS
0100	Br near Rushin House	233923	196765	54	LS
0160	Rushin Br	235200	194917	54	LS
0200	1.5 km d/s Mountrath	235600	193200	0	LS
0300	Forest Br	235418	191833	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	162	7	100	0	10	36	39	0	0	0	14
0100	111	23	77	23	45	16	25	0	5	0	8
0160	101	46	64	36	56	10	22	0	7	0	4
0300	91	57	51	49	58	9	18	3	7	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 : **MUCKALEE**
 Tributary of : 15D02 DININ (NORE)
 OS Grid Ref of Confluence: S 508 665
 Date(s) Surveyed: 5/7/2005

15/M/02
 OS Catchment No: 184

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

Assessment: Continuing satisfactory. 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.

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: 4/7/2005

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

Assessment: Continuing mostly eutrophic but with improvement, since previous survey, at one location (0600).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br SW of Gortnagap	233413	154399	67	TY
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.

River and Code : **NEEDLEFORD STREAM**

15/N/04

Tributary of : 15M01 MOUNTRATH

OS Catchment No: 184

OS Grid Ref of Confluence: S 357 957

Date(s) Surveyed: 20/7/2005

Station Nos.		Biological Quality Ratings (Q Values)	
	2001		2005
0200	4		4-5

Assessment: Continuing satisfactory at the only location which was first sampled in 2001.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Needleford Br	236650	197980	0	LS

River and Code : **NUENNA**

15/N/02

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 442 641

Date(s) Surveyed: 30/6/2005

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

Assessment: All three locations were again unsatisfactory at the end of June 2005 with further deterioration at the first location (0100) since previous survey. High nitrate levels are recorded at all three locations (M. Neill, personal communication).

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: 21/6/2005, 22/6/2005

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

Assessment: No change in quality status since previous survey. Again slightly polluted at Boleybeg Bridge (0080) but otherwise satisfactory. Also called Owenbeg River.

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

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: 28/6/2005, 29/6/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1993	1995	1998	2001	2005
0100	3	3	-	-	-
0300	3	3	3	-	-
0500	3-4	-	-	-	-
0700	4-5	4	3-4	3*	3-4
1000	3	3	-	-	-
1100	3	3	3-4	3	3-4

Assessment: Neither of the tributaries was again suitable for biological assessment in June 2006 due to absence of flow. Both locations sampled on the Main Channel, while slightly polluted, showed some improvement in conditions since previous survey.

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	LS
1000	Br at S end of Rathdowney	228044	178207	60	LS
1100	Br in Rathdowney	227973	178139	60	LS

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
0300	N/A	1	0	100	59	0	0	41	0	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 : **TONET**

15/T/01

Tributary of : 15D01 DELOUR

OS Catchment No: 184

OS Grid Ref of Confluence: S 293 923

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1991	1995	1998	2001	2005
0200	4-5	4-5	4-5	4-5	4-5	4-5
0400	4-5	4-5	4-5	4-5	4-5	4-5
0600	4	4-5	4	4	4	4

Assessment: Continuing satisfactory with no change in ecological status since first examined in 1987.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Birchgrove Br	223320	194859	54	LS
0400	Rossnaclonagh Br	226445	193202	54	LS
0600	Anatrim Br	229465	192339	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	160	10	100	0	6	47	32	0	4	0	10
0400	114	19	100	0	28	43	17	0	7	0	6
0600	97	30	80	20	39	34	11	0	9	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 : **TULLAROAN STREAM**

15/T/02

Tributary of : 15M03 MUNSTER

OS Catchment No: 184

OS Grid Ref of Confluence:

Date(s) Surveyed: 4/7/2005

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
0100	4	3	2-3	-	-	-	-
0250	-	-	3-4	3-4	-	3-4	3-4
0300	4	3-4	3	4	-	-	-
0400	5	4	4	4	-	4	3-4
0450	-	-	4	4	3-4	3-4	3-4

Assessment: Eutrophic throughout in early July 2005 representing deterioration at one location (0400) since previous survey. Formerly East Branch of Munster River.

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 Main Channnel	239274	146694	0	KK

HYDROMETRIC AREA 16 (Suir – Partial Survey)

Partial Survey in 2005, Balance of Survey in 2006

ANNER	16A02
ARGLO	16A04
BALLINTEMPLE STREAM	16B07
BLACK (TWO MILE BORRIS)	16B01
BLACKWATER (KILMACOW)	16B02
CLASHAWLEY	16C01
# CLODIAGH (PORTLAW)	16C03
CLONMORE STREAM (SUIR)	16C11
CLOVER	16C04
DRISH	16D02
KILLENAULE STREAM *	16K05
LINGAUN	16L01
MOYLE	16M01
MULLINAHONE STREAM *	16M09
POLLANASSA	16P02
ROSSESTOWN	16R01
SMARTSCASTLE STREAM	16S07
SUIR	16S02

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

* KILLENAULE STREAM Formerly Killenaule Branch of Clashawley River 16C01

* MULLINAHONE STREAM Formerly reported as the Mullinahone Branch of the Anner

River and Code : **ANNEER**

16/A/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 245 238

Date(s) Surveyed: 16/8/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1976	1977	1978	1980	1982	1985	1987	1988	1992	1996	1999	2002	2005
0100	-	-	1	2	1	1	1	3	3	3	2	3	3
0200	-	-	-	1	-	1-2	1	3-4	-	-	-	-	-
0300	-	-	3	2	3	2	2	3	-	-	-	-	-
0340	-	-	-	-	-	-	-	3	3	3	3-4	3	3
0600	-	-	3-4	3-4	3-4	4	-	3-4	3-4	4	4	3-4	4
0700	-	3-4	4	3-4	3-4	4	-	3-4	4	4	4	4	4
0800	-	-	3-4	3	4	4	-	4	4	4	4	4	4
0900	-	4	3-4	4	3-4	-	-	4	4	4	4	4	4
1000	-	-	5	5	4-5	-	-	4-5	4	4	-	-	-
1100	5	-	3-4	4	4-5	-	-	4	4	4	4	4	4

Assessment: Continuing moderately polluted at Drangan (0100) and downstream of Mullinahone Stream (0340). Satisfactory over remainder of course with improvement recorded at Drummon Bridge (0600) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Drangan Br	228326	140958	67	TY
0200	Br 1.3 km d/s Drangan	0	0	0	TY
0300	Br SW of Ballinacloghy	0	0	0	TY
0340	Ballycullin Br	233022	137330	67	TY
0600	Druman Br	231423	135470	67	TY
0700	Melbourne Br	226759	135186	67	TY
0800	Br SW of Killusty North	224621	131759	67	TY
0900	Thorny Br	224763	128072	75	TY
1000	Br (Ford) W of Ballynevin	225137	125454	75	TY
1100	Anner Br	224448	123239	75	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	95	17	0	100	97	0	0	0	3	0	0
0340	58	50	0	100	92	0	0	0	8	0	0
0600	51	81	12	88	88	3	0	0	6	0	2
0700	42	123	16	84	82	5	3	0	8	0	2
0800	34	140	18	82	80	4	5	0	8	0	2
0900	25	322	9	91	79	3	3	1	13	0	1
1000	18	439	9	91	76	3	4	0	16	0	1
1100	13	445	9	91	75	3	4	1	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 : **ARGLO**

16/A/04

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 047 435

Date(s) Surveyed: 31/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1980	1985	1988	1992	1996	1999	2002	2005
0080	-	-	-	4	-	-	-	-	-
0100	-	3-4	3-4	4	4	3-4	4	3-4	3-4
0200	4-5	4	3-4	4	4	4	4	3-4	3-4

Assessment: Continuing eutrophic at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br nr Erry Ho	0	0	0	TY
0100	Grange Br	210350	145665	66	TY
0200	Arglo Br	206372	144203	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	102	25	0	100	77	3	0	0	15	0	4
0200	77	40	0	100	78	2	0	0	18	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 : **BALLINTEMPLE STREAM****16/B/07**

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence: S 188 372

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1999	2002	2005
0800	4	4	4	4	3-4

Assessment: Deterioration, to slight pollution, recorded when sampled during low flow conditions in August 2005. Cattle access to river in these low water conditions may have contributed to the loss of quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	Br N of Coolmoyne Crossroads	216579	138440	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	94	17	0	100	79	0	0	0	21	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 : **BLACK (TWO MILE BORRIS)**

16/B/01

Tributary of : 16D02 DRISH

OS Catchment No: 182

OS Grid Ref of Confluence: S 192 592

Date(s) Surveyed: 3/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1982	1985	1988	1992	1996	1999	2002	2005
0030	-	-	-	-	-	3-4	3-4	3	3
0090	-	-	-	4	4	4	3-4	3	3-4
0100	3	3-4	3	4	4	4	4	4	4
0200	-	-	-	4	4	-	-	-	-

Assessment: Again satisfactory at the lowermost location sampled. Continuing unsatisfactory, however, at the two upstream locations due respectively to moderate and slight pollution. The river flows from a peatbog area.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Black River Br	221473	152924	67	TY
0090	Newhill Br	219629	155933	66	TY
0100	Br W of Twomileborris	219231	157870	66	TY
0200	Just u/s Drish R confl	0	0	0	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	124	3	0	100	42	0	18	0	5	0	35
0090	116	27	0	100	50	2	26	0	3	0	18
0100	113	31	0	100	53	2	23	0	6	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 : **BLACKWATER (KILMACOW)**

16/B/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 586 141

Date(s) Surveyed: 20/9/2005, 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1981	1985	1988	1992	1996	1999	2002	2005
0060	-	-	-	4	4	4	4	3	4
0080	-	-	-	4	4	4	4	4	3-4
0100	-	5	3-4	4	4	-	-	-	-
0200	-	4	4	4	4-5	4-5	4	4	4
0300	4	5	3-4	3	3-4	4	4	4	4
0400	-	5	4-5	4	4	-	-	-	-
0450	-	-	-	4	4	4	3-4	4	3-4

Assessment: Reversion to good quality at the first location (0060) but deterioration to slightly polluted conditions at Mullinavat (0080) and downstream of Kilmacow (0450) since previous survey. Three of the five locations were thus satisfactory in 2005 but an overall loss of quality was recorded since 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Lukeswell Br	255356	127445	76	KK
0080	Br to W of Mullinavat	256266	124240	76	KK
0100	Br S of Mullinavat (on Trib)	0	0	0	TY
0200	W of Scart	256296	122517	76	KK
0300	Dangan Br	256994	120101	76	KK
0400	Foot-bridge at Kilmacow	0	0	0	TY
0450	Br SE of Kilmacow	256983	117148	76	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	79	20	100	0	57	31	1	0	2	0	10
0080	57	37	100	0	70	17	0	0	5	0	8
0200	45	106	100	0	72	12	4	0	5	0	7
0300	31	110	99	1	72	12	4	0	6	0	6
0450	8	123	90	10	74	11	3	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 : **CLASHAWLEY**

16/C/01

Tributary of : 16A02 ANNER

OS Catchment No: 182

OS Grid Ref of Confluence: S 246 303

Date(s) Surveyed: 18/8/2005, 19/8/2005

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1978	1980	1981	1983	1988	1992	1996	1999	2002	2005
0030	-	-	-	-	-	4	3	-	-	-	-
0050	-	-	-	-	-	4	4	3-4	4	4	4
0080	-	-	-	-	-	4	4	4	3-4	3	3-4
0350	-	-	-	-	-	4	3-4	-	-	-	-
0400	4	4-5	-	4	4	3-4	4	4	4	4	4
0440	-	-	-	-	-	3-4	3-4	-	-	-	-
0470	-	-	-	-	-	2-3	3	3	2-3	2-3	3-4
0500	2	1	3-4	4	4	4	3-4	-	-	-	-
0600	-	4-5	-	5	4	4	4	4	4	4	4

Assessment: Improvement at two locations (0080, 0470), from moderate to slight pollution, since previous survey. Continuing satisfactory at other three locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br S of Laffansbridge	0	0	0	TY
0050	Br SW of Cathaganstown	218973	142826	66	TY
0080	Br NE of Farranaleen	219320	139741	66	TY
0350	Cramps Br, Fethard	0	0	0	TY
0400	Br at Ballybough	219910	136245	66	TY
0440	In Fethard, u/s Killenaule Branch	0	0	0	TY
0470	1 km d/s Killenaule Branch	221671	134671	67	TY
0500	Br 2 km SE of Fethard	222642	133960	0	TY
0600	Loughcapple Br	223868	131074	67	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	103	32	0	100	81	1	7	1	10	0	0
0080	86	42	0	100	85	1	5	1	8	0	0
0400	67	93	0	100	79	0	2	1	17	0	0
0470	52	156	0	100	82	1	1	1	14	0	0
0600	35	167	0	100	81	1	1	1	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 : **CLODIAGH (PORTLAW)**

16/C/03

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 487 156

Date(s) Surveyed: 15/8/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1978	1980	1982	1984	1986	1988	1993	1996	1999	2002	2005
0040	-	-	-	-	-	-	-	4	4	4	4-5	4	4
0100	-	-	5	-	-	-	4-5	4-5	3	3-4	4-5	4	-
0200	-	-	5	-	-	-	4-5	4-5	4-5	4-5	4	4-5	4
0300	5	5	5	-	-	5	4-5	4	4	3-4	3	3	2
0350	-	-	-	-	-	-	-	4-5	4-5	-	-	-	-
0400	-	5	5	-	-	5	3-4	4-5	4-5	4-5	3-4	4	4
0500	5	5	5	5	-	5	4	4	4	-	-	-	-
0600	1	1/0	1/0	1/0	1/0	1	2-3	2-3	3	-	-	-	-
0700	-	2-3	4-5	3	3-4	3-4	4-5	4	4-5	-	-	-	-
0750	-	-	-	-	-	-	-	-	-	4-5	4	4-5	4

Assessment: Continuing mostly satisfactory. However, seriously polluted at Clonea in the low-flow conditions prevailing in August 2005 due to untreated sewage (from public house on right-hand-side of river) and treated sewage (from public sewer outfall on left-hand-side of river).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Grogavalla br	232211	116370	75	WD
0100	Shanakill Br	234401	115950	75	WD
0200	Lackan Br	235232	113692	75	WD
0300	Clonea Br	238452	114185	75	WD
0350	Br S of Glenstown	0	0	0	WD
0400	Lowry Br	242123	114873	75	WD
0500	2.5 km u/s Portlaw	0	0	0	WD
0600	Portlaw Br (LHS)	0	0	0	WD
0700	Portlaw Br (RHS)	0	0	0	WD
0750	Just d/s Portlaw Br	246785	115025	75	WD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	118	20	100	0	61	15	9	0	0	0	14
0100	95	23	100	0	68	12	8	0	0	0	12
0200	72	43	100	0	68	7	9	0	5	0	10
0300	51	66	100	0	62	6	10	0	5	1	16
0400	35	103	100	0	67	6	7	0	10	0	10
0750	5	129	100	0	63	10	5	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 : **CLONMORE STREAM (SUIR)** **16/C/11**
 Tributary of : 16S02 SUIR OS Catchment No: 182
 OS Grid Ref of Confluence: S 139 740
 Date(s) Surveyed: 29/8/2005

Biological Quality Ratings (Q Values)			
Station Nos.	1999	2002	2005
1000	3	4	3-4

Assessment: Slightly polluted at the only location examined representing some deterioration since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1000	Br u/s Suir R confl	214653	174023	60	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1000	110	34	0	100	70	5	8	1	10	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 : **CLOVER**

16/C/04

Tributary of : 16B01 BLACK (TWO MILE BORRIS)

OS Catchment No: 182

OS Grid Ref of Confluence: S 192 592

Date(s) Surveyed: 3/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1988	1989	1990	1992	1994	1996	1999	2002	2005
0100	2	2	1-2	2	2	1	2-3	3	3
0300	3-4	-	-	3-4	-	2-3	4	4	4

Assessment: No change since previous survey with the first location (0100) again moderately polluted due to suspected agricultural wastes.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at Turnpike	221408	157590	67	TY
0300	Br u/s Black R confl	219663	159265	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	119	8	0	100	24	14	49	0	8	0	5
0300	111	18	0	100	39	11	37	0	10	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 : **DRISH**

16/D/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 130 565

Date(s) Surveyed: 3/8/2005, 4/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1980	1983	1988	1992	1996	1999	2002	2005
0040	-	-	-	-	-	3-4	3-4	3-4	3
0050	-	-	-	3-4	-	-	-	-	-
0070	-	-	-	4	4-5	3-4	2/0	2-3/0	3/0*
0100	4-5	4	4	4-5	4	4	3-4	3	3
0200	-	3	4	4	4	4	4	3-4	3-4
0300	4-5	4	4	4	4	-	-	-	-
0400	-	4	4	4	4	4	4	4	3-4*

Assessment: Known also as Black River. Overall deterioration since previous survey with none of the five locations reaching a satisfactory condition in 2005. The large volume of groundwater, from mining activities, led to heavy siltation and a suspected toxic effect on the macroinvertebrate fauna in the Castletown area (0070). At the final location (0400) the substratum was moderately silted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	2nd Br u/s Longfordpass Br	225179	159894	67	TY
0050	Longfordpass Br	0	0	0	TY
0070	Castletown Br	221729	163525	60	TY
0100	Boolabeha Br	219086	161952	60	TY
0200	Br S of Athlummon	217645	159416	66	TY
0300	Drish Br	0	0	0	TY
0400	Br u/s Suir R confl	213693	157096	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	122	26	0	100	65	13	3	0	14	0	4
0070	116	52	0	100	58	10	14	0	11	0	7
0100	112	69	0	100	58	8	16	1	10	0	7
0200	104	135	0	100	57	6	21	0	9	0	7
0400	95	205	0	100	62	5	17	0	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 : **KILLENAULE STREAM****16/K/05**

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence:

Date(s) Surveyed: 18/8/2005

Formerly Killenaule Branch of Clashawley River 16C01

Station Nos.	Biological Quality Ratings (Q Values)								
	1978	1980	1981	1983	1988	1992	1996	1999	2005
0100	3	2	2-3	3	3	2-3	3	2-3	3
0150	-	-	-	-	4	3-4	-	-	-
0200	4-5	-	4-5	4	4-5	4	3-4	4	4
0300	3-4	-	5	4-5	4	4	3-4	4	4

Assessment: Formerly known as the Killenaule Branch of the Clashawley. Continuing moderately polluted downstream of Killenaule. Satisfactory at the other two locations following improvement at the final one (0300) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km S of Killenaule	222617	145407	67	TY
0150	Br W of Kilkennybeg	0	0	0	TY
0200	Br nr St Johnston Castle	222969	141463	67	TY
0300	Saucestown Bridge	222050	136385	67	TY

River and Code : **LINGAUN**

16/L/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 428 216

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1977	1981	1985	1988	1992	1996	1999	2002	2005
0050	-	-	-	-	-	-	4-5	4	4	3-4
0100	-	-	5	4-5	4-5	4	-	-	-	-
0200	-	-	5	4-5	4-5	4-5	4	3-4	4	4
0300	-	-	4-5	4-5	4-5	4-5	4	4	4	4
0400	-	5	5	5	4-5	4-5	4-5	4	4	4
0450	-	-	5	5	-	-	-	-	-	-
0500	-	-	-	-	5	4-5	-	-	-	-
0600	5	5	5	4	4	4	4	4	4	3-4

Assessment: Deterioration at first and final locations (0050, 0600) since previous survey where eutrophic conditions were recorded for the first time in 2005. An overall increase in filamentous algae throughout the river's course was evident in the latest survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br u/s Whitehall Br	234106	132327	67	TY
0100	Whitehall Br	235107	132537	67	TY
0200	Lingaun Br	236496	131073	67	TY
0300	Br at Inchanaglogh	241367	130868	67	KK
0400	Scogh Br	241499	126917	75	KK
0450	0.5 km d/s Cregg Br	0	0	0	KK
0500	1 km d/s Cregg Br	0	0	0	KK
0600	The Tree Bridges	242212	122522	75	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	166	10	100	0	59	6	25	0	10	0	0
0100	150	15	100	0	65	7	17	0	11	0	0
0200	127	23	100	0	73	5	11	0	10	0	1
0300	77	54	100	0	77	2	5	0	14	0	2
0400	28	71	100	0	77	3	4	0	14	0	2
0600	3	89	84	16	72	4	3	0	18	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 : **MOYLE****16/M/01**

Tributary of : 16A02 ANNER

OS Catchment No: 182

OS Grid Ref of Confluence: S 248 275

Date(s) Surveyed: 19/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1983	1986	1988	1992	1994	1996	1999	2002	2005
0025	-	-	4	3-4	3-4	-	-	-	-	-
0050	3-4	2	2	1	1	1	2-3	2	3	-
0100	2	2	-	1	1	1	-	-	-	-
0200	-	-	-	1	3	-	3	-	3	-
0250	-	3-4	3-4	2-3	3	-	-	-	-	-
0270	-	-	-	-	-	-	3	3	3	3
0300	4-5	4	4	3	3-4	-	-	-	-	-
0400	4-5	4	4	3-4	3-4	-	3-4	3	3-4	3

Assessment: Moderately polluted at the two locations (0270, 0400) sampled where large increases in filamentous algae were recorded. The other two scheduled sampling locations (0050, 0200) were dry when visited in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Tullamain Bridge	0	0	0	TY
0050	Br NW of Mocklerstown	214552	131915	66	TY
0100	Moyle Br	0	0	0	TY
0200	Ballinavoher Br	218626	129686	74	TY
0250	Albert Br	0	0	0	TY
0270	Baptistgrange Br	221447	129956	75	TY
0300	Br W of Annsfort	0	0	0	TY
0400	Br u/s Anner R confl	224383	128027	75	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	83	30	0	100	75	0	0	0	24	0	0
0200	71	45	0	100	77	0	0	0	23	0	0
0270	48	58	0	100	76	0	0	0	24	0	0
0400	27	63	0	100	75	0	0	0	24	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 : **MULLINAHONE STREAM**

16/M/09

Tributary of : 16A02 ANNER

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 16/8/2005

Formerly reported as the Mullinahone Branch of the Anner

Station Nos.	Biological Quality Ratings (Q Values)											
	1977	1978	1980	1982	1985	1987	1988	1992	1996	1999	2002	2005
0400	-	3	3	3	2-3	3	2	2-3	-	-	-	-
0500	1	1-2	2	3	2	2	2-3	2-3	3	3	2-3	2-3

Assessment: Formerly Mullinahone Branch of Anner River. Continuing moderately polluted at the only location examined which is downstream of Mullinahone.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br in Mullinahone	0	0	0	TY
0500	Br nr Beeverstown	233482	138898	0	TY

River and Code : **POLLANASSA****16/P/02**

Tributary of : 16B02 BLACKWATER (KILMACOW)

OS Catchment No: 182

OS Grid Ref of Confluence: S 562 235

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1993	1996	1999	2002	2005
0040	4	4	4	4	4	4
0060	3-4	2-3	-	-	-	-
0100	3-4	3-4	4	4	4	4
0300	4	4	3-4	3	3-4	3-4
0500	4	4-5	4	4	4	3

Assessment: Continuing slightly polluted at one location (0300) due to suspected agricultural sources. A chronic continuous discharge from the waterworks upstream of the final location (0500) had led to moderately polluted conditions there with heavy siltation and slime growths.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Mabbotstown Br	249111	131237	67	KK
0060	Ford u/s Lismateige Br	0	0	0	KK
0100	Br SE of Harristown	251822	128009	75	KK
0300	Br SW of Ballynacooly	253434	124687	76	KK
0500	Walsh's Br	255922	124121	76	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	191	8	99	1	86	3	0	0	0	0	11
0100	110	17	99	1	87	4	0	0	3	0	6
0300	92	38	100	0	78	11	0	0	5	0	6
0500	59	45	100	0	77	10	3	0	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 : **ROSSESTOWN**

16/R/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 133 625

Date(s) Surveyed: 4/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1985	1988	1992	1996	1999	2002	2005
0020	-	-	-	3-4	3	-	-	3	3
0040	-	-	-	3-4	3	3*	3*	3	3
0100	3-4	3-4	3-4	3-4	4	3-4	4	3	3
0200	4	4	4	3-4	4	4	4	3-4	3
0300	4	3-4	3-4	3-4	3-4	4	4	4	4

Assessment: Again mostly unsatisfactory, due to widespread moderate pollution, except for the final location (0300). The uppermost location (0020) is downstream of mechanical peat extraction operations while the next location (0040) is downstream of Lisheen Mine where heavy siltation was recorded. At Lisaticy Bridge (0100) the biological diversity and density was reduced and at the penultimate sampling location (0200) the macroinvertebrate fauna had increased but was indicative of moderately polluted conditions.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br NW of Derryville	220793	169256	60	
0040	Br NE of Barnalisheen	220183	169246	60	TY
0100	Lisaticy Br	218628	167002	60	TY
0200	Kilclonagh Br	216667	165507	60	TY
0300	2nd Br u/s Suir R confl	214571	163223	60	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	126	10	0	100	36	0	40	0	0	0	24
0100	122	16	0	100	43	3	35	0	3	0	17
0200	116	19	0	100	52	2	29	0	2	0	14
0300	105	30	0	100	63	3	19	0	4	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 : **SMARTSCASTLE STREAM**

16/S/07

Tributary of : 16B02 BLACKWATER (KILMACOW)

OS Catchment No: 182

OS Grid Ref of Confluence: S 586 146

Date(s) Surveyed: 20/9/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1993	1996	1999	2002	2005
0200	4	3-4	4	4	4
0500	4	4	4	3-4	4
0800	4-5	4	4	4	4

Assessment: Satisfactory throughout following amelioration at the second location (0500) since previous survey. The only unusual feature recorded during the latest survey was the more than doubling of conductivity value between that point in the river and the final location (0800).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Knockbrack Gorse	261136	123664	76	KK
0500	Br d/s Catsrock Br	261048	119630	76	KK
0800	Br SW of Smartscastle (Main flow)	259406	116096	76	KK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	132	2	100	0	25	15	0	0	19	0	41
0500	20	11	99	1	51	10	0	0	23	0	16
0800	6	43	65	35	74	4	0	0	16	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 : **SUIR**

16/S/02

Tributary of : Waterford Harbour

OS Catchment No: 182

OS Grid Ref of Confluence: S 402 215

Date(s) Surveyed: 1/9/2005, 2/9/2005, 29/8/2005, 30/8/2005,
31/8/2005

	Biological Quality Ratings (Q Values)													
Station Nos.	1971	1974	1978	1980	1982	1985	1986	1988	1992	1993	1996	1999	2002	2005
0025	-	-	-	-	-	-	4	4	4	-	3-4	4	4	4
0050	-	-	-	-	-	-	3-4	3	4	-	-	-	-	-
0100	5	5	5	5	-	4	3-4	3-4	4	-	4	4	3-4	4
0200	5	4	4-5	5	4	-	4	3-4	4	-	3-4	3-4	4	3-4
0300	3-4	3-4	2-3	3	3	-	3	3	3-4	-	3	3	3	3
0400	3-4	3-4	3	3	3	3	3	3	3	-	-	-	-	-
0500	4-5	4	3-4	3-4	3-4	-	4	4	4	-	3-4	4	4	3-4
0600	2	2	3	3	3	3	3	3	3	-	3	3	3	3
0800	-	-	3	3	3-4	3-4	3-4	4	4	-	-	-	-	-
0810	2-3	2	2	3	2-3	3-4	3-4	-	-	-	-	-	-	-
0900	2	2-3	2-3	2-3	3	3	3	3	3-4	-	3-4	3-4	4	3
1000	-	-	3-4	3	3	3	3	3	3-4	-	-	-	-	-
1100	-	4	3-4	3-4	3	-	-	3	3-4	-	3	3-4	3-4	3
1200	4	4	4	4	3-4	3-4	3-4	3	4	-	3-4	3-4	4	3
1300	5	4	5	5	4-5	4	4	4	4	-	4	4	4-5	3-4
1400	4-5	4-5	4-5	4	4	4	4	4	4	-	4	3-4	4	3-4
1450	-	-	3	3	2-3	-	4	4	-	4	-	-	-	-
1500	4-5	4	4-5	4	4	-	4	4	-	4	4	4	3-4	3-4
1600	4-5	4-5	4	4	-	-	4-5	4	-	4	4	4	3-4	4
1700	4-5	4	4	4	-	-	4-5	3-4	-	4	4	4	4-5	4
1800	-	-	-	4	4	-	4	4	-	3-4	4	4	4	3-4
1930	-	-	-	3-4	3-4	-	3-4	-	-	3-4	3-4	3-4	3-4	4
2000	5	3-4	3-4	3-4	3-4	-	3-4	-	-	3	3-4	3-4	3-4	3-4
2100	-	-	3-4	4	3-4	-	3-4	-	-	4	-	-	-	-
2200	5	3-4	4-5	4	-	-	4	4	-	4	4	4	4	4
2300	5	4	4-5	4-5	-	-	4	4	-	4	4	4	4-5	4
2400	5	4	5	5	4	-	4	4	-	4	4-5	4	4	4
2500	-	-	-	4	3-4	-	4	-	-	3-4	-	-	-	-
2510	-	-	-	2-3	2-3	-	-	4	-	-	-	-	-	-
2600	3-4	3	4	4	3-4	-	3-4	3	-	3	2-3	2-3	3-4	3-4
2700	4-5	3	3-4	4	3-4	-	3-4	3	-	3	3	3	3	3-4
2750	-	-	-	-	-	-	-	-	-	3	3	3	3-4	3-4
2800	4-5	3-4	2-3	2-3	3	-	3	-	-	-	-	-	-	-
2850	-	-	-	-	-	-	-	3	-	3	3	3	3	3

Assessment: Two-thirds of the locations sampled (16) were unsatisfactory, due to slight and moderate pollution, which is four more than the previous survey representing a significant deterioration in conditions. Three of the 24 locations examined, on the other hand, had improved to satisfactory conditions in the same time. The most significant changes were at Cabragh Bridge (0900), Twoford Bridges (1200) and Ardmayle Bridge (1300) where large amounts of filamentous algae were recorded. The river exhibited eutrophic conditions over a large part of its course and increased growths of filamentous algae were recorded at all locations. These conditions were doubtless accentuated by the relatively low river flows prevailing in late summer and early autumn 2005.

Hydrometric Area 16 (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Skehanagh Br	210165	178273	59	TY
0050	Killough Br	0	0	0	TY
0100	Knockanroe Br	213506	177642	60	TY
0200	Knocknageragh Br	213093	172534	60	TY
0300	Penane Br	212437	169265	60	TY
0400	Loughmore Br	0	0	0	TY
0500	Rossetown Br	213394	162447	60	TY
0600	Br in Thurles	212895	158636	66	TY
0800	Just N of Turtulla Ho (Main channe	0	0	0	TY
0810	Just N of Turtulla Ho (RHS)	0	0	0	TY
0900	Cabragh Br	211242	155876	66	TY
1000	2 km d/s Cabragh Br, Beakstown	0	0	0	TY
1100	Br at Holycross	209054	154131	66	TY
1200	Twoford Bridges	207006	151538	66	TY
1300	Ardmayle Br	205194	145971	66	TY
1400	Camus Br	204633	143106	66	TY
1450	D/s Black Stream (LHS)	0	0	0	TY
1500	Golden Br	201224	138387	66	TY
1600	New Br	200209	134188	66	TY
1700	Br 2 km u/s Caher	205946	126322	74	TY
1800	Br in Caher	204978	124774	74	TY
1930	Nr Killeenbutler	205897	122117	74	TY
2000	Br at Ardfinnan	208308	117567	74	TY
2100	Fords nr Ballyveera	0	0	0	TY
2200	Newcastle Br	213040	113658	74	TY
2300	Knocklofty Br	214416	120616	74	TY
2400	SE of Marlfield	217676	121239	74	TY
2500	East Br, Clonmel (RHS)	0	0	0	TY
2510	East Br, Clonmel (LHS)	0	0	0	TY
2600	Sir Thomas Br	223847	122857	75	WD
2700	Kilsheelan Br	228617	123217	75	WD
2750	N of Churchtown	233380	122808	75	WD
2800	Coolnamuck Weir	0	0	0	WD
2850	1.5 km u/s Carrick-on-Suir	238510	121890	75	TY

Hydrometric Area 16 (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	142	8	100	0	30	49	0	0	0	0	21
0100	116	21	63	36	68	23	0	0	1	0	8
0200	107	96	21	79	80	7	3	1	4	0	5
0300	103	156	17	83	82	6	3	1	5	0	5
0500	96	220	12	88	80	5	4	1	6	0	5
0600	94	229	12	88	80	5	4	1	6	0	4
0900	91	443	6	94	71	5	10	1	8	0	5
1100	83	492	6	94	71	5	9	1	9	0	5
1200	75	497	5	94	71	5	9	1	9	0	5
1300	65	801	19	81	76	4	6	1	10	0	4
1400	64	850	18	82	76	3	6	1	10	0	4
1600	53	1090	25	75	76	4	5	1	10	0	4
1700	42	1557	28	72	75	5	5	1	10	0	4
1800	40	1563	28	72	75	5	5	1	10	0	4
1930	36	1583	28	72	75	5	5	1	10	0	4
2000	30	1678	27	73	74	5	5	1	11	0	4
2200	27	1941	31	69	70	6	8	1	10	0	5
2300	20	2107	35	65	68	6	8	1	11	0	6
2400	17	2132	35	65	68	6	8	1	11	0	6
2600	12	2181	35	65	67	6	8	1	11	0	6
2700	9	2639	30	70	69	6	7	1	12	0	5
2750	7	2699	31	69	68	6	8	1	12	0	5
2850	4	2730	31	69	68	6	7	1	12	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.

HYDROMETRIC AREA 19 (Lee, Cork Harbour & Youghal Bay)	
AUGHNABOY (CORK)	19A02
AWBOY	19A03
BLARNEY	19B02
BRIDE (LEE)	19B04
BUTLERSTOWN	19B06
CUMMER	19C02
CUSLOURA	19C01
DISSOUR	19D03
DOUGLAS (SULLANE)	19D04
DRIPSEY	19D06
DUNGOURNEY	19D07
FINNOW (FOHERISH)	19F01
FOHERISH	19F02
GARRANE (LEE)	19G03
GLASHABOY (LOUGH MAHON)	19G01
KEEL	19K02
LANEY	19L01
LEE (CORK)	19L03
MARTIN	19M01
OWENBOY (CORK)	19O01
OWENNACURRA	19O03
SHOURNAGH	19S01
SULLANE	19S02
TEMPLEBODAN	19T01
TOON	19T02
WOMANAGH	19W01

River and Code : **AUGHNABOY (CORK)**

19/A/02

Tributary of : 19O01 OWENBOY (CORK)

OS Catchment No: 230

OS Grid Ref of Confluence: W 558 608

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0100	4	3	3	3	4	4
0300	4	3-4	3-4	3-4	4	3-4

Assessment: With deterioration, to slightly polluted condition, recorded at the lowermost location (0300) in August 2005 the overall quality reverted to 1999 status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	East Br nr Belrose	154661	63704	87	CK
0300	Br 0.7km SE of Cross Barry	155886	60792	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	93	8	100	0	64	4	0	0	32	0	0
0300	33	19	97	3	66	4	0	2	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 : **AWBOY**

19/A/03

Tributary of : 19L01 LANEY

OS Catchment No: 228

OS Grid Ref of Confluence: W 349 790

Date(s) Surveyed: 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	5	-	-	-	-	-
0200	5	4-5	4	4	4-5	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Cusloura River	0	0	0	CK
0200	Awboy Br	134994	79154	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	140	21	100	0	17	13	29	0	21	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 : **BLARNEY**

19/B/02

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 592 749

Date(s) Surveyed: 8/8/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1997	1999	2002	2005
0500	3-4	3-4	3-4	3-4	4

Assessment: Satisfactory in August 2005 which marks the first time since inclusion in the biological monitoring programme.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br NW of Killeens Cross	163785	75648	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	31	17	100	0	55	0	0	0	45	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 : **BRIDE (LEE)**
 Tributary of : 19L03 LEE (CORK)
 OS Grid Ref of Confluence: W 564 708
 Date(s) Surveyed: 11/8/2005

19/B/04

OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0400	4	4	4	4	4	4
0600	4-5	4	4	4	4-5	4
0610	-	3	2	3	2	2-3
0900	5	4-5	4	4-5	4-5	4-5
1300	4	4	4	4	4	4
1400	4	4	4-5	4-5	4	4
1500	4	-	-	-	-	-
1600	4	4	3-4	4	3-4*	4

Assessment: Satisfactory except for right-hand side of river at Crookstown (0610) where moderately polluted with slime growths recorded. Some artificial siltation was recorded along right-hand side of river at the final location (1600).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Hornhill Br	138436	62860	86	CK
0600	Br at Crookstown LHS	142645	65936	86	CK
0610	Br at Crookstown RHS	142645	65936	86	CK
0900	Coolmucky Br	146046	67832	86	CK
1300	Kilcrea Br	150906	68380	87	CK
1400	Br at Killumney	154670	68652	87	CK
1500	Ovens Br	0	0	0	CK
1600	Br u/s Lee R confl	156277	70712	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	128	18	100	0	83	1	0	0	13	0	3
0600	60	47	100	0	71	3	0	0	21	0	5
0610	60	47	100	0	71	3	0	0	21	0	5
0900	44	70	96	4	70	3	0	1	22	0	4
1300	39	99	87	13	67	3	0	1	25	0	3
1400	30	113	85	15	66	3	0	1	27	0	3
1600	16	126	82	18	64	3	0	2	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 : **BUTLERSTOWN**

19/B/06

Tributary of : 19G01 GLASHABOY (LOUGH MAHON)

OS Catchment No: 193

OS Grid Ref of Confluence: W 732 749

Date(s) Surveyed: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4	4	4	3-4	3*	4
0400	4	-	-	-	-	-
0500	4-5	4-5	4-5	4-5	4	4
0600	4-5	-	-	-	-	-
0800	4	4	4	4	3-4	4

Assessment: Satisfactory at all three locations following improvement at two (0200, 0800) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Trantstown Br	175265	81834	80	CK
0400	Br nr Woodside	0	0	0	CK
0500	Butlerstown Br	174313	78228	80	CK
0600	Third Br u/s Glashaboy River	0	0	0	CK
0800	Glyntown Br	173282	75004	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	111	8	100	0	54	0	0	0	46	0	0
0500	50	33	100	0	57	3	0	0	32	0	8
0800	0	64	100	0	62	4	0	3	28	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 : **CUMMER**

19/C/02

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 385 681

Date(s) Surveyed: 14/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	-	4	4-5	4	4	4
0300	4	-	-	-	-	-
0500	-	4-5	4-5	4-5	3-4	4
0600	4	-	-	-	-	-
0800	3-4	4	4	4	3-4	3-4

Assessment: Satisfactory at two locations but continuing slightly polluted at lowermost (0800) one.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br W of Dunmarklun	135369	65809	86	CK
0300	Br SW of Teereeven	0	0	0	CK
0500	Ahagearagh Br	136028	67576	86	CK
0600	Br u/s Ballymichael Br	0	0	0	CK
0800	Athsollis Br	138985	67998	86	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	133	5	100	0	77	0	0	0	14	0	8
0500	85	11	100	0	77	3	0	0	14	0	7
0800	69	28	100	0	68	7	0	0	22	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 : **CUSLOURA** **19/C/01**
 Tributary of : 19A03 AWBOY OS Catchment No: 228
 OS Grid Ref of Confluence: W 328 803
 Date(s) Surveyed: 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4	4	4	4	4	3-4

Assessment: Unsatisfactory for the first time since surveys began in 1990. Parts of the river had become overgrown with emergent vegetation in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Awboy R confl	132527	80312	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	180	6	100	0	1	16	39	0	28	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 : **DISSOUR**

19/D/03

Tributary of : 19W01 WOMANAGH

OS Catchment No: 191

OS Grid Ref of Confluence: X 022 748

Date(s) Surveyed: 12/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1994	1997	1999	2002	2005
0200	4-5	3	4	4	4	4
0300	4-5	-	-	-	-	-
0400	4-5	4	4-5	3-4	3-4	4
0500	4-5	-	-	-	-	-
0600	4-5	4*	3-4	4	4	4

Assessment: Satisfactory throughout in August 2005 following improvement at Killeagh Bridge (0400) since previous survey in September 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br WSW of Ballyre	197797	82386	81	CK
0300	Dangan Br	0	0	0	CK
0400	Br in Killeagh	200523	76655	81	CK
0500	1km S of Killeagh	0	0	0	CK
0600	Br just u/s Womanagh R confl	202171	74782	81	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	87	12	100	0	63	19	0	0	1	0	17
0400	19	29	100	0	58	11	0	0	23	0	8
0600	2	42	92	8	62	8	0	0	25	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 : **DOUGLAS (SULLANE)****19/D/04**

Tributary of : 19S02 SULLANE

OS Catchment No: 228

OS Grid Ref of Confluence: W 221 757

Date(s) Surveyed: 11/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	-	4	4	4	4	4
0700	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Continuing satisfactory. The flow was low and slow in the river at the upper location (0200) when sampled in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Gortnascarty	118211	74015	79	CK
0700	Br u/s Sullane R confl	121324	75192	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	174	3	100	0	1	34	55	0	2	0	8
0700	121	15	100	0	21	7	31	0	29	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 : **DRIPSEY**

19/D/06

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 487 737

Date(s) Surveyed: 9/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1981	1986	1990	1994	1997	1999	2002	2005
0010	-	-	-	-	4	4	4	3-4	3-4
0100	-	5	5	5	-	-	-	-	-
0150	-	-	3-4	4	4	4-5	4-5	4-5	4-5
0200	-	4-5	4	4	-	-	-	-	-
0300	-	5	4-5	4-5	4-5	3-4	4	4	4
0400	3/0	4	3/0	4	4	3-4	4-5	4	4

Assessment: No change since previous survey. Satisfactory except at upper location (0010) where again slightly polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	NW of Toureen	141719	85935	80	CK
0100	Dripsey Br (Upper)	0	0	0	CK
0150	Dripsey Br (Lower)	146124	79630	80	CK
0200	Athnanangle Br	0	0	0	CK
0300	Luskin's Br	147371	76332	80	CK
0400	Dripsey Br	148779	73880	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	337	3	100	0	0	72	10	0	0	0	18
0150	130	28	100	0	64	13	6	0	4	0	12
0300	77	34	100	0	66	12	5	0	6	0	10
0400	50	82	100	0	69	7	3	1	16	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 : **DUNGOURNEY**
 Tributary of : 19O03 OWENNACURRA
 OS Grid Ref of Confluence: W 897 731
 Date(s) Surveyed: 15/9/2005

19/D/07

OS Catchment No: 192

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1994	1997	1999	2003	2005
0200	4	4	4	3-4	4	3-4
0300	3-4	-	-	-	-	-
0400	4	4	4-5	4	4	4
0500	4	4	4-5	4-5	4-5	4
0600	4	4	4	4	4	4
0700	3	4	4	3	3	3

Assessment: Mostly satisfactory but deterioration, since 2003, at upper location (0200). Continuing moderately polluted in Midleton (0700).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ballynona Br (Upper)	191174	81754	81	CK
0300	Br in Dungourney	0	0	0	CK
0400	Br d/s Dungourney	192975	78828	81	CK
0500	Ballynona Br	193284	75928	81	CK
0600	Br SE of Killeagh	190499	74690	81	CK
0700	Br in Midleton	188405	73368	81	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	115	7	100	0	49	33	0	0	0	0	18
0400	64	22	100	0	59	15	0	0	13	0	13
0500	33	32	100	0	62	11	0	0	17	0	9
0600	9	37	96	4	61	10	0	0	21	0	8
0700	1	52	71	29	54	7	0	2	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 : **FINNOW (FOHERISH)**

19/F/01

Tributary of : 19F02 FOHERISH

OS Catchment No: 228

OS Grid Ref of Confluence: W 288 754

Date(s) Surveyed: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	4	4	4	4	4
0300	4	4-5	4-5	4	4-5	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ullanes Br	123702	77338	79	CK
0300	Bealahacreagh Br	127930	76361	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	157	6	100	0	27	0	17	0	35	0	21
0300	122	23	100	0	43	4	10	0	12	0	30

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

River and Code : **FOHERISH**

19/F/02

Tributary of : 19S02 SULLANE

OS Catchment No: 228

OS Grid Ref of Confluence: W 296 733

Date(s) Surveyed: 12/7/2005, 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	5	4-5	4-5	4-5	4-5
0200	5	4-5	4-5	4-5	4-5	4-5
0300	5	4-5	4-5	4-5	4-5	4-5
0400	4-5	4-5	4-5	4-5	4	4-5
0600	4-5	4-5	4-5	4	4-5	4-5

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Curraleigh	126389	80956	79	CK
0200	Foherish Br	128000	81432	79	CK
0300	W of Caherbirrane	129081	79198	79	CK
0400	Garranenagappul Br (Clondrohid Br)	129521	76042	79	CK
0600	Carrigaphooca Br	129654	73741	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	189	10	100	0	9	60	14	0	16	0	1
0200	173	19	100	0	20	41	19	0	14	0	5
0300	155	37	100	0	36	25	20	0	15	0	4
0400	121	45	100	0	42	21	17	0	13	0	7
0600	79	75	100	0	43	14	14	0	12	0	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 : **GARRANE (LEE)**

19/G/03

Tributary of : 19F02 FOHERISH

OS Catchment No: 228

OS Grid Ref of Confluence: W 270 811

Date(s) Surveyed: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4-5	4	4-5	4-5	4-5	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Garrane Br	127067	81218	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	184	7	100	0	26	27	26	0	7	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 : **GLASHABOY (LOUGH MAHON)**

19/G/01

Tributary of :

OS Catchment No: 193

OS Grid Ref of Confluence: W 727 727

Date(s) Surveyed: 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005
0050	-	-	-	-	4	-	-	-	-	-
0100	-	-	5	4	3	-	-	-	-	-
0200	5	3-4	4	3-4	4	4	3-4	3-4	3-4	3-4
0250	-	-	-	-	4	-	-	-	-	-
0300	5	4-5	4-5	4	4-5	3	4	4	4	4
0400	5	5	4	4	4-5	4	4	4	4	4
0500	5	5	4-5	4	4	-	-	-	-	-
0600	-	-	-	-	4	4	4	4	4	4

Assessment: No change. Mostly satisfactory but continuing eutrophic at uppermost location (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br WNW of Lyrenamon	0	0	0	CK
0100	Br S of Lyrenamon	0	0	0	CK
0200	Ballyvorisheen Br	166906	84297	80	CK
0250	Br E of Carrignavar	0	0	0	CK
0300	Dunbulloge Br	168216	80506	80	CK
0400	Upper Glanmire Br	171469	78280	80	CK
0500	Br u/s Butlerstown R confl	0	0	0	CK
0600	d/s Butlerstown R confl	172890	74897	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	128	15	100	0	76	15	0	0	5	0	4
0300	75	39	100	0	74	8	0	0	17	0	2
0400	33	64	100	0	73	8	0	0	18	0	1
0600	0	141	100	0	66	6	0	3	24	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 : **KEEL** **19/K/02**
 Tributary of : 19F02 FOHERISH OS Catchment No: 228
 OS Grid Ref of Confluence: W 282 814
 Date(s) Surveyed: 7/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4-5	4	4	4	4-5	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Keel Br	128225	81459	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	172	10	100	0	47	9	14	0	28	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 : **LANEY**

19/L/01

Tributary of : 19S02 SULLANE

OS Catchment No: 228

OS Grid Ref of Confluence: W 352 725

Date(s) Surveyed: 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1981	1986	1990	1994	1997	1999	2002	2005
0100	-	5	5	5	4	4-5	4	4-5	4
0200	-	5	5	5	4	4-5	4-5	4-5	4-5
0300	-	5	5	5	-	-	-	-	-
0400	-	5	5	5	4-5	4-5	4-5	4-5	4-5
0500	5	5	5	4	4-5	4-5	4-5	4-5	4-5

Assessment: Continuing satisfactory with no significant change and mostly high quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carrigagulla Br	138937	83010	79	CK
0200	Knocknagappul Br	135451	79688	79	CK
0300	Br d/s Bawnmore	0	0	0	CK
0400	Morris's Br	135688	75528	79	CK
0500	Laney Br	135296	72721	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	206	21	100	0	26	41	24	0	0	0	9
0200	145	38	100	0	40	26	22	0	3	0	10
0400	100	82	100	0	42	16	18	0	9	0	15
0500	68	98	100	0	48	14	16	0	9	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 : **LEE (CORK)****19/L/03**

Tributary of :

OS Catchment No: 228

OS Grid Ref of Confluence: W 680 721

Date(s) Surveyed: 13/9/2005, 14/9/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005
0010	-	-	-	-	-	4-5	4-5	4	4	3/0
0040	-	-	-	-	-	4-5	4-5	4	4-5	4-5
0100	5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4
0200	5	5	5	4-5	4-5	4	4-5	4	4	4
0300	5	5	5	4-5	5	4-5	4-5	4	4	4
0600	4-5	4-5	4	4	3-4	3	3	3	3	3
0700	5	5	4	4	4	4	4	4	4	3-4

Assessment: Major disruption to fauna at first location, upstream of Gouganebarra Lake (0010), where salmonid parr and other age classes had been killed. The pH of the water was 10.66 on the day, outside the limit of tolerance for these fish, which resulted from concreting work on a small bridge upstream of the sampling site. Further downstream the water quality status was the same as that of the previous survey with highly eutrophic conditions again recorded at Inishcarra Bridge (0600).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Ford u/s Gouganebarra Lake	109447	66391	85	CK
0040	Br S of Gortafludig	111634	65872	85	CK
0100	Inchinossig Br	114730	66572	85	CK
0200	Foot-bridge d/s Inchigeelagh	123960	66674	85	CK
0300	Dromcarra Br	129554	67787	86	CK
0600	Inishcarra Br	157312	71034	87	CK
0700	Leemount Br	161345	71740	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	170	3	100	0	5	0	95	0	0	0	0
0040	108	17	100	0	8	19	70	0	0	2	0
0100	87	32	100	0	11	15	64	0	7	1	3
0200	80	118	100	0	23	17	43	0	9	2	6
0300	70	171	100	0	32	18	34	0	6	2	8
0600	11	918	97	3	49	10	15	1	16	2	8
0700	0	1179	97	3	52	8	12	2	19	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 : **MARTIN**

19/M/01

Tributary of : 19S01 SHOURNAGH

OS Catchment No: 228

OS Grid Ref of Confluence: W 607 753

Date(s) Surveyed: 8/8/2005, 9/8/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1978	1981	1983	1986	1990	1994	1997	1999	2002	2005
0100	4-5	4	4-5	4	4	4	4	4	3-4	3	3	4
0200	2	2	1	3-4	3-4	3	3	4	4	4	4	4-5
0300	-	4	4-5	4	4	4	4	4	4	4	4	4
0400	4	5	4-5	4	4	4-5	4	4	4	4	4	4
0500	3-4	4-5	4-5	4	4	4-5	4	-	-	-	-	-
0600	3-4	4-5	4-5	4	3-4	4	4	4	4	3-4	3-4	4

Assessment: Satisfactory throughout, for only the second time since surveys began in 1971, following improvements in condition at the uppermost (0100) and lowermost (0600) locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Rockhill Br	158220	86409	80	CK
0200	I km S of Rathduff (SEE of Grenagh)	159387	83966	80	CK
0300	Wise's Br	159681	81260	80	CK
0400	Putland's Br (Waterloo)	160574	78099	80	CK
0500	Just d/s Blarney Br (Lower)	0	0	0	CK
0600	Bawnafinny Br	159786	75419	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	121	2	100	0	100	0	0	0	0	0	0
0200	94	17	100	0	68	3	0	0	15	0	13
0300	72	40	100	0	71	4	0	0	18	0	7
0400	49	57	100	0	73	3	0	0	19	0	5
0600	24	88	96	4	67	3	0	1	25	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 : **OWENBOY (CORK)**

19/O/01

Tributary of :

OS Catchment No: 230

OS Grid Ref of Confluence: W 800 620

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0100	2	-	-	-	-	-
0200	3	3	3	3	4	3
0400	3	3	3-4	3	4	4
0600	3-4	3*	3-4	3-4	3-4	3
0700	4	-	-	-	-	-
0800	3-4	3-4	3-4	3	4	4
1000	3-4	3-4	4	3-4	4	4
1400	3-4	3-4	3-4	3-4	3-4	3-4

Assessment: Deterioration, to moderately polluted conditions, at two locations (0200, 0600) since previous survey in 2003. Continuing slightly polluted at lowermost location (1400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SW of Knockpoge	0	0	0	CK
0200	Br SE of Crushnalana	156885	63060	87	CK
0400	Br nr Killeady	156747	61378	87	CK
0600	Priest's Br	160484	61293	87	CK
0700	Br at Ballinhassig	0	0	0	CK
0800	Paddy's Br	164269	62379	87	CK
1000	Bealahareagh Br	168419	63229	87	CK
1400	Ballea Br (Lower)	171238	62764	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	76	8	100	0	75	6	0	0	19	0	0
0400	38	11	100	0	73	6	0	2	18	0	0
0600	25	55	89	11	66	2	0	1	30	0	1
0800	24	72	85	15	65	2	0	1	32	0	1
1000	20	90	83	17	65	2	0	2	31	0	1
1400	7	104	84	16	63	2	0	3	31	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 : **OWENNACURRA**

19/O/03

Tributary of :

OS Catchment No: 192

OS Grid Ref of Confluence: W 877 731

Date(s) Surveyed: 14/8/2005, 14/9/2005, 15/9/2005

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1976	1981	1983	1986	1988	1994	1997	1999	2003	2005
0050	-	-	-	-	-	-	4-5	4-5	4	4	4
0100	-	-	4	3-4	4	4	-	-	-	-	-
0200	4	4	4	3-4	4-5	4	-	-	-	-	-
0220	-	-	-	-	-	-	4-5	4-5	4	4	4
0300	-	-	4	3-4	4	4	-	-	-	-	-
0400	4	4-5	3-4	3-4	4-5	4	4	4-5	4	4-5	4
0500	-	-	2-3	2-3	3-4	3-4	4	3-4	3-4	3-4	3-4
0600	2-3	2-3	2-3	2-3	3-4	3	4	3-4	3-4	-	-

Assessment: Mostly satisfactory with no significant change since 2003 survey. Continuing slightly polluted in Midleton (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N of Ballysallagh	181575	81945	81	CK
0100	Br S of Ballincurrig	0	0	0	CK
0200	Br NE of Lisgoold	0	0	0	CK
0220	Lisgoold Br	185211	79841	81	CK
0300	Ballynaclashy Br	0	0	0	CK
0400	Br SW of Ballyedmond	186429	76152	81	CK
0500	Cork Br, Midleton	187923	73794	81	CK
0600	0.5km d/s Cork Br	187967	73287	81	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	125	10	100	0	68	14	0	0	0	0	17
0220	52	48	100	0	67	11	0	0	16	0	6
0400	21	75	100	0	64	11	0	0	21	0	4
0500	3	106	96	4	60	8	0	2	27	0	3
0600	1	106	95	5	60	8	0	2	27	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 : **SHOURNAGH**
 Tributary of : 19L03 LEE (CORK)
 OS Grid Ref of Confluence: W 609 717
 Date(s) Surveyed: 9/8/2005

19/S/01

OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1981	1986	1990	1994	1997	1999	2002	2005
0025	-	-	-	-	-	4-5	4	4	4
0050	-	-	-	-	4	-	-	-	-
0070	-	-	-	4	-	-	-	-	-
0100	-	5	4-5	4-5	4	4-5	4	4	4
0200	-	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0280	-	-	-	4	-	-	-	-	-
0300	-	5	4-5	4	4-5	4	3-4	3-4	3-4
0400	4-5	5	4	4-5	-	-	-	-	-
0500	-	-	-	-	4-5	4-5	4-5	4-5	4

Assessment: No change. Continuing mostly satisfactory but again slightly polluted at Tower Bridge (0300). Bannow Bridge was previously known as Leemount Bridge (O.S. 186 - 1" Series).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br SE of Coolmona	150870	84245	80	CK
0050	Br N of Lackabane (on Meenahony Branch)	0	0	0	CK
0070	Br u/s Rathcoola River	0	0	0	CK
0100	Ballyvodane Br	153075	80941	80	CK
0200	E of Gortdonaghmore	156715	77115	80	CK
0280	Willison's Br	0	0	0	CK
0300	Tower Br (d/s Martin R confl)	158570	74615	87	CK
0400	Healy's Br	0	0	0	CK
0500	Bannow Br	160979	71803	87	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	153	9	100	0	49	14	10	0	23	0	4
0100	96	33	100	0	66	4	5	0	24	0	1
0200	55	64	100	0	67	3	2	0	27	0	1
0300	21	164	98	2	65	4	1	1	27	0	2
0500	0	255	99	1	63	3	1	4	27	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 : **SULLANE**

19/S/02

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 352 725

Date(s) Surveyed: 11/7/2005, 12/7/2005, 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005
0040	-	-	-	-	4	-	-	-	-	-
0100	5	5	5	4-5	4	4	4-5	4-5	4-5	4
0150	-	-	-	-	4-5	-	-	-	-	-
0170	-	-	-	-	4-5	4-5	4	4-5	4-5	4
0200	5	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5
0300	-	-	5	4-5	5	4-5	4-5	4-5	4-5	4-5
0400	5	5	5	5	5	5	5	5	5	5
0460	-	-	-	-	4-5	-	-	-	-	-
0480	-	-	-	-	-	4	4	4	4	4
0500	5	5	5	4	4-5	-	-	-	-	-

Assessment: Continuing satisfactory. A polluted stream enters the river, from right-hand side, downstream of Ballyvourney (0170).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br N of Bard Inch	0	0	0	CK
0100	Milleeny Br	116141	75913	79	CK
0150	Ballyvourney Br	0	0	0	CK
0170	First Br d/s Ballyvourney Br	120196	76960	79	CK
0200	Poulnabro Br	122646	75600	79	CK
0300	Sullane Br	126048	74088	79	CK
0400	Linnamilla Br	131141	72792	79	CK
0460	0.5km d/s Macroom Br	0	0	0	CK
0480	Ford u/s Laney R confl	135041	72776	79	CK
0500	New Br, d/s Macroom	0	0	0	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	143	32	100	0	12	23	52	0	10	0	3
0170	118	72	100	0	15	17	41	0	17	0	10
0200	103	94	100	0	20	15	36	1	18	0	10
0300	87	110	100	0	25	13	32	0	17	0	12
0400	70	201	100	0	33	12	23	0	18	0	14
0480	68	219	100	0	35	11	21	1	20	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 : **TEMPLEBODAN**
 Tributary of : 19O03 OWENNACURRA
 OS Grid Ref of Confluence: W 852 809
 Date(s) Surveyed: 14/9/2005

19/T/01

OS Catchment No: 192

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1994	1997	1999	2003	2005
0100	4	4-5	4-5	4	4	4
0200	4	-	-	-	-	-

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Aughnabroga Br	185134	82766	81	CK
0200	Just u/s Owennacurra R confl	0	0	0	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	81	14	100	0	73	15	0	0	8	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 : **TOON**

19/T/02

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 300 707

Date(s) Surveyed: 12/9/2005, 13/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4	4	4-5	4	4-5	4
0400	4	4	4-5	4	4-5	4
0700	4	4-5	4-5	4-5	4-5	4
0800	3-4	3-4	3-4	3-4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Lack More	119551	71029	79	CK
0400	Br NE of Cleanrath North	122439	70406	79	CK
0700	Second Br u/s Lee R confl	126060	69190	86	CK
0800	Br u/s Lee R confl (Toon Br)	129665	70508	79	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	137	7	100	0	23	32	36	0	0	0	9
0400	114	17	100	0	25	25	31	0	11	0	9
0700	68	30	100	0	17	25	43	0	10	0	5
0800	63	47	99	1	34	16	30	0	13	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 : **WOMANAGH**

19/W/01

Tributary of :

OS Catchment No: 191

OS Grid Ref of Confluence: X 047 729

Date(s) Surveyed: 12/10/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1994	1997	1999	2002	2005
0300	-	-	4	4	4	4
0400	4	-	-	-	-	-
0500	3	3	3-4	4	4	4
0700	4	4	4-5	4	4	4
0900	4	-	-	-	-	-
1000	3-4	4	3-4	3	3-4	3-4
1100	3-4	-	-	-	-	-
1300	4	4-5	3-4	3-4	3	3
1400	4	4	-	-	-	-

Assessment: Satisfactory except in lower reaches (1000, 1300) where again slightly and moderately polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SW of Donickmore	193542	81436	81	CK
0400	Br nr Glendonagh Ho	0	0	0	CK
0500	Br NE of Dungourney	193999	79995	81	CK
0700	Second Br N of Mogeely	195930	76185	81	CK
0900	Br S of Mogeely	0	0	0	CK
1000	Br in Castlemartyr	196371	73200	81	CK
1100	Br N of Ladysbridge	0	0	0	CK
1300	S of Ballyhonock Lough	198984	72513	81	CK
1400	Br d/s Dissour R confl	202187	74754	81	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	82	12	100	0	80	15	0	0	2	0	3
0500	70	15	100	0	79	14	0	0	5	0	2
0700	28	21	100	0	78	11	0	0	9	0	2
1000	13	23	92	8	76	10	0	0	12	0	2
1300	6	67	66	34	52	6	0	1	42	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.

HYDROMETRIC AREA 22 (Laune, Maine & Dingle Bay)	
BROWN FLESK	22B03
CROAGHANE	22C09
DOGUE	22D03
FAHADUFF	22F09
FINGLAS (LAUNE)	22F03
FLESK (KERRY)	22F02
GLANTANE	22G07
LAUNE	22L01
LITTLE MAINE	22L02
MAINE	22M01
SHANOWEN (KERRY)	22S01

River and Code : **BROWN FLESK**

22/B/03

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: Q 932 061

Date(s) Surveyed: 12/5/2005, 13/5/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1996	1998	2002	2005
0010	-	-	-	-	-	-	-	-	-	-
0050	-	-	5	-	4-5	4	4-5	4-5	4	4
0100	-	5	5	4-5	4	2-3	3-4	3-4	4	4
0200	-	-	4-5	4	4	3	4	3-4	4	3-4
0300	-	5	5	5	4-5	4	3-4	4	4-5	4
0400	-	-	4	5	4-5	4	3-4	4	4-5	4
0500	5	5	5	5	4-5	4	4	4	4-5	4-5

Assessment: Satisfactory except at Twiss Bridge (0200) where large amounts of filamentous algae were recorded in May 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Dog's Glen Br	0	0	0	KY
0050	Br u/s Barna Stream confl	109580	103805	72	KY
0100	Rice Br	105742	103187	72	KY
0200	Twiss Br	104309	103309	72	KY
0300	Flesk Br, Currow	97610	104476	71	KY
0400	O'Connell Br	95049	104558	71	KY
0500	Br u/s Maine R confl	93086	105778	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	158	7	0	100	24	31	14	0	2	0	30
0100	106	42	0	100	46	11	19	0	10	0	14
0200	91	44	0	100	47	11	18	0	11	0	13
0300	38	98	0	100	57	6	20	1	11	0	7
0400	23	106	0	100	58	5	19	2	10	0	7
0500	11	113	0	100	60	5	17	2	9	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 : **CROAGHANE**

22/C/09

Tributary of : 22S01 SHANOWEN (KERRY)

OS Catchment No: 197

OS Grid Ref of Confluence: R 062 092

Date(s) Surveyed: 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1996	1998	2002	2005
0100	4-5	4	4	4	4	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 : **DOGUE**

22/D/03

Tributary of : 22B03 BROWN FLESK

OS Catchment No: 197

OS Grid Ref of Confluence: R 021 023

Date(s) Surveyed: 12/5/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1996	1998	2002	2005
0300	3	3	4	4	4	4
0400	4	4	4	4	4	4

Assessment: Satisfactory at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Ford SW of Carker	104097	101358	72	KY
0400	Dogue Br	102087	102326	72	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	13	0	100	69	0	24	0	1	0	7
0400	71	16	0	100	75	0	18	0	2	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 : **FAHADUFF****22/F/09**

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: Q 985 093

Date(s) Surveyed: 27/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1998	2002	2005
0200	3-4	4	4	4	4
0400	3-4	3-4	4	3-4	4

Assessment: Satisfactory at both locations following improvement, since previous survey, upstream of confluence with River Maine.

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: 12/5/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1996	1998	2001	2005
0400	5	5	4-5	4	4	4-5
0700	4	4	4-5	4	4	4-5

Assessment: Continuing satisfactory.

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 : **FLESK (KERRY)**

22/F/02

Tributary of : Lough Leane

OS Catchment No: 207

OS Grid Ref of Confluence: V 961 882

Date(s) Surveyed: 11/5/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1996	1998	2001	2005
0010	-	-	-	-	-	4-5	5	3-4	4	4
0040	-	-	-	-	5	4-5	4-5	4-5	4	4-5
0060	-	-	-	-	5	5	5	5	5	5
0070	-	-	-	-	5	-	-	-	-	-
0100	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
0275	-	-	-	-	4-5	-	-	-	-	-
0300	5	5	5	5	4-5	4-5	4-5	4	4	4
0310	5	5	5	5	4-5	3	4-5	3-4	3	4

Assessment: Satisfactory throughout following amelioration in condition on right-hand side of river at Flesk Bridge (0310) since previous survey. One part of this river (0100) has maintained its high quality status since first surveyed in 1971.

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 : **GLANTANE****22/G/07**

Tributary of : 22B03 BROWN FLESK

OS Catchment No: 197

OS Grid Ref of Confluence: R 062 032

Date(s) Surveyed: 13/5/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1996	1998	2002	2005
0200	4	3-4	4	4	4-5	4
0300	4	-	-	-	-	-

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Leaha Br	107150	104697	72	KY
0300	Br u/s Brown Flesk R confl	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	135	14	0	100	39	10	29	0	0	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 : **LAUNE**

22/L/01

Tributary of : Sea - Castlemaine Harbour

OS Catchment No: 207

OS Grid Ref of Confluence: V 770 994

Date(s) Surveyed: 11/5/2005, 12/5/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1996	1998	2001	2005
0100	4-5	4-5	4-5	-	4	-	-	-	3-4	-
0200	5	4-5	4-5	4-5	4	4	4	4	4	4
0300	-	-	4-5	-	4	4	4	4	4	4
0400	5	5	5	4	3-4	3-4	3-4	3-4	3-4	4
0500	5	5	4-5	4	4	-	-	-	-	-

Assessment: Satisfactory at the three locations examined in 2005 following improvement in long-standing slight pollution at final location downstream of Gweestin River confluence (0400).

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 : **LITTLE MAINE**

22/L/02

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: Q 953 082

Date(s) Surveyed: 26/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1996	1998	2002	2005
0500	4-5	4	4-5	4	4	4
0700	3-4	-	-	-	-	-
1000	4	3-4	4	3-4	4	3-4

Assessment: Slightly polluted at second location (1000) in 2005 representing deterioration since previous survey and reversion to 1998 condition. Also known as Glangeenty River at other location (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br N of Maglass (Glanageenty R)	93774	112893	71	KY
0700	Br NE of Edenburn Ho	0	0	0	KY
1000	Br u/s Maine R confl	93301	109488	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	41	9	0	100	46	17	28	0	0	0	8
1000	16	10	0	100	50	14	23	0	6	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 : **MAINE**

22/M/01

Tributary of : Sea - Castlemaine Harbour

OS Catchment No: 197

OS Grid Ref of Confluence: Q 778 013

Date(s) Surveyed: 26/7/2005, 27/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1986	1990	1994	1996	1998	2002	2005
0100	-	4-5	4	4	4	-	-	-	-	-
0200	-	-	4	4	4	3-4	3-4	3-4	4	3-4
0400	3-4	4-5	4	4	3	3-4	3	3	3-4	3-4
0500	5	4	4-5	4	4	4	3-4	3-4	4	3-4
0600	5	5	4-5	4	4	-	3-4	-	-	-
0700	-	-	5	4	4	4	-	4	4	3-4

Assessment: Slightly polluted throughout in 2005 representing deterioration at three of the four locations since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2 km E of Castleisland	101488	109591	72	KY
0200	(East) Br S of Castleisland	100178	109549	72	KY
0400	Br 2km d/s Castleisland	97860	109340	71	KY
0500	Curran Br	93810	106463	71	KY
0600	Maine Br, Curran	89103	104815	71	KY
0700	Br d/s Maine Br	89139	104830	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	36	1	0	100	63	0	0	37	0	0	0
0200	30	45	0	100	68	5	18	2	4	0	4
0400	19	92	0	100	71	4	15	2	6	0	3
0500	10	156	5	95	73	3	12	2	7	0	3
0600	5	316	7	93	70	3	13	2	7	0	5
0700	5	316	7	93	70	3	13	2	7	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 : **SHANOWEN (KERRY)**

22/S/01

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: R 007 023

Date(s) Surveyed: 27/7/2005, 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1976	1981	1985	1990	1994	1996	1998	2002	2005
0020	-	-	-	-	3	3	3	3-4	3-4	4
0040	-	-	-	-	3-4	-	-	-	-	-
0100	5	4-5	4-5	4	3-4	3-4	4	4	2-3	4

Assessment: Significant improvement since previous survey with both locations satisfactory in 2005.

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 23 (Tralee Bay & Feale)	
ALLAGHAUN	23A01
BREANAGH	23B02
BRICK	23B03
CAHER (LIMERICK)	23C01
CLYDAGH (FEALE)	23C03
FEALE	23F01
GALEY	23G01
GLASHACOONCORE	23G02
GLENACARNEY	23G06
KNOCKFINNISK	23K02
MILLTOWN HOUSE STREAM	23M04
OOLAGH	23O01
OWVEG (KERRY)	23O05
TARMON STREAM	23T03
TULLALEAGUE	23T01
TYSHE	23T02

River and Code : **ALLAGHAUN**

23/A/01

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 113 272

Date(s) Surveyed: 22/8/2005, 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1986	1989	1993	1996	1998	2001	2005
0200	-	4	-	4-5	4	4	4
0400	-	4	4	4-5	4	3-4	4
0500	-	4	4	4	4	4	4
0600	-	4	3-4	-	-	-	-
0700	-	4	-	4	4	4	4
0900	4-5	3-4	4	4	4	4	4

Assessment: Satisfactory following improvement in conditions at Tour Bridge (0400) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Dromore	124614	124001	72	LK
0400	Tour Br	122120	124715	72	LK
0500	Br N of Glengort	118360	124947	72	LK
0600	Goulburn Br	0	0	0	LK
0700	Ford NW of Dromtrasna	115998	126886	72	LK
0900	Allaghaun Br (Abbeyfeale)	111357	127220	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	182	12	0	100	35	43	11	0	4	0	8
0400	145	29	0	100	37	34	14	0	9	0	7
0500	110	48	0	100	53	21	14	0	7	0	5
0700	79	96	0	100	65	13	11	0	7	0	4
0900	51	113	0	100	67	11	11	0	8	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 : **BREANAGH**
 Tributary of : 23F01 FEALE
 OS Grid Ref of Confluence: R 173 155
 Date(s) Surveyed: 5/9/2005, 6/9/2005

23/B/02

OS Catchment No: 194

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1998	2001	2005
0100	-	-	4	4	4	4
0200	4	4	-	-	-	-
0300	4	4	3-4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glenlahan Br	116390	110982	72	CK
0200	Cloghvoula Br	0	0	0	CK
0300	Breanagh Br	117308	115471	72	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	224	6	0	100	19	26	27	0	10	0	18
0300	146	28	0	100	25	12	32	0	10	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 : **BRICK****23/B/03**

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: Q 896 338

Date(s) Surveyed: 27/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1998	2001	2005
0100	4	4	4-5	4	4	4
0200	4	4	-	-	-	-
0300	3-4	4	4	4	4	4
0400	3-4	4	3-4	3-4	3	3-4

Assessment: Satisfactory except for final location (0400) where slightly polluted. Also known as Shanow River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SE of Glanballyma	91611	123751	71	KY
0200	Br to S of Kilflynn	0	0	0	KY
0300	Shanow Br	86419	123625	71	KY
0400	Br W of Garrynagore	87844	125482	71	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	6	0	100	37	0	48	0	0	0	15
0300	13	30	0	100	49	0	23	0	3	0	25
0400	7	70	0	100	62	0	13	1	13	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 : **CAHER (LIMERICK)****23/C/01**

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 159 188

Date(s) Surveyed: 6/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1991	1996	1998	2001	2005
0100	4	4-5	4-5	4	3-4	4
0200	4	4-5	-	-	-	-
0300	-	-	4	4	3-4	4

Assessment: Satisfactory following improvement in conditions at both locations since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Caher Br	117479	119646	72	LK
0200	Br u/s Feale River confl	116043	118999	0	LK
0300	Just u/s Feale R confl	115777	118914	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	148	15	0	100	42	22	22	0	11	0	2
0300	116	17	0	100	43	19	19	0	17	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 : **CLYDAGH (FEALE)**

23/C/03

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 138 202

Date(s) Surveyed: 24/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1998	2001	2005
0200	4	4	4-5	4	4-5	4
0400	3-4	4	4	-	-	-
0450	-	-	-	-	3	3-4
0500	4	4	4-5	4	4	4

Assessment: Satisfactory apart from downstream of Brosna (0450) where slightly polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Scalp Br	112022	114614	72	KY
0400	Br W of Brosna	113209	118587	72	KY
0450	0.5 km d/s Brosna	113307	118866	0	KY
0500	Clydagh Br	113694	119946	72	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	170	23	0	100	7	32	24	0	2	0	35
0400	118	39	0	100	25	22	22	0	4	0	28
0500	102	41	0	100	25	21	21	0	6	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 : **FEALE****23/F/01**

Tributary of : Sea - Mouth of the Shannon

OS Catchment No: 194

OS Grid Ref of Confluence: Q 896 338

Date(s) Surveyed: 5/9/2005, 6/9/2005, 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1979	1982	1984	1986	1987	1989	1991	1996	1998	2001	2005
0020	-	-	-	-	-	-	4	-	4-5	4-5	4	4	4
0040	-	-	-	-	-	-	-	-	-	4-5	4-5	4-5	4
0100	5	5	5	-	4	3-4	3-4	-	4-5	-	-	-	-
0120	-	-	-	-	-	-	-	-	-	4	4	4	4
0200	5	5	5	-	4	4-5	4	-	4-5	4-5	4-5	4	4
0300	5	5	4-5	-	4	4	4	-	4	-	-	-	-
0310	5	5	4-5	-	4	4	4	-	4	2	3	2-3	4
0320	5	5	4-5	-	4	4	4	-	4	4	4	4	4
0400	5	5	4	-	4-5	4-5	4	-	4-5	-	-	-	-
0500	5	5	5	-	4	4-5	4	-	4-5	4	4	4	4
0550	-	-	-	-	-	-	-	-	-	4	4	4-5	4
0600	5	5	4-5	4-5	4	4-5	4	-	4	3-4	4	4	4
0700	-	-	-	2	2	3	3	-	3	3	3	-	-
0705	4	4	4	-	-	-	3	-	-	-	-	-	-
0710	-	-	-	4	3	4	3	-	4	3-4	4	-	-
0725	-	-	-	-	-	-	-	-	-	-	3-4	3-4	4
0750	-	-	-	2	2	2	2-3	3	3-4	-	-	-	-
0800	4-5	3-4	3	2-3	2-3	2	2	3	3	3	3	3-4	3-4

Assessment: Satisfactory apart from final location (0800), located downstream of Listowel, where again slightly polluted. Significant improvement in Abbeyfeale (0310) since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br at Rockchapel	121954	115917	72	CK
0040	Ford u/s Breanagh R confl	117708	115257	72	CK
0100	Mountcollins Br	115750	118728	72	LK
0120	Just d/s Caher R confl	115686	119158	72	LK
0200	Wellesley Br	109635	123109	72	KY
0300	Bridge in Abbeyfeale	111301	126900	72	KY
0310	0.2 km d/s Br in Abbeyfeale (RHS)	111301	127175	72	LK
0320	0.2 km d/s Br in Abbeyfeale (LHS)	111301	127175	72	LK
0400	2.3 km d/s Abbeyfeale	109499	128085	72	KY
0500	Duag Br	107185	130582	64	KY
0550	Shanacool	104281	132956	64	KY
0600	Listowel Br	99546	133239	63	KY
0700	2 km d/s Listowel Br (RHS)	98640	133755	63	KY
0705	2 km d/s Listowel Br (MID)	0	0	0	KY
0710	2 km d/s Listowel Br (LHS)	98625	133750	63	KY
0725	0.1km d/s Racecourse Foot-bridge	98146	133586	63	KY
0750	Weir SW of Greenville	0	0	0	KY
0800	Finuge Br	95111	132113	63	KY

Hydrometric Area 23 (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	197	28	0	100	27	24	32	0	6	0	11
0040	147	60	0	100	37	23	24	0	4	0	12
0100	116	102	0	100	38	17	23	0	7	0	14
0120	113	120	0	100	39	17	23	0	9	0	12
0200	75	208	0	100	42	15	21	0	8	0	13
0300	51	304	0	100	46	11	23	0	8	0	11
0310	51	304	0	100	46	11	23	1	8	0	11
0320	51	304	0	100	46	11	23	1	8	0	11
0400	44	462	0	100	51	11	20	0	8	0	9
0500	35	477	0	100	52	11	20	0	8	0	9
0550	26	502	0	100	53	11	19	0	8	0	9
0600	17	647	0	100	49	11	24	0	7	0	9
0700	11	653	0	100	49	11	23	1	7	0	9
0710	11	653	0	100	49	11	23	1	7	0	9
0725	10	653	0	100	49	11	23	1	7	0	9
0800	7	659	0	100	49	11	23	1	7	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 : **GALEY**

23/G/01

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: Q 907 331

Date(s) Surveyed: 25/7/2005, 26/7/2005

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1975	1979	1982	1986	1989	1993	1996	1999	2001	2005
0100	5	5	5	-	4-5	4-5	4	4	4	4	4
0200	5	5	5	-	4-5	4	4	4	4	4	4
0300	-	-	-	-	3-4	4	3-4	3-4	3-4	4	4
0400	5	5	4-5	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
0450	-	-	-	3-4	3-4	3-4	-	4	4	3-4	3-4
0500	-	-	4	3	3	3	3	3	3-4	4	4
0600	-	-	-	3-4	3	3	3	-	-	-	-
0700	5	5	4-5	3-4	3	3	3	3	3	3	3

Assessment: No change. Mostly satisfactory but continuing slightly polluted at two locations (0400, 0450) and moderately polluted at the final one (0700).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Athea Br	112647	135043	64	LK
0200	Br d/s Athea	110706	136398	64	LK
0300	Ahavoher Br	106925	137076	64	KY
0400	Galey Br	104424	138371	64	KY
0450	Br SW of Pollagh	101234	139545	64	KY
0500	Shrone Br	97690	137241	63	KY
0600	Inch Br	0	0	0	KY
0700	Drummurrin Br	94157	134331	63	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	36	0	100	28	27	14	0	10	0	19
0200	51	60	0	100	36	21	18	0	7	0	17
0300	33	90	0	100	44	16	22	0	5	0	13
0400	24	124	0	100	51	11	21	0	6	0	10
0450	17	172	0	100	56	8	21	0	6	0	8
0500	13	185	0	100	58	8	20	0	7	0	7
0700	8	202	0	100	59	7	21	0	6	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 : **GLASHACOONCORE**

23/G/02

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 112 214

Date(s) Surveyed: 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1998	2001	2005
0100	-	-	4-5	4	4	4
0200	4	4	4	4	4	4

Assessment: Continuing satisfactory. A drain immediately downstream of the first location (0100), which enters the river from the left-hand side, has been intermittently polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br WSW of Meenyvoughaun	109118	119276	72	KY
0200	Glashaconcore Br	110966	121421	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	135	9	0	100	28	14	43	0	13	0	2
0200	88	14	0	100	46	9	29	0	9	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 : **GLENACARNEY**

23/G/06

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 192 149

Date(s) Surveyed: 5/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1998	2001	2005
0300	4	4	4-5	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Glenacarney Br	119127	114941	72	CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	160	20	0	100	37	28	13	0	0	0	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 : **KNOCKFINNISK**

23/K/02

Tributary of : 23G01 GALEY

OS Catchment No: 194

OS Grid Ref of Confluence: R 119 363

Date(s) Surveyed: 25/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2001	2005
0100	4	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Galey R confl	112375	136517	64	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	63	18	0	100	37	16	32	0	3	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 : **MILLTOWN HOUSE STREAM****23/M/04**

Tributary of : Shanow or Brick river

OS Catchment No: 194

OS Grid Ref of Confluence: Q 860 253

Date(s) Surveyed: 27/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1998	2001	2005
0100	4	3	4	3	4

Assessment: Satisfactory following improvement in condition since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SW of Abbeydorney	84354	122570	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	18	7	0	100	80	0	10	0	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 : **OOLAGH****23/O/01**

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 108 278

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1998	2001	2005
0200	-	-	4-5	4	4	4
0300	4-5	4	-	-	-	-
0500	4-5	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Oolagh Br	115032	130920	64	LK
0300	Oolagh Br	0	0	0	LK
0500	Br u/s Feale R confl	111373	128310	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	115	19	0	100	28	27	41	0	0	0	4
0500	60	33	0	100	35	16	32	0	10	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 : **OWVEG (KERRY)**

23/O/05

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 089 233

Date(s) Surveyed: 23/8/2005, 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1998	2001	2005
0200	4	4	4	4	4	4
0350	4	4	4	4	4	4
0400	4	4	-	-	-	-
0500	4	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Owveg Br	107320	117842	72	KY
0350	Ford just d/s Tullaleague R confl	107078	120397	72	KY
0400	Br d/s Glana R confl	0	0	0	
0500	Bateman's Br	108621	123290	72	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	121	19	0	100	28	6	41	0	6	0	20
0350	97	58	0	100	41	4	37	0	6	0	12
0500	71	75	0	100	48	3	34	0	5	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 : **TARMON STREAM**

23/T/03

Tributary of : 23G01 GALEY

OS Catchment No: 194

OS Grid Ref of Confluence: R 017 400

Date(s) Surveyed: 25/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1993	1996	1999	2001	2005
0500	3-4	3	3	3	3

Assessment: No change. Continuing moderately polluted. Further drainage work had been carried out since previous survey and the river where sampled has now steep banks.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Gabbetts Br	101845	140144	64	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	20	15	0	100	62	0	29	0	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 : **TULLALEAGUE****23/T/01**

Tributary of : 23O05 OWVEG (KERRY)

OS Catchment No: 194

OS Grid Ref of Confluence: R 089 233

Date(s) Surveyed: 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1998	2001	2005
0100	3-4	4	3-4	3-4	3-4	3-4
0200	4	4	-	-	-	-

Assessment: No change. Continuing slightly polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Talbot's Br	105843	119472	72	KY
0200	Just u/s Owveg R confl	0	0	0	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	120	14	0	100	33	6	48	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 : **TYSHE****23/T/02**

Tributary of : Sea - Banna Strand

OS Catchment No: 195

OS Grid Ref of Confluence: Q 748 247

Date(s) Surveyed: 27/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1987	1988	1989	1993	1994	1996	1998	2001	2005
0100	1	1	2-3	1	2-3	3	-	-	-
0400	1	2	2-3	3	-	3	3	3	3
0500	1	2-3	3	3	-	3	-	-	-

Assessment: No change. Continuing moderately polluted at the only location examined which is in Ardfert.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Monoona Br	81715	121243	71	KY
0400	West Br, Ardfert	78433	121236	71	KY
0500	Br nr Banna House	76016	122419	71	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	28	0	0	100	100	0	0	0	0	0	0
0400	8	9	0	100	82	0	0	8	9	0	0
0500	1	22	0	100	72	0	0	4	21	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 24 (Shannon Estuary South – Partial Survey)

Partial Survey only: Balance of rivers surveyed in 2006

# AHAVARRAGA STREAM	24A02
ARRA	24A04
BALLYLONGFORD	24B03
BROADFORD STREAM	24B07
BUNOKE	24B06
# DEEL (NEWCASTLEWEST)	24D02
GLENCORBRY	24G03
TARBERT STREAM	24T01

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

River and Code : **AHAVARRAGA STREAM**

24/A/02

Tributary of : 24D02 DEEL (NEWCASTLEWEST)

OS Catchment No: 155

OS Grid Ref of Confluence: R 367 258

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0200	4	4	4	4	4	4
0300	1	3	-	-	-	-
0400	1	2-3	-	2	2	2
0600	2	3	-	-	-	-
0800	1-2	3	2	2-3	3	3

Assessment: No change. Mostly unsatisfactory with continuing serious pollution downstream of Drumcolliher (0200) and moderate pollution further downstream West of Mundellihiy (0800). Also known by the variant spelling Ahavarragh.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br at W side of Drumcolliher	137898	121113	72	LK
0300	Priests Br	0	0	0	LK
0400	Br 0.5 km d/s Priests Br	137521	121955	72	LK
0600	Moyvane Br	0	0	0	LK
0800	NW of Mundellihiy	137266	124317	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	116	4	0	100	74	0	0	3	0	0	23
0400	107	6	0	100	76	0	0	9	0	0	15
0800	84	12	0	100	88	0	0	5	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.

River and Code : **ARRA**

24/A/04

Tributary of : 24D02 DEEL (NEWCASTLEWEST)

OS Catchment No: 155

OS Grid Ref of Confluence: R 274 335

Date(s) Surveyed: 8/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0300	4	4	4	4	4	4
0310	3	4	4	4	4	4
0400	3-4	4	-	-	-	-
0500	3	3-4	3	3-4	4	4
0600	3-4	4	-	-	-	-

Assessment: Continuing satisfactory in 2005 maintaining the improvement recorded in 2002. The crayfish, a protected species, was recorded in the river for the first time in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Second Br E of Dromin	124927	133818	64	LK
0310	Br S of Dromin (RHS)	124927	133818	64	LK
0400	Br E of Cullenagh Ho	0	0	0	LK
0500	Cork Br, Newcastle West	128807	133497	64	LK
0600	Just u/s Deel R confl	0	0	0	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	3	0	100	79	15	5	0	0	0	0
0310	88	3	0	100	79	15	5	0	0	0	0
0500	49	40	0	100	83	4	2	3	6	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 : **BALLYLONGFORD**

24/B/03

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 998 448

Date(s) Surveyed: 24/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1994	1996	1999	2002	2005
0300	4	3	3-4	4	4	4
0400	-	-	-	-	-	2-3
0700	3	3	3	3	3-4	3-4

Assessment: No change. Continuing satisfactory at uppermost location (0300) but again moderately and slightly polluted further downstream due to suspected agricultural sources. Also known as Ballyline River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br N of Kilgarvan [Ballyline R]	96022	141846	63	KY
0400	Br SW of Shrone	98342	141876	0	
0700	Gortnacooka Br	99290	143426	63	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	63	3	0	100	67	0	33	0	0	0	0
0400	N/A	0	0	0	0	0	0	0	0	0	0
0700	9	28	0	100	65	0	34	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 : **BROADFORD STREAM**

24/B/07

Tributary of : 24B06 BUNOKE

OS Catchment No: 155

OS Grid Ref of Confluence: R 320 238

Date(s) Surveyed: 6/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1993	1996	1999	2002	2005
0300	4	4	4	4	4	4
0500	4	4	3	2-3	3	3-4

Assessment: Upper reaches (0300) continuing satisfactory and while a slight improvement was recorded in lower reaches (0500) conditions there were again unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Broadford Br	133235	121017	72	LK
0500	Lisnafulla Br	131932	123816	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	119	7	0	100	90	4	4	0	2	0	0
0500	87	12	0	100	91	3	2	3	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 : **BUNOKE****24/B/06**

Tributary of : 24D02 DEEL (NEWCASTLEWEST)

OS Catchment No: 155

OS Grid Ref of Confluence: R 302 328

Date(s) Surveyed: 6/9/2005, 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1989	1993	1996	1999	2002	2005
0005	-	3	-	-	-	-	-
0025	-	3	2-3	2	3	3	3
0035	-	2-3	3	-	-	-	-
0050	-	2-3	3	2-3	3	3	3-4
0070	-	3	3	-	-	-	-
0100	-	3	3-4	3-4	3	3	3-4
0150	-	3	4	4	-	-	-
0200	3-4	3-4	4	4	4	4	3-4

Assessment: Unsatisfactory throughout following deterioration at final location since previous survey. However, in the same time two of the other three locations had shown improvement from a moderate to slight pollution degree.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Br just S of Glenmore	0	0	0	LK
0025	Br W of Glenquin	124392	126523	72	LK
0035	Br SW of Killeedy	0	0	0	LK
0050	Br NE of Cantogher	128180	125269	72	LK
0070	Second Br d/s 0050	0	0	0	LK
0100	Abacomusk Br	131643	124228	72	LK
0150	Br SW of Ahawilk	0	0	0	LK
0200	Bunoke Br	131879	128475	72	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	166	1	0	100	99	0	0	0	0	0	1
0050	99	8	0	100	88	8	4	0	0	0	0
0100	81	19	0	100	86	9	2	0	0	0	2
0200	55	45	0	100	85	6	3	1	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 : **DEEL (NEWCASTLEWEST)**

24/D/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 332 528

Date(s) Surveyed: 7/9/2005, 8/9/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1978	1980	1982	1984	1986	1989	1993	1996	1999	2002	2005
0100	1	1	1	3	3	3	2-3	3	3	3	3-4	3-4*	4
0200	4	4	3	3-4	3	3	3	3	3	3-4	3-4	4	4
0250	-	-	-	-	-	-	-	3	3	-	-	-	-
0300	3	3-4	3-4	3-4	3	3-4	3-4	3	3	3-4	3	3	3
0400	4	3-4	3-4	3-4	3	3-4	3-4	3	3	3-4	3-4	4	4
0450	-	-	-	-	-	-	-	3	3-4	-	-	-	-
0500	4	4	3-4	3-4	3-4	3	3-4	3-4	4	4	3-4	4	3-4
0600	3	3	3	3	3	3	2-3	3	3	2-3	2	2-3	2
0700	3	3	3	3	3	3	3	3	3	2-3	2-3	3	2-3
0800	3	2-3	3	3	3	2	3	3	3	3	3	3	3-4
0900	4	-	3	3-4	3	2-3	3-4	3	3	-	-	-	-
1000	4-5	4	3-4	4	3-4	3-4	4	3	3-4	3	3	3	3
1100	4	-	4	3-4	3	3-4	4	4	3-4	3-4	3-4	3-4	3
1200	4-5	4	3	4	3-4	3-4	3-4	3-4	3-4	-	-	-	-
1300	4	4	3-4	4	3-4	3-4	3-4	3	3-4	3-4	3-4	3	3

Assessment: Continuing mostly unsatisfactory with only three locations indicating satisfactory water quality conditions. One of these, in Milford, was satisfactory for the first time since surveys began in 1971. However, the river still suffers from slight, moderate and serious pollution in places. The serious pollution occurs below an industrial discharge at Castlemahon (0600).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Scart Br, Milford	141611	121322	73	CK
0200	Br 3.2 km d/s Milford Br	140118	123697	73	LK
0250	Accrour Br	0	0	0	LK
0300	Broken Br	136004	127029	72	LK
0400	Br nr Balliniska	132518	128606	72	LK
0450	Br 0.2 km d/s Bunoke R confl	0	0	0	LK
0500	0.8 km u/s Castlemahon Br	131806	130995	64	LK
0600	D/s Mahoonagh Br	131260	131413	64	LK
0700	Br nr Killaready	129910	132703	64	LK
0800	Grange Br	130787	135042	64	LK
0900	Br d/s Grange Br	0	0	0	LK
1000	Palatine Br	133489	138616	64	LK
1100	Rathkeale Br	136070	141409	64	LK
1200	Ford d/s Rathkeale Br	135547	141297	0	LK
1300	Kilcool Br	133766	143704	64	LK

Hydrometric Area 24 (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	101	59	0	100	79	0	0	0	19	0	1
0200	92	68	0	100	81	0	0	0	17	0	1
0300	67	121	3	95	83	1	0	1	13	0	1
0400	55	152	3	95	83	1	0	1	13	0	1
0500	51	262	6	93	83	2	1	1	12	0	1
0600	50	262	6	93	83	2	1	1	12	0	1
0700	46	281	6	93	84	2	1	1	12	0	1
0800	43	366	4	95	83	2	1	2	10	0	1
1000	33	409	4	95	84	2	1	2	10	0	1
1100	31	439	5	94	83	2	1	2	11	0	1
1300	24	447	5	94	83	2	1	2	11	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 : **GLENCORBRY**
 Tributary of : Sea - Shannon Estuary
 OS Grid Ref of Confluence: R 131 475
 Date(s) Surveyed: 24/8/2005

24/G/03

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1994	1996	1999	2002	2005
0200	-	3-4	4	3-4	4	3-4
0300	4	-	-	-	-	-
0400	4	3	3	3-4	3-4	3-4

Assessment: Unsatisfactory, due to slight pollution, at both locations following deterioration, since previous survey, at the first of these. Also known as Glencorbly River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br d/s Br NE of Tullyleague	113297	144466	64	LK
0300	Br 2 km SE of Glin	0	0	0	LK
0400	Upstream Br, Glin	113099	147421	64	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	88	8	0	100	65	9	15	0	0	0	11
0400	6	26	0	100	77	3	12	1	1	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 : **TARBERT STREAM**

24/T/01

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 071 477

Date(s) Surveyed: 24/8/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1999	2002	2005
0100	3-4	3	3	3	3

Assessment: Continuing moderately polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	(West) Br in Tarbert	106595	147753	64	KY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	6	8	0	100	90	0	0	3	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.

HYDROMETRIC AREA 25 (Shannon Lower – Partial Survey)*Partial Survey only: Balance of rivers surveyed in 2006*

ANNAGH (TIPPERARY)	25A02
ARDCLOONY	25A03
ARDCRONY STREAM	25A06
ARDGREGANE STREAM	25A04
BALLINTOTTY *	25B01
BALLYFINBOY	25B02
BALLYNACARRIG	25B18
BALLYNAGRENIA STREAM	25B16
BALLYQUIVEEN STREAM	25B30
BILBOA	25B03
BLACKWATER (SHANNONBRIDGE)	25B27
BOORA	25B08
BREAGHMORE	25B12
BROSNA	25B09
BUNOW	25B25
CAHERNAHALLIA	25C01
CAMCOR	25C02
CAPPAWHITE STREAM	25C10
CARRIGAHORIG STREAM	25C16
CAUTEEN	25C04
CLAREEN STREAM	25C13
# CLODIAGH (TULLAMORE)	25C06
COUNTY (LAOIS/OFFALY)	25C21
DEAD	25D01
DOLLA	25D08
DOONANE	25D04
DURROW ABBEY STREAM	25D12
DYSART STREAM (LOUGH ENNELL)	25D05
GAGEBOROUGH	25G01
GARRYARD STREAM *	25G15
GLASHACLOONARAVEELA	25G02
GLENFELLY STREAM *	25G21
GOLDEN GROVE STREAM	25G06
GORRAGH	25G09
GORTNAGERAGH	25G03
GORTNAGOWNA	25G13
INCH (BILBOA) *	25I01
KEELOGE STREAM *	25K14
KILCOMIN STREAM *	25K15
KILFADDA CASTLE STREAM *	25K07
KILLEENGARRIFF	25K02
KILMASTULLA	25K04
LITTLE (CLOGHAN)	25L01
LITTLE BROSNÁ	25L02
LORRHA STREAM	25L05
MOATE STREAM	25M05
MONAGHANSTOWN	25M01

HYDROMETRIC AREA 25 (Shannon Lower – Partial Survey)

Partial Survey only: Balance of rivers surveyed in 2006

NENAGH	25N01
NEWPORT (TIPPERARY)	25N02
NEWTOWN	25N03
OLLATRIM	25O01
PALLAS	25P01
POLLAGH STREAM (BROSNA)	25P05
ROCK (BIRR)	25R02
SCARRIFF STREAM	25S08
SILVER (KILCORMAC)	25S02
SILVER (TULLAMORE)	25S03
SILVERMINES VILLAGE STREAM *	25S10
SMALL (TIPPERARY)	25S05
SYONAN CASTLE STREAM	25S04
TOEM STREAM	25T05
# TULLAMORE	25T03
YELLOW (KILMASTULLA)	25Y01
YOUGHAL (TIPPERARY)	25Y02

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

- * GARRYARD STREAM Formerly reported as: Kilmastulla 0400 K1/4 and Yellow (Kilmastulla) 0100
- * GLENFELLY STREAM Formerly West Branch of Camcor River 25C02
- * INCH (BILBOA) Formerly Inch Branch of Bilboa River 25B03
- * KEEOGE STREAM Formerly Keeloge Branch of Little Brosna River 25L02
- * KILCOMIN STREAM Formerly Kilcomin Branch of Little Brosna
- * KILFADDA CASTLE STREAM Formerly reported as: Carrigahorrig Stream 25C16 (q.v.).
- * SILVERMINES VILLAGE STREAM Kilmastulla 0040 to 0100 incl.

River and Code : **ANNAGH (TIPPERARY)**

25/A/02

Tributary of : 25K02 KILLEENGARRIFF

OS Catchment No: 155

OS Grid Ref of Confluence: R 685 578

Date(s) Surveyed: 15/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1979	1983	1987	1993	1996	1999	2002	2005
0040	-	-	-	5	5	4-5	4-5	4
0050	-	-	5	-	-	-	-	-
0100	5	5	5	4-5	4-5	4-5	4-5	4-5
0160	-	-	5	-	-	-	-	-
0200	5	5	5	5	4-5	4-5	4	4-5
0250	-	-	5	-	-	-	-	-
0300	5	5	5	5	4-5	4-5	4	4-5
0400	-	-	5	-	-	-	-	-
0500	-	-	-	4	4	4-5	4-5	-

Assessment: Continuing satisfactory. Fewer sensitive species observed in upper reaches (0040) in comparison with previous surveys.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s Inchinmathea Br	184941	162359	59	TY
0050	Inchinamathea Br	0	0	59	TY
0100	Toorenbrien Br	181438	160210	59	TY
0160	Ford NW of Vauchluce Cott	0	0	65	LK
0200	Charlotte's Br	175109	159182	65	LK
0250	Clare Br	0	0	65	LK
0300	Ahacrossaun Br	171824	159275	65	LK
0400	Ford d/s Ahacrossaun Br	0	0	65	LK
0500	100m u/s Annagh Br	168447	158106	65	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	244	4	100	0	8	23	24	0	0	0	46
0100	179	22	100	0	39	19	21	0	0	0	22
0200	135	52	100	0	32	23	19	0	1	0	25
0300	37	65	100	0	41	19	15	0	1	0	23
0500	29	128	79	21	48	10	14	0	6	0	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 : **ARDCLOONY**

25/A/03

Tributary of : Parteen Reservoir

OS Catchment No: 155

OS Grid Ref of Confluence: R 674 674

Date(s) Surveyed: 28/9/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1988	1996	1999	2002	2005
0100	5	5	5	5	5

Assessment: Water quality continues to be of the highest standard in this river and as such it deserves rigorous protection from agricultural pollution, in particular from slurry spreading.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballycorney Br	166965	170671	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	71	11	100	0	41	12	26	0	12	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 : **ARDCRONY STREAM**

25/A/06

Tributary of : 25B02 BALLYFINBOY

OS Catchment No: 155

OS Grid Ref of Confluence: R 903 935

Date(s) Surveyed: 6/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0500	4	3-4	3-4	4-5	3-4	3

Assessment: Quality continues to deteriorate in this stream which was assessed as moderately polluted where surveyed in September 2005. Weed and algal growth was excessive and, although four different sensitive macroinvertebrate species have been recorded at this location in the past none were observed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br u/s Ballyfinboy R	190266	193296	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	51	31	0	100	64	0	0	1	33	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 : **ARDGREGANE STREAM**

25/A/04

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 826 794

Date(s) Surveyed: 9/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	-	-	3	3-4	3*	3-4
0200	3	3	-	-	-	-
0400	3	3	3-4	4	3-4*	3-4

Assessment: Slight improvement recorded in the upper reaches (0100) but still slightly polluted by farmyard wastes and unrestricted cattle access.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S of Grallagh	183334	178316	59	TY
0200	Hogan's Pass Br	182900	180400	59	TY
0400	Crannagh Br W of Ardgregane	181180	181404	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	46	11	26	74	90	0	0	0	4	0	6
0400	33	25	33	67	83	0	0	1	13	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 : **BALLINTOTTY****25/B/01**

Tributary of : 25O01 OLLATRIM

OS Catchment No: 155

OS Grid Ref of Confluence: R 895 790

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1986	1987	1988	1993	2002	2005
0040	-	-	-	-	-	4	-	-
0100	3-4	-	4	4	-	3	3	3-4
0110	-	1	3-4	2	3	-	-	-
0200	3-4	3	3	3	-	-	-	-
0240	-	-	-	-	-	3	3-4	3-4
0300	3-4	3	4-5	3-4	-	3	3-4	3-4

Assessment: Further improved at Phillabeen Bridge (0100) but as elsewhere the unbalanced and restricted fauna and/or excessive weed growth indicated less than satisfactory conditions at each of the three locations surveyed in September 2005. Animal access needs to be restricted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br NW of Moanmore	0	0	59	
0100	Phillabeen Br	197074	177638	59	TY
0110	Br 0.1km d/s Phillabeen Br	0	0	59	
0200	Br NE of Coolderry	0	0	59	TY
0240	Br SE of Norwood	192720	177850	59	
0300	Consedine Br (u/s Ollatrim R Confl)	189463	179072	59	TY

River and Code : **BALLYFINBOY**

25/B/02

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 830 982

Date(s) Surveyed: 25/8/2005, 26/8/2005

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1974	1978	1982	1984	1987	1993	1996	1999	2002	2005
0070	-	-	-	-	-	4-5	4	3-4	3-4	3-4	3-4
0100	5	4	4	4	3	3	3-4	3	3-4	3-4*	4
0150	-	-	-	-	-	3	-	-	-	-	-
0200	-	-	-	4-5	3	3-4	-	-	-	-	-
0250	-	-	-	-	-	-	-	-	-	4	4-5
0300	-	-	4-5	4-5	3-4	4-5	4	3	4	-	-
0400	5	4-5	4-5	4	-	4	4	-	4	3-4	3-4
0550	-	-	-	-	-	3-4	3-4	3	3-4	3	3
0600	4	4	3-4	4	4	3-4	4	3	3-4	3-4	3-4
0700	5	3-4	4	4-5	4	4	3-4	3	3-4	4	4
0800	4	4	4	4-5	-	4	3-4	3	4	3-4	3-4

Assessment: Following slight improvements since 2002 satisfactory quality conditions were restored at at Townfield and Modreeny bridges (0100, 0250) and persisted at Ballyhooney Bridge (0700) in 2005. The majority of locations, however, were in a less than satisfactory condition due to marked eutrophication, largely of suspected agricultural origin. Extreme calcification brought about by eutrophication (at 0400, 0800), dredging (u/s 0550) and unrestricted animal access (at 0250) were some of the impacts on this river in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Br NW of Ballintemple Ho	200094	184891	59	OF
0100	Townfield Br	198118	186923	59	OF
0150	Knockearl Br	0	0	59	OF
0200	Br W of Cloughjordan	0	0	59	TY
0250	Br S of Modreeny	195970	188859	0	TY
0300	Modreeny Br North	195864	189443	59	TY
0400	Ballynavin Br	195847	189456	59	TY
0550	Br in Borrisokane	191541	194098	53	TY
0600	Br nr Ballyfinboy Castle	189699	193701	53	TY
0700	Ballyhooney Br	186249	196011	53	TY
0800	Br just u/s L Derg	183804	198048	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	N/A	2	0	100	64	0	0	0	31	0	5
0100	86	23	0	100	72	4	7	0	14	0	3
0300	80	36	0	100	70	3	4	2	18	0	3
0400	80	36	0	100	70	3	4	2	18	0	3
0550	54	73	0	100	61	1	6	1	25	0	6
0700	43	170	2	98	63	2	3	1	26	0	5
0800	33	174	2	98	64	2	3	1	26	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 : **BALLYNACARRIG****25/B/18**

Tributary of : 25S02 SILVER (KILCORMAC)

OS Catchment No: 155

OS Grid Ref of Confluence: N 247 130

Date(s) Surveyed: 17/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	4	4	3-4	4	3-4	3-4

Assessment: As in 2002 the lower reaches of the Ballynacarrig River (0100) were in a less than satisfactory condition (heavily silted, excessive weed and algal growth) due to suspected forestry activities.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Silver R confl	227604	213682	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	84	12	31	69	67	12	3	3	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 : **BALLYNAGRENIA STREAM**

25/B/16

Tributary of : 25G01 GAGEBOROUGH

OS Catchment No: 155

OS Grid Ref of Confluence: N 252 373

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0400	3	3	2	3	3/0	3
0600	4	4	3	3-4	3	3-4

Assessment: Although slightly improved since 2002 in its lower reaches (0600) heavy siltation depressed biological diversity at both locations surveyed on this stream in August 2005. Unrestricted cattle access is considered to at least contribute to the ongoing unsatisfactory condition of this stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br S of Rose Mount	223309	242080	48	MH
0600	New Br. (on N6)	224703	238696	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	74	8	0	100	89	0	0	0	4	0	7
0600	61	21	0	100	91	0	3	0	3	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 : **BALLYQUIVEEN STREAM****25/B/30**

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 915 740

Date(s) Surveyed: 8/9/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1993	1996	1999	2002	2005
0300	3-4	3-4	3-4	4	4

Assessment: The satisfactory condition of this small stream is threatened by a septic tank effluent discharge just upstream of the bridge (0300) and by unrestricted cattle access just downstream of the same location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Nenagh R confl	191082	173522	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	81	6	89	11	84	11	5	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 : **BILBOA**

25/B/03

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 763 478

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1983	1987	1989	1993	1996	1999	2002	2005
0004	-	-	-	4	3-4	4	3	-	-
0008	-	-	-	4	4	3-4	4	4	-
0010	-	-	4	-	3-4	3-4	3-4	3-4	4
0020	-	-	4-5	-	3-4	-	-	-	-
0050	-	-	-	-	4-5	4-5	-	-	-
0080	-	-	5	-	5	4-5	5	4-5	4-5
0100	5	5	5	-	-	-	-	-	-
0200	5	5	5	-	-	-	-	-	-
0300	5	5	5	-	5	4	4-5	3-4	4
0400	5	5	5	-	-	-	-	-	-
0500	-	-	5	-	4-5	4	-	3-4*	3-4

Assessment: Following improvements at Kilcommon and Cappamore (0100, 0300) the Bilboa River was in a mostly satisfactory condition in September 2005 but the lower reaches continued to show the symptoms of eutrophication-light pollution viz. excessive weed growth and an unbalanced bottom fauna.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0004	Br SE of Loughbrack	191700	158600	66	TY
0008	Br u/s Main R confl	188856	158561	66	TY
0010	Br in Kilcommon	190189	160111	59	TY
0020	Anglesey Br	0	0	66	TY
0050	SE of Cappaharoe	185166	157513	66	LK
0080	Bilboa Br u/s Blackboy Br	181596	151911	66	LK
0100	Blackboy Br	0	0	65	LK
0200	Doon Rd Br Cappamore	0	0	65	LK
0300	Br 1.5 km d/s Cappamore	177975	150508	65	LK
0400	New Br u/s Dead R	0	0	65	LK
0500	Pullagh u/s Dead R	177673	147863	65	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0008	189	24	100	0	66	6	16	0	2	0	11
0010	200	6	100	0	74	6	14	0	4	0	2
0050	155	49	100	0	45	7	14	0	19	0	15
0080	79	85	100	0	42	9	11	0	25	0	13
0300	52	120	95	5	48	8	10	0	23	0	11
0500	45	122	93	7	49	8	10	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 : **BLACKWATER (SHANNONBRIDGE)** 25/B/27
 Tributary of : 25S01 SHANNON (Lower) OS Catchment No: 155
 OS Grid Ref of Confluence: M 999 222
 Date(s) Surveyed: 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1988	1993	1996	1999	2002	2005
0110	-	4-5	4	4	4	3-4	4
0200	3	3	3-4	3-4	3	3-4*	4

Assessment: Although considerably impacted by peat siltation, this sluggish bog stream had a sufficient diversity of sensitive macroinvertebrates to indicate satisfactory quality conditions at both locations surveyed in August 2005 and as such it had improved since 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0110	Br ENE of Derryharry	206460	228119	47	OF
0200	Blackwater Br	201581	223425	47	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0110	40	31	0	100	62	1	22	0	7	0	8
0200	37	88	0	100	47	0	38	0	5	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 : **BOORA****25/B/08**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 164 242

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1988	1993	1996	1999	2002	2005
0100	3	3	-	3-4	4	3	3-4*	3-4
0200	-	2/0	4	3-4	4	3-4	3-4*	4

Assessment: This sluggish bog stream was slightly polluted by suspected manure slurry at Gorteen Bridge (0100) in August 2005 and, although heavily silted, the lower reaches were assessed as satisfactory mainly because of the presence of the mayfly larva *Ephemera danica*.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Gorteen Br	216573	220295	48	OF
0200	Aqueduct u/s Brosna R	216756	223679	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	49	27	0	100	33	0	20	0	21	0	27
0200	46	40	0	100	39	0	23	0	15	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 : **BREAGHMORE**

25/B/12

Tributary of : 25C02 CAMCOR

OS Catchment No: 155

OS Grid Ref of Confluence: N 142 056

Date(s) Surveyed: 19/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1989	1993	1996	1999	2002	2005
0020	-	5	5	5	4-5	4	4-5
0080	-	5	4	4	3-4	4	4-5
0100	5	-	5	5	4-5	5	5
0200	5	-	-	-	-	-	-
0400	5	-	4-5	4-5	4	4	4

Assessment: A high or very high quality river for most of its course the Breaghmore again showed signs of enrichment in its lower reaches (0400) in August 2005. Five species of sensitive macroinvertebrates were recorded at Aghagurty Bridge (0100) indicating quality of the highest standard at that location. This river deserves special protection such as restricting cattle access in order to conserve its high quality status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Roscmore Br	216500	197700	54	OF
0080	Just u/s Main R confl	214777	202270	54	OF
0100	Aghagurty Br	217100	200900	54	OF
0200	Ford u/s Loftus Br	0	0	54	OF
0400	Breaghmore Br	214552	203568	54	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	158	7	100	0	59	13	17	0	0	0	12
0080	86	37	92	8	50	21	16	0	9	0	5
0100	124	17	100	0	29	32	26	0	8	0	5
0400	76	40	86	14	51	19	14	0	11	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 : **BROSNA**

25/B/09

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: N 022 187

Date(s) Surveyed: 9/8/2005, 10/8/2005, 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1974	1978	1982	1984	1987	1993	1996	1999	2002	2005
0003	-	-	-	-	4-5	4	3-4	-	-	-	-
0004	-	-	-	-	2-3	3	-	-	-	-	-
0005	-	-	-	-	3	3-4	3	3	3-4	3	3-4
0006	-	-	-	-	3-4	3	3	3	3	3	3-4
0010	-	-	-	-	3-4	2-3	3	-	-	-	-
0040	-	-	-	-	3-4	2-3	3	3	3	3	3
0100	1	1	1-2	1-2	2-3	2	2-3	3	2-3	2	1-2
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
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
0500	4-5	4-5	4-5	-	-	4	4	3-4	3-4	3-4	3
0600	3-4	4	4	4	4	4	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
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
1000	4-5	5	4-5	4	3-4	4-5	3-4	3-4	3-4	3	3

Assessment: The overall unsatisfactory condition of the Brosna in 2005 is reflected in the fact that just three of the fourteen surveyed sites reached a satisfactory quality standard. The satisfactory sites (0700, 0800, 0950) are located in a 20km stretch upstream of Ferbane: below this town (1000) as in Mullingar (0040), Ballynagore (0250), Kilbeggan (0400) and Clara (0500) the absence or recent disappearance of sensitive insect species indicated significant pollution. Elsewhere (5 sites) the indications were of marked eutrophication. The most notable feature, however, is the further deterioration recorded below Mullingar (0100) where Dissolved Oxygen was reduced to just 6.5 percent of saturation (0.6ppm) indicating a serious degree of pollution at the time of this survey.

Hydrometric Area 25 (2005)

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	244200	255400	41	MH
0006	Br d/s L Sheever	245600	254800	41	MH
0010	Mullingar: Canal Crossing	0	0	41	MH
0040	Mullingar: Indust Est Br	243800	252400	41	MH
0100	Butler's Br	241900	250200	41	MH
0200	Newell's Br	238329	242309	48	MH
0250	Ballynagore Br	235605	239602	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	229543	233204	48	OF
0500	Lehinch u/s Clara	228270	232401	48	OF
0600	Bolart Br	223411	232488	48	OF
0700	Ballycumber Br	221137	230646	48	OF
0760	0.5km NW of Pollagh	219000	225694	48	OF
0800	Br nr Kilcolgan	214922	223732	48	OF
0950	Ferbane Br	211508	224407	47	OF
1000	Bellmount d/s Ferbane	207366	222240	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.

River and Code : **BUNOW**

25/B/25

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: S 106 924

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1973	1975	1981	1984	1986	1987	1993	1996	1999	2002	2005
0050	-	-	-	-	-	-	-	4-5	4-5	3-4	4	4
0100	-	-	-	-	-	4-5	4-5	-	-	-	-	-
0250	-	-	-	-	-	3	3	3	3	3-4	3	3-4
0400	2-3	2-3	2-3	3-4	3	3	3	3	3	3	3	3-4

Assessment: Quality of a satisfactory standard has been maintained in the upper reaches (0050) of the Bunow River and some improvement is recorded in and below Roscrea (0250, 0400) but further abatement of eutrophication is required in order to restore fully satisfactory conditions at the latter locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S of Killavilla Ho	217081	191091	54	OF
0100	Br 2 km E of Roscrea (N of Verdanthill)	0	0	60	TY
0250	Br d/s Roscrea Railway Sta	213748	189553	60	TY
0400	Bunow Br	210983	190188	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	113	15	94	6	59	16	4	0	10	0	11
0250	92	24	63	37	62	11	3	6	9	0	8
0400	62	30	55	45	64	9	3	10	8	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 : **CAHERNAHALLIA**

25/C/01

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 814 468

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1979	1983	1987	1993	1996	1999	2002	2005
0010	-	-	4	3-4	4	3-4	-	-
0025	-	4	5	-	-	-	3-4	4-5
0060	-	4-5	5	4	5	4-5	-	-
0100	4	4	4-5	3-4	4	4	4	4

Assessment: Following a marked improvement at Glengar Bridge (0025) both locations were assessed as satisfactory in late September 2005. Unrestricted cattle access poses a threat to this situation at Station 0100 where the banks were considerably damaged by watering animals.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br N of Foildarg	188115	152363	66	TY
0025	Glengar Br WNW of Leugh	186706	151047	0	TY
0060	Cahernahallia Br	185297	149158	66	LK
0100	Br u/s Dead R confl	182788	148245	66	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	174	7	100	0	41	25	10	0	4	0	19
0060	98	15	100	0	46	19	6	0	16	0	14
0100	59	22	79	20	63	13	4	0	11	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 : **CAMCOR**

25/C/02

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 052 054

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1985	1987	1993	1996	1999	2002	2005
0100	-	5	5	5	5	5	5	5	5
0150	-	-	5	5	-	-	-	-	-
0200	5	5	5	5	-	-	-	-	-
0300	-	5	5	5	4	3-4	4	3-4	3-4
0400	-	5	5	5	-	-	-	-	-
0500	5	5	5	5	5	4	4	4	4
0600	5	5	5	4-5	4	4-5	3-4	4	4
0650	-	-	5	5	-	-	-	-	-
0700	5	5	5	5	4	3-4	4	4	3-4

Assessment: In the twenty years since 1985 the quality profile of the Camcor River has deteriorated considerably due to a widespread marked increase in eutrophication. All of the currently surveyed sites were of the highest standard (Q5) in 1985 but currently only the uppermost site (0500) remains at this level. Sewage from Kinnitty and agriculture are suspected as the most likely causes.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford u/s Coneyburrow Br	221299	204315	54	OF
0150	Br SE of Moneygunneen Ho	0	0	54	OF
0200	Ford 1.5km N of Kinnitty	0	0	54	OF
0300	Drumcullen Br	217839	206135	54	OF
0400	Carrig Br	0	0	54	OF
0500	Br S of Killyon	213205	205400	54	OF
0600	Br S of Clonbrone	209900	204255	53	OF
0650	Br near Syngfield	0	0	53	OF
0700	Br at Elm Grove Birr	206670	204990	53	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	160	14	100	0	4	59	24	0	0	0	14
0300	84	21	88	12	22	45	18	0	0	0	15
0500	62	105	65	35	53	22	12	0	7	0	6
0600	56	138	51	49	60	18	9	0	9	0	5
0700	51	152	47	53	60	16	9	0	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 : **CAPPAWHITE STREAM**

25/C/10

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 841 456

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1981	1983	1985	1987	1993	1996	1999	2002	2005
0200	3-4	3-4	3	3	3	3	3	3	3	3
0300	-	-	-	-	3	3	3	3	3*	4

Assessment: Quality had improved considerably in the lower reaches of this stream (0300) since 2002 so that conditions were satisfactory there in late September 2005. Further upstream ecological quality was again significantly depressed by suspected sewage discharges and the effects of a large numbers of cattle having unrestricted access to the stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Gortandrum Br	188000	146202	66	TY
0300	Ayle Br NE of Clonbrick	185692	144734	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	91	6	100	0	71	6	0	3	19	0	0
0300	65	16	81	19	85	4	0	2	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 : **CARRIGAHORIG STREAM**

25/C/16

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: M 894 022

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0300	4	3-4	3-4	4	3	4
0500	3-4	3-4	3-4	3-4	3	3-4

Assessment: Although still somewhat enriched, the upper reaches (0300) were assessed as satisfactory and although improved somewhat since 2002 the lower reaches were highly eutrophic in late August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br S of Milford Ho	191512	198813	53	TY
0500	Br at Carrigahorig	190345	201564	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	53	12	0	100	69	0	14	0	9	0	8
0500	40	31	0	100	64	0	11	0	19	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 : **CAUTEEN**

25/C/04

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 840 457

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0200	3	3	3	3	3-4	-
0300	-	-	-	3	-	-
0400	-	-	-	2	-	-
0500	3	3	3	3	3-4	3-4

Assessment: No further improvement was apparent at Cauteen Bridge (0500) where indications of slight pollution persisted in 2005. The stream bed was again severely damaged by watering cattle at this location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Gortnacoolagh Br	189532	144124	66	TY
0300	Gortnacoolagh Br	189105	144430	66	TY
0400	1st Br u/s Cauteen Br	188600	144304	66	TY
0500	Cauteen Br (d/s side)	187606	143591	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	83	18	44	56	100	0	0	0	0	0	0
0300	82	19	46	54	100	0	0	0	0	0	0
0400	80	19	47	53	100	0	0	0	0	0	0
0500	74	21	47	53	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 : **CLAREEN STREAM**

25/C/13

Tributary of : 25C02 CAMCOR

OS Catchment No: 155

OS Grid Ref of Confluence: N 122 048

Date(s) Surveyed: 19/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0200	3	4	3-4	4	4	3-4
0600	3-4	3-4	3-4	4	4	4

Assessment: A slight deterioration due to suspected forestry activities, was apparent at the upper surveyed location (0200) in 2005. The heavily calcified lower reaches were assessed as satisfactory at that time.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br W of Grange Ho	213986	200807	54	OF
0600	Br nr Kilmaine Ho	212525	204084	54	OF

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	29	71	92	4	0	0	4	0	0
0600	66	24	11	89	82	4	0	0	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 : **CLODIAGH (TULLAMORE)**

25/C/06

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 203 273

Date(s) Surveyed: 16/8/2005, 17/8/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1975	1978	1982	1984	1987	1993	1996	1999	2002	2005
0050	-	-	-	-	-	-	5	-	-	4-5	-	4-5
0090	-	-	-	-	-	-	-	-	-	-	4-5	-
0100	-	-	-	5	5	-	5	5	4-5	2/0	-	3
0200	-	-	-	1/0	4	5	5	-	-	-	-	-
0220	-	-	-	-	-	-	3	3-4	3	3*	3-4*	1
0250	-	-	-	-	-	4-5	4	4-5	4	4-5	4-5	4-5
0300	-	-	-	5	5	5	4-5	5	4-5	4-5	4-5	4-5
0340	-	-	-	-	-	-	-	-	4	4	4	4
0360	-	-	-	-	-	4-5	5	4-5	-	-	-	-
0400	5	5	5	5	4-5	4-5	4-5	4-5	4	3-4	3-4	3-4
0500	4	4	4	-	4	3-4	3-4	4	3-4	3-4	3-4	4

Assessment: The Clodiagh River continued to be of a highly satisfactory quality standard in its upper reaches (0050) in August 2005 but, as in previous years, it then deteriorated under the influence of suspected water treatment discharges in Clonaslee (at 0100) and by a combination of those and suspected sewage effluents below the town (at 0220): the latter was a serious degradation and has been reported to Laois County Council. Satisfactory conditions were restored at Brockagh (0250) and, with the exception of the Annamoe area (0400) where marked eutrophication was again evident, the remainder of the river was in a generally satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NW of Scarroon	229672	209555	54	LS
0090	u/s Clonaslee Waterworks	231739	210783	54	LS
0100	Just u/s Clonaslee Br	231751	210864	54	LS
0200	0.8km d/s Clonaslee Br	0	0	54	LS
0220	Just u/s Gorrageh R confl	232266	212095	54	LS
0250	Br ENE of Brockagh (E of Annaghmore L)	233164	214581	54	LS
0300	Gorteen Br	234034	217087	54	OF
0340	Br N of Clonagh	230679	220892	48	OF
0360	Muckalagh Br (1.5km W of Ballard)	0	0	48	OF
0400	Annamoe Br	229099	224384	48	OF
0500	Br at Rahan	225683	225641	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	159	9	100	0	8	21	25	0	17	0	29
0100	110	13	100	0	20	20	20	0	13	0	26
0220	98	14	98	2	22	19	19	1	13	0	25
0300	78	48	57	43	38	13	18	1	11	0	19
0340	65	89	30	70	50	9	13	1	15	0	12
0400	53	1	0	100	83	0	0	11	7	0	0
0500	50	250	11	89	63	5	8	3	14	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 : **COUNTY (LAOIS/OFFALY)** **25/C/21**
 Tributary of : 25S02 SILVER (KILCORMAC) OS Catchment No: 155
 OS Grid Ref of Confluence: N 238 113
 Date(s) Surveyed: 17/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0200	4-5	4-5	4	4-5	4-5	-

Assessment: Access to suitable (i.e., non-bedrock) areas was not possible in 2005 due to the large quantity of dead trees and bushes which had been dumped in the stream downstream of County Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	County Br	224018	210029	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	112	4	100	0	31	58	6	0	1	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 : **DEAD****25/D/01**

Tributary of : 25M04 MULKEAR (LIMERICK)

OS Catchment No: 155

OS Grid Ref of Confluence: R 763 478

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1981	1985	1987	1993	1996	1999	2002	2005
0100	3-4	4	3-4	3	3	3	3	3-4*	3
0150	-	-	3-4	3-4	-	-	-	-	-
0200	4-5	4-5	4	4	3-4	3	3	3-4*	3-4
0300	-	4-5	4	4-5	-	-	-	-	-

Assessment: The Dead River was again moderately polluted at Pope's Bridge (0100) and highly eutrophic at Derrauin Bridge (0200) in late September 2005. Unsatisfactory overall condition continues.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Pope's Br	185579	143753	66	TY
0150	Longford Br	0	0	66	LK
0200	Derrauin Br	182500	146327	66	LK
0300	0.2km d/s Br S of Pullagh u/s Bilboa R confl	0	0	65	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	64	59	51	49	95	0	0	5	0	0	0
0200	50	108	47	53	91	1	0	3	4	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 : **DOLLA**

25/D/08

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 882 742

Date(s) Surveyed: 8/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0300	4	5	-	-	-	-
0400	4-5	4-5	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br at Dolla	0	0	59	TY
0400	Br u/s Nenagh R confl	187894	173610	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	67	23	90	10	77	6	5	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 : **DOONANE****25/D/04**

Tributary of : 25N02 NEWPORT (TIPPERARY)

OS Catchment No: 155

OS Grid Ref of Confluence: R 778 651

Date(s) Surveyed: 14/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0010	-	-	-	4-5	4-5	4-5
0100	5	-	-	-	-	-
0200	5	5	5	4-5	4-5	5

Assessment: Continuing highly satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Ford ENE of Toor	181309	164383	59	TY
0100	Br W of Tooratagart	179821	164680	59	TY
0200	Br u/s Newport R confl	177802	165126	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	207	4	100	0	0	29	11	0	8	0	52
0100	166	12	100	0	0	14	19	0	22	0	46
0200	129	15	100	0	0	13	20	0	22	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 : **DURROW ABBEY STREAM**

25/D/12

Tributary of : 25S03 SILVER (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 296 286

Date(s) Surveyed: 12/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0200	3-4	3-4	3	2-3	3	3-4

Assessment: A relatively high conductivity (796 $\mu\text{S}/\text{cm}$) indicated a likely groundwater input and the biota indicated some enrichment at the location surveyed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Silver R	230198	228904	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	54	9	0	100	61	17	0	0	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 : **DYSART STREAM (LOUGH ENNELL)**

25/D/05

Tributary of : Lough Ennell

OS Catchment

No: 155

OS Grid Ref of Confluence: N 374 456

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	-	4-5	3	4	3*	3-4
0300	4	-	-	-	-	-
0400	-	4-5	3-4	4	4	3-4

Assessment: As a result of dredging in its upper reaches this stream was heavily silted at both locations surveyed and it was also heavily calcified in its lower reaches (0400) in 2005. Overall condition unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Milltown	233254	249239	48	MH
0300	Br in Dysart	0	0	48	MH
0400	Br u/s L Ennell	237063	245657	48	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	113	7	0	100	81	0	0	0	11	0	8
0400	89	14	0	100	91	0	0	0	5	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 : **GAGEBOROUGH**

25/G/01

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 237 326

Date(s) Surveyed: 5/8/2005, 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1989	1993	1996	1999	2002	2005
0045	-	-	4	3-4	3-4	4	3-4
0050	-	4	-	-	-	-	-
0100	4-5	4	4	3-4	3-4	3-4	4
0190	-	4	-	-	-	-	-
0200	4-5	-	-	-	-	-	-
0300	4-5	4	4	3-4	3-4	3-4	4-5
0400	4-5	-	-	-	-	-	-
0500	5	4-5	3-4	4	3-4	3-4	3-4

Assessment: An improvement to satisfactory conditions was recorded in the middle reaches of the Gageborough (0100, 0300) in August 2005 but luxuriant algal growths and heavy substratum calcification reflected a marked degree of eutrophication in the upper (0045) and lower (0500) river at that time.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0045	Br NNW of Rockfield	229919	243198	48	MH
0050	Br W of Rockfield	0	0	48	MH
0100	Donore Br	229309	240249	48	MH
0190	Horseleap: Mullingar Rd Br	0	0	48	OF
0200	Horseleap: N6 Rd Br	0	0	48	OF
0300	Gageborough Br 1.2km S of Dunard	226111	237790	48	OF
0400	Gorteen Br	0	0	48	OF
0500	Ballyboughlin Br	223708	233794	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	102	7	0	100	91	7	0	0	2	0	0
0100	70	23	0	100	88	2	0	0	6	0	4
0300	58	60	0	100	91	2	0	0	5	0	3
0500	51	121	0	100	89	1	3	1	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 : **GARRYARD STREAM** **25/G/15**
 Tributary of : 25Y01 YELLOW (KILMASTULLA) OS Catchment No: 155
 OS Grid Ref of Confluence: R 805 716
 Date(s) Surveyed: 14/9/2005

Formerly reported as: Kilmastulla 0400 K1/4 and Yellow (Kilmastulla) 0100

Station Nos.	Biological Quality Ratings (Q Values)							
	1974	1976	1978	1981	1985	1987	2002	2005
0100	1	1/0	1/0	1/0	3/0	1/0	1/0	3/0

Assessment: Although considerably improved since 2002 a very restricted macroinvertebrate fauna which was devoid of sensitive species indicated some considerable ecological disruption in this small stream in September 2005. Chemical analysis in 2004 revealed high levels of Cadmium, Zinc and Manganese. Formerly reported as Yellow (Kilmastulla) 25Y010100 and Kilmastulla 25K040400.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Yellow (Kilmastulla) R confl	180500	171600	134	TY

River and Code : **GLASHACLOONARAVEELA**

25/G/02

Tributary of : 25B03 BILBOA

OS Catchment No: 155

OS Grid Ref of Confluence: R 795 519

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	-	5	5	5	4-5	-
0500	5	5	4	4-5	4-5	4-5

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Crehaun	182181	155396	66	LK
0500	Glasha Br u/s Bilboa R confl	180075	153503	66	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	177	2	100	0	12	17	25	0	22	0	25
0500	84	14	100	0	40	14	7	0	26	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 : **GLENFELLY STREAM**

25/G/21

Tributary of : 25C02 CAMCOR

OS Catchment No: 155b

OS Grid Ref of Confluence: N 167 061

Date(s) Surveyed: 18/8/2005

Formerly West Branch of Camcor River 25C02

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0010	-	5	5	5	5	-
0080	5	5	5	-	-	-
0090	-	-	-	4-5	4-5	5

Assessment: Quality continues to be of a very high standard in this stream which has been formerly reported as the West Branch of the Camcor River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br 3km E of Longford	220250	201350	54	OF
0080	Clonfosse Br (W of Kinnitty)	217400	205500	54	OF
0090	Wooden Br d/s Clonfosse Br	217063	206286	54	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	77	25	80	20	31	39	15	1	1	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 : **GOLDEN GROVE STREAM**

25/G/06

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: S 107 904

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1983	1985	1987	1988	1993	1996	1999	2002	2005
0040	-	-	-	4-5	-	2-3	3-4	3-4	-	-
0080	-	-	-	5	-	3-4	4	3-4	3	3-4
0100	-	-	-	4-5	-	-	-	-	-	-
0200	2	1-2	2	2-3	2-3	2-3	2-3	3	3	3

Assessment: Despite severe damage to the substratum caused by watering cattle an improvement in biological diversity was recorded in the Laurel Hill area (0080) in 2005 but further improvement is required if fully satisfactory quality conditions are to be restored. Restricting cattle access should be a priority in such cases. A short stretch in the lowermost reaches (0200) is impacted by fish-farm effluent.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	d/s Br nr Ballybrit Castle	214469	195396	54	OF
0080	Br W of Laurel Hill	213378	192516	54	OF
0100	Old Br E of High Park	0	0	53	OF
0200	Just u/s Little Brosna R	210873	190459	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	126	5	100	0	74	0	0	0	25	0	2
0080	93	20	58	42	79	0	0	0	19	0	2
0200	60	65	46	54	74	5	1	5	11	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 : **GORRAGH**

25/G/09

Tributary of : 25C06 CLODIAGH (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 322 121

Date(s) Surveyed: 16/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	5	-	-	-	-	-
0200	-	4-5	4-5	4-5	5	4
0300	5	-	-	-	-	-

Assessment: Water quality at Clonaslee (0200) was assessed as just 'Fair' (Q4) in August 2005, significantly lower than in 2002. This area is impacted by watering cattle and, from the prevailing smell, by septic tank effluent also.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford W of Srahcullen	231500	209700	54	LS
0200	Gorragh Br E of Clonaslee	232300	210801	54	LS
0300	Killart Ho (u/s Clodaigh rv Confl)	232400	212100	54	LS

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	111	12	100	0	2	30	35	0	9	0	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 : **GORTNAGERAGH****25/G/03**

Tributary of : 25B03 BILBOA

OS Catchment No: 155

OS Grid Ref of Confluence: R 826 526

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0200	-	4	4-5	4-5	4-5	4-5
0300	5	5	4-5	4-5	4-5	4

Assessment: Water quality continues satisfactory but there are some pointers to possible future impacts. The storage of silage bales close to the stream poses a threat to quality at Station 0200: there was a fish-kill here in 2002. Downstream pronounced siltation and enhanced algal development indicate some ecological disturbance at Station 0300 which is adjacent to a disused landfill/sandpit.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Foilycleary	187105	154882	66	TY
0300	Br u/s Bilboa R confl	182653	152685	66	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	209	6	100	0	24	20	10	0	0	0	46
0300	97	16	100	0	35	23	6	0	16	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 : **GORTNAGOWNA**

25/G/13

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: S 957 690

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1993	1996	1999	2002	2005
0300	4-5	-	-	-	-
0400	-	4	4-5	4-5	4-5
0500	4-5	-	-	-	-

Assessment: Continuing satisfactory. Unrestricted cattle access may pose a threat to the maintenance of this satisfactory state of affairs.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Tooreagh Br	0	0	59	TY
0400	Br u/s Cloghinch Old Br	195269	168417	59	TY
0500	Cloghinch Old Br	0	0	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	132	8	100	0	86	6	3	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 : **INCH (BILBOA)****25/I/01**

Tributary of : 25B03 BILBOA

OS Catchment No: 155b

OS Grid Ref of Confluence: R 886 584

Date(s) Surveyed: 16/9/2005

Formerly Inch Branch of Bilboa River 25B03

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0004	4	3-4	4	3	3-4*	3-4
0008	4	4	3-4	4	4	4-5

Assessment: As in 2002 the upper reaches (0004) of this stream were silted and very weedy in late August 2005 but the lower reaches (0008) had improved somewhat and were then in an ecologically satisfactory condition. Formerly reported as the Inch Branch of the Bilboa River 25B03 (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0004	Br SE of Loughbrack	191700	158600	66	TY
0008	Br u/s Bilboa R. Confl.	188906	158312	66	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0008	189	24	100	0	66	6	16	0	2	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 : **KEELOGE STREAM**

25/K/14

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155b

OS Grid Ref of Confluence: S 053 914

Date(s) Surveyed: 24/8/2005

Formerly Keeloge Branch of Little Brosna River 25L02

Station Nos.	1984	1987	1993	1996	Biological Quality Ratings (Q Values)		
					1999	2002	2005
0015	-	5	4	4	-	-	-
0016	-	-	-	-	4-5	4	3-4
0020	5	3	-	-	-	-	-
0025	-	3-4	3-4	3	4-5	3-4	3-4
0027	4	4	3-4	3-4	4	4	3-4

Assessment: This stream was hydromorphologically severely damaged by watering cattle in the Dunkerrin area (0016) and as indicated by excessive weed and algal growths at both downstream locations plus heavy siltation (at 0025) and pronounced substratum calcification (at 0027) it was in a highly eutrophic condition at both downstream points surveyed in August 2005. This represents a general deterioration since the previous survey in 2002. Agriculture suspected. Formerly reported as the Keeloge Branch of the Little Brosna River 25L02 (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br E of Loughan	205600	184000	59	OF
0016	Br SW of Dunkerrin (Main Rd)	205600	183900	59	OF
0020	Br E of Ballyrihy Ho	0	0	59	
0025	Br u/s Clonlisk Br	205300	188200	59	OF
0027	Br at Keeloge Cottage	204500	191300	53	OF

River and Code : **KILCOMIN STREAM****25/K/15**

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: S 053 914

Date(s) Surveyed: 24/8/2005

Formerly Kilcomin Branch of Little Brosna

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0040	3-4	3-4	3	3	3	3
0052	4	3-4	3	4	3-4	3-4
0055	3-4	-	-	-	-	-
0085	3-4	3-4	3	3-4	3	3-4

Assessment: Heavy deposits of cattle manure at Station 0040 indicate the most likely cause of the overall unsatisfactory condition of this stream to be agriculture. Formerly reported as the Kilcomin Branch of the Little Brosna 25L02 (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SW of Barna	202700	186100	59	OF
0052	Coolroe Br	202500	189200	59	OF
0055	Kilcomin Br	0	0	53	
0085	Br ESE of Kennes X-Rds	204400	191800	53	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	94	19	19	81	66	1	0	1	21	0	10
0085	66	1	0	100	72	0	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 : **KILFADDA CASTLE STREAM** **25/K/07**
 Tributary of : 25C16 CARRIGAHORIG STREAM OS Catchment No: 155
 OS Grid Ref of Confluence: M 922 006
 Date(s) Surveyed: 25/8/2005

Formerly reported as: Carrigahorrig Stream 25C16 (q.v.).

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0600	4-5	3-4	3-4	3-4	3-4	3-4

Assessment: Slight pollution by cattle manure again recorded at this location. Fencing obviously inadequate here. Formerly reported as Carrigahorrig Stream 25C16 (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br SE of Carrigahorig	191455	200668	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	46	17	0	100	68	0	11	0	15	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 : **KILLEENGARRIFF****25/K/02**

Tributary of : 25M04 MULKEAR (LIMERICK)

OS Catchment No: 155

OS Grid Ref of Confluence: R 678 539

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1975	1979	1983	1987	1993	1996	1999	2002	2005
0100	5	5	5	5	5	-	-	-	-	-
0150	-	-	-	-	5	4-5	4-5	4-5	4	4-5
0200	5	5	5	4	4-5	-	-	-	-	-

Assessment: Water quality slightly improved since 2002. Condition remains satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Annagh Br	168361	157819	65	LK
0150	Br d/s Annagh Br	168218	156324	65	LK
0200	Barrington's Br	167903	154889	65	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	29	200	84	16	47	13	14	0	4	0	22
0150	27	217	81	19	51	12	13	0	4	0	20
0200	25	220	79	21	52	12	12	0	4	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 : **KILMASTULLA**

25/K/04

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: R 697 697

Date(s) Surveyed: 13/9/2005, 14/9/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1976	1978	1981	1983	1985	1987	1993	1996	1999	2002	2005
0120	-	-	-	-	-	-	-	-	-	3	3-4	3-4	3-4
0150	-	-	-	-	-	-	-	4-5	3-4	-	-	-	-
0300	-	3	2/0	1/0	3/0	3	-	3	-	-	-	3	-
0700	-	2	1/0	1/0	2/0	3	-	3-4	-	-	-	-	-
0800	1/0	2	2-3	1/0	3/0	3-4	3/0	3-4	3/0	3/0	3*	3	3-4
0900	3-4	3-4	3/0	3/0	3/0	3-4	4	4	3/0	3-4	-	-	-
0910	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4
0950	-	-	-	-	3/0	3-4	4	4-5	-	-	-	-	-
1000	5	4-5	4	3-4	4	4	4-5	4-5	3/0	3-4	4	3-4	4

Assessment: As in 2002 the Kilmastulla River was affected by widespread eutrophication and heavy substratum siltation in 2005. In the upper reaches (0120) the most likely causes are sewage and agriculture; further downstream (0800, 0910) seepage/runoff from the vast Silvermines tailings area is suspected as the most likely source. The lower reaches (1000) had improved and were assessed as being in a 'Fair' quality condition at the time of this survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0120	Carrow Br (W of Srah Cottage)	182800	173394	59	TY
0150	Erinagh Br (W of Gortnacleha)	0	0	59	TY
0300	U/s Yellow R confl	0	0	59	TY
0700	D/s Yellow R confl	0	0	59	TY
0800	Cranna Br (SW of Cranna Ho)	178515	171886	59	TY
0900	Br NE of Cappadine	175408	170983	59	TY
0910	Br W of Cappadine	174587	170622	59	TY
0950	Br u/s Kilmastulla Br	0	0	59	TY
1000	Cool Br	170947	169506	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0120	60	18	32	68	70	4	4	2	4	0	16
0800	44	58	44	56	71	2	8	4	7	0	7
0900	38	70	46	54	76	2	7	4	6	0	6
0910	36	72	47	53	76	2	7	3	6	0	6
1000	38	70	45	55	76	2	7	4	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 : **LITTLE (CLOGHAN)****25/L/01**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 039 201

Date(s) Surveyed: 12/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1984	1986	1987	1988	1989	1993	1996	1999	2002	2005
0100	1	2	2	2	2-3	2-3	-	2-3	-	-
0200	1	3	3	-	-	3-4	4	3-4	3-4	3-4
0400	2	3	3	-	-	4	4	4	3-4*	4

Assessment: Continued to be slightly polluted by suspected sewage from Cloghan (0200) in 2005 and, following a slight improvement since 2002, then recovering to a satisfactory status in its lower reaches (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Crancreagh Br	207850	216241	53	OF
0200	Br 2km SW of Cloghan	206207	217780	53	OF
0400	Br u/s Brosna R confl	204306	219625	53	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	48	20	0	100	24	3	45	0	7	0	22
0200	39	27	0	100	35	2	39	0	6	0	18
0400	37	36	1	99	45	1	33	1	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 : **LITTLE BROSNA**

25/L/02

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: M 947 128

Date(s) Surveyed: 24/8/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1973	1975	1977	1981	1984	1987	1993	1996	1999	2002	2005
0100	5	5	5	5	4	4-5	3-4	3-4	4	4	3-4	3-4
0200	-	-	-	-	4	4	3-4	-	-	-	-	-
0300	4	3-4	3-4	-	3-4	3-4	3-4	3	3	3	3-4	-
0301	-	-	-	-	-	-	-	-	-	-	1	-
0400	-	-	-	4	4	4	4	3-4	3	3	3/0	3-4
0500	4-5	3-4	4	4	4	4-5	4	-	-	-	-	-
0600	4	-	-	-	4-5	5	4-5	3-4	4	4	4	3-4
0700	5	4-5	-	4-5	4-5	4	4	3-4	3	4	3-4	3
0800	5	5	-	5	4	4	4-5	4	-	-	-	-
0810	-	-	-	-	-	-	-	-	3-4	3-4	3-4	3-4
0900	5	-	-	5	4	5	5	-	-	-	-	-
1000	-	-	-	-	4	4-5	5	3-4	3-4	3-4	3-4	3-4

Assessment: Although quality had improved below Roscrea (0400) since 2002, there were strong indications of over enrichment at all points surveyed in 2005 with more marked ecological disruption at Riverstown (0700). See also Keeloge Stream (25K14) and Kilcomin Stream (25K15), both formerly reported as branches of the Little Brosna.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Milltown Br	206992	190924	53	OF
0200	Just u/s Bunow R confl (at water intake)	0	0	53	OF
0300	1st Br d/s Bunow R confl	210857	190439	53	OF
0301	First Br d/s Bunow R confl (d/s RHS)	0	0	53	OF
0400	Br nr Brosna House (Drumakeenan)	210088	191828	53	OF
0500	Brosna Br (nr Brosna Station)	0	0	53	OF
0600	Sharavoge Br (SW of S. Ho) (d/s on RHS)	205626	196501	53	OF
0700	Riverstown Br	205269	203512	53	OF
0800	Croghan Br	0	0	53	OF
0810	100m d/s Croghan Br	205371	205709	53	OF
0900	Derrinsallow Br (u/s side)	0	0	53	OF
1000	New Br	201647	209141	53	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	62	127	24	76	76	3	1	0	13	0	6
0300	60	65	46	54	74	5	1	5	11	0	4
0400	52	201	30	70	76	3	1	2	13	0	5
0600	45	233	26	74	75	4	1	2	14	0	5
0700	42	328	20	80	72	3	4	1	15	0	5
0810	40	488	28	72	68	7	6	1	13	0	5
1000	37	502	27	73	68	7	5	1	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 : **LORRHA STREAM**

25/L/05

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: M 887 032

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0200	3	3	3-4	3-4	3	3-4
0300	4	3	3	3	3	3-4

Assessment: Although improved slightly since 2002, luxuriant weed and algal growth and heavy substratum siltation continued, indicating that further improvement to be required before fully satisfactory conditions are restored. Agriculture is suspected as the most likely source of the eutrophication and siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Lorrha	191690	204484	53	TY
0300	Br d/s Friar's Lough	190727	203686	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	38	24	0	100	68	4	16	0	10	0	2
0300	37	28	0	100	69	3	14	0	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 : **MOATE STREAM**

25/M/05

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 226 325

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1984	1986	1987	1988	1989	1993	1996	1999	2002	2005
0150	-	-	1	1	2-3	3	1	3	2-3	3
0300	2	3	3	-	-	3	2	3	3	3
0400	3-4	4	3	-	-	3	3-4	3	4	3-4

Assessment: The Moate Stream (aka Cloghatanny River) was moderately polluted in and below Moate (0150, 0300) and slightly polluted in its lowermost reaches (0400) in August 2005. Although somewhat improved since 2002 at Station 0150 the faunal composition and depressed Dissolved Oxygen content there (44%) indicated some considerable impact from suspected sewage discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Br NW of Culleenagower	218669	237762	48	MH
0300	Br S of Lurgan X-Rds	219188	235463	48	OF
0400	Br nr Sheean Ho	222091	233763	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	67	3	12	88	74	0	0	26	0	0	0
0300	58	10	4	96	81	0	0	12	0	0	7
0400	53	23	2	98	76	0	9	6	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 : **MONAGHANSTOWN****25/M/01**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 381 432

Date(s) Surveyed: 9/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0100	-	3-4	-	-	-	-
0300	4	4	3-4	4	4	3-4
0500	4	4	3-4	4	3-4	3-4

Assessment: Eutrophication has intensified in the Monaghanstown River in recent years: the stream was completely overgrown at the upper surveyed location (0300) and had excessive filamentous algae and duckweed at Nure Bridge (0500). A forestry plantation is sited near the latter point.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glomerstown: North Br	0	0	48	MH
0300	Br NNW of Monaghanstown	234979	245584	48	MH
0500	Nure Br	237090	242936	48	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	6	0	100	100	0	0	0	0	0	0
0500	86	37	0	100	86	3	1	1	6	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 : **NENAGH**

25/N/01

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 816 864

Date(s) Surveyed: 7/9/2005, 8/9/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1978	1981	1984	1986	1987	1993	1996	1999	2002	2005
0100	-	-	5	5	5	-	4-5	5	4-5	4-5	4	4-5
0200	-	-	5	5	4-5	-	4-5	5	4-5	4-5	4	4
0300	-	-	4	5	5	-	5	4-5	4	4-5	4-5	4
0400	-	-	-	5	4-5	5	4	-	4	4-5	4	3-4
0500	5	5	4-5	5	4	4-5	5	4-5	4	4-5	4	3-4
0700	-	-	3-4	3-4	3-4	4	4-5	3-4	3-4	3-4	3-4	3-4
0800	-	-	4	4	4	-	3-4	3	3-4	3-4	3-4	3-4

Assessment: Substratum siltation had become quite pronounced in the reach upstream of Nenagh in 2005; the ensuing ecological disruption was particularly marked at Ballynaclogh Bridge (0400) where conditions had deteriorated to an unsatisfactory status. Abnormally high weed and algal productivity at Tyrone Bridge (0500) may be related to the storage on pallets of what appeared to be inorganic fertiliser in a co-op yard just upstream. The river from Nenagh to Lough Derg continued to reflect very marked eutrophication, particularly at Annaghbeg Bridge (0800) where the entire river bed was carpeted with a heavy blanket of Cladophora. Such conditions typically cause extreme fluctuations in dissolved oxygen and fish deaths commonly result.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloghinch Br	196159	169391	59	TY
0200	Lacken Br	196000	173007	59	TY
0300	Ballysoilshaun Br	191603	173944	59	TY
0400	Ballynaclogh Br	189148	174855	59	TY
0500	Tyrone Br.	187572	177917	59	TY
0700	Br d/s Nenagh Br	186054	182277	59	TY
0800	Annaghbeg Br	183100	184890	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	119	31	100	0	64	14	11	0	2	0	9
0200	87	57	100	0	73	10	6	1	3	0	8
0300	74	79	93	7	75	7	5	1	7	0	6
0500	55	133	76	24	77	6	4	1	8	0	4
0700	44	293	57	43	75	4	2	2	13	0	3
0800	34	315	53	47	75	4	2	2	14	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 : **NEWPORT (TIPPERARY)**

25/N/02

Tributary of : 25K02 KILLEENGARRIFF

OS Catchment No: 155

OS Grid Ref of Confluence: R 685 578

Date(s) Surveyed: 14/9/2005

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1975	1979	1981	1984	1987	1993	1996	1999	2002	2005
0060	-	-	-	-	-	5	5	5	5	4-5	4-5
0100	-	-	5	5	5	5	5	3-4	4-5	4-5	4-5
0200	5	5	5	5	5	5	5	3	3-4	3-4*	4
0330	-	-	-	-	-	-	5	4	4-5	4	4-5

Assessment: Water quality continued to be of a generally high standard in the Newport River in 2005 and, despite large quantities of sand and silt (water treatment plant nearby?) on the mostly bedrock substratum at Rockvale (0200), a slight improvement in biodiversity was apparent at that location in comparison with previous the survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br nr Glanculloo Old School	183723	168340	59	TY
0100	Ford u/s Doonane R confl	177521	166812	59	TY
0200	Rockvale Br nr Mackney	173878	163344	59	TY
0330	Br S of Shower	170251	161848	58	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	195	24	100	0	15	25	24	0	8	0	28
0100	128	45	100	0	27	23	20	0	4	0	25
0200	80	69	100	0	28	19	19	0	9	0	26
0330	36	95	99	1	36	14	14	0	8	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 : **NEWTOWN****25/N/03**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 802 826

Date(s) Surveyed: 13/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1985	1987	1993	1996	1999	2002	2005
0100	5	5	5	4-5	4-5	4-5	4-5
0200	5	5	5	3-4	4-5	4	4

Assessment: Unrestricted cattle and horse access poses a threat to the satisfactory status of this stream at Carrigmadden Bridge (0100). As in 2005 the restricted biodiversity at Newtown (0200) reflected 'Fair' water quality at that location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carrigmadden Br	179801	178001	59	TY
0200	Newtown Br	180441	180696	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	109	13	100	0	48	9	2	0	22	0	19
0200	48	17	100	0	57	7	2	0	19	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 : **OLLATRIM**

25/O/01

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 873 804

Date(s) Surveyed: 6/9/2005, 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1993	1996	1999	2002	2005
0040	-	-	3-4	3-4	3	3	3*	3
0080	-	-	4-5	3-4	3-4	3-4	3-4	3-4
0100	5	4	4	4	-	-	-	-
0150	-	-	4-5	-	4	4	4	4
0200	5	3-4	3-4	4	-	-	-	-
0250	-	-	-	-	4	4	4	4
0300	4	3-4	4	4-5	-	-	-	-
0400	4	4	4	3-4	3-4	3-4	3-4	3-4
0450	-	-	4	-	-	-	-	-
0500	5	3-4	4	-	-	-	-	-
0600	-	-	4-5	3-4	3-4	3-4	3-4	3-4

Assessment: At least one large sandpit is located in the Ballybeg area (0040) where, coincidentally, extreme silt deposition allied with massive weed and algal production indicated considerable ecological disruption in the Ollatrim River September 2005. The pollution and eutrophication in this area had worsened since 2002 and for the remainder of its course the indications were of continuing marked eutrophication at all points surveyed. Although the biological indicators at Stations 0150 and 0250 were consistent with reasonable ecological quality the dissolved oxygen readings (139, 124% respectively) at both points were outside of what would be considered 'normal' values. Overall condition remains mostly unsatisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SE of Ballybeg	202307	176088	59	TY
0080	Aghnameadle Br	201694	177499	59	OF
0100	Ollatrim Br	200100	179500	0	TY
0150	Br d/s Ollatrim Br	198774	180921	59	TY
0200	Br SW of Millgrove Ho	0	0	0	TY
0250	Br nr Riverlawn House	194173	181903	59	TY
0300	Ford at Castle Willington	0	0	0	TY
0400	Rathurles Br	190617	179783	59	TY
0450	Br SW of Islandbaun Ho	0	0	0	TY
0500	Gourdeen Br	0	0	0	TY
0600	Br u/s Nenagh R confl	187633	180217	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	145	18	100	0	80	7	0	0	2	0	11
0080	133	35	100	0	75	12	1	0	2	0	11
0150	104	52	95	5	78	8	1	1	6	0	7
0250	84	68	82	18	77	6	2	0	9	0	5
0400	68	81	69	31	75	5	1	0	13	0	5
0600	49	120	56	44	74	3	1	1	17	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 : **PALLAS****25/P/01**

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: M 998 095

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0300	4-5	3-4	3	3	2-3	3-4
0500	5	4	3-4	3	3	4

Assessment: There has been a marked improvement in the ecological quality of this stream since 2002 but the upper reaches continued to be adversely affected by heavy deposition of cattle manure in late August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SE of New Grove nr Holy Well	196828	206426	53	TY
0500	Nr Church d/s Pallas Br	199911	207182	53	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	42	15	0	100	71	0	2	0	21	0	7
0500	36	29	0	100	74	0	4	0	18	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 : **POLLAGH STREAM (BROSNA)****25/P/05**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 189 257

Date(s) Surveyed: 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1996	1999	2002	2005
0300	4	3-4	4	3-4	4	4

Assessment: Despite considerable peat siltation and a somewhat depressed dissolved oxygen concentration (73%), the resident biota indicated a continuation of reasonably satisfactory water quality at the point surveyed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Brosna R confl	219214	225009	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	46	34	0	100	50	0	31	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 : **ROCK (BIRR)**
 Tributary of : 25L02 LITTLE BROSNA
 OS Grid Ref of Confluence: N 048 027
 Date(s) Surveyed: 23/8/2005

25/R/02

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1993	1996	1999	2002	2005
0050	3-4	4-5	4	4-5	3-4	3-4	4
0100	3	4	3-4	-	-	-	-
0200	3	3-4	-	-	-	-	-
0300	3	4	4	2	3	3	3-4

Assessment: Although this small stream was considerably silted and calcified and quite weedy in its upper reaches, the resident biota at Station 0050 reflected an acceptable standard of water quality, an improvement since 2002. Conditions had also improved in the lower reaches (0300) but indications were of some considerable eutrophication continuing there.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br WNW of Killeenbreaghan Ho	208198	199798	53	OF
0100	Whiteford Br	0	0	0	OF
0200	Br u/s Aughnagann Ford	0	0	0	OF
0300	Aughnagann Ford	205402	202722	53	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	70	10	0	100	64	0	14	0	22	0	0
0300	46	27	0	100	74	0	6	3	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 : **SCARRIFF STREAM** **25/S/08**
 Tributary of : 25G04 GRANEY (SHANNON) OS Catchment No: 155
 OS Grid Ref of Confluence: R 641 844
 Date(s) Surveyed: 28/9/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1999	2003	2005
0400	4	3-4	4	3	3

Assessment: This stream was again moderately polluted at the point surveyed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	West Br Scarriff	164100	184608	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	36	8	59	41	66	0	2	2	1	0	31

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

River and Code : **SILVER (KILCORMAC)**

25/S/02

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 139 224

Date(s) Surveyed: 17/8/2005, 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1971	1974	1981	1984	1987	1993	1996	1999	2002	2005
0100	-	-	5	5	5	4	4	4-5	4-5	4-5
0200	-	-	5	5	4-5	3-4	4-5	4	4	4-5
0300	5	5	5	5	4-5	-	-	-	-	-
0320	-	-	-	-	-	3-4	3-4	3	3	3-4
0400	4	4-5	4	3-4	3-4	3-4	3-4	4	-	3-4
0500	-	-	4	3-4	4	4	4	4	4-5	4
0600	4	4	4	5	4	-	-	-	-	-
0700	4-5	4	4	4-5	4	4	4	4	4	4

Assessment: Apart from a slightly polluted stretch in and below Kilcormac (0320, 0400) the Silver River was in a generally satisfactory condition in 2005 but there were indications of increasing eutrophication in the lower reaches (0500, 0700): sewage and slurry are the main threats in this area.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at Cadamstown	222734	208487	54	OF
0200	Ballynacarrig Br	222578	213611	54	OF
0300	Br at Ballyboy	0	0	54	OF
0320	East Br Kilcormac	218555	214098	54	OF
0400	Br 1km d/s Kilcormac	217720	214683	54	OF
0500	Wooden Br	212737	214317	54	OF
0600	Millbrook Br	0	0	54	OF
0700	Lumcloon Br	213899	219802	54	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	130	13	100	0	7	24	49	0	13	0	7
0200	74	82	47	53	57	12	14	0	8	0	9
0320	60	91	42	57	58	10	13	0	10	0	8
0400	57	92	42	58	59	10	12	1	10	0	8
0500	48	131	29	71	61	7	10	1	14	0	7
0700	45	156	25	75	58	8	14	0	13	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 : **SILVER (TULLAMORE)**

25/S/03

Tributary of : 25C06 CLODIAGH (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 245 269

Date(s) Surveyed: 12/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1993	1996	1999	2002	2005
0050	-	4	-	-	-	-	-
0055	-	4	4	4	3-4	-	-
0100	4-5	3-4	4	3	3	3*	3-4
0200	-	-	3-4	-	-	-	-
0300	4-5	4	4	4	4	3*	3-4
0400	4	4	-	-	-	-	-
0500	-	-	3-4	3	3-4	3-4	3-4

Assessment: Had improved somewhat since 2002 but as indicated primarily by the excessive algal productivity, the upper and lower reaches continued to be over-enriched in 2005. Faunal diversity was restricted by heavy calcification at Gormagh Bridge (0100) and by very heavy siltation at New Bridge (0500). In hard waters such as the Silver River the soluble bicarbonates are precipitated if the pH increases and this occurs in eutrophic rivers where photosynthesis raises the ambient pH.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Derrygolan Br (LH Chan)	0	0	48	OF
0055	Derrygolan Br (RH Chan)	236283	229804	48	OF
0100	Gormagh Br	233905	228531	48	OF
0200	Ballyduff Br	0	0	48	OF
0300	Br N of Aharney	228944	228602	48	OF
0400	Br E of Derries	0	0	48	OF
0500	New Br u/s Clodiagh R confl	225116	227363	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0055	72	32	0	100	75	0	17	0	4	0	3
0100	60	41	0	100	77	0	14	1	6	0	2
0300	52	61	0	100	73	2	9	3	10	0	2
0500	48	76	0	100	75	2	9	2	9	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 : **SILVERMINES VILLAGE STREAM**

25/S/10

Tributary of : 25K04 KILMASTULLA

OS Catchment No: 155

OS Grid Ref of Confluence: R 807 717

Date(s) Surveyed: 14/9/2005

Kilmastulla 0040 to 0100 incl.

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1974	1976	1978	1983	1985	1987	1993	1999	2002	2005
0050	-	-	-	-	-	-	-	-	4	4	4-5
0100	4-5	4	4	3-4	3-4	3-4	4	4	-	3	3

Assessment: This little stream was again moderately polluted at Kilmore Bridge (0100) by suspected sewage from Silvermines village in 2005. Conditions in and above the village (0050) continued to be satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Silvermines Br	184254	171486	59	TY
0100	Kilmore Br	183983	172469	0	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	101	2	85	15	22	0	22	11	0	0	45

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

River and Code : **SMALL (TIPPERARY)** **25/S/05**
 Tributary of : 25N02 NEWPORT (TIPPERARY) OS Catchment No: 155
 OS Grid Ref of Confluence: R 726 623
 Date(s) Surveyed: 15/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1979	1983	1987	1993	1996	1999	2002	2005
0100	5	5	5	-	-	-	-	-
0200	5	5	5	4	4-5	4-5	3-4*	4-5

Assessment: Following a major improvement since 2002, the Small river was in a highly satisfactory condition at the location surveyed in mid-September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1.9km u/s Newport	174289	162494	59	TY
0200	Br u/s Newport R confl	174195	162594	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	91	8	100	0	14	5	6	0	0	0	75
0200	88	9	100	0	16	5	6	0	0	0	73

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

River and Code : **SYONAN CASTLE STREAM**

25/S/04

Tributary of : 25G01 GAGEBOROUGH

OS Catchment No: 155

OS Grid Ref of Confluence: N 282 386

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0300	-	4	4-5	3-4	3	4
0400	4	-	-	-	-	-
0500	4	4	4	3-4	3-4	4

Assessment: Despite heavy calcification and abundant weed growth the presence of sensitive macroinvertebrate species in good numbers indicated a significant improvement at Station 0300 and, as conditions had also improved at Station 0500 downstream, both locations surveyed were assessed as satisfactory in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br N of Lisnagree (W of Streamstown Ho)	226754	242734	48	MH
0400	Br nr Syonan Castle	0	0	48	MH
0500	Br u/s Gageborough R confl	227993	238859	48	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	90	3	0	100	100	0	0	0	0	0	0
0500	66	12	0	100	89	3	0	0	7	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 : **TOEM STREAM****25/T/05**

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 840 455

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1993	1996	1999	2002	2005
0300	4	3-4	4	4	4	4
0600	4-5	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	South Br at Toem	186718	147503	66	TY
0600	Br u/s Dead R confl	184133	145644	66	LK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	93	3	100	0	41	4	3	0	51	0	0
0600	56	104	49	51	92	1	0	4	4	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 : **TULLAMORE**

25/T/03

Tributary of : 25C06 CLODIAGH (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 280 254

Date(s) Surveyed: 16/8/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1977	1981	1986	1987	1989	1990	1993	1996	1999	2002	2005
0030	-	-	-	-	-	-	-	-	3	3	3	3	3
0100	4	3-4	3-4	4	4	3	-	-	4-5	3	3	3	3-4
0400	1-2	2	1-2	2	2	2	2-3	2-3	2-3	2-3	2	2	2

Assessment: Sewage from Geashill and Tullamore is suspected as the most likely cause of the unsatisfactory condition of the Tullamore River in 2005. The upper reaches (0030) were very heavily silted and lacked sensitive macroinvertebrate species and, although some sensitive species were observed downstream at Springfield Bridge (0100) the abnormally luxuriant crops of water weed and algae plus heavy siltation indicated significant eutrophication at that location: dissolved oxygen was reduced to just 59% here at this time. Downstream of the town the river was again seriously polluted at Ballycowan (0400) where DO was reduced to just 35 per cent of saturation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br d/s Geashill Stream	244474	222320	48	OF
0100	Br S of Cappincur	238697	224074	48	OF
0400	Br near Ballycowan Br	229537	225031	48	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	68	10	0	100	65	2	5	3	25	0	0
0100	58	54	0	100	72	0	5	0	19	0	3
0400	52	132	0	100	68	2	6	5	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 : **YELLOW (KILMASTULLA)****25/Y/01**

Tributary of : 25K04 KILMASTULLA

OS Catchment No: 155

OS Grid Ref of Confluence: R 800 200

Date(s) Surveyed: 13/9/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1974	1976	1978	1981	1983	1985	1987	2002	2005
0200	3/0	2/0	1/0	1/0	3	3-4	3/0	3/0	4-5
0300	1/0	1/0	1/0	1/0	3	3/0	3/0	3/0	4

Assessment: The composition of the relatively scarce macroinvertebrate fauna was broadly similar at both locations surveyed i.e., above and below the metals polluted Garryard Stream. While the absence of sensitive mayflies (family Ecdyonuridae) from the lower location may be significant, the faunal composition at both location was such as to indicate satisfactory quality conditions. Lead levels are known to be high at the lower location but this is not really reflected by the biota. Note: Station 0200 (above) is reported by Kilkenny Regional laboratory as Kilmastulla Station 0500, Station 0300 (above) as Kilmastulla 0600 and the Garryard Stream (q.v.) is reported as Kilmastulla Station 0400.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	u/s Yellow Br & u/s Garryard Stream	180727	171781	59	TY
0300	d/s Yellow Br & d/s Garryard Stream	180680	171815	0	TY

River and Code : **YOUGHAL (TIPPERARY)**

25/Y/02

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 798 827

Date(s) Surveyed: 13/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1982	1985	1987	1993	1996	1999	2002	2005
0050	-	4-5	3	4	3	3-4	3-4*	3-4
0100	-	5	4-5	-	-	-	-	-
0200	5	5	5	4	4	4-5	4-5	4

Assessment: As in 2002, the upper reaches of this stream were again heavily silted by suspected quarrying and forestry activities and the lower reaches had maintained their satisfactory status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N of Curragh	176193	180089	59	TY
0100	Ballycarridoge Br	0	0	59	TY
0200	Br at Youghal	179077	182068	59	TY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	111	7	100	0	59	13	15	6	1	0	5
0200	45	15	99	1	75	6	6	3	7	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 26 (Shannon Upper – Partial Survey)*Partial Survey only: Balance of rivers surveyed in 2006*

AGHNASHANNAGH STREAM	26A11
ANADERRYBOY	26A03
ARDERRY STREAM	26A10
ARIGNA (ROSCOMMON)	26A02
BELLAVALLY STREAM *	26B32
BLACK (SOUTH LEITRIM)	26B04
BLACK (WESTMEATH)	26B05
BOLEYBAUN STREAM *	26B30
BOOR	26B07
BOYLE	26B08
BREEDOGE	26B09
BREENSFORD	26B10
CAMLIN	26C01
CARRICKNABRAHER	26C02
CASTLEGAR	26C03
CLOGHER (ROSCOMMON)	26C18
CLOONCOOSE STREAM	26C20
CLOONE	26C05
CLOONFOWER STREAM	26C21
COMOGE	26C12
CREELAGHTA	26C22
DERRYNANANTA STREAM *	26D23
DIFFAGHER	26D02
DUNGOLMAN	26D06
ESLIN	26E01
FALLAN	26F01
FARDRUMMAN STREAM	26F06
FEORISH (BALLYFARNON)	26F02
FRANCIS	26F05
GAINE	26G01
GLORE (WESTMEATH)	26G02
HIND	26H01
INNY	26I01
ISLAND	26I03
JIGGY (HIND) *	26J01
KILLADISKERT STREAM *	26K16
KILLIAN	26K01
KILLUKIN	26K02
KILMACTRANNY	26K03
KILTACLARE STREAM	26K06
KINARD	26K07
LENAMORE STREAM	26L06
LISDALY STREAM	26L02
LISSAPHOBLE	26L04
LISSYDALY STREAM	26L10
LUNG	26L03
MANTUA STREAM *	26M13

HYDROMETRIC AREA 26 (Shannon Upper – Partial Survey)

Partial Survey only: Balance of rivers surveyed in 2006

MOUNTAIN (ROSCOMMON)	26M03
MOUNTNUGENT	26M02
MULLENMEEHAN STREAM *	26M12
OWENGAR (LEITRIM)	26O02
OWENMORE (GLANGEVLIN)	26O03
OWENNAFOREESHA	26O04
OWENNAYLE	26O05
OWENUR	26O06
RATH	26R01
RELAGH	26R05
RHINE	26R04
RINN	26R02
ROCKSAVAGE *	26R07
SCRAMOGE	26S01
SHAD LOUGH STREAM	26S13
SHANNON (Upper)	26S02
SHIVEN (SOUTH)	26S03
SUCK	26S07
TERMON STREAM	26T03
YELLOW (BALLINAGLERA)	26Y01
YELLOW (CASTLEPOLLARD)	26Y02

- * BELLAVALLY STREAM Formerly Bellavalley Branch of Owenmore (Glengenvlin) 26O03
- * BOLEYBAUN STREAM Previously reported as the Boleybaun Branch of the Diffagher - 26D02
- * DERRYNANANTA STREAM Formerly Derrynananta Branch of Owenmore (Glengenvlin) 26O03
- * JIGGY (HIND) Previously reported as North Branch on Hind 26H01
- * KILLADISKERT STREAM Formerly known as Killadiskert Branch of Diffagher - 26D020600
- * MANTUA STREAM Previously reported as Mantua Branch of the Owenur 26O06
- * MULLENMEEHAN STREAM Formerly East Branch Of Dungolman River 26D06
- * ROCKSAVAGE Previously reported as South Branch on Hind 26H01

River and Code : **AGHNASHANNAGH STREAM**

26/A/11

Tributary of : 26C01 CAMLIN

OS Catchment No: 155

OS Grid Ref of Confluence: N 227 812

Date(s) Surveyed: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1992	1996	1999	2002	2005
0300	-	5	4	4	4
0400	4-5	-	-	-	-

Assessment: Hydromorphologically adversely impacted by watering cattle but water quality remains satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Aghaward Br	223164	282259	34	LD
0400	Br u/s Camlin R confl	222631	281149	34	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	59	6	99	1	84	7	2	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 : **ANADERRYBOY**

26/A/03

Tributary of : Lung

OS Catchment No: 155

OS Grid Ref of Confluence: M 604 887

Date(s) Surveyed: 3/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2002	2005
0100	5	5	4	4-5	4	4	4	4
0400	5	5	4	5	4-5	4	4	4
0500	5	5	4	4-5*	4-5	4	4-5	4
0600	-	-	-	-	4-5	4	4-5	4

Assessment: The Annaderryboy was satisfactory over its length in August 2005. A slight deterioration in quality was noted, however, in the lower section (0500, 0600) in comparison with 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloonroe Bridge	152955	287834	32	RN
0400	Bridge d/s Cloonagh Lough	155585	286032	32	RN
0500	Cloontowart Bridge	158740	286749	32	RN
0600	Driney Br	160675	287389	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	84	10	0	100	25	0	46	0	10	11	8
0400	88	26	0	100	27	1	57	0	4	8	3
0500	79	47	0	100	28	3	55	0	4	6	4
0600	76	91	17	83	34	2	51	1	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 : **ARDERRY STREAM**

26/A/10

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: H 155 023

Date(s) Surveyed: 6/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1992	1996	1999	2002	2005
0300	4	4	4	3-4	-
0500	4	3-4	4	3-4	4

Assessment: Remains somewhat enriched and weedy but indications in July 2005 were of an improvement in quality since 2002. Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br NW of Killyfea	217569	303693	34	LM
0500	Br u/s Corraneary Str confl	216614	301969	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	62	10	0	100	0	0	1	0	83	8	8
0500	57	14	0	100	0	0	1	0	86	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.

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

26/A/02

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 962 125

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1992	1996	1999	2002	2005
0100	5	4	4-5	3	4	4-5	4-5
0300	3-4	4	3	4	3-4	4	4

Assessment: The Arigna River was in satisfactory condition over its length when surveyed in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	At Altagowlan School	190038	316949	26	RN
0300	Mount Allen Bridge	194764	313131	26	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	113	23	0	100	0	41	26	1	0	0	32
0300	52	48	0	100	12	20	32	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 : **BELLAVALLY STREAM** **26/B/32**
Tributary of : 26O03 OWENMORE (GLANGEVLIN) OS Catchment No: 155a
OS Grid Ref of Confluence: H 083 256
Date(s) Surveyed: 5/7/2005

Formerly Bellavalley Branch of Owenmore (Glangevlin) 26O03

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0120	5	4-5	5	4-5	5	4-5

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0120	Br SE of Carty's Br	208900	325600	26	CN

River and Code : **BLACK (SOUTH LEITRIM)**

26/B/04

Tributary of : 26R02 RINN

OS Catchment No: 155

OS Grid Ref of Confluence: N 101 874

Date(s) Surveyed: 8/7/2005, 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1987	1992	1996	1999	2002	2005
0070	-	-	5	4	4	4	-	-
0080	-	-	5	3	3-4	4	4-5	4
0100	5	5	5	4	4	4	4-5	4-5
0200	5	4-5	5	4	4-5	4-5	4-5	4
0300	5	5	5	4-5	4-5	4-5	4-5	4-5

Assessment: Continuing satisfactory but has become quite weedy at Stations 0100 and 0200 indicating a recent slight but unwelcome increase in eutrophication at those points.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Br NW of Ballinamuck	218350	291067	34	LD
0080	Br SW of Ballinamuck	217754	290254	34	LD
0100	Br nr Breanrisculley	216006	288620	34	LD
0200	Bellantra Br	212864	289460	34	LM
0300	Br u/s Rinn R confl	210768	286941	33	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	57	11	88	12	65	0	32	0	0	3	0
0080	55	15	78	22	64	0	31	0	2	3	0
0100	49	54	74	26	76	0	17	0	3	2	2
0200	43	90	62	38	78	0	16	0	3	1	2
0300	40	104	55	45	78	0	17	0	3	1	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 (WESTMEATH)**

26/B/05

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 335 636

Date(s) Surveyed: 14/7/2005, 15/7/2005

Biological Quality Ratings (Q Values)

Station Nos.	1977	1980	1982	1984	1986	1987	1988	1989	1990	1992	1994	1996	1999	2002	2005
0045	-	-	-	-	-	1-2	1	1-2	1	1	1	1	1	3	2-3
0050	-	-	-	-	-	2	2	2	1-2	1-2	1-2	-	-	-	-
0100	-	3-4	1	1-2	2	2	2	1-2	2	1-2	1-2	2	2-3	2-3	2-3
0120	-	-	-	-	-	3	3	2	2-3	3	2-3	-	-	-	-
0140	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
0180	-	-	-	-	-	3-4	-	-	1	3	-	3	3	3	3
0200	-	4	3	3	3	3-4	-	-	-	3	-	-	-	-	-
0300	3	4	4	3	3	4	-	-	-	3	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4	4

Assessment: Some further improvement since 2002 is noted in the lowermost reaches (0400) but for the most of its course from Edgeworthstown the Black River was in a distinctly polluted condition in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0045	Ballymahon Rd Br Edgeworthstown	225571	271870	41	LD
0050	Br nr Edgeworthstown Ry Sta	225964	271182	41	LD
0100	Br nr Ballinlaghta	226588	270202	41	LD
0120	Br WNW Gneeve	227316	269932	41	LD
0140	Br N Lissanure	227758	269278	41	LD
0180	Br SE of Lissanure (5th Br d/s St 0100)	228155	268482	41	LD
0200	Br WSW of Rathowen	230214	267215	41	MH
0300	Ardglass Br	232290	264888	41	WH
0400	0.25 km d/s Ardglass Bridge .	232468	264701	41	WH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	92	4	0	100	94	0	0	6	0	0	0
0100	74	11	0	100	95	1	0	4	0	0	0
0180	70	18	0	100	86	0	11	2	0	0	0
0200	66	49	0	100	82	2	10	1	2	0	3
0400	62	54	0	100	82	2	9	1	1	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 : **BOLEYBAUN STREAM** **26/B/30**
 Tributary of : 26D02 DIFFAGHER OS Catchment No: 155
 OS Grid Ref of Confluence: G 909 261
 Date(s) Surveyed: 16/9/2005

Previously reported as the Boleybaun Branch of the Diffagher - 26D02

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0400	3-4	4-5	4-5	4-5	4	4

Assessment: Satisfactory - no change in comparison with the 2002 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br N Cloonamurgal	190481	326618	0	

River and Code : **BOOR**

26/B/07

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 053 345

Date(s) Surveyed: 4/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1992	1996	1999	2002	2005
0600	3	4	3	3	-	-
0800	3	-	-	-	-	-
0900	-	-	-	-	3-4	4
1100	4	4	4	-	-	-
1200	-	-	-	-	4	4

Assessment: Despite persistent heavy siltation at Station 1200 since the drainage operations of 1999 water quality was assessed as satisfactory at both locations surveyed in 2005: this represents an improvement at Station 0900.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br near Castledaly Chapel	212785	236018	48	WH
0800	Br at Ballinlassy	211187	235324	47	WH
0900	Br E of Ballinlassy	210717	235376	47	WH
1100	Br at Kilbillaghan	209808	234966	47	WH
1200	Br NW of Ballynahownwood	208310	234890	47	WH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	49	15	32	68	100	0	0	0	0	0	0
1100	39	53	15	85	84	0	14	0	0	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 : **BOYLE****26/B/08**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 927 020

Date(s) Surveyed: 17/8/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1978	1980	1983	1987	1992	1996	1999	2000	2002	2005
0100	-	-	-	5	4	4-5	4	4	4	-	4	4
0200	5	5	5	5	4-5	4-5	4	4	4	-	4-5	4
0300	-	4	4	4	4	4	3-4	-	-	-	-	-
0400	5	-	3-4	3-4	4	4	4	4	4	4	4	4-5
0500	-	-	-	-	-	-	3-4	4	3-4	-	4-5	4
0600	5	5	-	5	4-5	-	4	4	4	-	4	4

Assessment: The Boyle River was satisfactory over its length. Some deterioration was, however, noted upstream of Boyle (0200) and at Knockvicar Bridge downstream of Lough Key (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cuppanagh Bridge	173418	301105	33	RN
0200	Footbridge 1.8 km u/s Boyle	178850	301850	33	RN
0300	Bridge at Boyle Abbey	180206	302589	33	RN
0400	Drum Bridge (Boat House Ford)	181616	303934	33	RN
0500	Knockvicar Bridge	187249	305546	33	RN
0600	Cootehall Bridge	189429	303673	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	60	0	0	100	100	0	0	0	0	0	0
0200	56	504	12	88	51	1	23	0	9	4	11
0300	52	508	12	88	52	1	23	1	9	4	11
0400	44	525	13	87	51	1	22	1	11	3	11
0500	40	577	15	85	51	2	20	1	11	5	11
0600	40	585	14	86	51	2	20	1	11	5	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 : **BREEDOG**

26/B/09

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 725 960

Date(s) Surveyed: 5/8/2005, 17/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1983	1987	1992	1996	1999	2002	2005
0100	3-4	4	-	4	3-4	4-5	4	3
0200	5	4-5	4-5	4-5	-	-	-	-
0300	5	4	4	4	4-5	4	4	4

Assessment: A deterioration in quality was noted at the upper Breedoge location (0100) in comparison with 2002 and 1999. The lowermost site remained satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Loughbally Br	176235	290379	33	RN
0200	Bella Bridge	175402	292697	33	RN
0300	Breedoge Bridge	174465	294722	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	69	66	0	100	56	0	19	0	5	0	21
0200	69	107	0	100	58	1	16	0	5	0	19
0300	69	144	0	100	60	1	15	0	6	0	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 : **BREENSFORD****26/B/10**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 073 444

Date(s) Surveyed: 4/8/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1988	1992	1996	1999	2002	2005
0100	4	4	3-4	3-4	3-4	3-4	3-4
0200	5	4	-	-	-	-	-
0300	-	-	3-4	-	-	-	-
0400	4	5	4	3-4	3-4	3-4	3-4

Assessment: The Breensford River continued to be in a highly eutrophic and heavily silted at both locations surveyed in 2005 and it was hydromorphologically damaged by watering cattle at Station 0100.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Twy Lough	210431	244499	47	MH
0200	1st Br d/s Twy Lough	0	0	47	MH
0300	2nd Br d/s Twy Lough	0	0	47	MH
0400	Br in Ballykeeran	207368	244331	47	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	47	35	0	100	81	2	4	3	2	1	8
0400	38	56	0	100	76	3	8	2	1	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 : **CAMLIN**

26/C/01

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 057 760

Date(s) Surveyed: 13/7/2005, 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)																
	1971	1973	1975	1977	1979	1981	1983	1985	1987	1989	1990	1992	1994	1996	1999	2002	2005
0050	-	-	-	-	-	-	-	-	4	-	-	3-4	-	3-4	3-4	3-4	3-4
0100	-	-	-	-	-	4	4-5	4	4	-	-	-	-	-	-	-	-
0200	-	-	-	-	-	3-4	3-4	4	4-5	-	-	4	-	4	4	4	4
0300	4-5	4	4	3-4	3-4	3	3-4	3	3-4	-	-	3-4	-	-	-	-	-
0400	-	-	-	-	-	3-4	4-5	4-5	4-5	-	-	-	-	4-5	4	4	4
0500	-	-	-	-	-	4	3-4	4	4-5	-	-	3-4	-	-	-	-	-
0600	4-5	-	-	-	-	4	4-5	4-5	4-5	-	-	4	-	3-4	3-4	4-5	4
0700	-	4-5	4-5	4	4	5	4-5	4-5	4-5	-	-	4	-	4	4	4-5	4-5
0800	-	-	-	-	-	4	4-5	4-5	4-5	-	-	3-4	-	3-4	4	4	4
0900	1	1	1	1	1	1	1	2	2	1	1	1	3	3	3-4	2-3	3-4
1000	1	1	1	1/0	1	1	1-2	2	3	1/0	1	1	3	3	3	2-3	2-3
1100	2-3	3-4	3	2-3	1-2	1-2	2	2	3	2	2-3	2-3	-	3	3	3	3-4
1200	-	-	-	-	-	-	-	-	-	-	-	2-3	3	-	-	-	-

Assessment: As in 2002, the Camlin river was in a satisfactory condition over most of its course in 2005. The upper and lower reaches, however, continued to be affected by marked eutrophication particularly at Lisnabo (1000) where the dissolved oxygen concentration was reduced to 56 percent of saturation. The improvement at Station 0900 is an indication of some success in pollution abatement measures at Longford but eutrophication remains a problem in the lower river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br d/s Cloonfin Lough	226068	279759	41	LD
0100	Br u/s Ballinalee Br	0	0	0	LD
0200	Ballinalee Br	222724	280945	34	LD
0300	Soran Br	222021	280849	34	LD
0400	Kilnacarrow Br	221296	280293	34	LD
0500	Br N of Farragh Crossroads	0	0	0	LD
0600	Argar Br	218149	279413	41	LD
0700	Br nr Kiltyreher	216494	277962	41	LD
0800	The Mall Br Longford	213818	275830	41	LD
0900	Br 1.8 km d/s Longford Br	211697	275913	40	LD
1000	Br W of Lisnabo	209490	277819	40	LD
1100	S Br Clondra	206220	275786	40	LD
1200	0.5 km d/s S Br. Clondra	0	0	40	LD

Hydrometric Area 26 (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	56	41	1	99	90	1	5	0	2	0	3
0200	47	73	9	91	88	3	3	0	2	0	4
0300	46	84	18	82	88	3	3	0	2	0	4
0400	46	92	22	78	89	3	3	0	2	0	4
0600	45	122	23	77	89	2	3	0	2	0	4
0700	44	149	21	79	88	2	3	0	2	0	4
0800	42	202	18	82	89	2	3	0	2	0	3
0900	42	253	15	85	88	2	4	1	2	0	3
1000	40	261	15	85	88	2	4	1	2	0	3
1100	42	0	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 : **CARRICKNABRAHER**

26/C/02

Tributary of : 26B09 BREEDOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 762 902

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1983	1987	1992	1996	1999	2002	2005
0100	4	4	4-5	4	3-4	4	3-4	3-4
0200	3	4	-	3	3-4	3-4	3	3

Assessment: The Carricknabraher was again quite eutrophic when surveyed in August 2005. Dissolved oxygen readings of over 130% saturation were recorded at Cloonshanville Br.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloonshanville Bridge	173700	290316	33	RN
0200	U/s Owennaforeesha River	176152	290246	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	19	0	100	35	0	26	0	11	0	29
0200	69	33	0	100	40	0	27	1	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 : **CASTLEGAR**
 Tributary of : 26S03 SHIVEN (SOUTH)
 OS Grid Ref of Confluence: M 704 482
 Date(s) Surveyed: 12/8/2005, 13/8/2005

26/C/03

OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1981	1983	1987	1992	1996	1999	2002	2005
0080	-	-	-	3	4	2-3	4	4	4
0100	3	4	4	3	3-4	2-3	3	3	4
0200	2	3	4	3	3	3	3	3	3

Assessment: The upper site was impacted by local cattle access. Signs of eutrophication were apparent at Mountbellew Bridge (0100) but there were a number of pollution-sensitive faunal species present indicating an improvement in comparison with 2002 and 1999. The lower site (0200) remained moderately polluted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Bridge E.S.E. of Rahins	165849	243378	46	GY
0100	Mountbellew Bridge	166703	246769	46	GY
0200	Canavan's Bridge	167276	247620	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	72	16	0	100	77	0	4	0	9	0	10
0100	61	51	0	100	69	1	8	0	12	0	11
0200	57	66	0	100	65	3	11	0	10	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 : **CLOGHER (ROSCOMMON)**

26/C/18

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 895 015

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1990	1991	1992	1996	1999	2002	2005
0500	2	2-3	3	3	3	2-3	3	3
0900	-	-	-	4	3	3-4	-	3

Assessment: The Clogher River was moderately polluted at both sites surveyed in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br just d/s Clogher Lough	184956	298403	33	RN
0900	1st Br u/s Drumharlow L. SSW of Us	188879	300964	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	82	15	0	100	67	2	1	0	15	7	8
0900	45	28	0	100	78	1	1	0	12	4	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 : **CLOONCOOSE STREAM**

26/C/20

Tributary of : 26C01 CAMLIN

OS Catchment No: 155

OS Grid Ref of Confluence: N 140 770

Date(s) Surveyed: 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0200	3	-	-	-	-	-
0300	3	3	3-4	4	4	4
0500	3	3-4	3	4	4	4

Assessment: Water quality was satisfactory in this minor stream in July 2005. Flows were minimal and the substratum was heavily silted at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Corboy	0	0	41	LD
0300	Cartron Br NW of Lissavaddy	217364	276026	41	LD
0500	Br u/s Camlin R confl	214799	276697	41	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	60	8	0	100	95	0	0	0	5	0	0
0500	49	32	1	99	89	2	6	0	3	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 : **CLOONE**

26/C/05

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 109 941

Date(s) Surveyed: 6/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1987	1992	1996	1999	2002	2005
0050	-	-	5	3-4	-	-	-	-
0100	4-5	4-5	5	4	4	4	4	4
0200	4-5	3-4	5	4	-	-	-	-
0250	-	-	-	-	4-5	4	4-5	4
0300	4-5	4-5	4-5	-	-	-	-	-
0400	5	5	5	4	4-5	4-5	4-5	4-5

Assessment: Continuing satisfactory but luxuriant weed growth (*Ranunculus* sp.) indicated some enrichment at Stations 0100 and 0400 in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br E of Greagh Crossroads	214686	304484	34	LM
0100	Wooden Br SE of Tooma	215614	301354	34	LM
0200	Br 1.5 km S of Cloone	214110	298765	34	LM
0250	Br u/s Relagh R confl	213538	298341	34	LM
0300	Br at Riverstown	212180	297970	34	LM
0400	Lurga Br	211296	296070	33	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	65	6	0	100	0	5	0	0	65	0	30
0100	55	48	23	77	5	1	2	0	83	3	7
0250	46	71	22	78	19	0	3	0	68	2	7
0400	44	117	13	87	18	0	4	0	70	2	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 : **CLOONFLOWER STREAM**

26/C/21

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 623 814

Date(s) Surveyed: 15/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1992	1996	1999	2002	2005
0200	4-5	4	3	3-4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW Cloonflower	160106	282594	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	76	20	0	100	23	2	61	0	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 : **COMOGE**

26/C/12

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 275 671

Date(s) Surveyed: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1992	1996	1999	2002	2005
0700	4	4	3-4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br u/s Glen Lough	225547	267432	41	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	70	9	0	100	88	6	6	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 : **CREELAGHTA**

26/C/22

Tributary of : 26B04 BLACK (SOUTH LEITRIM)

OS Catchment No: 155

OS Grid Ref of Confluence: N 175 898

Date(s) Surveyed: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1992	1996	1999	2002	2005
0500	4-5	4	-	-	-	-
0800	-	-	4-5	4-5	4	4-5
0900	4	4	-	-	-	-

Assessment: Continuing satisfactory. Trout observed here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br N of Graigue	0	0	34	LD
0800	Br NW of Carrowdrumman	218301	289115	34	LD
0900	Br u/s Black R confl	0	0	34	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	66	9	86	14	74	0	18	0	2	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 : **DERRYNANANTA STREAM** **26/D/23**
 Tributary of : 26O03 OWENMORE (GLANGEVLIN) OS Catchment No: 155a
 OS Grid Ref of Confluence: H 083 256
 Date(s) Surveyed: 5/7/2005

Formerly Derrynananta Branch of Owenmore (Glangevlin) 26O03

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0140	5	4	4-5	4-5	4-5	4

Assessment: Although still classed as satisfactory on the basis of its macroinvertebrate fauna, the recent virtual disappearance of the once dominant mayfly *Baetis rhodani* indicated a degree of acidification in this remote mountain stream. Coniferous forestry is the likely cause. Formerly reported as the Derrynananta Branch of the Owenmore (Glangevlin) (q.v.). *Acidification

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0140	Br u/s Bellavally Branch confl	208600	324900	26	CN

River and Code : **DIFFAGHER** **26/D/02**
 Tributary of : 26O02 OWENGAR (LEITRIM) OS Catchment No: 155
 OS Grid Ref of Confluence: .
 Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1992	1996	1999	2002	2005
0200	5	5	5	4-5	4-5	4-5	4-5

Assessment: The Diffagher was in satisfactory condition in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Cloonemeone Bridge	193279	324800	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	50	60	0	100	12	12	12	0	33	2	29

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

River and Code : **DUNGOLMAN**

26/D/06

Tributary of : 26T02 TANG

OS Catchment No: 157

OS Grid Ref of Confluence: N 172 530

Date(s) Surveyed: 3/8/2005, 4/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1988	1992	1996	1999	2002	2005
0100	-	-	4	3	3-4	-	-	-
0200	-	3-4	4	3-4	4	4	3-4*	4
0300	3-4	4	4	3-4	3-4	3-4	4	4
0400	-	-	-	-	-	4	4-5	3-4

Assessment: Substratum siltation and calcification are notable features of this river but despite this the numbers of sensitive macroinvertebrate species were such as to indicate acceptable water quality conditions at the upper two locations (0200, 0300). Further downstream, however, the river had become very weedy, silted and calcified indicating marked eutrophication at Calliaghstown Bridge (0400) in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballycloghduff Br	217750	242919	48	MH
0200	Br W of Umma House	218663	245472	48	MH
0300	Baskin Br	219238	249365	48	MH
0400	Br SE of Lecade	217728	251956	41	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	18	19	81	76	0	23	0	1	0	0
0200	58	27	12	88	85	0	15	0	0	0	0
0300	51	71	5	95	88	0	6	0	5	0	1
0400	46	79	4	96	89	0	5	0	5	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 : **ESLIN**

26/E/01

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 054 877

Date(s) Surveyed: 7/7/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1980	1982	1984	1986	1987	1989	1990	1992	1994	1996	1999	2002	2005
0100	4-5	4	3-4	4	5	-	-	3-4	-	4-5	3-4	4	3-4
0150	-	-	-	-	-	-	-	4	-	4	4	-	-
0200	5	4-5	3-4	4	5	-	-	-	-	-	-	-	-
0300	5	3	4	4-5	5	-	-	3-4	-	4	3-4	4	4
0350	-	-	-	3-4	3-4	-	-	-	-	-	-	-	-
0400	4-5	4	3	4	5	-	-	3	-	4	3-4	4	3-4
0500	2	2	2	2	2	1-2	1	2	2-3	3	4	3-4	3-4
0600	2-3	3	3	2-3	2	2	1-2	2	2-3	3	4	3-4	-

Assessment: Excessive weed growth and a restricted bottom fauna indicated considerable over-enrichment in the upper Eslin River (0100) in July 2005. Conditions at the three points surveyed downstream reflected a generally acceptable standard of water quality although dissolved oxygen concentrations were quite depressed at Corrascoffly and Clooncolry Bridges (63% and 66% respectively) on the day of this survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Drumgownagh Br	205199	302439	33	LM
0150	Br W of Stuck	205138	300398	33	LM
0200	Eslin Br (RHS)	0	0	33	LM
0300	Lough Erril Br	205540	296722	33	LM
0350	Br d/s Cloonboniagh L.	0	0	33	LM
0400	Corrascoffly Br	205396	293070	33	LM
0500	Br E of Dromod	205513	289803	33	LM
0600	Killinaker Br	205361	287994	33	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	55	23	0	100	30	0	14	0	49	4	3
0150	50	31	0	100	44	0	15	0	36	3	3
0300	46	44	0	100	60	0	10	0	25	3	2
0400	41	60	5	95	67	0	8	0	20	3	2
0500	39	66	4	96	67	0	9	0	20	2	2
0600	38	70	4	96	67	0	9	0	19	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 : **FALLAN****26/F/01**

Tributary of : 26C01 CAMLIN

OS Catchment No: 155

OS Grid Ref of Confluence: N 079 765

Date(s) Surveyed: 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1984	1987	1988	1989	1992	1996	1999	2002	2005
0020	-	-	-	-	3-4	3-4	4	4	3-4
0030	-	-	-	4-5	4	-	-	-	-
0040	-	-	-	-	-	3-4	3-4	4	3-4
0045	-	-	-	4-5	4	-	-	-	-
0075	-	4	-	-	-	-	-	-	-
0080	-	1	4	-	-	-	-	-	-
0100	4	3	-	-	-	-	-	-	-
0200	4	4	-	-	3-4	3-4	3-4	3-4	3-4
0300	4	4	-	-	3-4	-	-	-	-

Assessment: Agriculture is suspected as the most likely cause of the widespread overenrichment and heavy siltation observed at the points surveyed on the Fallan in July 2005. There has been a slight overall deterioration in quality since 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	East Br NE of Abbeyderg	214501	265303	41	LD
0030	Br S of Cloonker	0	0	41	
0040	Br W of Curry	211005	270145	40	LD
0045	Br u/s West Branch confl	0	0	40	
0075	Br NE of Coolnahinch Br	0	0	40	LD
0080	Br E of Ballinamore Br	0	0	40	LD
0100	Br 1.5 km ENE of Killashee	0	0	40	LD
0200	Br S of Kilmore Upper	208474	273384	40	LD
0300	Fallan Br	0	0	40	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	76	6	1	99	84	0	0	0	11	0	5
0040	50	21	0	100	80	2	8	0	5	0	5
0200	41	50	0	100	77	2	13	0	3	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 : **FARDRUMMAN STREAM****26/F/06**

Tributary of :

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)			
	1996	1999	2002	2005
0400	4	4-5	4-5	4-5

Assessment: Water quality continued to be of a high standard in this stream in 2005 but the appearance of Lemna minor or duckweed plus the non-observance of the stonefly Isoperla sp. which had been recorded here indicated an unwelcome increase in productivity since 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br u/s Black R confl	217245	290044	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	54	13	88	12	87	0	6	0	7	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 : **FEORISH (BALLYFARNON)**

26/F/02

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 944 103

Date(s) Surveyed: 29/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1982	1986	1987	1992	1996	1999	2002	2005
0050	-	-	4-5	4-5	4-5	4	4	4
0080	-	-	-	-	4-5	4-5	4-5	4-5
0250	-	-	4-5	5	4-5	4-5	4-5	4-5
0400	5	4	4	5	4-5	5	4-5	4-5

Assessment: The Feorish (Ballyfarnon) was satisfactory over its length in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Mount Town Br	180250	319553	26	SO
0080	Br SW Geevagh	183489	316523	26	SO
0250	1.2 km d/s Ballyfarnon Bridge	186818	312960	26	RN
0400	Bridge 1.5 km S.W. of Keadue	189890	310714	26	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	81	8	0	100	20	17	10	0	46	4	3
0080	63	32	0	100	37	10	19	0	26	1	7
0250	49	60	0	100	37	8	12	1	22	1	19
0400	48	89	2	98	39	8	12	0	23	3	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 : **FRANCIS****26/F/05**

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 674 798

Date(s) Surveyed: 15/8/2005, 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2002	2005
0010	-	-	-	3-4	3	3	4	3
0020	-	-	5	4-5	4-5	4-5	4	4
0050	-	-	5	4-5	4-5	4-5	4-5	4
0100	-	-	5	5	4	4-5	-	-
0200	-	-	4	4	-	-	-	-
0290	-	-	4	4	-	-	-	-
0300	4	3-4	4	4	3	4	4	3-4

Assessment: The Francis was satisfactory at Stations 0020 and 0050 but slightly polluted in Castlerea where definite signs of eutrophication were noted upstream of its confluence with the River Suck (qv). A dissolved oxygen saturation of 133% was recorded at Station 0300 on the day of the survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br SE Druminagh	166122	286033	32	RN
0020	Br ENE Ballyglass East	166039	285869	32	RN
0050	Cloonard Bridge	166798	283964	32	RN
0100	Br 1.5 km N.N.E. of Castlerea	168379	280676	32	RN
0200	Br S.E. of Castlereagh House	167653	279867	39	RN
0290	400 m u/s Suck River confl	0	0	0	
0300	Bridge u/s Suck River confl	167691	279924	39	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	87	13	0	100	43	0	23	0	7	0	27
0020	86	14	0	100	44	0	23	0	6	0	27
0050	81	24	0	100	28	0	30	0	10	0	32
0100	70	43	0	100	29	1	42	0	9	0	19
0200	66	86	0	100	48	1	27	0	6	0	18
0300	66	86	0	100	48	1	27	0	6	0	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 : **GAINE**

26/G/01

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 400 660

Date(s) Surveyed: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1988	1992	1996	1999	2002	2005
0100	3-4	3	3-4	3-4	3	3	3-4
0200	3-4	4	3-4	3-4	3*	3	3
0300	-	-	-	3-4	3-4	3	3-4

Assessment: Groundwater appears to have a major adverse effect on fauna of the Gaine River as sensitive species were not observed at any of the locations surveyed in 2005. Abundant duckweed (*Lemna minor*) indicated some considerable eutrophication in the lower reaches (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km NE of Ballynagall	244578	259286	41	MH
0200	Br in Multyfarnham	240471	264073	41	MH
0300	0.8 km u/s L Derravarragh	239965	265601	41	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	18	0	100	79	10	2	0	7	2	0
0200	62	35	0	100	72	6	1	0	15	1	4
0300	61	42	0	100	74	6	1	1	13	1	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 (WESTMEATH)**

26/G/02

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 483 722

Date(s) Surveyed: 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1984	1987	1992	1996	1999	2002	2005
0100	-	5	3-4	4	3-4	4	3-4	3-4	3
0200	4	4-5	4-5	4	4	4-5	4-5	4-5	4

Assessment: Continuing satisfactory in the lower reaches (0200) but further deterioration noted in the Stonestown Bridge area (0100) where the stream was almost totally overgrown in July 2005: forestry and agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Stonestown Br	247404	272797	41	MH
0200	Br at Rockbrook	244407	274188	41	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	78	20	0	100	84	2	0	0	5	1	8
0200	69	37	0	100	91	1	0	0	3	1	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 : **HIND**

26/H/01

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 967 606

Date(s) Surveyed: 11/10/2005, 15/8/2005

Biological Quality Ratings (Q Values)

Station Nos.	1971	1974	1980	1983	1986	1987	1989	1990	1992	1996	1999	2000	2002	2005
0300	4	3-4	3	3	2-3	2-3	2	2-3	2-3	2	2	-	2-3	3/0
0400	4	3-4	3-4	4	3-4	3	-	-	3	2-3	2	2	2-3	3
0500	4-5	3-4	4	4	3-4	3-4	-	-	3	3	2-3	2-3	3	3

Assessment: Improvement in quality is noted in comparison with the 2002 survey but the Hind River was again moderately polluted over its length when surveyed in October 2005. Signs of possible toxicity were noted at Station 0300 (Ballymartin). The Hind River is affected by the seriously polluted Jiggy River (q.v.) that flows through Roscommon Town. Investigation is required to pinpoint precise sources of pollution within the town and to differentiate the impact of the new town wastewater treatment plant versus other pollution sources in the town.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W of Ballymartin Beg	188040	261794	40	RN
0400	Br N Ballymurray	191635	261560	40	RN
0500	Clooncah Br	195745	261579	40	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	42	45	0	100	85	0	1	7	6	0	1
0400	38	63	0	100	82	4	2	5	4	0	3
0500	38	78	0	100	79	3	6	4	4	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 : **INNY****26/I/01**

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 115 554

Date(s) Surveyed: 3/8/2005, 19/7/2005, 20/7/2005, 21/7/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1973	1977	1981	1984	1987	1992	1996	1999	2002	2005
0060	-	-	-	-	-	4	3	3	3	3	3
0100	-	-	-	3-4	3-4	4	4	3-4	3-4	-	-
0200	4	4	4	4	4	3-4	3-4	3-4	3	3	3
0300	-	-	-	4	4-5	4	3-4	4	3	3	3-4
0400	-	-	-	4	4	4	-	-	-	-	-
0500	3-4	3-4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
0550	-	-	-	-	4	4	-	-	-	-	-
0600	-	-	4-5	4-5	4-5	4	3-4	3-4	-	3-4*	3-4
0650	4	4	-	5	4-5	4-5	-	-	-	-	-
0700	-	-	-	-	-	-	3	3-4	3-4	4	3-4
0750	-	-	-	-	-	-	3-4	3-4	3-4	4	3-4
0800	4	4-5	4	4	4-5	4	3-4	4	4	3-4	4
0900	-	5	4	4	5	4	4	4-5	4	4	3-4
1000	5	4	4-5	5	4-5	5	3-4	4	4	3-4	4
1080	-	-	-	-	-	5	4	-	-	-	-
1120	-	-	-	-	4-5	5	-	-	-	-	-
1150	-	-	-	-	-	5	3-4	4	3-4	3-4	3-4
1200	4	4-5	4-5	4-5	4-5	5	3-4	4	4	4	4
1300	-	-	-	4	4-5	4-5	4	-	-	-	-
1320	-	-	-	-	4-5	4-5	-	3-4	-	-	-
1350	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4	4	4
1400	-	-	-	4-5	4-5	5	4	3-4	4	4	4

Assessment: The Inny River was in a mostly unsatisfactory condition due to widespread eutrophication in July 2005 with much more marked pollution again in the reach upstream of Lough Sheelin where very heavy substratum siltation was observed at each of the three points surveyed (0060, 0200, 0300). A major fish-kill occurred in this area in August: this was attributed to a sewage treatment plant malfunction. This could account for the marked grey turbidity noted at Boolies (0060) at the time of this survey in July. Several species of mayfly and stonefly nymph which had been widespread throughout the river in the past are no longer to be found while weed and/or algal growths have become very well developed generally. This can be attributed to a variety of causes including bog development, forestry, agriculture, sewage, and dredging.

Hydrometric Area 26 (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br NW of Ballinvally	257704	279699	42	MH
0100	Tubride Br	255313	278913	42	MH
0200	Castlecort: 1st Br d/s St 0100	253085	280590	35	MH
0300	Ballinrink Br	249453	280948	34	MH
0400	Ross Br	247288	283030	34	MH
0500	Finnea Br	240186	281418	34	MH
0550	2 km d/s Lough Kinale	0	0	34	MH
0600	Camagh Br	239178	275596	41	MH
0650	Float Br	0	0	41	MH
0700	Br nr Shrubbywood	238727	270002	41	MH
0750	Inny Br d/s L Derravaragh	238967	266647	41	MH
0800	Ballinalack Br	234778	264602	41	MH
0900	Ballycorkey Br	231186	263939	41	MH
1000	Ballynacarrow Br	225822	260253	41	MH
1080	300 m u/s Abbeyshrule Br	0	0	41	LD
1120	500 m d/s Abbeyshrule Br	0	0	41	LD
1150	Clynan or New Br	221488	258628	41	LD
1200	Newcastle Br	218321	256960	41	LD
1300	Ballymahon Br	0	0	41	LD
1320	500 m d/s Ballymahon Br	215218	256464	41	LD
1350	Shrule Br	213497	255897	41	LD
1400	Red Br	211880	255083	40	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	84	46	16	84	93	3	1	2	2	0	0
0300	68	56	13	87	94	2	0	2	2	0	0
0500	69	257	43	57	82	3	2	1	4	7	1
0600	67	377	31	69	79	4	4	1	4	6	3
0700	66	438	27	73	77	3	7	1	4	5	3
0750	60	599	20	80	77	3	5	1	5	5	3
0800	60	673	17	83	75	3	8	1	5	5	4
0900	58	775	15	85	76	3	8	1	4	4	4
1000	55	866	13	87	76	3	8	1	4	4	4
1150	51	959	12	88	77	3	8	1	4	3	3
1200	48	1050	11	89	78	3	8	1	4	3	4
1320	40	1078	11	89	78	3	8	1	4	3	4
1350	40	1087	11	89	78	3	8	1	4	3	4
1400	40	1226	10	90	80	2	7	1	4	3	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 : **ISLAND**

26/I/03

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 697 723

Date(s) Surveyed: 15/8/2005, 28/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2002	2005
0040	-	-	-	-	4	4	4	4
0100	4	4	4-5	4-5	4	4	4	4
0300	4-5	4-5	4-5	4-5	4-5	4-5	4-5	-
0400	4-5	4	4-5	4	4-5	4	3-4	4

Assessment: The Island River was satisfactory at all sites surveyed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SW of Cloonlee	157520	277348	39	GY
0100	Island Bridge	159644	273025	39	GY
0300	Br SW Bookalagh	166216	272970	39	GY
0400	Castlerea Bridge - Ballymoe	169477	271718	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	89	1	0	100	99	0	0	0	1	0	0
0100	77	39	1	99	68	2	12	1	5	0	12
0300	63	132	0	100	56	1	26	0	7	0	9
0400	60	138	0	100	57	1	26	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 : **JIGGY (HIND)**

26/J/01

Tributary of : 26H01 HIND

OS Catchment No: 155

OS Grid Ref of Confluence: M 879 619

Date(s) Surveyed: 11/10/2005

Previously reported as North Branch on Hind 26H01

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1989	1990	1992	1996	1999	2002	2005
0090	1-2	2	2	1-2	1-2	1-2	2	1-2

Assessment: The Jiggy was again seriously polluted when surveyed in October 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	Br WSW Ardsallagh Beg	187566	263388	40	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	45	14	0	100	84	0	0	16	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 : **KILLADISKERT STREAM****26/K/16**

Tributary of : 26D02 DIFFAGHER

OS Catchment No: 155

OS Grid Ref of Confluence: G 931 251

Date(s) Surveyed: 16/9/2005

Formerly known as Killadiskert Branch of Diffagher - 26D020600

Biological Quality Ratings (Q Values)

Station Nos.	1989	1996	1999	2002	2005
0600	4-5	4	4	4	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	0.2km u/s Br W Killadiskert	193296	325251	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	55	4	0	100	30	2	0	0	0	0	68

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

River and Code : **KILLIAN**

26/K/01

Tributary of : 26S03 SHIVEN (SOUTH)

OS Catchment No: 156

OS Grid Ref of Confluence: M 742 490

Date(s) Surveyed: 15/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2002	2005
0050	-	-	-	-	4	4	4	4
0100	4	4	4	4-5	4	4	4-5	4-5
0200	4	3-4	4	3-4	3-4	4	4	4
0300	4-5	3-4	4	4	4	4	4	4

Assessment: The Killian was satisfactory in September 2005 with no change in comparison with the 2002 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br W of Corracullin	168895	257935	39	GY
0100	Kingstown Bridge	170049	253632	39	GY
0200	New Bridge	171501	250917	39	GY
0300	Bridge u/s Shiven (S.) River	174129	249049	47	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	75	23	0	100	48	0	40	0	1	0	12
0100	65	48	0	100	46	1	34	0	4	0	15
0200	58	62	0	100	45	2	29	0	9	0	15
0300	48	65	0	100	46	2	28	0	9	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 : **KILLUKIN**

26/K/02

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: M 940 987

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0100	3-4	3-4	3	3	3	3-4
0300	3-4	3	-	-	3	3
0500	4-5	4	4	4	-	-
0700	4	4	4	4	4-5	4-5

Assessment: The upper Killukin was relatively eutrophic in nature. An improvement in quality was noted at the lower station (0700) in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Lisdaly Lough	188706	295184	33	RN
0300	Bridge N. of Carrowreagh	190861	295531	0	
0500	Br SW Deerpark	191878	295981	33	RN
0700	Bridge E. of Killukin	192946	297753	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	78	13	0	100	77	2	5	0	2	0	13
0500	63	28	0	100	75	1	2	0	12	1	8
0700	47	31	0	100	74	1	3	0	13	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 : **KILMACTRANNY**

26/K/03

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 852 123

Date(s) Surveyed: 29/9/2005

Station Nos.	Biological Quality Ratings (Q Values)			
	1987	1992	1996	2002
0800	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	First Bridge u/s Lough Skean	184514	312240	26	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	50	6	0	100	71	0	0	0	21	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 : **KILTACLARE STREAM**

26/K/06

Tributary of : 26L03 LUNG

OS Catchment No: 155

OS Grid Ref of Confluence: M 578 923

Date(s) Surveyed: 2/8/2005, 3/8/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1992	1996	1999	2002	2005
0700	4	4-5	4-5	4	4

Assessment: Satisfactory but quite silted in places.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br u/s Lung R. confl.	157550	292077	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	78	17	36	64	39	0	23	0	5	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 : **KINARD****26/K/07**

Tributary of : 26O06 OWENUR

OS Catchment No: 155

OS Grid Ref of Confluence: M 960 895

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1992	1996	1999	2002	2005
0300	4	-	4	4	4	4
0500	4	4	3-4	3	3-4	3-4

Assessment: The upper section (0300) of the Kinard was satisfactory, although lower in quality than it should have been due to extensive amounts of cow dung on the river bed at the point sampled. The lower section was slightly polluted with abundant algal mats on the substratum indicating eutrophic conditions in this hard-water river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge S. of Ryefield	186996	290783	33	RN
0500	Carrowkeel Bridge	189387	289441	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	71	13	0	100	81	0	3	0	7	0	10
0500	48	19	0	100	87	0	2	0	5	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 : **LENAMORE STREAM**

26/L/06

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 260 621

Date(s) Surveyed: 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1992	1996	1999	2002	2005
0100	-	-	-	4	-	-
0200	5	4	4	4	4	4
0400	3-4	3	4	4	3-4	3-4

Assessment: Continuing mostly 'Fair' quality but over-enriched in the lower reaches (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carn Br (E of Askasillagh)	220149	265910	41	LD
0200	Br nr Ballyglassin	221891	265795	41	LD
0400	Br at Lenamore	224320	263413	41	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	88	6	4	96	71	5	0	0	14	0	10
0200	77	14	2	98	87	2	0	1	6	0	4
0400	68	19	1	99	91	2	0	0	4	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 : **LISDALY STREAM**

26/L/02

Tributary of : Lisdaly Lough & 26K02

OS Catchment No: 155

OS Grid Ref of Confluence: M 879 952

Date(s) Surveyed: 18/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1987	1992	1996	1999	2002	2005
0080	-	-	-	-	2-3	-	-	-
0100	-	-	3	3	-	3	-	-
0200	3	3	3	3	4	4	3-4	4

Assessment: An improvement in quality was noted in the Lisdaly at site 0200 in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br N of Ardmore	185172	297268	33	RN
0100	Bridge N.E. of Croghan House	186330	296778	33	RN
0200	Bridge u/s Lisdaly Lough	186968	295180	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	94	2	0	100	68	2	0	0	0	0	30
0100	98	0	0	100	52	48	0	0	0	0	0
0200	80	5	0	100	77	3	5	0	5	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 : **LISSAPHOBLE**

26/L/04

Tributary of : 26S01 SCRAMOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 948 792

Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1986	1987	1992	1996	1999	2002	2005
0100	-	-	4	3-4	3	3	3	3
0300	4	4	4	-	-	-	-	-
0350	-	-	-	4-5	-	-	-	-
0500	-	-	-	4	3	4	4	4

Assessment: Low oxygen saturation and pollution-tolerant fauna were noted at the upper site (0100), which may be affected by groundwater influences. The lower section of the Lissaphobble was satisfactory in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Loughannatryna	188262	273988	40	RN
0300	West Bridge at Ballinfad	0	0	0	
0350	Bridge N of Bally	0	0	0	
0500	Br NE of Lissonuffy	194334	277315	40	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	57	6	0	100	96	0	0	0	4	0	0
0500	47	48	19	81	70	0	15	1	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 : **LISSYDALY STREAM**

26/L/10

Tributary of : 26A03 ANADERRYBOY

OS Catchment No: 155

OS Grid Ref of Confluence: M 596 874

Date(s) Surveyed: 2/8/2005, 2/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1994	1996	1999	2002	2005
0100	5	-	-	-	-	-
0500	5	4-5	4	4-5	4-5	4
0800	4-5	-	4	4	4-5	4-5
0900	4-5	4	4	4	4-5	4

Assessment: The Lissydaly was in satisfactory condition overall although quality had dropped somewhat at the upper and lower sites in comparison with 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br d/s Uggoot Branch confl	0	0	0	GY
0500	Bridge N. of Sanvolaun	149827	293860	32	MO
0800	Bridge near Aghadiffin	153692	291986	32	MO
0900	Lissydaly Bridge	157446	289863	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	105	5	70	30	22	4	52	10	6	0	5
0800	84	25	60	40	32	1	54	2	2	0	9
0900	79	32	46	54	33	1	54	2	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 : **LUNG**

26/L/03

Tributary of : Lough Gara

OS Catchment No: 155

OS Grid Ref of Confluence: M 677 965

Date(s) Surveyed: 3/8/2005, 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1974	1978	1980	1982	1984	1987	1992	1994	1996	1999	2000	2002	2005
0100	-	-	4-5	5	5	5	4-5	4-5	-	4	4	-	4-5	4-5
0200	5	5	4-5	4	5	5	4	4-5	-	4	4-5	-	4-5	4
0250	-	-	-	-	-	-	4	4	-	3-4	4	-	-	-
0275	-	-	-	-	-	-	-	-	-	-	-	-	4-5	3-4
0310	-	-	-	-	-	-	4-5	-	-	-	-	-	-	-
0350	5	4-5	4	4-5	4	4	3	4	4	4	4-5	-	-	4
0400	5	4-5	3	3	4	4	3	3-4	2	2-3	3	4	4	3

Assessment: The Lung River was satisfactory in the upper reaches (0100, 0200). A definite deterioration was noted both spatially and temporally at Station 0275. A recovery was noted at Banada (0350) but quality was less than satisfactory downstream of Ballaghaderreen.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Figh Bridge	159907	289516	32	RN
0200	Crunaun Bridge	159957	292272	32	RN
0250	2 km S. of Ballaghaderreen	162733	293013	32	RN
0275	0.5 km d/s Aghalustia Br	163200	293100	0	
0310	100 m d/s Samp Station 0300	0	0	0	
0350	Bridge W. of Banada	163353	294384	32	RN
0400	Bridge u/s Lough Gara	166177	296557	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	76	96	16	84	36	2	48	1	4	3	6
0200	76	96	16	84	36	2	48	1	4	3	6
0250	72	182	14	86	42	1	36	1	7	2	10
0350	70	196	13	87	44	1	36	0	8	2	9
0400	70	0	0	100	33	0	67	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 : **MANTUA STREAM**

26/M/13

Tributary of : 26O06 OWENUR

OS Catchment No: 155

OS Grid Ref of Confluence: M 757 858

Date(s) Surveyed: 26/9/2005

Previously reported as Mantua Branch of the Owenur 26O06

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0060	4	-	-	-	2-3	-
0080	4	3	2-3	3-4	4	4

Assessment: The Mantua is a second order stream and was in satisfactory condition upstream of its confluence with the Owenur River in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br W Creeve	183410	287130	0	RN
0080	Bridge SE of Gortnacranagh	185191	286100	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	51	10	0	100	81	0	0	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.

River and Code : **MOUNTAIN (ROSCOMMON)** **26/M/03**
 Tributary of : OS Catchment No: 155
 OS Grid Ref of Confluence: M 973 857
 Date(s) Surveyed: 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1981	1984	1987	1992	1996	1999	2005
0100	4	4	4	4	3-4	3-4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	1 km u/s Kilglass Lough	196990	285298	33	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	39	217	5	95	79	1	4	0	6	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 : **MOUNTNUGENT**

26/M/02

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 474 853

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1973	1977	1981	1984	1987	1988	1992	1996	1999	2002	2005
0040	-	-	-	-	-	-	4	4-5	3-4	4	4
0100	-	-	3	2-3	3-4	-	-	-	-	-	-
0120	-	-	-	-	-	-	-	3	1/0	-	-
0200	4	3-4	4	4-5	1	4	4	3-4	3	4-5	4
0250	-	-	-	-	4	-	-	-	-	-	-
0300	-	-	3-4	4	3	-	-	-	-	-	-
0350	-	-	-	-	3	-	3-4	3-4	3-4	3-4	3-4
0400	-	-	3-4	4	3	-	-	-	-	-	-
0500	4	4	3-4	4	4	-	3-4	3-4	3-4	4	3-4

Assessment: The Mountnugent River was in a 'Fair' quality condition over most of its course in July 2004 but excessive weed growth, heavy siltation and an unbalanced fauna indicated a significant degree of water quality degradation in the lower reaches (0350, 0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br to N of Rockville	251545	291142	34	CN
0100	Upper Br in Ballyjamesduff	0	0	35	CN
0120	Br to SE of Rockville*	251600	291160	34	CN
0200	Br nr Derrylea	250605	289894	34	CN
0250	Br at Rasuddan	0	0	35	CN
0300	Br at Kildorragh	251774	288711	34	CN
0350	Br E of Kilnacrott Ho	251092	287548	34	CN
0400	Br SW of Kilnacrott Ho	0	0	34	CN
0500	Mountnugent Br	248916	285680	34	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	90	17	100	0	90	0	0	3	3	3	1
0120	90	17	100	0	90	0	0	3	3	3	1
0200	77	41	100	0	95	0	0	1	2	1	0
0350	70	59	100	0	93	0	0	1	4	1	0
0500	70	91	84	16	91	0	1	1	5	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 : MULLENMEEHAN STREAM	26/M/12
Tributary of : 26D06 DUNGOLMAN	OS Catchment No: 157
OS Grid Ref of Confluence: N 193 468	
Date(s) Surveyed: 3/8/2005	

Formerly East Branch Of Dungolman River 26D06

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1994	1996	1999	2002	2005
0060	-	4	4	4	3-4	-
0080	4-5	3-4	4	4	4	4

Assessment: Despite heavy siltation the resident biota were indicative of satisfactory water quality in this sluggish stream in August 2005. Formerly reported as the East Branch of the Dungolman River (q.v.),

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br u/s Rackavarra Branch	223000	245900	48	MH
0080	Br nr Mullenineehan	221400	246600	48	MH

River and Code : **OWENGAR (LEITRIM)**

26/O/02

Tributary of : 26D02 DIFFAGHER

OS Catchment No: 155

OS Grid Ref of Confluence: G 930 243

Date(s) Surveyed: 16/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1992	1996	1999	2002	2005
0075	-	-	-	-	-	4-5	4-5
0100	5	4-5	4-5	4	4-5	4-5	-
0200	4	4	5	4-5	3-4*	-	4

Assessment: The Owengar was of high quality at both sites sampled in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0075	Br E Camalt	189198	323309	26	
0100	Bridge at Barragh	191437	323471	26	LM
0200	Bridge at Annaghgerry	192420	323894	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	14	0	100	1	15	45	0	17	0	22
0200	51	18	0	100	0	15	37	1	27	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 : **OWENMORE (GLANGEVLIN)**

26/O/03

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: H 033 292

Date(s) Surveyed: 5/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1984	1987	1992	1996	1999	2002	2005
0100	-	-	-	5	4-5	4-5	5	4-5	4-5
0160	-	-	-	4	-	4	-	-	-
0200	5	5	5	5	-	-	4-5	-	-
0300	5	5	5	5	4-5	5	4-5	4-5	3-4

Assessment: Continuing satisfactory at Carty's Bridge (0100) but the virtual absence of acid sensitive species from the very sparse fauna (just eight taxa) plus the slime covered stones indicated some ecological upset at Station 0300: acid episodes due to upstream forestry activities are suspected. It is also worth noting the distinct smell of sulphur at this location. *Acidity.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carty's Br	208465	326985	26	CN
0160	Br NE of Moneensauran	208280	324797	26	CN
0200	Br W of Glangevlin	206249	326904	26	CN
0300	Br W of Legnagrow Lough	205424	328518	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	151	7	0	100	0	0	81	0	19	0	0
0160	159	8	0	100	0	12	88	0	0	0	0
0200	104	38	0	100	0	8	79	0	12	0	1
0300	87	47	0	100	0	9	78	0	12	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 : **OWENNAFOREESHA**

26/O/04

Tributary of : 26B09 BREEDOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 762 909

Date(s) Surveyed: 5/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2002	2005
0100	4	4	3-4	4	4	3-4	3-4	3-4
0200	-	-	-	4-5	4	4	4-5	4

Assessment: The Owennaforeesha was highly eutrophic in the upper reaches (0100) even upstream of the Bellanagare wastewater treatment plant. Quality improved somewhat in the lower section (0200) at the confluence with the Carricknabraher River (q.v.) to form the Breedoge River (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bellanagare Bridge	175048	287539	33	RN
0200	100 m u/s Breedoge confl	176214	290220	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	74	18	0	100	65	0	16	0	4	0	15
0200	69	0	0	100	0	0	17	0	0	0	83

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

River and Code : **OWENNAYLE**

26/O/05

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 975 261

Date(s) Surveyed: 4/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1981	1984	1987	1992	1996	1999	2002	2005
0050	-	-	-	5	4	4	4	4	3-4
0100	4-5	4-5	5	5	4	4-5	4-5	4	4

Assessment: Biological indicators point to occasional acidic episodes due to suspected forestry activities in the upper Owennayle (0050) river. Some sensitive species have also disappeared from the lower reaches (0100) but sufficient remain to indicate satisfactory conditions for the present.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NE of Aughrim	197501	330291	26	LM
0100	Br d/s Owennayle Br	197111	326285	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	68	24	0	100	3	5	62	0	0	0	30
0100	49	37	0	100	5	5	45	0	10	0	35

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

River and Code : **OWENUR**

26/O/06

Tributary of : Grange Lake

OS Catchment No: 155

OS Grid Ref of Confluence: M 956 860

Date(s) Surveyed: 26/9/2005, 27/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1987	1992	1996	1999	2002	2005
0100	4	4	4	4	4	3-4	3	4
0300	4	4	4	4	4	4	3-4	4
0500	4	3-4	4	3-4	3	3	4	4

Assessment: The Owenur was satisfactory over its length with an improvement in quality noted in the upper sites (0100, 0300) in comparison with 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballyoughter Br	187208	286506	33	RN
0300	Ballyslish Bridge	189321	287213	33	RN
0500	Bellanagrange Br	195473	286095	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	45	39	0	100	82	0	0	0	10	1	7
0300	44	47	0	100	84	0	0	1	9	1	6
0500	39	340	4	96	80	1	3	0	6	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 : **RATH**

26/R/01

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 187 575

Date(s) Surveyed: 22/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1984	1988	1992	1996	1999	2002	2005
0030	-	-	-	4	3	3-4	-	3-4*	3-4
0100	-	-	4-5	4	4	4	4	4	3-4
0200	-	-	4-5	4	3-4	-	-	-	-
0300	4	4	4-5	3-4	4	4	3-4	4	4

Assessment: Conditions at Washford and Moyvore (0030, 0100) indicated that the Rath River was in a highly eutrophic condition over most of its course in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Washford Br	227199	250485	41	MH
0100	Br 2 km S of Moyvore	224251	252532	41	MH
0200	Br W of Cornamucklagh	0	0	41	MH
0300	Br u/s Inny R confl	220297	256302	41	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	93	19	0	100	84	6	0	0	8	0	2
0100	69	32	0	100	87	3	0	0	9	0	1
0300	54	57	0	100	85	2	6	0	5	1	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 : **RELAGH**

26/R/05

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 125 978

Date(s) Surveyed: 6/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1987	1992	1996	1999	2002	2005
0100	4	-	-	-	-	-
0400	5	4-5	5	4-5	4-5	4-5
0700	5	-	3-4	4-5	4-5	4-5
0900	5	4	4	4	4	4

Assessment: Continuing satisfactory but lower reaches (0900) becoming over-enriched.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Cornagher	0	0	34	LM
0400	Br u/s Drumroosk Branch confl	212647	304149	34	LM
0700	Br S of Edergole	212331	301416	34	LM
0900	Br u/s Cloone R confl	212569	297935	34	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	63	3	0	100	0	0	0	0	99	0	1
0700	54	14	0	100	1	0	0	0	91	0	8
0900	46	18	0	100	2	0	0	0	91	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 : **RHINE****26/R/04**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 266 805

Date(s) Surveyed: 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1987	1988	1989	1990	1992	1996	1999	2002	2005
0200	2	2	1	2	2-3	2	2	2	2-3
0300	3	-	3	-	3	-	-	-	-
0700	4-5	-	-	-	3-4	3	3	3	4

Assessment: Following a marked improvement since 2002 the lower reaches of the Rhine River were in a satisfactory quality condition in July 2005. Further pollution abatement is required in the shallow upper reaches (0200) where large numbers of cattle have unrestricted access and cause considerable hydromorphological damage to the stream bed and banks.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br N of Cartron	232498	279390	41	LD
0300	Br WNW of Cartron	0	0	41	LD
0700	Ballymore Br	229519	280499	34	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	85	3	0	100	98	0	0	2	0	0	0
0700	63	13	0	100	96	0	0	1	4	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 : **RINN**

26/R/02

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 081 824

Date(s) Surveyed: 7/7/2005, 8/7/2005

Biological Quality Ratings (Q Values)

Station Nos.	1971	1978	1980	1984	1986	1987	1988	1990	1992	1994	1996	1999	2002	2005
0060	-	-	-	1	1	1	1	2	1-2	2-3	2-3	2-3	2-3	2-3
0100	3	2-3	3	3	2	2	3	-	3	-	2-3	2-3	2-3	2-3
0150	3-4	2-3	3-4	3	3	2-3	-	-	3	-	-	-	-	-
0200	-	-	3-4	3-4	3-4	4	-	-	-	-	3-4	3-4	3-4	4
0300	4-5	3-4	4-5	4	4-5	4-5	-	-	4	-	4-5	4	4	4
0400	-	3-4	4-5	4	4	4	-	-	3-4	-	4	-	4	4

Assessment: The Dissolved Oxygen values recorded at Stations 0060 and 0100 give some idea of the water quality at these locations: these were 29% and 41% respectively, indicating the ongoing unsatisfactory condition of the river upstream of Lough Rinn. The lower half of the river was assessed as satisfactory at each of the three locations surveyed (0200, 0300, 0400) at that time.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br 1.6 km d/s Mohill*	208850	295486	33	LM
0100	Br u/s Lough Rinn*	209296	293881	33	LM
0150	Tooman Br d/s L Rinn	0	0	33	LM
0200	Annaghveagh Br	210303	289700	33	LM
0300	Johnston's Br	209091	286462	33	LM
0400	Cloonart Br	208372	283181	33	LD

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	46	6	0	100	59	0	11	9	15	0	6
0100	40	22	0	100	65	0	24	3	4	0	3
0200	39	166	9	91	32	1	7	0	51	3	5
0300	38	280	26	74	51	1	11	0	31	2	4
0400	38	296	25	75	51	1	13	0	30	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 : **ROCKSAVAGE****26/R/07**

Tributary of : 26H01 HIND

OS Catchment No: 155

OS Grid Ref of Confluence: M 879 619

Date(s) Surveyed: 11/10/2005

Previously reported as South Branch on Hind 26H01

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1989	1992	1996	1999	2002	2005
0250	3	3	4	4	4	4	3-4

Assessment: The Rocksavage was of borderline status in October 2005. Oxygen saturation was below 60% and while groundwater may be an influence it lacked some of the more pollution-sensitive species normally found at this location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br NE Ballygalda	186907	260961	0	RN

River and Code : **SCRAMOGE**

26/S/01

Tributary of : 26M03 MOUNTAIN (ROSCOMMON)

OS Catchment No: 155

OS Grid Ref of Confluence: M 965 838

Date(s) Surveyed: 27/9/2005, 28/9/2005, 29/9/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1986	1987	1992	1996	1999	2002	2005
0050	-	-	-	4	4	4	4	4	4
0200	4-5	4	4	4	4	4	4	4-5	4
0300	3-4	4	4-5	4	3	4	4	4	4
0600	4	4	4-5	4	4	4	4	4-5	4
0700	-	-	5	4-5	3-4	3	3-4	4	3

Assessment: The Scramoge was satisfactory in the upper and middle reaches but deteriorated in the lower section upstream of Kilglass Lough reversing the improvements noted in 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge d/s Lough Conny More	187053	282626	33	RN
0200	Cloonfree Bridge	191955	280416	33	RN
0300	Cloonconny Bridge	191272	277712	40	RN
0600	Scramoge Bridge	195251	279410	40	RN
0700	Gillstown Bridge	196636	283335	33	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	54	52	0	100	85	0	0	0	9	0	6
0200	47	86	0	100	80	0	0	0	9	1	10
0300	47	136	0	100	82	0	1	0	7	1	8
0600	43	194	5	95	80	0	4	0	6	1	9
0700	39	202	5	95	80	1	4	0	6	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 : **SHAD LOUGH STREAM****26/S/13**

Tributary of : 26S01 SCRAMOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M909790

Date(s) Surveyed: 29/7/2005

Biological Quality Ratings (Q Values)

Station**2002****2005****Nos.**

0250

4

3

Assessment: A deterioration in quality of the Shad Lough Stream was noted in comparison with the previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br NNE Ballyglas	187217	276428	0	RN

River and Code : **SHANNON (Upper)**

26/S/02

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: R 580 600

Date(s) Surveyed: 4/7/2005, 4/8/2005, 5/7/2005, 6/7/2005, 7/7/2005,
12/8/2005, 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)											
	1972	1976	1982	1984	1985	1987	1990	1992	1996	1999	2002	2005
0100	-	-	-	-	5	5	-	4	4-5	4	4	4
0200	-	-	5	-	5	5	-	5	5	4-5	4-5	-
0300	-	-	5	-	5	5	-	5	4-5	4-5	5	4
0380	-	-	-	4	-	4	-	-	-	-	-	-
0500	4-5	-	-	4-5	-	5	-	4	4-5	4	4	4
1010	-	-	-	-	-	-	-	4	3-4	4	3	4
1190	4	5	-	4-5	-	-	3-4	-	-	-	-	-
1410	-	-	-	-	-	-	-	-	3-4	4	3-4*	3-4
1415	-	-	-	-	-	-	3	2-3	3	3-4	3-4	-
1510	-	-	-	-	-	-	-	3	3-4	3-4	3-4*	3-4
1590	-	-	-	-	-	-	-	2-3*	3*	-	-	-
1600	-	-	-	-	-	-	-	-	-	3*	3*	3
1705	-	-	-	-	-	-	3	-	-	-	-	-
1720	-	-	-	-	-	-	3	2-3	3	3-4	3-4	3
1730	4-5	4	-	3-4	-	-	3-4	-	-	-	-	-
1740	4-5	4	-	3-4	-	-	4	-	-	-	-	-
1800	-	5	-	4	-	-	-	-	4	4	3-4	4

Assessment: The appearance of silt-slime complexes plus considerable growths of filamentous algae (*Cladophora* sp.) at Derrylahan (0100) and the scarcity of sensitive macroinvertebrates and heavy siltation at Dowra (0300) indicated some ecological upset in the Shannon upstream of Lough Allen in July 2005. Overall quality at both locations was just about satisfactory (Q4) but significantly lower than expected for such a remote area. Land disturbance by suspected forestry is the most likely cause of the symptoms observed. Similar conditions were also recorded at Battle Bridge (0500) where abundant weed growth indicated some nutrient enrichment and again at Jamestown Weir (1010), the latter reflecting a considerable improvement below Carrick-on Shannon since 2002. The Q3-4 ratings at Stations 1410 and 1510 indicate some degree of ecological disruption due to, respectively, siltation at Roosky and marked eutrophication at Tarmonbarry. In addition to the ongoing thermal pollution at Lanesboro' (1600) where a water temperature of 26.8 degrees was recorded, luxuriant algal growths reflected some considerable eutrophication, a situation also seen at Athlone (1720). For the record the zebra mussel, *Dreissena polymorpha* was recorded in considerable numbers at the latter location. Because of the very slow marginal flow and the inhospitable sand substratum a Q value was not ascribed at Clonmacnoise (1800) but from the numbers of mollusca and Asellus recorded there some degree of eutrophication is likely.

Hydrometric Area 26 (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Shannon Br Derrylahan	204499	330498	26	CN
0200	Metal Br S of Tullynafreave	202094	328921	26	CN
0300	Dowra Br	199124	326694	26	LM
0380	Bellantra Br	0	0	26	LM
0500	Battle Br	194869	305110	33	LM
1010	Jamestown: d/s Weir(LHS)	197915	297806	33	LM
1190	0.5 km u/s Roosky Bridge	0	0	33	LM
1410	Roosky: d/s Lock (LHS)	205325	285976	33	LM
1415	Roosky: d/s Old Canal (RHS)	205288	286227	33	RN
1510	d/s Tarmonbarry Weir (LHS)	205467	276697	40	LD
1590	0.5 km u/s Lanesboro Br (LHS)	200625	269484	40	LD
1600	Ballyleague Br Lanesboro	200543	269353	40	RN
1705	Athlone: just d/s Lock (RHS)	0	0	47	RN
1720	Athlone: Burgess Park (LHS)	204105	241004	47	MH
1730	Athlone: d/s Old Canal	0	0	47	MH
1740	Athlone: Wren Island	0	0	47	MH
1800	Clonmacnoise: at Jetty	200565	230634	47	OF

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	95	4	0	100	0	0	100	0	0	0	0
0200	60	85	0	100	1	6	80	0	12	0	1
0300	51	117	0	100	3	6	69	0	18	0	4
0500	40	588	6	94	19	7	31	0	22	7	15
1010	39	1378	9	91	41	4	22	1	15	6	12
1410	38	1910	8	92	51	3	17	0	13	5	11
1415	38	1910	8	92	51	3	17	0	13	5	11
1510	39	2591	11	89	55	3	15	1	13	4	9
1590	39	2778	10	90	55	3	17	1	12	4	8
1600	39	2779	10	90	55	3	17	1	12	4	8
1720	37	4601	9	91	63	2	13	1	9	6	6
1800	32	4907	9	91	63	2	13	1	9	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 : **SHIVEN (SOUTH)**

26/S/03

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 816 483

Date(s) Surveyed: 13/9/2005, 15/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1987	1992	1996	1999	2002	2005
0040	-	-	2-3	3	3	3-4	2-3	4
0060	-	-	3	4	3	4	3-4	3
0100	4	3-4	4	4	3	3	3-4	4
0200	3-4	3-4	3-4	3	3	4*	3	3
0300	5	4	4	4	4	4	4	4
0400	4	4	4	4	4	4	4	4

Assessment: A notable improvement in quality was recorded at the uppermost sampling location on the Shiven (0040) in comparison with the 2002 survey. The second upper channel site (0060) had deteriorated, however. The middle section had improved at Tirur Bridge (0100) and was again moderately polluted at Rookhill Ford (0200). The lower section (0300, 0400) upstream of its confluence with the River Suck was once again satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br near Fiddaun	163029	253631	39	GY
0060	Br NE Gunnode	167551	252006	39	GY
0100	Tirur Bridge	169873	249151	46	GY
0200	N Eskermurry	173280	248950	47	GY
0300	Ballinamore Bridge	175924	248761	47	GY
0400	Islandcausk Bridge	178709	249360	47	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	71	15	0	100	81	4	3	0	8	0	4
0060	62	35	0	100	68	6	17	0	6	0	3
0100	53	49	0	100	60	6	23	0	7	0	4
0200	48	158	0	100	61	3	19	0	8	0	8
0300	48	241	0	100	57	3	21	0	9	0	9
0400	47	252	0	100	57	3	22	0	9	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 : **SUCK**

26/S/07

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 156

OS Grid Ref of Confluence: M 965 249

Date(s) Surveyed: 4/8/2005, 15/9/2005, 26/7/2005, 28/7/2005,
29/7/2005

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1978	1980	1983	1984	1987	1992	1996	1999	2000	2002	2005
0030	-	-	-	-	-	-	3-4	4	3-4	4	-	4-5	4
0050	-	-	-	-	-	-	4	4	4	4-5	-	4-5	4-5
0100	5	5	5	4-5	-	4	4-5	4-5	4-5	4-5	-	4-5	4-5
0200	-	-	-	-	-	-	4	4	4-5	4-5	-	4-5	4
0300	5	4	4-5	4	-	4	4	3	4	4	-	4	4
0400	-	-	4	4	-	4	4	4	3	4	-	4	4
0500	5	4-5	4	4	-	4	4-5	4-5	4	4	-	4-5	4
0540	-	-	-	-	-	-	-	-	-	-	-	4	-
0550	-	-	-	4	-	4	4	4	4	4	-	-	4
0600	5	4-5	4-5	4-5	-	4-5	4	4	4	3-4	-	4-5	4
0650	-	-	-	-	-	-	-	-	4	4	-	3-4	4
0700	-	-	4-5	5	-	4-5	4-5	4-5	4	4-5	-	4-5	4-5
0800	5	4	4-5	3-4	-	3-4	3-4	4	3-4	4	-	3-4	4
0870	-	-	-	-	-	-	-	-	3	3	-	3-4	4
0900	5	3-4	4-5	4-5	-	4	4-5	4	3-4	4	-	3	4
1000	-	5	4-5	5	-	4-5	4-5	4	4	4	-	4-5	4-5
1100	5	5	4-5	4	-	4	4	4	4	4	-	4-5	4-5
1125	-	-	-	-	4	-	4	4	4	4	-	4	4
1200	5	5	4-5	4-5	4-5	-	4-5	4-5	4	3-4	-	4	4
1300	-	-	-	4	3-4	-	3-4	3-4	3-4	4	-	4	3
1400	4	4	4	3	3-4	-	3	3	2-3	2-3	3	3-4	3
1500	4-5	3-4	4-5	3-4	3-4	-	3	3-4	3	3	-	3-4	3

Assessment: The upper Suck (0030 to 0500) From Lough O'Flynn to Ballymoe was in general quite satisfactory. A slight deterioration at Stations 0030, 0200 and 0500 was noted. Significant siltation, apparently due to new forestry plantations were noted at 0030. Quite a bit of filamentous macroalgae at 0400 and 0500 was noted. Extensive cattle access at Ballymoe Bridge may lead to water quality problems downstream of that point. Otters spraints were noted at Ballymoe. The section from Doo Lough to Athleague was satisfactory with quality improvements in comparison with 2002 at Stations 0650 and 0800. Approximately 2km downstream of the Athleague meat plant (0870) quality had improved slightly in comparison with 2002 and an improvement was noted at Rookwood Br also on 29 July 2005. Quality was satisfactory at Feevagh and Bellagill but a definite overall deterioration was noted from Ballinasloe Bridge to Correen Ford.

Hydrometric Area 26 (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Bridge u/s Lough O'Flynn	157385	280500	32	RN
0050	Bridge d/s Lough O'Flynn	159003	280375	32	RN
0100	Bridge W. of Cloonalis	165281	280859	32	RN
0200	Bridge u/s Castlerea	167305	280261	32	RN
0300	Cloondacarra Bridge	167101	278033	39	RN
0400	Br E. of Willsbrook House	169289	275583	39	RN
0500	Ballymoe Bridge	169822	271964	39	GY
0540	1 km u/s Lough Doo trib	174500	267845	0	RN
0550	500 m d/s Lough Doo trib	175319	267285	40	RN
0600	Donamon Bridge	178917	264887	40	RN
0650	Castlecoote Br	180847	262617	40	RN
0700	Castlestrange Bridge	182015	259394	40	RN
0800	Athleague Bridge	182798	257857	40	RN
0870	N of Gorteencloogh	181174	258964	40	RN
0900	Rookwood Bridge	180959	257609	40	RN
1000	Mount Talbot Bridge	181202	252992	40	RN
1100	Ballyforan Bridge	181567	246442	47	RN
1125	Derrycahill Br	182560	242540	47	GY
1200	Bellagill Bridge	184205	234700	47	RN
1300	Ballinasloe Bridge	185755	231114	47	GY
1400	3 km d/s B'nasloe (Pollboy)	187337	229152	47	RN
1500	Correen Ford	190051	225729	47	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	79	6	0	100	44	0	35	0	21	0	0
0050	78	17	0	100	40	3	36	2	9	10	1
0100	72	55	0	100	32	2	54	1	8	3	1
0200	70	58	0	100	33	3	52	1	8	3	1
0300	64	162	0	100	44	2	35	1	6	1	11
0400	61	185	0	100	47	2	33	1	7	1	11
0500	58	362	0	100	53	1	28	1	7	0	9
0550	55	419	0	100	56	1	26	0	7	0	9
0600	53	438	0	100	57	1	26	0	7	0	9
0650	52	584	0	100	63	1	21	0	7	0	8
0700	51	596	0	100	63	1	21	0	7	0	8
0800	50	627	0	100	64	1	20	0	7	0	7
0870	47	629	0	100	64	1	20	0	7	0	7
0900	47	640	0	100	64	1	20	0	7	0	8
1000	46	683	0	100	64	1	19	0	7	0	8
1100	44	1008	0	100	62	2	20	0	7	0	9
1125	42	1071	0	100	63	2	20	0	7	0	8
1200	40	1207	0	100	62	1	21	0	6	0	8
1300	38	1428	0	100	64	2	19	0	7	0	8
1400	38	1437	0	100	64	2	19	1	7	0	8
1500	38	1460	0	100	64	2	19	1	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 : **TERMON STREAM**

26/T/03

Tributary of : 26F05 FRANCIS

OS Catchment No: 156

OS Grid Ref of Confluence: M 695 795

Date(s) Surveyed: 15/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1994	1996	1999	2002	2005
0300	4	4	2-3	4-5	4	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W Ardass	170299	280385	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	71	34	0	100	60	1	16	0	2	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 : **YELLOW (BALLINAGLERA)**

26/Y/01

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 983 210

Date(s) Surveyed: 5/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1986	1987	1992	1996	1999	2002	2005
0100	4	4	4	5	4	4-5	4
0200	4	4	4	4-5	4	4-5	4

Assessment: The Yellow River is subject to severe scouring by flash floods and, because of the very low buffering capacity of the water, there is a possibility of acid impacts from upstream forestry. These factors could account for the relatively impoverished fauna, particularly in the lower reaches (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Aughrim	202895	322302	26	LM
0200	Br u/s Lough Allen	199102	322001	26	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	149	13	0	100	0	1	74	0	9	0	16
0200	54	36	0	100	6	8	54	0	18	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 : **YELLOW (CASTLEPOLLARD)**

26/Y/02

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 425 688

Date(s) Surveyed: 21/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1984	1987	1992	1996	1999	2002	2005
0060	-	-	-	-	4-5	3-4*	3-4
0100	4	4	4	4	4	4	3-4
0200	3-4	4	-	-	-	-	-
0250	-	4	3-4	3-4	-	3	3-4

Assessment: Very heavy bottom siltation depressed biological diversity at Ballyknock Bridge (0060) and again at Station 0100 and the lower reaches, although somewhat improved since 2002, were obviously over-enriched. Agriculture and sewage suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Ballyknock Br	250498	265008	41	MH
0100	Br N of Milltown	246394	266808	41	MH
0200	Third Br u/s L Derravarragh	0	0	41	MH
0250	Kiltoom Br (2nd Br u/s lake)	243696	269136	41	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	80	15	0	100	88	3	1	1	7	0	0
0100	67	24	0	100	91	4	1	0	5	0	0
0250	64	46	0	100	82	5	0	2	8	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 27 (Shannon Estuary North)	
BALLYNACALLY	27B04
# BROADFORD	27B02
CARROWNANELLY	27C07
CLOON (CLARE)	27C02
CLOONEEN (CLARE)	27C03
CLOVERHILL STREAM	27C10
CRAGGAUNBOY	27C04
CRATLOE	27C08
CROMPAUN (EAST)	27C09
CROMPAUN (WEST)	27C05
DOONAH	27D01
DRUMINSHIN	27D02
FERGUS	27F01
GOURNA	27G02
KILCARROL STREAM *	27K06
KILMORE NORTH STREAM	27K04
MOYARTA	27M01
O'CALLAGHANSMILLS	27O03
OWENOGARNEY	27O01
SHALLEE	27S01
SPANSELHILL	27S03
TARMON LOUGH STREAM *	27T02
WOOD	27W01

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

* KILCARROL STREAM Previously reported as part of the Wood 27W01

* TARMON LOUGH STREAM Previously reported as part of the Crompaun (West) 27C05

River and Code : **BALLYNACALLY****27/B/04**

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 295 638

Date(s) Surveyed: 5/10/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1988	1997	2000	2001	2005
0200	4	4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Upstream Br Ballynacally	127808	163437	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	22	8	0	100	97	0	2	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 : **BROADFORD**

27/B/02

Tributary of : Doon Lough

OS Catchment No: 155

OS Grid Ref of Confluence: R 554 736

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1996	1998	2001	2005
0300	5	5	4-5	5	4-5	4-5
0500	4	5	2-3	3	1-2	2
0600	4-5	4	4	4	3-4	4-5
0700	4-5	5	-	-	-	-
0800	5	4	4	4	4	4-5

Assessment: Overall satisfactory apart from Scott's Bridge (0500) where serious pollution was noted once again. The intensity of this impact appears to have lessened somewhat since 2001 in that a recovery was noted at Station 0600 some 2 km downstream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Just u/s South Branch confl	161045	172072	58	CE
0500	Scott's Bridge	161019	172083	58	CE
0600	Near Graffa Bridge	159231	171945	58	CE
0700	Bridge in Broadford	157335	172805	0	CE
0800	Bridge u/s Doon Lough	155663	173446	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	40	9	100	0	70	6	15	2	4	0	4
0500	40	14	100	0	60	4	28	1	4	0	2
0600	38	22	100	0	65	2	20	1	8	0	3
0800	22	35	100	0	67	3	16	0	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 : **CARROWANELLY**

27/C/07

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 357 717

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0300	-	-	-	3	3-4	3-4
0400	4	2-3	3	4	3	4

Assessment: The Carrownanelly was slightly polluted in the upper reaches (0300). Unrestricted cattle access to the stream with extensive amounts of cow dung noted in the stream at this point. An improvement was noted in the lower section (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SE of Kilbreckanbeg Ho	137805	176051	58	CE
0400	Carnelly Br. L	136792	173261	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	5	8	0	100	62	7	0	0	21	0	10
0400	1	16	0	100	66	3	0	0	13	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 : **CLOON (CLARE)**

27/C/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 142 552

Date(s) Surveyed: 5/10/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1986	1988	1991	1997	2000	2001	2005
0100	-	-	4	4-5	4	4	4
0200	4	4	3	4-5	4	3-4	4
0400	4	4	4	4	4-5	4	4
0800	-	4	-	-	-	-	-
0900	-	4	-	-	-	-	-

Assessment: The Cloon River was in satisfactory condition overall with a definite improvement in the middle section (0200) in comparison with 2001.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	SE of Boloughra	119879	163060	57	CE
0200	Croany Bridge	116770	160548	57	CE
0400	New Bridge	116394	156560	64	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	61	4	0	100	67	0	28	0	0	0	6
0200	38	19	0	100	55	2	23	0	2	0	19
0400	11	49	0	100	59	1	20	0	12	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 : **CLOONEEN (CLARE)**

27/C/03

Tributary of : (Goes underground)

OS Catchment No: 158

OS Grid Ref of Confluence: R 233 918

Date(s) Surveyed: 5/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0200	3-4	3	3	3	3	3-4
0300	4	4	4	4	4	3-4

Assessment: The Clooneen River was slightly polluted at both sites sampled in September 2005. Significant eutrophication was apparent at the lower site in particular (0300).

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 : **CLOVERHILL STREAM**

27/C/10

Tributary of : 27O01 OWENOGARNEY

OS Catchment No: 155

OS Grid Ref of Confluence: R 456 610

Date(s) Surveyed: 4/10/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1988	1991	1998	2001	2005
0200	3-4	3	-	-	-
0400	3	-	-	-	-
0600	3-4	2-3	3	3	3

Assessment: The Cloverhill was moderately polluted in October 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br near Streamstown House	149945	166770	0	CE
0400	Br N.W. of Springfield House	145270	164150	0	CE
0600	Br NE Cloverhill	145182	163502	58	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	7	69	0	100	72	3	2	1	6	6	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 : **CRAGGAUNBOY**

27/C/04

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 265 883

Date(s) Surveyed: 5/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0200	3-4	4	-	4	4	3-4
0300	-	-	4	-	-	-
0400	4	4-5	-	-	-	-
0600	4	4	3-4	4	3	3-4

Assessment: Both sites surveyed on the Craggaunboy were slightly polluted.

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 : **CRATLOE****27/C/08**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 517 585

Date(s) Surveyed: 4/10/2005

Biological Quality Ratings (Q Values)

Station Nos.	1988	1991	1998	2001	2005
0100	4-5	5	-	-	-
0300	4-5	3-4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N.E. of Cratloe Wood	0	0	0	CE
0300	Second Bridge u/s Shannon R	151773	159661	65	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	7	7	75	25	45	8	24	0	1	0	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 : **CROMPAUN (EAST)**

27/C/09

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 524 584

Date(s) Surveyed: 4/10/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1988	1991	1998	2001	2005
0300	4-5	-	4-5	4	4-5
0400	-	5	-	-	-
0500	5	-	-	-	-
0600	4-5	4-5	4-5	3-4	4
0800	3	-	-	-	-

Assessment: Both sites surveyed were satisfactory with an improvement in water quality noted in the lower section (0600) in comparison with 2001.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Cappateemore Bridge	155103	161893	58	CE
0400	Br W of Knockalisheen	155246	160967	0	CE
0500	Bridge S.W. of Knockalisheen	154654	160522	0	CE
0600	Meelick Bridge	154178	159468	65	CE
0800	Bridge W. of Meelick Bridge	153740	159610	0	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	49	5	95	5	65	0	7	0	0	0	28
0600	2	14	48	52	77	0	6	2	6	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 : **CROMPAUN (WEST)**

27/C/05

Tributary of : 27C02 CLOON (CLARE)

OS Catchment No: 155

OS Grid Ref of Confluence: R 122 550

Date(s) Surveyed: 5/10/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	2000	2001	2005
0500	4	3	-	-	-	-
0700	4	4	-	-	-	-
0900	-	4	-	3	3	3
1000	-	-	3-4	3	3	4
1100	4	3-4	-	-	-	-
1200	-	-	3	4	4	4
1300	3-4	3-4	-	-	-	-

Assessment: The upper site (0900) on the Crompaun (West) was moderately polluted. The mid and lower sections were of good status. An improvement in quality was recorded at the middle site (1000) in comparison with the 2001 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br N.N.W. of Knocknahooan	0	0	0	CE
0700	Br u/s confl with Main River	0	0	0	CE
0900	Br NE Tullycreen Upper	110147	160457	57	CE
1000	Tullycreen Br	111311	158789	64	CE
1100	Bridge d/s Tullycreen Br	111040	158005	64	CE
1200	Carrownisha Br	110594	156709	64	CE
1300	Aughanloge Bridge	110949	155969	64	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0900	33	2	0	100	0	0	13	0	86	0	0
1000	21	9	0	100	37	0	14	0	49	0	0
1200	11	22	0	100	55	0	6	0	38	0	2
1300	8	37	0	100	50	0	7	0	35	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 : **DOONAHA**

27/D/01

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 893 533

Date(s) Surveyed: 6/10/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1985	1988	1991	1997	2000	2001	2005
0010	-	3	3	2	2-3	2	2-3	3
0050	3-4	2-3	3	1	3	3	3	3
0100	4	2	3	1	3	3	3/0	3

Assessment: The Doonaha was again moderately polluted over its course when sampled in October 2005. Some improvement was noted at the upper site where improved control of cattle was apparent at the sample point.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge N. of Furroor	87447	156874	63	CE
0050	Br 0.5 km d/s Br S.E. of Furroor	88548	155415	63	CE
0100	Bridge N.E. of Doonaha	89130	153901	63	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	46	1	0	100	74	0	4	0	21	0	0
0050	20	8	0	100	73	0	1	1	26	0	0
0100	6	15	0	100	73	0	11	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 : **DRUMINSHIN**
 Tributary of : Ballycullinan Lough
 OS Grid Ref of Confluence: R 284 857
 Date(s) Surveyed: 6/9/2005

27/D/02

OS Catchment No: 158

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0500	3	4	4	3-4	4	4

Assessment: The Druminshin was satisfactory when sampled in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Bridge u/s Ballycullinan L	128006	184802	57	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	28	5	0	100	47	19	0	0	19	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 : **FERGUS****27/F/01**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 363 700

Date(s) Surveyed: 5/9/2005, 5/10/2005, 6/9/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1975	1979	1982	1985	1988	1991	1996	1998	2001	2005
0100	-	-	4	4-5	4-5	4	4	3-4	4	3-4	3-4
0200	5	5	4	4	4	4	4	4	4	4	4
0300	-	-	3-4	4	4	4	4	3-4	4-5	4	4
0350	-	-	-	4	4	4	4	-	4	3	3
0400	-	-	-	4	4	4	4	4	4	4	4
0500	5	5	4	4	4	4	4	4	4	4	4
0560	-	-	-	-	-	4	3	-	-	-	-
0590	-	-	-	-	-	-	3	3	2-3	3	3
0600	4	4-5	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

Assessment: The upper site on the Fergus River (0100) showing signs of eutrophication and organic pollution. Satisfactory conditions were apparent at Stations 0200 and 0300 but a drop in quality was again noted at 0350, a site that is prone to drying out due to the karst nature of the catchment. The main channel at 0400 and 0500 was satisfactory but the distributary at Corravarrin Bridge in Ennis was moderately polluted. Good status was observed at Drehidnagower but there were signs of eutrophication at Clonroad Bridge which was again exhibiting signs of eutrophication (slight pollution) in September 2005.

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

Hydrometric Area 27 (2005)

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 : **GOURNA**

27/G/02

Tributary of : 27O01 OWENOGARNEY

OS Catchment No: 155

OS Grid Ref of Confluence: R 481 645

Date(s) Surveyed: 4/10/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1988	1991	1998	2001	2005
0100	4-5	5	4-5	4	5
0400	5	4-5	-	-	-
0600	-	5	5	4	4-5

Assessment: The Gourná was of high quality at both sites surveyed in October 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Coolycasey Br	151255	166447	58	CE
0400	Bridge N.W. of Ballyroe	0	0	0	CE
0600	Br u/s Owenogarney R confl	148097	164129	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	87	5	100	0	36	16	19	0	9	0	20
0600	8	15	84	16	49	5	9	0	16	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 : **KILCARROL STREAM**

27/K/06

Tributary of : 27W01 WOOD

OS Catchment No: 158

OS Grid Ref of Confluence:

Date(s) Surveyed: 5/10/2005

Previously reported as part of the Wood 27W01

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	2000	2001	2005
0020	3	2-3	-	-	-	-
0025	-	-	2	2-3	3	3
0030	3	1-2	-	-	-	-

Assessment: This tributary of the Wood River (q.v.) was moderately polluted where sampled in October 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Bridge S. of Carrowfree	0	0	0	CE
0025	Br NE Kilcarroll	103020	155552	64	CE
0030	Bridge N.W. of Kilcarroll	0	0	0	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	23	4	0	100	77	0	17	0	5	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 : **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: 5/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0200	4	4	-	-	-	-
0400	3	3	4	4	4	4

Assessment: The Kilmore North Stream was satisfactory in September 2005.

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 : **MOYARTA**
 Tributary of : Sea - Shannon Estuary
 OS Grid Ref of Confluence: Q 844 517
 Date(s) Surveyed: 6/10/2005

27/M/01

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	2000	2001	2005
0100	1-2	1	2-3	2-3	2-3	3
0150	1-2	2	2-3	2-3	2-3	3

Assessment: The Moyarta had improved somewhat in comparison with the most recent previous survey. Some restrictions on cattle access had been put in place at the upper site (0100).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Kileenagh	81933	152015	63	CE
0150	Br NW Cloonconeen	83000	151744	63	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	14	9	0	100	94	0	0	0	4	0	3
0150	7	12	0	100	95	0	0	0	3	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 : **O'CALLAGHANSMILLS**

27/O/03

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: R 540 741

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0100	4	4	-	-	-	-
0300	4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Lough Bridget	0	0	0	CE
0300	Bridge d/s Doon Lough	154190	175794	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	25	33	13	87	79	0	8	1	7	4	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 : **OWENOGARNEY**

27/O/01

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 453 609

Date(s) Surveyed: 3/10/2005, 4/10/2005, 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1986	1988	1991	1997	1998	2001	2005
0100	-	5	5	-	5	5	5
0200	-	5	5	5	-	-	-
0300	-	5	5	5	4	4	4-5
0400	-	4	4	4	4	4	4
0500	-	4	4-5	-	-	-	-
0600	4	4	4	-	-	-	-
0700	-	4	4	4	4	4	4-5
0800	-	-	4	-	-	-	-
0900	3-4	4	-	4	4	3	3-4
1000	-	3-4	3-4	4	-	-	-
1100	4	4	4	-	4	4	4

Assessment: The upper Owenogarney (0100, 0300) was of high status. Zebra mussels were noted at Station 0400 indicating their presence in Doon Lough upstream. Quality declined at Station 0900 where musty smelling organic mats were noted on the substratum - these have been found below discharges from waterworks and can seriously impact ecological quality of the receiving waters. The lower Owenogarney site downstream of Sixmile Bridge (1100) was in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Ballymacdonnell Br	159600	177936	58	CE
0200	Ballymacdonnell Bridge	157764	177756	58	CE
0300	Bridge u/s Doon Lough	155626	175773	58	CE
0400	Woodfield Bridge	153064	173159	58	CE
0500	Ahaclare Bridge	152465	172190	0	CE
0600	Agouleen Bridge	150820	171250	58	CE
0700	Pollagh Bridge	150042	170246	58	CE
0800	Ballymulcashel Br	148065	168575	0	CE
0900	Annagore Bridge	147683	167618	58	CE
1000	Sixmilebridge	147831	165892	58	CE
1100	Oil Mill Bridge	147943	164404	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	120	12	100	0	0	48	28	0	0	0	24
0200	55	14	100	0	4	42	34	0	0	0	21
0300	23	30	85	15	26	27	28	0	5	0	14
0400	26	127	57	43	61	8	15	0	6	3	7
0700	19	144	57	43	62	8	13	0	6	3	9
0900	15	155	55	45	62	8	12	0	6	3	9
1000	9	158	54	46	62	7	12	1	6	3	9
1100	5	178	56	44	61	7	12	1	7	2	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 : **SHALLEE**

27/S/01

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 338 815

Date(s) Surveyed: 6/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1985	1988	1991	1997	1998	2001	2005
0090	-	-	1-2	-	-	-	-	-
0100	3	3	1-2	3-4	4	4	4	4
0200	4	3-4	2-3	3	-	-	-	-
0300	4	5	3-4	3-4	4	4	4	4
0500	-	-	4	3-4	4	3-4	4	4

Assessment: Satisfactory, no change.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	250 m u/s Sampling Stat 0100	126767	179651	0	CE
0100	Bridge N. of Ballyknock	127004	179618	57	CE
0200	Moarhaun Bridge	129500	180200	0	CE
0300	Br N Erinagh	131025	181485	57	CE
0500	Ballymaguiggan Br	132606	180465	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	59	5	0	100	81	0	0	0	10	0	9
0300	13	21	0	100	74	9	0	0	9	0	8
0500	8	38	0	100	74	11	0	2	8	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 : **SPANCELHILL**

27/S/03

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 350 771

Date(s) Surveyed: 7/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1988	1991	1997	1998	2001	2005
0200	4	4	4	5	4-5	4
0400	3-4	3-4	4	4	4	4

Assessment: The Spancelhill River was in good condition overall when surveyed in September 2005.

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.

River and Code : **TARMON LOUGH STREAM**

27/T/02

Tributary of : 27C05 CROMPAUN (WEST)

OS Catchment No: 158

OS Grid Ref of Confluence:

Date(s) Surveyed: 5/10/2005

Previously reported as part of the Crompaun (West) 27C05

Biological Quality Ratings (Q Values)

Station Nos.	1988	1991	1997	2000	2001	2005
0200	3-4	3-4	-	-	-	-
0300	-	-	4	3-4	3-4	4
0400	3	3	-	-	-	-

Assessment: An improvement in the water quality of the Tarmon Lough Stream was noted in the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge d/s Tarmon Lough	0	0	0	CE
0300	Breaghva Br	108653	156262	64	CE
0400	Just u/s Crompaun R confl	0	0	0	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	16	9	0	100	57	0	12	0	18	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 : **WOOD****27/W/01**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 991 546

Date(s) Surveyed: 5/10/2005, 6/10/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1975	1979	1980	1985	1988	1991	1997	2000	2001	2005
0080	-	-	-	-	-	3	3	3	3	3	4
0100	4	4	4-5	3	3-4	3	3	3	3	3	3
0200	1	1	4	3-4	3	3-4	3	3	4	3-4	4

Assessment: An overall improvement in quality was noted in upper (0080) and lower (0200) sections of the Wood River in comparison with 2001. The middle section (0100) remained moderately polluted, however.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br E. of Ballykett Fair Grn	102054	155879	64	CE
0100	Bridge 1.5 km u/s Kilrush	101233	155298	64	CE
0200	Kilrush: 100 m u/s West Br	99358	154859	63	CE

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	21	6	0	100	68	0	0	0	32	0	0
0100	13	16	0	100	64	4	9	3	21	0	0
0200	1	19	0	100	59	8	7	7	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.

HYDROMETRIC AREA 32 (Errif – Clew Bay-Partial Survey)

Partial Survey only, Balance of Survey 2006.

ALTACONEY	32A02
BUNNAHOWNA	32B02
CRUMPAUN	32C03
GLAISHWY	32G12
GLENISLAND	32G07
GLENNAMONG	32G03
GOULAUN	32G06
NEWPORT (MAYO)	32N01
OWENGARVE (MAYO)	32O02
SKERDAGH	32S01
SRAHMORE	32S02

River and Code : **ALTACONEY**
 Tributary of : 32S02 SRAHMORE
 OS Grid Ref of Confluence: F 967 043
 Date(s) Surveyed: 12/9/2005

32/A/02

OS Catchment No: 107

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0300	5	5	5	4-5	4-5	4-5	4-5	4-5

Assessment: The Altaconey has a relatively sparse fauna. Some algae and residual organic mats were noted but less than in the Goulán (q.v.) tributary upstream. The catchment land cover is predominantly coniferous forest and upland bog.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	1.5 km d/s Goulaun River	96892	306150	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	46	23	94	6	0	25	60	0	1	2	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 : **BUNNAHOWNA****32/B/02**

Tributary of : Sea - Clew Bay

OS Catchment No: i5

OS Grid Ref of Confluence: L 855 962

Date(s) Surveyed: 19/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	5	4-5	4-5	4-5	3-4	4

Assessment: The Bunnahowna showed a significant improvement in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunnahowna Bridge	85656	296511	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	23	9	66	34	0	0	100	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 : **CRUMPAUN**
 Tributary of : Beltra Lough
 OS Grid Ref of Confluence: M 082 998
 Date(s) Surveyed: 1/9/2005

32/C/03

OS Catchment No: 108

Station Nos.	Biological Quality Ratings (Q Values)							
	1982	1986	1990	1994	1997	1999	2002	2005
0150	5	5	5	4	4-5	4	4	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	N. of Lough Beltra	109004	301432	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	30	58	70	30	0	12	62	0	16	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 : **GLAISHWY**

32/G/12

Tributary of : Lough Beltra

OS Catchment No: 108

OS Grid Ref of Confluence: M 050 960

Date(s) Surveyed: 4/7/2005, 20/12/2005

Biological Quality Ratings (Q Values)

Station Nos.	2000	2001	2002	2003	2004	2005
0100	3	3	3-4	3-4	4	3-4

Assessment: The Glaishwy was in satisfactory condition in July 2005. Quality dropped to slightly polluted in December 2005 apparently due to the impact of bankside works in late June 2005 that caused the release of silt.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glaishwy Bridge	105015	296043	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	31	5	83	17	0	11	41	0	0	0	49

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

River and Code : **GLENISLAND**
 Tributary of : Beltra Lough
 OS Grid Ref of Confluence: M 072 972
 Date(s) Surveyed: 12/9/2005

32/G/07

OS Catchment No: 108

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0300	5	4	4-5	4-5	4-5	4

Assessment: Satisfactory but some pollution sensitive invertebrate species normally found in the Glenisland River at the sample site were missing in early September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Lough Beltra	107304	296716	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	20	14	100	0	0	31	47	0	15	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 : **GLENNAMONG****32/G/03**

Tributary of : Lough Feeagh

OS Catchment No: 107

OS Grid Ref of Confluence: F 957 018

Date(s) Surveyed: 12/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4-5	3-4	4	3-4	4	4

Assessment: The Glennamong improved slightly on 2002 with the return of the mayfly genus *Ecdyonurus* to the river. This genus was last recorded in 1997.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Feeagh	94735	302444	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	24	14	100	0	0	32	63	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 : **GOULAUN**

32/G/06

Tributary of : 32S02 SRAHMORE

OS Catchment No: 107

OS Grid Ref of Confluence: F 967 070

Date(s) Surveyed: 12/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0090	-	-	-	-	-	-	-	3
0100	5	4-5	5	4	4	4	3/0	3-4

Assessment: The Goulan River was still suffering from the impact of the pollution event recorded in the 2002 report on the Goulan River. The long-term consequences for water quality in catchments subjected to poor drainage and land use practices were still clearly evident three years after the initial decline in 2002. The new station 0090 was added to demonstrate the impact on the stream emanating from Bunaveela Lough and the Fiddaunveela river catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	Second Br d/s Bunaveela Lough	98590	307978	23	MO
0100	1.4 km d/s Bunaveela Lough	98226	307834	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	96	8	94	6	0	5	70	0	4	6	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 : **NEWPORT (MAYO)****32/N/01**

Tributary of : Sea - Newport Bay

OS Catchment No: 108

OS Grid Ref of Confluence: L 977 941

Date(s) Surveyed: 1/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0050	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0190	4-5	5	4-5	4-5	4-5	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	4.5 km u/s Newport Br	101220	295342	31	MO
0190	400 m u/s Newport Bridge	98815	293847	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	11	141	63	37	0	12	55	0	17	3	13
0190	2	147	61	39	0	11	55	0	17	3	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 : **OWENGARVE (MAYO)**

32/O/02

Tributary of : Sea - Clew Bay

OS Catchment No: i5

OS Grid Ref of Confluence: L 882 961

Date(s) Surveyed: 1/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1982	1990	1994	1997	1999	2002	2005
0100	5	4-5	3	4	4	3-4	3-4
0200	4-5	4-5	4	4	3-4	4	3-4

Assessment: Both sites surveyed were slightly polluted in early September 2005. Siltation due to overgrazing and forestry activities, are the likely pressures causing the loss of sensitive macroinvertebrates.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NNE Carheenbrack Lough	91166	297901	30	MO
0200	Rosgalliv Br.	88653	296317	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	48	12	90	10	0	16	73	0	0	0	10
0200	7	29	67	32	0	7	82	0	2	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 : **SKERDAGH** **32/S/01**
 Tributary of : 32N01 NEWPORT (MAYO) OS Catchment No: 108
 OS Grid Ref of Confluence: M 034 965
 Date(s) Surveyed: 1/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2001	2005
0300	5	4	4-5	4-5	4-5	4

Assessment: Satisfactory although a decline was noted in comparison with the 2001 and most earlier surveys.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Knockmoyle Bridge	102692	297588	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	30	20	74	26	0	17	51	0	7	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 : **SRAHMORE**
 Tributary of : Lough Feeagh
 OS Grid Ref of Confluence: F 965 022
 Date(s) Surveyed: 12/9/2005

32/S/02

OS Catchment No: 107

Station Nos.	Biological Quality Ratings (Q Values)			
	1990	1994	1997	2005
0100	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Feeagh	96311	302860	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	2	45	95	5	0	29	51	0	1	1	17

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 33 (Blacksod – Broadhaven)	
ALTNABROCKY	33A02
BALLINGLEN	33B01
BARROOSKY	33B08
BELDERG	33B02
BELLAGARVAUN	33B04
BELLANABOY	33B07
BUNANIOO	33B09
CARTRON	33C02
CLOONALAGHAN	33C01
CLOONEEN (MAYO)	33C03
DOOEGA	33D01
DOOLOUGH STREAM	33D02
GLENAMOY	33G01
GLENCASTLE	33G08
GLENCULLIN (NORTH MAYO)	33G02
GLENCULLIN (WEST MAYO)	33G03
GLENGLASSERA	33G05
GLENTURK LODGE STREAM	33G07
GORTMORE STREAM (MAYO)	33G04
GWEEDANEY	33G06
KEERGLEN	33K01
MUING	33M01
MUINGNABO	33M02
MUINGNAKEE	33M04
MUNHIN	33M03
OWENDUFF (BLACKSOD)	33O01
OWENMORE (MAYO)	33O04
SHESKIN STREAM	33S03
SRAHDUGGAN STREAM *	33S05
TARSAGHAUNMORE	33T01

* SRAHDUGGAN STREAM Formerly S Branch of Owenduff

River and Code : **ALTNABROCKY****33/A/02**

Tributary of : 33O04 OWENMORE (MAYO)

OS Catchment No: 105

OS Grid Ref of Confluence: F 980 198

Date(s) Surveyed: 22/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	5	4-5	4-5	4-5	4-5	4

Assessment: A slight decline in quality was noted in the Altnabrocky in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenmore River confl	96895	319813	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	74	33	34	66	0	15	34	0	0	0	52

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

River and Code : **BALLINGLEN**
 Tributary of :
 OS Grid Ref of Confluence: G 103 393
 Date(s) Surveyed: 22/8/2005, 23/8/2005

33/B/01

OS Catchment No: 102

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0100	5	5	5	-	4-5	4-5	4-5	4-5
0110	-	-	-	5	-	-	-	-
0150	-	5	4-5	-	-	4-5	-	-
0200	4	4	4	4-5	4	-	5	4
0210	-	-	-	-	-	-	3	-

Assessment: The upper Ballinglen was of high quality in September 2005. The lower section (0200) had improved in comparison with the 2002 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinglen Bridge	110246	334211	23	MO
0110	Bridge d/s Ballinglen Bridge	110255	334675	23	MO
0150	Ballyglass Br	110073	337938	23	MO
0200	New Bridge	110178	338332	23	MO
0210	New Bridge (RHS)	0	0	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	29	33	0	100	19	11	57	0	4	0	9
0150	10	42	0	100	24	9	56	0	4	0	7
0200	7	42	0	100	25	8	55	0	4	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 : **BARROOSKY**
Tributary of : 33G01 GLENAMOY
OS Grid Ref of Confluence: F 929 333
Date(s) Surveyed: 24/8/2005

33/B/08

OS Catchment No: 100

Biological Quality Ratings (Q Values)

Station Nos.	2002	2005
0400	4-5	4-5

Assessment: Remaining satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	0.3km u/s Glenamoy (end of road)	93087	333218	23	MO

River and Code : **BELDERG****33/B/02**

Tributary of : Sea - Belderg Harbour

OS Catchment No: 99

OS Grid Ref of Confluence: F 993 414

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4-5	4	4	4	3-4	4
0300	4	-	-	-	-	-

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge in Belderg	99124	339459	23	MO
0300	W. of Raheen (at T-junction)	98992	340546	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	14	15	100	0	8	6	71	0	0	3	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 : **BELLAGARVAUN****33/B/04**

Tributary of : Sea - E.S.E. of Inishbiggle

OS Catchment No: i5

OS Grid Ref of Confluence: F 824 044

Date(s) Surveyed: 19/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0300	3-4	3-4	3-4	3	3	3

Assessment: The Bellagarvaun was in an unsatisfactory condition when surveyed in September 2005. The system was adversely affected by siltation and lacked sufficient sensitive mayflies and stoneflies in particular.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br EWN Bellaveeny	82977	304678	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	3	24	99	1	0	32	58	0	8	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 : **BELLANABOY**

33/B/07

Tributary of : Carrowmore Lake

OS Catchment No: 105

OS Grid Ref of Confluence: F 849 304

Date(s) Surveyed: 24/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4-5	-	-	-	-	-
0200	4-5	4	4	4-5	4	4

Assessment: Satisfactory. No significant change in comparison with the 2002 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bellanaboy Bridge	85725	332185	23	MO
0200	Bridge u/s Carrowmore Lake	85742	331675	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	10	20	97	3	5	7	57	0	7	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 : **BUNANIOO**
 Tributary of : Sea - Achill Sound
 OS Grid Ref of Confluence: L 735 947
 Date(s) Surveyed: 29/8/2005

33/B/09

OS Catchment No: i5

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0100	5	4	4-5	4	4	3-4

Assessment: The Bunanioo had declined in quality compared with the 2003 survey results. The immediate catchment and the slopes of Corraun Hill from which the Bunanioo flows along the shores of Achill sound were still quite badly overgrazed in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunanioo Bridge	73722	294193	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	33	4	85	15	0	0	100	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 : **CARTRON****33/C/02**

Tributary of : Sea - Bellacragher Bay

OS Catchment No: 15

OS Grid Ref of Confluence: F 800 015

Date(s) Surveyed: 29/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1982	1986	1990	1994	1997	1999	2002	2005
0100	4-5	4-5	4	4	3-4	3	3	3-4

Assessment: Unsatisfactory in August 2005 with a low number of invertebrates, extensive algal growth and lack of sensitive species.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Lough Gall	80000	300184	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	15	10	96	4	0	39	49	0	0	2	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 : **CLOONALAGHAN**

33/C/01

Tributary of : Sea - Lacken Bay

OS Catchment No: 103

OS Grid Ref of Confluence: G 189 366

Date(s) Surveyed: 22/9/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1990	1994	1997	1999	2002	2005
0300	-	4-5	4	5	4-5	4	4
0700	4	2-3	3	4	2-3	4	4

Assessment: In September 2005 the Cloonalaghan River was again unpolluted maintaining the improvement noted in the lower section of the river seen in 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge S.E. of Billoos X-Rds	114732	333565	23	MO
0700	Bridge S.E. of Carrowmore	117059	334260	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	57	4	0	100	19	16	59	0	1	0	4
0700	11	13	0	100	60	6	19	0	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 : **CLOONEEN (MAYO)**

33/C/03

Tributary of : Sea - Moyrahan Bay

OS Catchment No: k5

OS Grid Ref of Confluence: F 706 355

Date(s) Surveyed: 25/8/2005, 29/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0025	-	-	-	-	-	3
0050	3/0	3/0	3	3	3	3B

Assessment: The Clooneen is situated in an extensive area of worked bog with some pasture. A new site was added in the upper part of the catchment (0025). No pollution-sensitive macroinvertebrates were found in this highly silted site and only six taxa were recorded there. There is a possibility of some salt intrusion at the lower site on occasions albeit still with a much wider range of freshwater species than were found at the upper site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br S Clooneen (N Branch)	68890	336588	22	MO
0050	W of Bartrauve (nr road fork)	70294	335940	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	3	13	100	0	25	0	63	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 : **DOOEGA****33/D/01**

Tributary of : Sea - Pollbaun Point

OS Catchment No: i5

OS Grid Ref of Confluence: L 671 987

Date(s) Surveyed: 29/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0200	4	3-4	4	4	4	4

Assessment: Remaining satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	South Bridge at Dooega	66984	299109	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	7	10	100	0	3	0	86	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 : **DOOLOUGH STREAM****33/D/02**

Tributary of : Sea - Blacksod Bay

OS Catchment No: k5

OS Grid Ref of Confluence: F 745 246

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2003	2005
0100	3-4	3	3	3-4	3-4	3-4

Assessment: Slight pollution was again recorded in the Doolough Stream. This river drains a mixture of worked bog and forest plantations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S. of Lough Nahelly	74973	324758	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	6	15	100	0	2	0	83	0	3	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 : **GLENAMOY**
 Tributary of : Sea - Sruwaddacon Bay
 OS Grid Ref of Confluence: F 870 360
 Date(s) Surveyed: 24/8/2005, 25/8/2005

33/G/01

OS Catchment No: 100

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0020	-	-	-	-	-	-	4-5	4
0050	4-5	4-5	4-5	3-4*	4-5	4-5	4	4-5
0100	5	4-5	4-5	3-4*	4-5	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br N Glencarly	96418	334745	23	
0050	Bridge S.E. of Bunalty	92013	333569	23	MO
0100	Glenamoy Bridge	89357	333799	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	13	51	85	15	11	12	59	0	1	0	17
0100	5	81	90	10	10	10	62	0	2	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 : **GLENCASTLE**

33/G/08

Tributary of : Sea - Trawmore Bay

OS Catchment No: k5

OS Grid Ref of Confluence: F 750 290

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	-	4-5	3-4	4	3-4	3
0300	4-5	-	-	-	-	-
0500	4	3	4	4	4	4

Assessment: The upper Glencastle (0200) had declined in quality since 2002 when last surveyed. Quality was satisfactory at the lower site (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Glencastle Br.	78259	326970	22	MO
0300	Glencastle Bridge	77317	327650	22	MO
0500	Bridge S. of Bunnahowen	75404	328466	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	53	5	98	2	0	0	93	0	0	0	7
0500	6	10	99	1	24	0	68	4	1	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 : **GLENCULLIN (NORTH MAYO)**

33/G/02

Tributary of : Sea - Bunatrahir Bay

OS Catchment No: 101

OS Grid Ref of Confluence: G 095 398

Date(s) Surveyed: 23/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0100	5	5	4-5	4-5	4-5	4-5	3-4	4
0200	5	5	5	4-5	4-5	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE Sralagagh East	108440	337579	23	MO
0200	Killerduff Bridge	109339	339262	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	49	15	0	100	2	32	38	0	0	0	28
0200	8	18	0	100	13	26	36	0	2	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 : **GLENCULLIN (WEST MAYO)**

33/G/03

Tributary of : Carrowmore Lake

OS Catchment No: 105

OS Grid Ref of Confluence: F 844 284

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0025	-	-	-	-	-	3-4
0100	-	-	-	-	4	4
0200	4-5	5	5	4-5	-	-

Assessment: The upper Glencullin River (0025) exhibited clear signs of eutrophication with quite extensive algal growth, abundant snails and a surprising lack of pollution-sensitive taxa relative to expected for this upland tributary of Carrowmore Lake. Quality was somewhat better at the lower site upstream of Carrowmore Lake but it was still not as good as would be expected for the type of river and its particular setting. Carrowmore Lake has suffered a number of years of intensive cyanobacterial blooms in recent years and has excessive phosphorus input from the surrounding catchment. The fertilisation of forestry plantations in the catchment is in part at least responsible for the eutrophic state of the lake. Compare with Muingnakee (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	SSW Glencullin Upper	90746	325830	23	MO
0100	Br u/s Carrowmore Lake	86331	327397	23	MO
0200	1 km u/s Carrowmore Lake	85152	328041	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	8	20	32	68	12	2	66	0	0	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 : **GLENGLOSSERA**

33/G/05

Tributary of : Sea - Glenloss Point

OS Catchment No: m5

OS Grid Ref of Confluence: G 024 416

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4	4-5	4-5	4-5	4-5	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br near Glenlossera Lodge	102266	341155	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	20	10	63	37	0	6	84	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 : **GLENTURK LODGE STREAM**

33/G/07

Tributary of : Carrowmore Lake

OS Catchment No: 105

OS Grid Ref of Confluence: F 855 293

Date(s) Surveyed: 24/8/2005

Biological Quality Ratings (Q Values)

Station

1990

2005

Nos.

0100

4

4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Carrowmore Lake	86942	328476	0	MO

River and Code : **GORTMORE STREAM (MAYO)****33/G/04**

Tributary of : Sea - Bunatrahir Bay

OS Catchment No: n5

OS Grid Ref of Confluence: G 108 400

Date(s) Surveyed: 22/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0500	5	-	-	-	-	-
0800	4	4	3-4	4	4	4

Assessment: The Gortmore maintained its satisfactory condition in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Bridge W of Crott	112342	337800	23	MO
0800	Bridge W. of Gortmore	111008	339455	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	6	16	0	100	53	1	30	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 : **GWEEDANEY****33/G/06**

Tributary of : Sea - Broad Haven

OS Catchment No: 15

OS Grid Ref of Confluence: F 850 391

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4	3	3-4	4	3	3
0200	4	-	-	-	-	-

Assessment: The Gweedaney remained moderately polluted with ongoing evidence of bank erosion due to historically high levels of overgrazing in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Curraunboy	85339	340568	23	MO
0200	Br SE of Curraunboy	84973	339413	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	15	4	100	0	0	0	100	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 : KEERGLLEN	33/K/01
Tributary of : 33B01 BALLINGLEN	OS Catchment No: 102
OS Grid Ref of Confluence: G 105 338	
Date(s) Surveyed: 22/9/2005	

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	5	5	4-5	5	5	5

Assessment: The Keerglen was again in a highly satisfactory condition when surveyed in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	SW of Kilkeerglen	109269	333221	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	59	14	0	100	4	16	72	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.

River and Code : **MUING**

33/M/01

Tributary of : 33O04 OWENMORE (MAYO)

OS Catchment No: 105

OS Grid Ref of Confluence: F 971 199

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4	3-4	3-4	3-4	3-4	3-4

Assessment: The Muing River was slightly polluted when surveyed in August 2005. The river is still impacted by peat siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenmore River	97063	319984	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	72	19	0	100	0	12	65	0	0	3	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 : **MUINGNABO**

33/M/02

Tributary of :

OS Catchment No: 98

OS Grid Ref of Confluence: F 870 358

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4-5	-	-	-	-	-
0140	-	-	-	-	3-4	-
0150	-	4	3-4	4	-	4B

Assessment: Satisfactory. The lower Muingnabo is subject to occasional salt intrusion which affects some of the freshwater macroinvertebrate species.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	2km u/s Annie Bradys Br	88760	338488	23	MO
0140	0.6km u/s Annie Brady's Bridge	88167	337613	23	MO
0150	0.3 km u/s Annie Brady Bridge	87839	337375	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	2	36	100	0	5	5	70	0	1	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 : **MUINGNAKEE**

33/M/04

Tributary of : GLENCULLIN (WEST MAYO)

OS Catchment No:

OS Grid Ref of Confluence: F 86700 27

Date(s) Surveyed: 24/8/2005

Biological Quality Ratings (Q Values)

Station

2005

Nos.

0100

4-5

Assessment: Satisfactory. This river is a tributary of the Glencullin (West Mayo) 33G03. Forestry nutrient runoff appears to have impacted the main Glencullin channel. This tributary was added to the survey in 2005 in order to provide a control sample. There is also some forestry in the upper part of this catchment but a large section of it drains an SAC (part of the Carrowmore Lake SAC). This river was of substantially higher quality than the upper Glencullin.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Glencullin R confl	86855	326865	23	MO

River and Code : **MUNHIN****33/M/03**

Tributary of : 33O04 OWENMORE (MAYO)

OS Catchment No: 105

OS Grid Ref of Confluence: F 818 228

Date(s) Surveyed: 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0100	4-5	4	4	-	-	-	-	-
0200	4	4-5	4-5	4	4	4	3-4	3-4

Assessment: The Munhin River is the main outflow river from Carrowmore Lake. Quality has declined in 2002 and remained so in 2005. Serious algal blooms in Carrowmore Lake had been noted in the summer months over a number of years due to excessive phosphorus inputs and possible recycling of phosphorus from the lake sediments. In addition significant commercial peat harvesting in the immediate area downstream of Carrowmore Lake has resulted in heavy siltation of the Munhin.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Munhin Bridge	83774	325327	22	MO
0200	Bridge u/s Owenmore River	82161	323265	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	9	88	75	25	6	7	56	0	5	11	14
0200	3	105	79	21	7	6	60	0	5	10	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 : **OWENDUFF (BLACKSOD)**

33/O/01

Tributary of : Sea - Tullaghan Bay

OS Catchment No: 106

OS Grid Ref of Confluence: F 794 150

Date(s) Surveyed: 31/8/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1990	1994	1997	1999	2002	2005
0010	-	5	4	4	4	4	4-5	4-5
0020	-	5	4-5	4-5	4	4-5	4	4
0030	-	5	4-5	4	4	4	4	4
0050	4-5	5	4-5	-	-	-	-	-
0100	4	5	4	4	4	4-5	4	4

Assessment: The Owenduff was in satisfactory condition overall when surveyed in late August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	N. of Srahduggan	86674	307298	23	MO
0020	Near Sheean Lodge	84119	309685	23	MO
0030	Ford u/s Tarsaghanmore River	83253	314271	22	MO
0050	1.5 km u/s Srahnamanragh Br	80629	315147	22	MO
0100	Srahnamanragh Bridge	80085	314675	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	48	34	100	0	0	0	91	0	1	0	8
0020	36	57	100	0	0	1	90	0	2	1	7
0030	21	77	100	0	0	1	91	0	2	1	5
0050	6	119	100	0	1	0	89	0	2	0	7
0100	1	127	99	1	1	0	88	0	4	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 : **OWENMORE (MAYO)**

33/O/04

Tributary of : Sea - Tullaghan Bay

OS Catchment No: 105

OS Grid Ref of Confluence: F 803 208

Date(s) Surveyed: 22/8/2005, 23/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1981	1986	1990	1994	1997	1999	2002	2005
0050	-	-	4-5	5	4-5	4	4-5	4	4
0090	5	-	-	4-5	-	-	-	-	-
0100	4	-	4-5	5	-	-	-	-	-
0250	-	-	4-5	4	-	-	-	-	4
0270	-	-	-	4	4	4-5	4-5	4-5	4-5
0280	-	-	-	4-5	-	-	-	-	-
0300	-	4-5	4	4	4-5	4-5	4-5	4-5	4
0301	-	-	-	3	2-3	4	-	-	-
0400	-	-	-	5	-	-	4-5	4	4-5
0450	-	-	-	4	-	-	-	-	-
0500	-	-	-	4	4	4-5	4	4-5	4-5

Assessment: The Owenmore (Mayo) was in good condition over its length when surveyed in 2005. There are nonetheless still signs of siltation and filamentous algal growth in places following a long dry spell indicates the need to control nutrient losses to water in the catchment (in the case of forestry and peat harvesting activities as well as sewage treatment plants).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SE Srahnakilly	97833	323161	23	MO
0090	0.3 km u/s Bellacorick Bridge	97400	320300	23	MO
0100	Bellacorick Bridge	96684	320090	23	MO
0250	Ballymonnelly Br	93854	321273	23	MO
0270	SW of Largan	90910	322380	23	MO
0280	2.3 km u/s Br at Bangor Erris	87980	322275	23	MO
0300	Br at Bangor Erris (Main fl)	86265	322880	23	MO
0301	Bridge at Bangor Erris (RHS)	86232	322861	23	MO
0400	At Srahmore 3 km u/s Munhin	83226	323361	22	MO
0450	100 m d/s Munhin River confl	81574	322818	22	MO
0500	700 m d/s Munhin River confl	81414	322552	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	80	68	10	90	2	20	61	0	0	0	17
0100	71	159	11	89	1	18	53	0	0	0	28
0270	54	196	11	89	1	15	56	0	1	0	26
0300	24	214	14	86	2	14	58	0	1	0	25
0301	24	214	14	86	2	14	58	0	1	0	25
0400	10	222	17	83	3	13	58	0	1	0	24
0500	1	330	36	64	4	11	59	0	2	3	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 : **SHESKIN STREAM****33/S/03**

Tributary of : 33O04 OWENMORE (MAYO)

OS Catchment No: 105

OS Grid Ref of Confluence: F 979 232

Date(s) Surveyed: 22/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0150	5	4-5	4-5	4-5	4	4

Assessment: No change in comparison with 2002. The Bellacorick power station was being decommissioned in August 2005 and peat harvesting for the power station had ceased. Some peat silt was still noticeable on the substratum of the Sheskin and it is expected that it will take some time to recover to a status that is closer to its true ecological potential.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Bridge 1 km u/s Oweniny R	97532	324008	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	83	32	0	100	0	25	39	0	0	0	36

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

River and Code : **SRAHDUGGAN STREAM** **33/S/05**
 Tributary of : 33O01 OWENDUFF (BLACKSOD) OS Catchment No: 33
 OS Grid Ref of Confluence: F 866 073
 Date(s) Surveyed: 31/8/2005

Formerly S Branch of Owenduff

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	1999	2002	2005
0005	3-4	4	4	4	4

Assessment: This is an acidic river dominated by stoneflies. It drains through the important Owenduff/Nephin SAC. Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Ford u/s confl with Owenduff R	86680	307110	23	MO

River and Code : **TARSAGHAUNMORE**
 Tributary of : 33O01 OWENDUFF (BLACKSOD)
 OS Grid Ref of Confluence: F 832 144
 Date(s) Surveyed: 31/8/2005

33/T/01

OS Catchment No: 106

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4	4	4	4-5	4-5	4

Assessment: The Tarsaghaunmore River does not appear to be achieving its full potential with quite extensive algal growth noted in August 2005. There are a small number of significant forestry plantations on this deep-peat, acid geology catchment, which may be giving rise to nutrient losses responsible for the extensive algal growth observed. Sheep droppings were also very noticeable at the site surveyed and a potential source of nutrient loss too. In view of the importance of the Tarsaghaunmore in the Owenduff SAC and the designation of the area as a new national park, a more detailed investigation of pressures in the catchment is recommended.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenduff River	83222	314369	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	21	38	99	1	0	0	87	0	2	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.

HYDROMETRIC AREA 34 (Moy & Killala Bay)	
ADDERGOOLE	34A01
BAR DEELA	34B02
BEHY (NORTH MAYO)	34B08
BREAGHWY	34B06
CARROWKERIBLY LOUGH STREAM	34C07
CASTLEBAR	34C01
CLOONAGHMORE	34C03
CLOONLAVIS	34C10
CORROY	34C06
DEEL (CROSSMOLINA)	34D01
DUVOWEN	34D03
FIDDAUNATOOGHAUN STREAM *	34F06
GLENREE	34G01
GLORE (MAYO)	34G02
GWEESTION	34G03
LITTLE (STRADE)	34L02
LOUGH MUCK STREAM	34L05
LOUGHNAMINOO STREAM	34L04
MANULLA	34M01
MEANDER	34M05
MOY	34M02
POLLAGH	34P01
SHANVOLAHAN	34S01
SLIEVECLAUR	34S06
SONNAGH (MOY)	34S02
SPADDAGH	34S03
SWINFORD	34S05
TRIMOGE	34T01
YELLOW (KNOCK)	34Y02

* 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: 11/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1999	2001	2005
0100	-	4	-	-	3-4	4
0300	4	-	2-3	4	-	-
0500	4-5	-	-	-	-	-
0600	-	4	4	4-5	4	4

Assessment: The upper Addergoole site just downstream of Levally Lake (0100) was notable for the amount of phytoplankton in the water flowing from the lake. An improvement was noted in comparison with 2001 with more species and less tolerant Asellus present. Crayfish (protected species) were present and a large eel (1m+) was noted here. The lower site (0600) was still somewhat silted but slightly improved in comparison with 2001.

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: 4/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1999	2001	2005
0200	4	4	3	4	4	4

Assessment: The macroinvertebrate fauna was relatively satisfactory but the Bar Deela River suffers from a significant siltation problem. The catchment is largely comprised of blanket bog which has been extensively planted with conifers. The extensive siltation is likely to have an adverse impact on the salmonid spawning potential of this Deel River tributary.

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: 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1995	1998	2002	2004	2005
0300	5	3*	5	5	4-5	4-5	-
0400	5	4	4-5	3-4/0	4-5	-	4-5

Assessment: Satisfactory quality. However, cattle in the river with direct access from both sides of the river at Station 0400 pose a threat to the water quality of the Behy River.

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 : **BREAGHWY**
 Tributary of : 34C03 CLOONAGHMORE
 OS Grid Ref of Confluence: G 161 278
 Date(s) Surveyed: 11/7/2005

34/B/06

OS Catchment No: 104

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1999	2001	2005
0200	4	4-5	3-4	3	4	4
0600	4-5	4	3	4	4	4

Assessment: Extensive cattle access and cow dung on the substratum was noted at Station 0200. Extensive cattle access was also noted at Station 0600. The macroinvertebrate fauna suggested reasonable conditions but potential fish kills are likely in low water conditions due to the deoxygenating potential of the cow dung in this relatively small river. Quality was not as good as it should be in view of the obvious impacts on the system.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Belladooan 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 : **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: 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1998	2001	2005
0300	-	-	4-5	4-5	4-5	4
0400	4-5	4-5	4-5	4-5	4-5	4-5
0600	4	3-4	4	4	4-5	4

Assessment: The Carrowkeribly was in satisfactory condition over its length. A reduction in Q-Value was, however, noted at the upper and lowermost stations.

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 : **CASTLEBAR**

34/C/01

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: M 234 963

Date(s) Surveyed: 19/8/2005, 20/12/2005, 26/8/2005

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1979	1980	1981	1983	1984	1986	1989	1993	1995	1998	2001	2005
0010	-	-	-	-	-	4-5	-	4	-	-	4	3-4	4	-	-	-
0020	-	-	-	-	-	4-5	-	5	-	-	4-5	4	5	4-5	4-5	4-5
0030	-	-	-	-	-	4-5	-	5	-	-	4	4-5	4	4	4	4
0040	-	-	-	-	-	4-5	-	-	-	-	4-5	4	-	-	-	-
0100	4-5	4-5	4-5	4-5	4	4	-	4	4	-	4	4	3-4	3-4	4	-
0180	-	-	-	-	-	-	-	-	-	-	3	3	-	-	-	-
0200	1	1-2	1	1	1	1	2-3	3	3	3	3	3	3	3	2-3	2-3
0300	3	3	1-2	2-3	2-3	2	3	3	3	-	3	3	3	3	3	3-4
0400	4	4	3-4	3	3	3	3-4	3-4	3-4	3-4	3-4	3-4	3	4	4	3-4
0500	4-5	-	-	-	-	4	-	4-5	-	-	4	4	3-4	4-5	4	4-5

Assessment: The Castlebar River was satisfactory in its upper reaches (0020, 0030). A significant deterioration in quality was again apparent downstream of the town (0200) which is believed to be due to the impact of the town's storm overflows. A new discharge point (upstream of Station 0400) for the main town sewage treatment works came into action in late 2004 replacing the previous discharge point at the waste water treatments works itself located approximately 1km upstream of Station 0200. No significant change in quality was noted at Station 0200 indicating that the high quality effluent actually discharged from the works is not the primary source of pollution on the river at this point. The deterioration noted at Station 0200 in recent years indicates a short zone of relatively intense organic matter breakdown due to Castlebar Town storm overflows. Work is currently underway to reroute all the major storm overflows in the town of Castlebar. Quality improves to Q3-4, slight pollution, at Turlough (0300) upstream of the new discharge point and retains this status at 0400 near Ballyvary which is approximately 1.7 k downstream of the new discharge point for Castlebar's town waste water treatment works. The treatment works has had a tertiary phosphorus removal stage in operation for some years now and this has eliminated an annual discharge of approximately 10 tonnes of phosphorus to the Castlebar River and Lough Cullin. The filamentous algal growth that previously blanketed the bottom of Lough Cullin has disappeared as a result of the phosphorus removal. Quality at Fisherhill (0500) over 8km further downstream was satisfactory (Q4-5) with a large population of the mayfly nymphs (*Ephemera danica*) noted. It is hoped that the planned cessation of storm overflows in Castlebar will go a long way to improving the overall quality of the Castlebar River especially in the immediate zone downstream of the town and certainly it seems possible to bring it up to good status as required under the Water Framework Directive. Quality has improved immensely in comparison with the situation recorded in the river in the 1970s and early 1980s in particular.

Hydrometric Area 34 (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br N.E. of L Sallagher	111206	293596	31	MO
0020	Br near Graffa More	110930	291732	31	MO
0030	Br u/s Islandeady L	110058	289354	31	MO
0040	500 m d/s Islandeady L	110500	288700	0	MO
0100	d/s First Br in Castlebar	114297	290396	31	MO
0180	D/s Fourth Br in Castlebar	114965	290625	31	MO
0200	Br 2.5 km d/s Castlebar	117000	292007	31	MO
0300	Br N. of Turlough Park	120893	293710	31	MO
0400	Br 1 km W. of Ballyvary	123357	294532	31	MO
0500	Bridge at Fisherhill	122868	300091	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	102	2	100	0	0	18	62	0	0	0	20
0020	70	5	100	0	0	8	68	0	16	0	9
0030	32	18	79	21	0	7	34	0	39	2	18
0100	29	83	41	59	1	2	30	3	39	3	20
0200	25	90	39	61	1	2	29	6	40	3	19
0300	15	96	37	63	3	2	27	6	42	3	18
0400	10	282	13	87	23	1	15	3	45	1	11
0500	9	354	27	73	20	2	23	2	39	1	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 : **CLOONAGHMORE**

34/C/03

Tributary of :

OS Catchment No: 104

OS Grid Ref of Confluence: G 174 314

Date(s) Surveyed: 7/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1981	1986	1989	1993	1995	1999	2001	2005
0030	-	-	-	-	-	4-5	4-5	4-5	4-5
0060	-	-	-	5	-	-	-	-	-
0100	-	5	5	4-5	4	4	4-5	4	4-5
0150	-	5	4	5	4-5	4	4-5	4	4-5
0200	4-5	4-5	3-4	4	4	4	4-5	4-5	4
0270	-	-	-	-	-	4-5	4	4-5	4
0280	-	-	-	4	-	-	-	-	-
0300	4	4	4-5	-	4	-	-	-	-
0310	1	4	4	4	-	-	-	-	-

Assessment: The upper reaches of the Cloonaghmore were in quite good condition (0030, 0100, 0150). The lower two sites examined (0200, 0270), while still satisfactory, had deteriorated slightly in comparison with the upper stretches and in comparison with the results from the 2001 survey.

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: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1995	1998	2001	2005
0100	4	3	4	4	3-4
0300	4	4	4	4	4-5

Assessment: The upper Cloonlavis was quite eutrophic in nature with a lack of sensitive insect species - albeit with a good population of crayfish which is a protected species. Water quality improved in the lower section with good quality noted at the downstream station surveyed (0300).

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 : CORROY	34/C/06
Tributary of : 34M02 MOY	OS Catchment No: 110
OS Grid Ref of Confluence: G 248 139	
Date(s) Surveyed: 20/7/2005	

		Biological Quality Ratings (Q Values)
Station Nos.	2001	2005
0300	3-4	3

Assessment: The Corroy was moderately polluted when surveyed in July 2005. A significant fly-tipping problem was also noted in the river with bags of rubbish being thrown off the bridge upstream of the River Moy confluence. This rubbish is being washed into the main Moy River channel.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	20m u/s Moy R confl	124810	313934	0	

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: 4/7/2005, 6/7/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1973	1977	1980	1984	1989	1993	1995	1998	2001	2005
0006	-	-	-	-	-	5	4-5	4-5	4	4	4
0010	-	-	-	5	5	4-5	4-5	4	4	4	4
0025	-	-	-	4-5	4-5	4-5	4	4	3-4	4	4
0050	-	-	-	-	5	-	-	-	-	-	-
0100	5	-	-	5	5	4-5	4-5	4	4-5	5	4-5
0120	-	-	-	-	-	-	-	-	-	-	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
0400	-	-	-	-	4	4-5	4-5	4	4-5	4-5	4-5

Assessment: The Deel River is in satisfactory condition over its length. The relative lack of sensitive species in the upper reaches is disappointing. Forestry plantations are apparently impacting the upper site in particular where siltation and greater than expected algal cover are noted especially at the fast flowing first site at Keenagh (0006). Upstream of Crossmolina (0100) quality improved but substantial quantities of cattle dung were noted in the river, apparently washed off a low concrete makeshift bridge at the ford that is used as a passageway for cattle over the river at Ballycarroon. Significant siltation was noted at the river margins in this location also - apparently arising from forestry and peat works further back up the catchment (see also comments on the Shanvolahan River regarding siltation). Since the river was last sampled in 2001 the new Crossmolina Sewage treatment works had come into operation. This is located upstream of Knockadangan Bridge (0300) and downstream of station 0250. A new sample point was added just downstream of Crossmolina Bridge (0120) in order to provide a control for two sites located in and downstream of the town of Crossmolina (0200, 0250). Water quality was satisfactory at all of these sites. Station 0250 was formerly used to assess the impact of the sewage discharge from the old treatment works but is now upstream of the new works. At station 0250 it was noted that a farm upstream of the sampling point has what appears to be a regular passage of cattle from one side of the river to the other - between two fields, one on either side of the river. Significant cow dung deposits were noted on the riverbed at this point. It is obvious that such practices can have a significant impact on water quality during low flow conditions and will lead to unnecessary nutrient inputs to Lough Conn. The new wastewater treatment plant has phosphorus removal and this has led to a reduction of approximately one tonne of phosphorus per annum reaching Lough Conn from this source. The lower two sites downstream of the WWTP discharge were both of satisfactory quality. It should be noted that while the biological quality of the river is now quite good overall, the lower catchment downstream of Crossmolina has been shown to discharge very significant quantities of agricultural phosphorus into Lough Conn especially during the autumn and winter months. During cold weather this may not encourage growth in the river channel but the storage of large quantities of phosphorus in the lake's sediments from where it can be recycled into the lake water during windy weather, for example, has the potential to cause a serious eutrophication problem in the lake. The prolonged periods of winter algal accumulations noted in the mid to late 1980s due to excess phosphorus inputs are believed to have interfered with the survival of arctic charr spawning in the shallow gravels at certain spots

around the lake margin and are at least partially implicated in the loss of arctic charr from the lake and the subsequent change in trout and other fish populations. Studies have also shown occasional high concentration spikes of phosphorus emanating from upstream of the town again most likely of an agricultural origin. It is essential for the long-term health of the lake that phosphorus inputs from the upper and lower catchment especially are kept under control. The funding provided for the installation of a new waste water treatment plant at Crossmolina with a phosphorus removal stage to eliminate a small proportion of the overall phosphorus inputs to the lake demonstrates the importance of reducing phosphorus loading in order to protect the lake's future. The Deel River is the main tributary of Lough Conn and it is essential that phosphorus losses to this river and its tributaries be minimised in order to protect the lake.

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****34/D/03**

Tributary of : 34C03 CLOONAGHMORE

OS Catchment No: 104

OS Grid Ref of Confluence: G 144 261

Date(s) Surveyed: 7/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1999	2001	2005
0100	-	4-5	-	-	-	-
0300	-	-	-	-	-	4
0400	-	-	4	4	4	-
0500	4-5	4	-	-	-	-
0800	4-5	4-5	4	4	4	4-5

Assessment: The Duvowen was in satisfactory condition in July 2005.

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 : **FIDDAUNATOOGHAUN STREAM** **34/F/06**
 Tributary of : 34S01 SHANVOLAHAN OS Catchment No: 110
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 4/7/2005

Previously reported as part of the Shanvolahan 34S01

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1998	2001	2005
0100	3	4	4	4	4	4

Assessment: This Shanvolahan River tributary (q.v.) was unpolluted in July 2005.

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**

34/G/01

Tributary of : Sea - Moy Estuary

OS Catchment No: 110

OS Grid Ref of Confluence: G 255 195

Date(s) Surveyed: 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1981	1986	1989	1993	1995	1998	2001	2004	2005
0020	-	-	-	-	5	4-5	5	4-5	4-5	-
0050	-	-	5	5	5	5	-	5	5	-
0053	-	-	-	-	-	-	4-5	-	-	-
0060	-	-	-	-	5	4-5	5	4-5	4-5	-
0100	5	5	5	5	4-5	-	-	-	-	-
0200	4	4-5	4	4	4-5	4-5	4	4-5	-	4-5

Assessment: The Glenree had a high level of macroinvertebrate diversity where sampled at Bunree Bridge in July 2005. The upper section of the Glenree was surveyed in 2004.

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: 12/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1980	1984	1989	1993	1995	1998	2001	2005
0005	-	-	-	4	4	-	-	-	-
0010	-	4	3-4	3-4	3-4	3	-	3	3
0050	-	4	4-5	4	4-5	4	4-5	3-4	3-4
0100	-	4	4-5	4	4-5	-	-	-	-
0110	-	-	-	-	-	-	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

Assessment: The upper Glore River was moderately and slightly polluted respectively at Stations 0010 and 0050. The middle (0110) and lower (0200) reaches of this hard water limestone river were in satisfactory condition.

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: 13/7/2005

34/G/03
 OS Catchment No: 110

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1980	1984	1989	1993	1995	1998	2001	2005
0050	-	4	4	4	4	-	-	-	-
0080	-	-	-	-	-	3-4	4	4	4
0100	-	5	4-5	4	3-4	-	-	-	-
0200	5	5	4	5	4-5	4	4	4	4

Assessment: Satisfactory. The lower site is, however, of significantly poorer quality than it was in the 1980s and early 1990s with the loss of sensitive stonefly species particularly noticeable.

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 : **LITTLE (STRADE)**

34/L/02

Tributary of : 34S04 STRADE

OS Catchment No: 110

OS Grid Ref of Confluence: M 258 957

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1998	2001	2005
0300	-	-	4-5	4-5	4-5	4-5
0390	4	-	-	-	-	-
0400	3	4	-	-	-	-
0500	4	4-5	4-5	4-5	4-5	4

Assessment: This tributary of the Strade River (q.v.) was satisfactory in July 2005.

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 : **LOUGH MUCK STREAM**

34/L/05

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: M 284 995

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1999	2002	2005
0400	-	4-5	-	-	-	-
0600	3-4	4	4	3-4	4	3-4

Assessment: Quality was reduced in this Moy River tributary with significant turbidity, moderate to heavy siltation by a red-coloured deposit together with significant algal growth indicating eutrophic conditions as well as a physical problem. There are no obvious point sources in the catchment of this stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge S of Toomore	0	0	0	MO
0600	Bridge u/s Moy River confl	128672	299739	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	12	10	54	46	20	3	48	0	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 : **LOUGHNAMINOO STREAM****34/L/04**

Tributary of : Needham's Lake

OS Catchment No: 110

OS Grid Ref of Confluence: M 260 866

Date(s) Surveyed: 26/7/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1980	1984	1986	1989	1990	1991	1993	1995	1998	2001	2005
0100	5	4-5	4	4	-	-	4	3-4	4	4	4-5
0200	-	1	3	1-2	2-3	2-3	3-4	1	3-4	2	3-4
0300	3-4	3	3	2-3	-	-	3-4	-	-	-	-
0400	-	-	-	3-4	-	-	4	3-4	-	-	-
0500	-	-	-	-	-	-	-	-	-	-	4

Assessment: An improvement was noted downstream of the Balla wastewater treatment plant in 2005 (0200). A new site was added (0500) just upstream of its confluence with the Manulla River (q.v.) - quality was satisfactory at this point.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Balla: Br on Castlebar Road	125374	284813	31	MO
0200	Br S of Round Tower	125295	284265	31	MO
0300	NNE of Tully	124560	284060	31	MO
0400	Railway Bridge at Smuttanagh	123876	285095	31	MO
0500	Br SE Smuttanagh	123730	284764	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	35	18	0	100	20	0	12	1	58	1	7
0200	34	26	0	100	33	0	8	1	52	1	5
0400	32	34	0	100	37	0	6	1	49	1	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 : **MANULLA****34/M/01**

Tributary of : 34C01 CASTLEBAR

OS Catchment No: 110

OS Grid Ref of Confluence: M 222 941

Date(s) Surveyed: 25/7/2005, 26/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1980	1984	1989	1993	1995	1998	2001	2005
0100	5	4-5	4-5	4	4	4-5	4-5	4
0150	5	4-5	4	4	-	-	-	-
0200	-	4	5	4-5	4	4-5	4-5	4-5
0225	-	-	-	-	-	-	-	4
0300	5	3-4	4-5	3-4	4	4	4	4
0400	5	3-4	3-4	4	-	-	-	-
0500	5	3-4	4	3-4	3	4	4	3-4

Assessment: The upper Manulla river was in satisfactory condition. A new station was added in 2005 immediately downstream of the discharge from the Belcarra wastewater treatment plant (Station 0225). Quality in this slow-flowing stretch of river was satisfactory at that point. No change was noted at Manulla Bridge but deterioration was apparent at the final station just upstream of its confluence with the Castlebar River (q.v.) with a lack of sensitive taxa and growths of filamentous algae indicating a eutrophication problem in the lower reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinafad Bridge	123082	281188	31	MO
0150	Bridge near Bridgemount	121400	282500	31	MO
0200	Bridge at Ballycarra	120120	284117	31	MO
0225	At Cuillare d/s Belcarra WWTP	119994	284630	31	MO
0300	Manulla Bridge	121307	288608	31	MO
0400	Br NE Gneeve	122293	291154	31	MO
0500	Bridge u/s Castlebar River	121981	293298	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	65	0	100	44	0	7	1	35	0	12
0200	25	108	0	100	46	0	9	0	34	0	10
0300	21	141	0	100	39	1	10	1	41	0	8
0400	20	161	0	100	36	0	10	1	43	1	8
0500	15	170	0	100	36	1	9	1	44	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 : **MEANDER****34/M/05**

Tributary of : 34M01 MANULLA

OS Catchment No: 110

OS Grid Ref of Confluence: M 232 810

Date(s) Surveyed: 25/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1986	1989	1993	1995	1998	2001	2005
0200	-	-	4	-	-	-	-
0300	-	3	4	4	4	3	3-4
0400	3-4	3-4	4-5	3	4	4	4-5

Assessment: The upper Meander site was quite eutrophic but it recovered in the lower reaches achieving a Q-Value of Q4-5 indicating relatively high status in July 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br E.N.E. of Curry	126140	277670	38	MO
0300	Bridge S.W. of Mayo	125655	278967	38	MO
0400	Br N.N.W. of Rathnacreeva	123482	280087	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	36	20	0	100	34	0	24	0	31	0	11
0400	31	27	0	100	45	0	19	0	28	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 : **MOY**

34/M/02

Tributary of : Sea - Killala Bay

OS Catchment No: 110

OS Grid Ref of Confluence: G 254 197

Date(s) Surveyed: 13/7/2005, 20/7/2005

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1973	1977	1980	1982	1984	1989	1993	1995	1998	2001	2003	2004	2005
0010	-	-	-	-	-	-	-	-	-	-	3	-	3-4	-
0050	-	-	-	5	-	5	5	5	4-5	4-5	3	-	4	-
0100	5	5	5	5	-	5	5	5	4-5	5	4	-	4-5	-
0150	-	-	-	5	-	5	5	5	-	-	-	-	-	-
0300	5	5	5	5	-	5	5	5	4-5	4-5	4-5	-	4-5	-
0350	-	-	-	4	-	4-5	-	-	-	-	-	3/0	-	-
0400	5	-	5	4	-	4	4-5	3	3	4-5	4-5	3-4	4-5	-
0420	-	-	-	4-5	-	4	5	4-5	4	4	4-5	-	4	-
0470	-	-	-	5	-	4	4	4	4	4	4-5	-	4	-
0500	5	5	4-5	5	-	4-5	5	4	4-5	4-5	4-5	-	4-5	-
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	-
0700	5	5	5	5	-	4-5	4	4-5	4-5	4	4-5	-	4-5	-
0750	-	-	-	-	-	-	-	-	5	5	5	-	-	4-5
0770	-	-	-	-	-	-	-	-	4	4	4	-	-	4
0800	4-5	5	4	3-4	3	3	3	3	3	3	3-4	-	-	4
0850	-	-	-	-	-	-	4-5	4-5	4-5	4-5	4	-	-	4-5
0900	-	-	-	-	4	4	4-5	4-5	4	4-5	4-5	-	-	4
0960	-	-	-	-	4	4	4	-	4	4	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	4	-	-	-
1050	5	4	4	4	-	4	4	3*	3-4	4	4	-	-	4
1055	-	-	-	-	-	-	-	4	-	-	-	-	-	-

Assessment: A slight improvement was noted in the uppermost Moy site (0010), which was first sampled in 2001 to account for the effect of forestry activities in the upper catchment of the main Moy River. At this location the river had extensive organic mats on the substratum with unexpectedly abundant filamentous algal growths. The macroinvertebrate fauna here was of lower quality than would be expected at a remote upland site such as this, with many expected species missing. A more notable improvement in comparison with 2001 was apparent at the second site (0050) where good status was achieved once again. Quality thereafter was satisfactory over the entire length of the Moy to Ballina. It is important to note, however, that a major fish kill occurred in the summer of 2003 in the section between Annagh Br (0300) and Banada Bridge (0400) downstream of the confluence of the Tubbercurry River. A severely toxic substance emanating from the Tubbercurry River (q.v.) killed large numbers of salmonid fish. Even sticklebacks, normally regarded as being quite pollution tolerant, were killed. The impact of this event was no longer apparent in the macroinvertebrate community when surveyed in July 2004 approximately one year later. The lower Moy was surveyed in 2005 and water quality was generally good in the stretch from Bleanmore (0750) to the end of the freshwater section of the river in Ballina.

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

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

Alt is 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****34/P/01**

Tributary of : 34G03 GWEESTION

OS Catchment No: 110

OS Grid Ref of Confluence: M 343 930

Date(s) Surveyed: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1986	1988	1989	1993	1995	1998	2001	2005
0100	-	4-5	4-5	-	4	3-4	4-5	3-4	4	4-5
0200	-	4-5	4	4-5	4	4-5	4	4	4	4
0260	-	-	-	-	-	-	3	3-4	3-4	3-4
0300	4	4-5	4-5	-	4	3-4	4	4	3-4	4

Assessment: An improvement in quality was noted in the upper Pollagh (0100) in comparison with 2001. The second site upstream of Kiltimagh was again in satisfactory condition. Signs of significant eutrophication were again noted at Station 0260 which is approximately 1.5km downstream of the Kiltimagh wastewater treatment plant discharge point. Water quality had improved again at the lowermost station (0300) upstream of its confluence with the River Glore (q.v.) to form the Gweestion River. An improvement in status in comparison with 2001 was also noted at this site.

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: 4/7/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1993	1995	1998	2001	2005
0200	4-5	-	-	-	-	-
0300	4-5	3-4	3	4	4	3-4
0400	4-5	4	4	4-5	4-5	3-4

Assessment: Both sites surveyed on the Shanvolahan were slightly polluted and quite eutrophic. The catchment is located in an area of extensive forestry plantations and worked peat bogs. The lower site was subject to uncontrolled cattle access.

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: 6/7/2005

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1995	1999	2001	2002	2005
0200	-	-	-	3-4	-	3	3-4
0400	3-4	3	3	3	3-4	3-4	3-4

Assessment: Both sites sampled were slightly polluted in July 2005 with abundant algal growths noted indicating significant nutrient throughput in this Deel River tributary.

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: 15/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1985	1989	1994	1995	1999	2001	2005
0009	-	-	3-4	-	-	-	-	-
0060	-	-	4-5	3-4	3-4	3-4	4	3
0070	-	-	-	-	-	-	-	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

Assessment: A disimprovement was noted at the upper surveyed site on the Sonnagh. This site, which is downstream of a large quarry operation, was intensely silted. The middle (0070) and lower site (0100) surveyed were satisfactory.

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 Lislaughna	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****34/S/03**

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: M 323 999

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1985	1989	1993	1995	1999	2001	2004	2005
0050	4-5	5	4-5	4-5	4-5	4	4	-	4-5
0100	5	4-5	4-5	4-5	4	3	4	4	-
0200	5	4-5	4-5	4-5	4-5	3-4*	4	-	4

Assessment: The two sites surveyed in 2005 on the Spaddagh River were in satisfactory condition.

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**

34/S/05

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 347 014

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)													
	1977	1979	1981	1983	1985	1988	1989	1990	1991	1993	1995	1999	2001	2005
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
0300	3-4	3-4	3-4	3-4	3	3	3	-	-	3	3-4	3-4	3-4	3-4

Assessment: A major improvement in water quality was noted at the upper site (0200) which is downstream of the Swinford waste water treatment works. The lower site, however, remained quite eutrophic.

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****34/T/01**

Tributary of : 34G03 GWEESTION

OS Catchment No: 110

OS Grid Ref of Confluence: M 330 964

Date(s) Surveyed: 12/7/2005, 13/7/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1977	1981	1986	1989	1993	1995	1998	2001	2005
0100	-	4	4-5	4	4	-	-	-	-
0200	-	4	4	4	3-4	4	3	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
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

Assessment: The upper Trimoge (0200) was slightly polluted in July 2005. Quality recovered in the middle stretch (0300). Slight pollution (eutrophication) was noted at Kinaff Bridge (0400) and quality improved again at the lower site. Overall a slight deterioration at one site in comparison with the 2001 survey.

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 : **YELLOW (KNOCK)**

34/Y/02

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: M 338 861

Date(s) Surveyed: 13/7/2005, 14/7/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1986	1989	1993	1995	1998	2002	2005
0250	-	-	3-4	3-4	-	-	4	-
0255	-	-	3	3-4	2	2-3	2-3	3-4
0275	-	-	3	4	3	4	4	4-5
0290	-	-	3-4	4	3-4	4	-	-
0300	5	4	-	-	-	-	-	-
0400	-	-	4	4-5	4	4	4	4

Assessment: A major improvement was noted in the Yellow (Knock) in the upper section. This is attributed to the new wastewater treatment plant upstream of this point. The mid-section improved to Q4-5 and while the fauna improved somewhat at the lowermost site ongoing dredging and resulting turbidity continues to impair water quality at this point upstream of Cuiltybo Lough. The lower site has a population of the protected species *Austropotamobius pallipes* (crayfish).

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 Cuiltybo L	134649	286731	32	MO
0400	Bridge just u/s Cuiltybo 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 – Partial Survey)

Partial Survey only

CORNAVANNIGE
ROO

36C04
36R02

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: 4/6/2005

Station Nos.	Biological Quality Ratings (Q Values)				
	1989	1993	1997	1998	2005
0400	5	4-5	5	4-5	-
0600	5	4-5	5	4-5	4-5

Assessment: Continuing satisfactory.

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 : **ROO**

36/R/02

Tributary of :

OS Catchment No: 123

OS Grid Ref of Confluence: H 058 380

Date(s) Surveyed: 4/6/2005

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1997	1998	2005
0200	4	4-5	4	4	-
0400	-	-	-	3-4	-
0500	4	4	-	-	4

Assessment: Satisfactory.

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.

HYDROMETRIC AREA 37 (Donegal Bay North)	
BALLAGHDOO	37B01
BALLINTRA	37B02
BRIDGETOWN (DONEGAL)	37B03
BUNLACKY	37B04
CLOGHANMORE	37C05
CLOGHER (DONEGAL)	37C06
CORABBER	37C01
CROW	37C03
CUNLIN LOUGH STREAM	37C08
DRUMMENY	37D01
EANY WATER	37E03
EANYBEG WATER	37E01
EANYMORE WATER	37E02
EGLISH	37E04
ESKE	37E05
FINTRAGH	37F01
GLEN (CARRICK)	37G01
GLENADDRAGH	37G02
LAGHY STREAM	37L02
LOUGHADEERY	37L03
LOWERYMORE	37L01
OILY	37O01
OWENTESKINY	37O02
OWENWEE (CARRICK)	37O03
ROECHROW	37R01
STRAGAR	37S02
TULLINTEANE	37T01

River and Code : **BALLAGHDOO**
 Tributary of : 37G02 GLENADDRAGH
 OS Grid Ref of Confluence: G 616 761
 Date(s) Surveyed: 20/9/2005

37/B/01

OS Catchment No: 53

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005
0100	5	4	5	5	4-5	-	-	4-5	-	-
0200	-	-	1/0	4-5	4-5	1/0	4	3/0	4	3

Assessment: Poor quality was noted in the Ballaghdoon River in September 2005 just upstream of its confluence with the Glenaddragh River (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
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 : **BALLINTRA**
 Tributary of : Sea - Donegal Bay
 OS Grid Ref of Confluence: G 904 726
 Date(s) Surveyed: 9/8/2005

37/B/02

OS Catchment No: 60

Station Nos.	Biological Quality Ratings (Q Values)							
	1973	1986	1990	1994	1997	1999	2002	2005
0007	-	-	-	4-5	5	4-5	4	4
0010	-	5	4-5	-	-	-	-	-
0050	-	4-5	4	5	4-5	4-5	4	3-4
0060	-	-	5	-	-	-	-	-
0100	5	5	5	-	-	-	-	-
0200	5	4	4	4-5	3	4	4	3

Assessment: The Ballintra River had deteriorated in the mid to lower reaches especially. Sewage fungus, apparently resulting from farm effluent discharges, was noted at station 0050 and quality was poor at Connor's Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0007	Br NW L. Garlagh More	198496	369619	17	DL
0010	Bridge u/s Rath Lough	197289	368872	17	DL
0050	Mallanamuckly Br	195272	369747	17	DL
0060	Br SW of Ballintooey	193892	370280	17	DL
0100	Aghadullagh Bridge	192430	369627	17	DL
0200	Connor's Bridge	190817	369756	17	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0007	98	4	100	0	0	12	71	0	4	0	13
0050	71	33	91	9	8	9	61	0	4	1	17
0200	20	44	72	28	19	9	47	0	8	1	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 : **BRIDGETOWN (DONEGAL)****37/B/03**

Tributary of : 37B02 BALLINTRIA

OS Catchment No: 60

OS Grid Ref of Confluence: G 904 726

Date(s) Surveyed: 9/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1973	1980	1986	1990	1994	1997	1999	2002	2005
0010	-	5	5	4	4	4	4	-	-
0030	-	-	-	-	-	-	-	4-5	4-5
0050	5	4-5	4-5	4-5	-	-	-	-	-
0080	-	-	-	-	4-5	-	-	-	-
0090	-	-	-	-	-	4	4-5	4-5	4-5
0100	5	5	5	4-5	-	-	-	-	-
0200	5	5	5	4	4	4-5	4	4-5	4-5

Assessment: The Bridgetown River was of high quality at all points sampled in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge W. of Lough Nadarragh	199667	370898	11	DL
0030	Br W L Naboy	197925	370530	11	DL
0050	Shannagh Bridge	196808	371269	11	DL
0080	Rath Bridge	194869	370876	11	DL
0090	0.5km d/s Rath Br	194439	370769	11	DL
0100	Br ENE Brown Hill	194000	370800	11	DL
0200	Br E Ballybulgan	191871	371614	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	118	11	100	0	0	35	48	0	8	6	3
0090	66	23	86	14	3	17	55	0	22	3	1
0200	10	32	68	32	15	13	47	0	23	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 : **BUNLACKY****37/B/04**

Tributary of : Sea - Inver Bay

OS Catchment No: e6

OS Grid Ref of Confluence: G 803 768

Date(s) Surveyed: 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	5	4	4-5	4	4-5	4
0300	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Overall satisfactory but the upper Bunlacky (0200) exhibited definite signs of eutrophication in mid-August 2005. A very low flow and substantial algal growth resulted in a dissolved oxygen reading of over 130% saturation. While this suggested the possibility of low night-time dissolved oxygen values the presence of a number of sensitive fauna suggested that the system had not reached a critical point. A series of natural falls along the river channel appear to be providing sufficient aeration to prevent serious deoxygenation. This upper station (0200) river was, however, at risk if flows did not increase in the near future. The lower site at Bunlacky Bridge was satisfactory - this is a highly shaded location where the impact of eutrophication may be reduced.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge near Lissavaddy	177511	379066	10	DL
0300	Bunlacky Bridge	177924	376299	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	73	11	8	92	6	6	48	0	29	0	11
0300	11	15	6	94	7	5	51	0	26	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 : **CLOGHANMORE**

37/C/05

Tributary of : Sea - Malin Bay

OS Catchment No: h6

OS Grid Ref of Confluence: G 495 826

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4-5	4	4-5	4-5	4	3

Assessment: Unsatisfactory. The Cloghanmore lacked pollution sensitive species when surveyed in September 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge u/s Malin Bay	149835	382702	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	16	8	100	0	9	0	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 : **CLOGHER (DONEGAL)**

37/C/06

Tributary of : 37L01 LOWERYMORE

OS Catchment No: 58

OS Grid Ref of Confluence: G 979 820

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	5	-	-	-	-	-
0400	5	4-5	4-5	4	4-5	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Clogher Bridge	199209	381211	11	DL
0400	Br 400 m u/s Lowerymore River	197803	381694	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	37	8	72	28	11	0	57	0	32	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 : **CORABBER**

37/C/01

Tributary of : Lough Eske

OS Catchment No: 58

OS Grid Ref of Confluence: G 974 858

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4-5	4-5	5	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Eske	197506	386218	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	32	18	96	4	3	2	90	0	0	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 : **CROW**

37/C/03

Tributary of : 37G01 GLEN (CARRICK)

OS Catchment No: 52

OS Grid Ref of Confluence: G 612 842

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	-	3-4	3-4	3-4	3	4
0700	4-5	4-5	4-5	4	4	4-5

Assessment: A significant improvement in quality was noted at both sites on the Crow river in comparison with 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	S of Crove	166012	384286	10	DL
0700	Just u/s Glen River confl	161179	384033	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	153	9	100	0	0	0	94	0	6	0	0
0700	54	22	100	0	0	0	89	0	6	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 : **CUNLIN LOUGH STREAM****37/C/08**

Tributary of : Sea - Killybegs Harbour

OS Catchment No: 54

OS Grid Ref of Confluence: G 724 782

Date(s) Surveyed: 20/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	4	4-5	4-5	-	-
0400	5	4	4-5	4-5	4-5	4-5

Assessment: Satisfactory with no significant change in quality since last surveyed.

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
0400	The Commons Bridge	172359	378464	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	21	4	100	0	0	5	69	0	26	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 : **DRUMMENY**
 Tributary of : 37E05 ESKE
 OS Grid Ref of Confluence: G 937 788
 Date(s) Surveyed: 10/8/2005

37/D/01

OS Catchment No: 58

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0300	5	4-5	4-5	4-5	4-5	4
0400	4	3-4	4	4-5	3-4	4

Assessment: A group of direct discharges to the Drummenny in Donegal Town (0400) from septic tanks had been dealt with since the previous survey and river water quality had improved as a result of this measure. It is understood that rather than being allowed to continue to discharge directly the houses were required to connect to the main sewer by the local authority.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Drummenny Bridge	196819	378952	11	DL
0400	Bridge u/s Eske River confl	193768	378612	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	47	11	57	43	36	9	49	0	0	0	6
0400	9	16	43	57	51	6	37	2	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 : **EANY WATER**

37/E/03

Tributary of : Sea - Inver Bay

OS Catchment No: 57

OS Grid Ref of Confluence: G 818 777

Date(s) Surveyed: 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1980	1984	1986	1990	1999	2005
0300	5	5	5	5	5	4

Assessment: The Eany Water was satisfactory where sampled downstream of the confluence of the Eanybeg (q.v.) and Eanymore Water (q.v.). The lower section of the Eany is tidal/brackish in nature.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Just d/s Eany Beg/More confl	184040	381396	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	17	94	30	70	1	4	61	0	14	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 : **EANYBEG WATER****37/E/01**

Tributary of : 37E03 EANY WATER

OS Catchment No: 57

OS Grid Ref of Confluence: G 842 816

Date(s) Surveyed: 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	5	4	5	4-5	4-5	4
0500	4-5	-	-	-	-	-
0700	4-5	4-5	4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Cloghvin	188106	386949	11	DL
0500	Bridge S.E. of Camlargo L	186907	384352	11	DL
0700	Eanybeg Bridge	184559	382183	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	115	12	89	11	0	0	49	0	0	0	51
0700	22	40	33	67	0	1	66	0	8	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 : **EANYMORE WATER**

37/E/02

Tributary of : 37E03 EANY WATER

OS Catchment No: 57

OS Grid Ref of Confluence: G 842 816

Date(s) Surveyed: 10/8/2005, 11/8/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005
0050	-	5	5	5	5	4-5	4-5	4-5	4-5	4
0100	-	5	5	5	-	-	-	-	-	-
0150	-	-	-	-	5	4-5	4-5	5	5	3
0200	-	5	5	5	-	-	-	-	-	-
0250	4-5	-	-	-	5	5	4-5	5	4	4

Assessment: The Eanymore Water suffered a serious decline in quality in its middle reaches (0150) in 2005. The main activities in the catchment are forestry and extensive agriculture including sheep. There are no licensed point source discharges listed for the catchment. The Meenaguse/Ardbane Bog SAC is located in the upper catchment of the Eanymore between the Eanymore Water (0050) and Eanybeg Water (0200) (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S Meenawilderg	191060	385200	11	DL
0100	Drumboarty Br	190130	383225	11	DL
0150	Letterbarra Bridge	188289	382363	11	DL
0200	Drumagraa Br	186315	382234	11	DL
0250	Eanymore Bridge	184486	381543	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	87	16	64	36	1	0	76	0	0	0	23
0150	58	43	35	65	1	8	63	0	12	0	16
0250	21	52	29	71	2	7	57	0	18	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 : **GLISH**

37/E/04

Tributary of : 37E02 EANYMORE WATER

OS Catchment No: 57

OS Grid Ref of Confluence: G 910 852

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	5	4	5	4	4-5	4
0200	4-5	-	-	-	-	-

Assessment: The Eglisish was in satisfactory condition in August 2005. A sheep dip unit with dumped sheep dip containers poses a risk to the Eglisish and Eanymore Water (q.v.) further downstream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge at Meenataggart	192548	386018	11	DL
0200	Just u/s Sruell River confl	191085	385105	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	140	10	52	48	0	20	66	0	0	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 : **ESKE**

37/E/05

Tributary of : Sea - Donegal Bay

OS Catchment No: 58

OS Grid Ref of Confluence: G 929 785

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1973	1982	1986	1990	1994	1997	1999	2002	2005
0100	-	4	4	4-5	-	-	-	-	-
0200	5	4-5	4	4	4-5	4-5	4-5	4-5	4
0310	5	4-5	-	4-5	-	-	-	-	-
0400	-	4-5	4-5	4	4	4	3-4	3-4*	n/a

Assessment: The River Eske was satisfactory where sampled in August 2005 at Thrushbank (0200) Bridge downstream of Lough Eske.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Lough Eske	196919	382078	11	DL
0200	Thrushbank Bridge	195573	380905	11	DL
0310	Donegal: 1 km u/s East Br (RHS)	193826	379219	11	DL
0400	East Bridge- Donegal Town	193047	378532	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	15	90	74	26	11	6	60	0	13	5	4
0400	6	114	64	36	22	6	53	1	11	4	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 : **FINTRAGH**

37/F/01

Tributary of : Sea - Fintragh Bay

OS Catchment No: g6

OS Grid Ref of Confluence: G 691 766

Date(s) Surveyed: 20/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	5	4-5	5	4-5	4-5	4-5

Assessment: The Fintragh River was of high status from the point of view of water quality but a serious rubbish fly-tipping problem was noted at Fintragh Bridge.

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 : **GLEN (CARRICK)**

37/G/01

Tributary of : Sea - Tawny Bay

OS Catchment No: 52

OS Grid Ref of Confluence: G 585 780

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)										
	1971	1973	1977	1980	1986	1990	1994	1997	1999	2002	2005
0010	-	-	-	-	-	-	-	-	-	4	-
0040	-	-	-	-	-	5	-	-	-	-	-
0045	-	-	-	-	-	-	4-5	4-5	4-5	-	3
0050	5	5	5	4-5	5	5	-	-	-	-	-
0070	-	-	-	-	-	4-5	3-4	4-5	3	3-4*	3
0100	-	5	-	5	5	4-5	-	-	-	-	-
0200	5	5	4	4	5	4	4-5	4-5	4	4	3
0210	-	-	-	-	-	-	-	-	-	3-4	-

Assessment: The Glen (Carrick) appeared to be polluted over its length when surveyed in September 2005. Surprisingly even the upper site (0045) had no sensitive invertebrates when sampled. The mid reach Station 0070 downstream of a large fish processing factory and the lower site (0200) downstream of Carrick were both moderately polluted, lacking the pollution-sensitive invertebrates normally found in this river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br WNW Largybrack	160440	388440	0	
0040	Bridge S.E. of Stranagartan	160841	386793	10	DL
0045	500 m u/s Owenteskinny R confl	161102	385157	10	DL
0050	Bridge u/s Crow River confl	161237	384291	10	DL
0070	E. of Croaghstraleel (roadside)	160450	382389	10	DL
0100	1.9 km u/s Carrick Bridge	159815	380398	10	DL
0200	0.5 km d/s Carrick Bridge (LHS)	158944	378712	10	DL
0210	0.5 km d/s Carrick Bridge (RHS)	158944	378709	10	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	75	17	98	2	8	0	69	0	1	0	23
0070	41	72	100	0	2	1	83	0	5	1	9
0200	14	87	100	0	2	1	83	0	7	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.

River and Code : **GLENADDRAGH**

37/G/02

Tributary of : Sea - Tawny Bay

OS Catchment No: 53

OS Grid Ref of Confluence: G 610 755

Date(s) Surveyed: 20/9/2005

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005
0100	5	5	5	5	5	5	5	4-5	4-5	4
0150	5	5	5	5	4-5	-	-	-	-	-
0190	-	-	4	-	5	4-5	-	-	-	-
0195	-	-	-	-	-	-	-	-	4	3
0200	-	3	1/0	4	4-5	3/0	4	3/0	-	-

Assessment: The Glenaddragh was satisfactory in the upper reaches. The lower site sampled is, however, quite severely impacted by the Ballaghdoon River (q.v.) which appears to be suffering from some industrial discharges in Kilcar. A separate rapid assessment of the Glenaddragh just upstream of its confluence with the Ballaghdoon River showed it to be unpolluted at that point indicating that the Ballaghdoon River is primarily responsible for the pollution in the lower reaches as the Glenaddragh/Ballaghdoon flows into Tawny Bay.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
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 Ballaghdoon River	161679	376071	10	DL
0195	0.3km d/s Ballaghdoon R Confl	161500	375981	0	
0200	0.5 km d/s Ballaghdoon 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 : **LAGHY STREAM****37/L/02**

Tributary of : Sea - Donegal Bay

OS Catchment No: 59

OS Grid Ref of Confluence: G 925 779

Date(s) Surveyed: 9/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	4	4-5	4-5	4	4
0300	4	-	-	-	4	4-5
0400	4	4-5	-	4	-	-
0600	5	-	4	-	4-5	4

Assessment: Overall satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Main Road Br at Laghy Barr	198731	374768	11	DL
0300	Raneany Bridge	195596	374874	0	DL
0400	Bridge in Laghy	194471	374475	11	DL
0600	0.2km d/s Bridge on N15	193988	374965	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	117	6	100	0	0	7	65	0	27	0	1
0600	10	38	60	40	30	4	45	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 : **LOUGHADEERY****37/L/03**

Tributary of : 37S02 STRAGAR

OS Catchment No: 54

OS Grid Ref of Confluence: G 729 804

Date(s) Surveyed: 12/8/2005, 20/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	4	4-5	4-5	-	4
0300	5	-	-	-	3-4*	3-4

Assessment: The Loughaderry River was satisfactory in its upper reaches (0100) but slightly polluted at Bungosteen Bridge (0300) where it was quite eutrophic in nature.

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 : **LOWERYMORE****37/L/01**

Tributary of : Lough Eske

OS Catchment No: 58

OS Grid Ref of Confluence: G 978 822

Date(s) Surveyed: 10/8/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	4	4	4-5	4	4-5	4
0300	3-4	4-5	5	-	4-5	4-5
0400	5	5	5	4	4-5	4-5

Assessment: Satisfactory

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Barnes Bridge	203978	387023	11	DL
0300	Keadew Bridge	201230	383890	11	DL
0400	Bridge u/s Lough Eske	198016	381985	11	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	128	11	100	0	0	1	96	0	0	0	3
0300	82	22	100	0	0	4	89	0	3	0	4
0400	32	31	100	0	3	3	80	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 : **OILY**

37/O/01

Tributary of : Sea - McSwyne's Bay

OS Catchment No: 55

OS Grid Ref of Confluence: G 744 765

Date(s) Surveyed: 11/8/2005, 12/8/2005

Station Nos.	Biological Quality Ratings (Q Values)								
	1973	1980	1986	1990	1994	1997	1999	2002	2005
0020	-	-	-	5	4	4-5	-	4	4-5
0050	-	5	5	5	5	5	4-5	4-5	4-5
0100	5	5	5	4-5	-	-	-	-	-
0200	5	5	4-5	4-5	4-5	4-5	3/0	4-5	4

Assessment: The Oily River was satisfactory over its length in August 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Bridge d/s Tamur Lough	180011	385073	11	DL
0050	Ford SW of Corker Beg	176130	382666	10	DL
0100	Multin's Bridge	175150	380440	10	DL
0200	Milltown Bridge	174790	377338	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	130	6	72	28	0	0	57	0	0	0	43
0050	58	26	90	10	0	11	69	0	2	1	17
0200	10	47	83	17	0	10	64	0	13	1	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 : **OWENTESKINY**
 Tributary of : 37G01 GLEN (CARRICK)
 OS Grid Ref of Confluence: G 612 848
 Date(s) Surveyed: 21/9/2005

37/O/02

OS Catchment No: 52

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0300	4	4-5	4	4	3-4	4-5
0400	4-5	4-5	4-5	4	4	4
0500	4-5	4	4	4-5	5	-

Assessment: A recovery was noted in the upper reaches (0300) of the Owenteskiny in comparison with the 2002 survey. The lower stations (0400, 0500) were in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	S. of Durlough (roadside)	166513	386721	10	DL
0400	E. of Lergynasearhagh	164162	386517	10	DL
0500	Ford u/s Glen River confl	162591	385504	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	181	5	100	0	0	0	100	0	0	0	0
0400	127	13	100	0	0	0	91	0	0	4	4
0500	95	18	100	0	0	5	83	0	2	3	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 : **OWENWEE (CARRICK)****37/O/03**

Tributary of : 37G01 GLEN (CARRICK)

OS Catchment No: 52

OS Grid Ref of Confluence: G 584 783

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4	-	-	-	-	-
0400	4-5	4	5	5	5	4
0500	4-5	5	4-5	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge d/s Lough Unna	156427	380959	10	DL
0400	S. of Lough Unna	156787	380248	10	DL
0500	Carrick Lower Bridge	158423	378270	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	84	20	98	2	0	0	89	0	3	3	5
0500	0	24	99	1	4	0	88	0	2	2	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 : **ROECHROW**
 Tributary of : 37S02 STRAGAR
 OS Grid Ref of Confluence: G 741 825
 Date(s) Surveyed: 12/8/2005, 21/9/2005

37/R/01

OS Catchment No: 54

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0100	-	-	-	-	-	2/0
0200	4-5	5	4-5	4-5	3-4	2/0

Assessment: The Roechrow was severely impacted in the upper reaches. A new monitoring station was added (0100) in the upper reaches when serious pollution was noted at the site normally monitored (0200). The upper site with less than 2km of upstream catchment had an extremely reduced fauna - only five living taxa were recorded at low density indicating possible toxic conditions or severe abrasion. The substratum was coated with a brown peaty slime. A mature conifer plantation had been felled in the immediate upstream catchment and partially replanted.

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****37/S/02**

Tributary of :

OS Catchment No: 54

OS Grid Ref of Confluence: G 728 780

Date(s) Surveyed: 12/8/2005, 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)							
	1973	1985	1990	1994	1997	1999	2002	2005
0100	5	5	5	4	4-5	4-5	4	3-4
0180	-	-	-	-	-	-	3	3
0200	5	4	5	5	-	-	-	-
0300	-	-	-	-	4-5	4-5	-	3
0400	-	-	-	-	-	-	-	-

Assessment: The upper Stragar (0100) had deteriorated further in comparison with 2002 and was impacted by siltation from activities in the upper catchment. The middle and lower stations (0180, 0300) were moderately polluted, apparently impacted by one or more industrial discharges in the catchment.

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.

River and Code : **TULLINTEANE****37/T/01**

Tributary of : 37O01 OILY

OS Catchment No: 55

OS Grid Ref of Confluence: G 760 826

Date(s) Surveyed: 21/9/2005

Station Nos.	Biological Quality Ratings (Q Values)					
	1990	1994	1997	1999	2002	2005
0200	4	-	-	-	-	-
0300	-	-	-	4	-	-
0400	4-5	4-5	4	2/0	2/0	4

Assessment: The Tullinteane had recovered from the previous severe toxic pollution noted in both 1999 and 2002. Quality was satisfactory but still not as good as would be expected for an upland Donegal River in this area.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Mulmusog	176484	386029	10	DL
0300	Bridge W of Corkermore Hill	176203	384192	10	DL
0400	Just u/s Oily River confl	176072	382714	10	DL

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	7	100	0	0	22	67	0	5	0	6
0400	57	7	100	0	0	19	67	0	8	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.

ADDITIONAL SURVEYS
(Exchange of Information sites)

HYDROMETRIC AREA 07 (Boyne)

BOYNE

07B04

River and Code : **BOYNE**

07/B/04

Tributary of :

OS Catchment No: 159

OS Grid Ref of Confluence: O 091 751

Date(s) Surveyed: 19/7/2005

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1973	1974	1975	1977	1979	1981	1986	1990	1994	1997	2000	2003	2004	2005
0100	4-5	-	-	-	-	-	3-4	4	4	-	3	3-4	3	-	-
0160	-	4-5	-	-	-	-	-	-	-	-	-	-	-	-	-
0200	2-3	3-4	-	3-4	3	4	4	4	3	4	2-3	3-4	3	-	-
0300	2-3	2-3	-	2	1-2	2-3	4	4	-	3	2	1-2	3	-	-
0400	4-5	3	-	-	4-5	4	4	4	4	4	3	3	4	-	-
0500	-	-	-	-	4-5	-	4	-	4	-	-	-	-	-	-
0600	4-5	-	4	-	4	4	4	4-5	4	4	3-4	3	3	-	-
0700	-	-	-	-	-	-	3-4	4	3-4	-	-	-	-	-	-
0800	4-5	-	3	-	-	4	4-5	4-5	4	4	3-4	3-4	4	-	-
0900	5	-	3-4	-	-	4-5	5	5	4	4	4	4	3-4	-	-
1000	5	-	4	-	-	4	5	5	3-4	3-4	4	3-4	4	-	-
1100	5	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-
1200	-	-	4-5	-	-	-	4	4-5	3-4	3-4	4	3-4	3-4	-	-
1300	4-5	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-
1400	-	-	4	-	-	3-4	3-4	4	3-4	3-4	3	3	3-4	-	-
1500	5	-	4-5	-	-	4-5	5	4	3-4	3-4	3-4	3-4	3-4	-	-
1600	-	-	-	-	-	-	4	4-5	3-4	3-4	3-4	3-4	3-4	-	-
1700	5	-	4	-	-	3-4	4	4-5	3-4	-	-	-	-	-	-
1800	-	-	-	-	-	4	4-5	4-5	3-4	3-4	3-4	3-4	3-4	-	-
1900	4	4	-	4	3-4	3	3-4	4	2-3	3	2-3	3-4	3-4	-	-
2000	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	4	3-4	3-4	3	3-4	3-4	-	-
2100	4-5	4-5	-	4	4	4	4-5	4	4	3-4	3	3-4	3-4	3-4	3-4
2150	-	-	-	-	-	-	-	-	4-5	3-4	3-4	4	3-4	-	-
2200	5	4-5	-	3-4	4	4	4	4	-	-	3-4	3-4	3-4	-	-

Assessment: Continuing Slight Pollution at Slane Bridge (2100).

Additional Surveys (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	River Br	266855	232768	49	KE
0160	Kishawanny Br	264567	233456	49	OF
0200	Boyne Br	263605	234529	49	OF
0300	Kinnafad Br	261428	235002	49	OF
0400	Ballyboggan Br	263807	240222	49	MH
0500	Leinster Br	266554	243756	49	MH
0600	Ashfield Br	268374	244832	49	MH
0700	Stonyford Br	268939	247361	49	MH
0800	Inchamore Br	271089	250000	42	MH
0900	Scarriff Br	273445	252734	42	MH
1000	Derrinydaly Br	276708	253872	42	MH
1100	D/s Athboy R confl	0	0	42	MH
1200	West Br Trim	279790	257004	42	MH
1300	Newtown Trim Br	281648	256859	42	MH
1400	u/s Knightsbrook R confl (RHS)	282514	256693	42	MH
1500	Bective Br	286038	259705	42	MH
1600	Ballinter Br	289519	262675	42	MH
1700	Kilcarn Old Bridge	288535	265524	42	MH
1800	Railway Br Navan	287430	267428	42	MH
1900	2km d/s Navan (LHS)	288493	269122	42	MH
2000	Broadboyne Br	291863	271315	42	MH
2010	d/s Broadboyne Br (RHS)	292440	271435	43	MH
2100	Slane Br	296414	273631	43	MH
2150	Ford S of Broc Ho	300003	271834	43	MH
2200	Obelisk Br	304510	276200	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	71	21	0	100	70	1	8	3	18	0	0
0160	67	46	0	100	59	2	15	3	17	0	3
0200	66	60	0	100	63	2	12	4	16	0	3
0300	66	78	0	100	66	2	10	5	15	0	2
0400	65	304	0	100	62	3	18	2	10	0	5
0500	65	327	0	100	64	3	17	2	10	0	5
0600	64	436	0	100	67	2	15	2	11	0	4
0700	63	446	0	100	67	2	14	2	10	0	4
0800	61	737	1	99	72	2	11	1	9	1	5
0900	59	965	1	99	72	2	10	1	10	1	4
1000	56	1162	0	100	72	2	10	1	10	1	4
1200	50	1362	2	98	72	2	9	1	12	0	4
1300	49	1371	2	98	72	2	9	1	12	0	4
1400	48	1372	2	98	72	2	9	1	12	0	4
1500	43	1491	1	99	72	2	8	1	13	0	3
1600	37	1576	1	99	72	2	8	1	14	0	3
1700	33	1675	1	99	71	2	7	1	15	0	3
1800	31	1685	1	99	71	2	7	1	15	0	3
1900	27	2415	22	78	73	2	5	2	15	1	3
2000	23	2428	22	78	73	2	5	2	16	1	3
2010	21	2430	22	78	73	2	5	2	16	1	3
2100	13	2486	23	77	73	2	5	2	16	1	3
2150	8	2495	23	77	73	2	5	2	16	1	3
2200	2	2619	25	75	73	2	5	1	16	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.

HYDROMETRIC AREA 14 (Barrow)

BARROW

14B01

River and Code : **BARROW**
 Tributary of : 14B01 BARROW
 OS Grid Ref of Confluence: S 722 388
 Date(s) Surveyed: 20/9/2005

14/B/01

OS Catchment No: 183

	Biological Quality Ratings (Q Values)																
Station Nos.	1971	1973	1974	1975	1976	1978	1979	1980	1982	1986	1989	1991	1994	1997	2000	2003	2005
0050	-	-	-	-	-	-	-	5	5	5	5	-	5	4-5	4-5	4-5	-
0100	-	-	-	-	-	-	-	3-4	4-5	4	3	-	3-4	4	4	3-4	-
0200	4	-	4	-	-	-	-	4	4	4	3-4	-	3-4	4	4	3-4	-
0300	4-5	-	3-4	-	-	-	-	5	-	4	4	-	4	3-4	4	4	-
0400	5	-	3-4	-	3-4	4	-	5	-	4	4	-	-	-	-	-	-
0500	3-4	-	3-4	-	3	3-4	-	4	-	4	4	-	3-4	3-4	3-4	3-4	-
0550	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-	-	-	-
0600	4	-	3-4	-	4	3-4	-	4	-	4	4	-	4	4	3-4	3-4	-
0700	4	-	4	-	-	4	-	4	4	4-5	4-5	-	4	4	4	4	-
0760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-
0800	4	-	-	-	-	2-3	-	3-4	-	4	4	-	4	-	-	-	-
0850	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-
0900	4	-	4-5	-	2-3	3-4	-	4	4	4	4	-	4	3-4	3-4	3-4	-
1000	4-5	-	4-5	-	4-5	-	-	4	-	4-5	4	-	4	3-4	3-4	4	-
1200	4-5	-	4-5	-	-	-	-	5	-	4	3	-	3	-	-	-	-
1300	-	-	-	-	-	-	-	4	-	4-5	3-4	-	4	-	3-4	3-4	-
1400	5	-	5	-	-	-	-	4	-	4	4	-	4	4	4	4	-
1500	-	-	-	-	-	-	-	4	4	4	4	-	4	3-4	3-4	4	-
1590	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4	-
1600	1-2	-	3	-	1-2	1-2	-	3	3-4	4	3-4	-	3-4	-	-	-	-
1800	1	-	1-2	-	1-2	1-2	-	4	4	4	4	-	3-4	-	-	-	-
1900	1	-	2	-	2-3	2	-	4	4	4	4	-	4	3-4	4	4	-
2000	1-2	-	2	-	-	2	-	3	3-4	3-4	3	-	4	3-4	4	4	-
2150	-	-	-	-	-	-	-	-	3-4	4	4	-	4	-	-	-	-
2200	3-4	-	2-3	-	-	3	-	-	-	-	-	-	-	-	3	4	-
2400	2	-	2	-	2	2	-	-	2	1	-	-	-	-	-	-	-
2450	-	-	-	-	-	-	-	-	3	3-4	4	-	3	3	3	3	-
2500	2	3	-	-	2	-	-	3	3	3-4	3-4	-	-	-	-	-	-
2600	3	-	3	-	3-4	2	-	3-4	3	3	3-4	-	3-4	3	3	3-4	-
2680	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	4	-
2700	4	-	-	4	4	4	-	3	3-4	3-4	3	-	3	-	-	-	-
2750	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-
2800	4	-	-	4	-	-	3-4	3	3-4	3-4	3	-	3	-	-	-	-
2900	4	-	-	4	-	-	3-4	3	2-3	2-3	2-3	-	3	3-4	3-4	4	-
2910	4	-	-	4	-	-	3-4	-	-	3-4	3-4	-	4	4	3-4	3-4	-
3000	-	-	-	-	-	-	-	4	4	3-4	3-4	-	3-4	3-4	4	3-4	-
3100	4-5	-	-	4	-	-	4	4	4	4	3	-	3-4	-	-	3-4	-
3300	4-5	-	-	4-5	-	-	3-4	4	4-5	4	4	-	4	-	-	3-4	-
3500	4	-	-	3-4	-	-	4	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
3600	4	-	-	-	-	-	4	-	4	4	-	-	-	-	-	-	-

Assessment: Unsatisfactory slightly polluted conditions continue at Graiguenamanagh Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Tinnahinch Br	235155	210490	54	LS
0100	Ford S of Rearyvalley	236128	213025	54	LS
0200	Ballyclare Br	238591	214722	54	LS
0300	Twomile Br	242280	211786	54	LS
0400	Bay Br	0	0	54	LS
0500	Borness Br	246396	209279	54	LS
0550	Br SE of Hammerlane	0	0	54	OF
0600	Portnahinch Br	249067	210029	54	OF
0700	Kilnashown Br	251371	210753	54	LS
0760	Barrow Br	253997	212626	55	LS
0800	1km d/s Portarlinton	0	0	55	LS
0850	D/s Portarlinton STW (RHS)	256216	212270	55	LS
0900	Ford S of Trascan	258196	212310	55	LS
1000	Pass Br	262277	210933	55	KE
1200	1km d/s Monasterevan Br	0	0	55	KE
1300	Ford E of Fisherstown House	263295	205798	55	LS
1400	Dunrally Br	263649	201794	55	LS
1500	Bert Br	265925	196929	55	KE
1590	u/s Athy at Boat Club	268061	194455	55	KE
1600	Athy Br	0	0	55	KE
1800	Ardreigh Lock	0	0	55	LS
1900	Tankardstown Br	270366	188203	61	LS
2000	Maganey Br	271712	184733	61	LS
2150	Weir near Knockbeg College	0	0	61	LS
2200	New Br 1km u/s Carlow Br	272007	177797	61	LS
2400	1.5km d/s Graigue Br	0	0	61	LS
2450	At Dolmen Hotel	270638	174158	61	LS
2500	d/s Clogrennan Lock	0	0	61	LS
2600	Milford Br	269917	170497	61	CW
2680	Cardinal Moran Br	269482	166332	61	CW
2700	Leighlinbridge	269067	165467	61	CW
2750	At Island nr Killinane Ho	269534	163800	61	CW
2800	u/s Bagenalstown	270355	163054	61	CW
2900	Royal Oak Br (LHS)	268937	161444	61	CW
2910	Royal Oak Br (RHS)	268937	161444	61	CW
3000	Fenniscourt Lock	269757	159377	68	CW
3100	Goresbridge (100m u/s on LHS)	268437	153717	68	KK
3300	Ballyteigelea Br	271000	150410	68	KK
3500	Graiguenamanagh Br	270973	143540	68	KK
3600	St Mullins	0	0	68	KK

Additional Surveys (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	105	18	100	0	15	55	21	0	2	0	8
0100	83	35	88	12	29	38	24	0	4	0	6
0200	80	58	57	43	43	24	22	0	5	0	6
0300	77	94	41	59	57	15	15	0	8	0	4
0500	70	207	36	64	60	10	11	1	13	0	6
0600	69	343	22	78	58	8	10	3	16	0	5
0700	69	385	19	81	58	8	9	3	16	0	6
0760	69	405	18	82	59	8	8	3	16	0	7
0850	69	417	18	82	59	8	8	3	16	0	6
0900	66	420	18	82	59	8	8	3	16	0	6
1000	59	1064	9	91	53	5	19	2	14	0	7
1300	58	1118	9	91	53	4	18	2	15	0	7
1400	57	1212	8	92	53	5	17	2	17	0	7
1500	56	1566	8	92	53	4	14	2	20	0	6
1590	55	1575	8	92	53	4	14	2	21	0	6
1900	52	1695	8	92	51	4	13	2	24	0	6
2000	49	1708	8	92	51	4	13	2	24	0	6
2200	49	2070	17	83	52	3	10	2	27	0	5
2450	49	2255	23	77	52	3	10	2	28	0	5
2600	50	2312	23	77	52	3	9	2	28	0	5
2680	40	2373	23	77	52	3	9	2	28	0	5
2700	40	2376	23	77	53	3	9	2	28	0	5
2750	39	2398	22	78	53	3	9	2	28	0	5
2800	39	2398	22	78	53	3	9	2	28	0	5
2900	34	2418	23	77	53	3	9	2	28	0	5
2910	34	2418	23	77	53	3	9	2	28	0	5
3000	30	2437	22	78	53	3	9	2	28	0	5
3100	26	2566	22	78	54	3	8	2	28	0	5
3500	12	2779	27	73	54	3	9	2	27	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.

HYDROMETRIC AREA 18 (Blackwater (Munster))

BLACKWATER (MUNSTER)

18B02

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

18/B/02

Tributary of :

OS Catchment No: 190

OS Grid Ref of Confluence: X 098 997

Date(s) Surveyed: 25/8/2005

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1975	1978	1979	1980	1982	1984	1986	1990	1994	1997	2000	2003	2005
0050	5	-	5	-	-	-	-	-	-	4	4	4-5	4	3-4	-
0060	-	-	-	-	-	-	-	-	-	4	4	4	4	4	-
0075	5	-	4-5	-	-	-	-	-	-	4	4	4	4	3-4	-
0100	-	-	-	-	-	-	-	-	-	4	4	4	4	4	-
0200	5	-	5	5	-	5	-	-	4	4	4	4	4-5	4	-
0300	4-5	4-5	4	4-5	-	4-5	4-5	4-5	4-5	4	-	-	-	-	-
0400	3-4	3	1	3	-	4	3-4	2-3	3	3	4	3-4	4	3-4	-
0500	-	3-4	3-4	2-3	-	4	-	-	-	4	-	-	-	-	-
0600	4-5	4-5	4	4	-	4	-	4	4	4	4	4-5	4-5	4-5	-
0700	5	-	4-5	-	4	4	-	-	4	4	-	-	-	-	-
0750	-	-	-	-	-	-	-	-	-	-	4-5	4-5	4-5	4-5	-
0800	5	-	5	-	5	4	-	-	4	4	4	4	4-5	4	-
0810	5	-	5	-	5	4	-	-	2-3	4	4	4	4-5	4	-
0900	-	-	-	-	4-5	4	-	-	4	4-5	5	4-5	4-5	4	-
1000	5	-	5	-	5	5	-	-	4-5	4-5	4-5	4-5	4-5	4-5	-
1100	-	-	-	-	5	5	-	-	4-5	4	5	4-5	4	4-5	-
1200	5	-	5	-	4-5	5	-	-	4-5	4-5	4-5	4-5	4	4	-
1300	5	-	5	-	4-5	5	-	-	3-4	4	5	4-5	4	4	-
1400	5	5	5	4-5	-	5	4-5	4-5	4	4	4	4	4	4	-
1450	-	-	-	-	-	-	4	-	-	4	-	-	-	-	-
1460	-	-	-	-	-	3-4	3	-	3-4	3-4	-	-	-	-	-
1500	-	-	-	-	-	-	4	3	3-4	3	4	3-4	3-4	3-4	-
1510	4	3	4	3-4	-	3-4	3	3	3-4	3	4	3-4	3-4	3-4	-
1700	-	-	-	-	-	-	-	-	3	3	-	-	-	-	-
1800	3	3	2-3	3	-	3	3	3	3	3	4-5	3-4	3-4	4	-
1900	4	3	3-4	3-4	-	3	3-4	3	3	3-4	4	3-4	3-4	4	3-4
2000	4	-	4	-	-	4	4	-	3-4	3-4	4-5	3-4	4	4	-
2100	4	-	4	-	-	4	3-4	-	3-4	4	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	4	3	3	2	-
2210	-	-	-	-	-	-	-	-	-	-	4	3-4	3-4	4	-
2300	4	-	4	-	-	-	3-4	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
2450	5	-	5	-	-	4	4	-	4	-	4-5	4	3-4	4	-
2500	5	-	5	-	-	3-4	4	-	4	4	4	3-4	4	4	-
2600	-	-	-	-	-	4	-	-	4	3-4	4	4	4	4	-
2700	5	-	5	-	-	3-4	4	-	3-4	3-4	4	4	4	4	-

Assessment: Reversion to only slightly polluted conditions at Killavullen which is an EC Exchange of Information site and thus sampled every year.

Additional Surveys (2005)

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Doctor's Hill Br	114486	106717	72	CK
0060	Kingwilliamstown Br	115164	103781	72	CK
0075	Newquarter Br	115294	100829	72	KY
0100	Lisheen Br	115976	97496	79	KY
0200	Nohaval Br	117274	94272	79	KY
0300	Duncannon Br	118006	93143	79	KY
0400	U/s Awnaskirtaun R confl	118644	93139	79	CK
0500	D/s Awnaskirtaun R confl	0	0	0	CK
0600	Shamrock Br	122125	93563	79	CK
0700	Charles' Br	124818	94397	79	CK
0750	Ford SW of Dromsicane	126834	92720	79	CK
0800	Keale Br (RHS)	129518	93541	79	CK
0810	Keale Br (LHS)	129518	93541	79	CK
0900	Colthurst Br	132816	95469	79	CK
1000	Ballymaquirk Br	138152	98787	79	CK
1100	1.5km d/s Ballymaquirk Br	139545	99251	79	CK
1200	Roskeen Br	144272	98875	80	CK
1300	Lombardstown Br	146412	96954	80	CK
1400	Longfield's Br	151654	97625	80	CK
1450	2km u/s Rly Br Mallow (LHS)	0	0	0	CK
1460	2km u/s Rly Br Mallow (RHS)	0	0	0	CK
1500	Rly Br, Mallow (LHS)	155040	97910	80	CK
1510	Rly Br, Mallow (RHS)	155040	97910	80	CK
1700	1.5km d/s Mallow Br	157538	98144	80	CK
1800	Ne of Ballymagooly	159473	99156	80	CK
1900	Killavullen Br	164841	99774	80	CK
2000	Ballyhooly Br	172905	98743	80	CK
2100	Cregg Castle	177904	98435	80	CK
2200	Br in Fermoy (LHS)	181219	98556	81	CK
2210	Fermoy Br (RHS)	181227	98557	81	CK
2300	2km d/s Fermoy Br	182523	99572	81	CK
2400	Careysville	185560	99575	81	CK
2450	W of Kilmurphy South	187495	99578	81	CK
2500	Ballyduff Br	196540	99120	81	WD
2600	Lismore Br	204832	98762	81	WD
2700	2km d/s Lismore Br	206647	98827	81	WD

Additional Surveys (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	227	10	0	100	6	50	12	0	6	0	27
0060	191	18	0	100	24	31	15	0	5	0	25
0075	167	39	0	100	38	20	21	0	10	0	12
0100	144	62	0	100	48	14	21	0	7	0	10
0200	127	89	0	100	55	10	16	0	8	0	11
0300	123	117	0	100	56	8	17	1	8	0	10
0400	120	118	0	100	57	8	17	1	8	0	10
0600	108	235	5	95	63	6	18	0	6	0	7
0700	101	249	6	94	63	6	18	0	6	0	7
0750	96	253	6	94	64	5	18	0	6	0	7
0800	89	322	18	82	65	5	16	1	6	0	8
0810	89	322	18	82	65	5	16	1	6	0	8
0900	82	348	18	82	66	5	15	1	7	0	7
1000	69	477	29	71	66	5	12	1	9	0	8
1100	66	867	25	75	66	7	9	1	10	0	7
1200	59	951	23	77	66	7	8	1	12	0	7
1300	55	980	25	75	66	7	8	0	12	0	7
1400	48	1044	25	75	65	7	8	0	14	0	6
1500	46	1178	32	68	65	7	7	1	15	0	6
1510	46	1176	32	68	65	7	7	1	15	0	6
1700	44	1209	31	69	65	6	6	1	15	0	6
1800	42	1223	32	68	65	6	6	1	15	0	6
1900	36	1257	32	68	64	6	6	1	16	0	6
2000	27	1697	30	70	61	8	5	1	19	0	6
2100	23	1738	31	69	61	8	5	1	19	0	6
2200	21	1750	32	68	61	8	5	1	19	0	6
2210	21	1750	32	68	61	8	5	1	19	0	6
2300	20	1755	32	68	61	8	5	1	19	0	6
2400	19	2283	39	61	62	8	6	1	17	0	6
2450	19	2288	39	61	62	8	5	1	17	0	6
2500	10	2334	40	60	62	8	5	1	17	0	6
2600	3	2382	40	60	62	8	5	1	17	0	6
2700	2	2437	42	58	61	8	6	1	17	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.

HYDROMETRIC AREA 30 (Clare (Galway))

CLARE (GALWAY)

30C01

River and Code : **CLARE (GALWAY)**

30/C/01

Tributary of : Lough Corrib

OS Catchment No: 143

OS Grid Ref of Confluence: M 303 314

Date(s) Surveyed: 3/10/2005

Station Nos.	Biological Quality Ratings (Q Values)																				
	1971	1973	1975	1977	1978	1979	1980	1982	1985	1989	1992	1993	1994	1996	1997	1998	1999	2000	2002	2003	2005
0100	4-5	4	-	4	-	-	4	-	3-4	4	-	3	-	3-4	-	-	-	3-4	-	4	-
0300	-	-	-	-	-	-	5	-	4	4	-	3-4	-	3	-	-	-	4	-	4	-
0500	5	5	4	4	4	-	4-5	-	4	4	-	4	-	3	-	-	-	4	-	4	-
0650	3	3	3-4	4	-	4	3-4	3	3	2-3	-	3	-	3	-	-	-	4	-	3-4	-
0700	3-4	3	3-4	4	-	4	4	4	3	3-4	-	3	-	3	-	-	-	3-4	-	4-5	-
0800	4	4	4	4	-	4	4	3-4	4	3-4	3-4	3	3-4	4	4	4	3-4	3	3-4	3-4	3-4
0900	-	-	-	-	-	-	4	3-4	3-4	3-4	-	3-4	-	3-4	-	-	-	4	-	4	-
1000	-	-	-	-	-	-	-	-	-	4	-	4	-	3	-	-	-	4	-	3-4	-
1100	-	-	-	-	-	-	4	-	3-4	4	-	3-4	-	3-4	-	-	-	3	-	4	-
1200	4	-	-	5	-	-	-	-	3-4	4	-	3	-	3	-	-	-	3-4	-	3-4	-
1300	-	-	-	-	-	-	4	-	4	4	-	4	-	4	-	-	-	4	-	4	-

Assessment: The Clare at Corofin Br was slightly polluted again in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1.5 km u/s Milltown	141291	263709	39	GY
0300	Fartamore Bridge	139437	258772	39	GY
0500	Ballygaddy Bridge	142020	253774	39	GY
0650	100 m d/s Weir Br (LHS)	141593	252819	39	GY
0700	Cloonmore Br	140827	249846	46	GY
0800	Corrofin Bridge	142705	243204	46	GY
0900	Dalys Br	141533	240374	46	GY
1000	Lackagh Br	141843	236407	46	GY
1100	Cregmore Bridge	141011	232809	46	GY
1200	Claregalway Bridge	137185	233239	46	GY
1300	Curraghmore Bridge	132111	232828	46	GY

Additional Surveys (2005)

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	42	335	0	100	58	1	21	1	14	0	5
0300	37	424	0	100	60	1	19	0	15	0	4
0500	31	453	0	100	61	1	18	1	15	0	4
0650	29	496	0	100	61	1	18	1	15	0	3
0700	27	514	0	100	61	1	18	1	15	0	3
0800	24	683	0	100	61	1	19	1	14	0	3
0900	22	909	0	100	62	1	18	1	14	0	4
1000	20	931	0	100	62	1	17	1	14	0	4
1100	10	976	0	100	63	1	17	1	15	0	4
1200	8	1056	0	100	65	1	15	1	15	0	3
1300	6	1075	0	100	65	1	15	1	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.

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, spriocdhírthe 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 aistrithe dramhaíola*);
- gníomhaíochtaí tionsclaíocha 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 tionsclaíocha*);
- áiseanna móra stórála peitril;
- 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 dhíriú 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 ídionn 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; leibhéil 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 cheaptha 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 shainaitheint, 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. mórfhleananna forbartha*).

Cosaint Raideolaíoch

- Monatóireacht a dhéanamh ar leibhéil radaíochta, measúnacht a dhéanamh ar nochtadh mhuintir na hÉireann don radaíocht ianúcháin.
- Cabhrú le pleananna náisiúnta a fhorbairt le haghaidh éigeandálaí ag eascairt as taismí 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 chinnnteoireacht 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 ghníomhaíocht á bainistiú ag Bord lánaimseartha, 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 comhaltaí 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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