

Interim Report on the Biological Survey of River Quality

Results of the 2011 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.*

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- 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.

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- 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.

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- 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.

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

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

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- 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.
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- 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.

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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 2011 Macroinvertebrate Investigations

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INTRODUCTION

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

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

National surveys of Irish rivers have been carried out on a continuous basis since 1971 when 2,900 km of river channel was first surveyed. The surveys presently combine general chemical and biological assessments with some 13,200 km of river channel surveyed over each three year

cycle (Clabby *et al.*, 2008, Toner *et al.*, 2005).

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

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

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

The EPA Quality Rating System (Q-Value) has been employed to determine the quality status of the macroinvertebrate communities at river sites across the

country since the 1970s. This system was tested and intercalibrated at European level (2008/915/EC) and was adopted as the official macroinvertebrate classification system for assessing rivers in the Republic of Ireland (Statutory Instrument No. 272 of 2009). The River Hydromorphological Assessment Technique (RHAT) is applied to assess hydromorphology and to differentiate between high and good ecological status sites.

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

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

Biological Assessment

In the presence of pollution, characteristic and well-documented changes are induced in the flora and fauna of rivers and streams. Particularly well-documented are the changes brought about by organic pollution in the macroinvertebrate community, i.e., the immature aquatic stages of aerial insects (mayflies, stoneflies

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

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

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

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

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

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

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

Class B (slightly polluted) waters are mainly characterised by eutrophication and frequently also by some deposition of silt on the substratum; eutrophication is the artificial over-enrichment of waters by phosphorus and/or nitrogen which in rivers may cause excessive growths of rooted plants and filamentous algae. The respiration of these plants may be

sufficient to deplete dissolved oxygen (DO) to such a degree that game fish, especially the young stages, may be killed in extreme circumstances. DO levels can drop significantly at night when photosynthetic activity has ceased.

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

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

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

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

The EPA National Biological Rivers programme is part of the WFD monitoring programme and is carried out over a three year cycle. A total of 1002 survey visits were carried out on 395 rivers and streams in 2011. A total of five hydrometric areas were surveyed in full while ten hydrometric areas were partially surveyed.

The 2011 Interim Biological (aquatic macroinvertebrate) results are presented in Hydrometric Order. The Summary statistics are shown at the end of each Hydrometric Area for the 2010 – 2012 survey period. If a site exhibited serious pollution and improved during the three year cycle period the summary statistics only show the final status. Details of the estimated channel length (km) within each quality class for each river surveyed are presented in tabular form. Trend data detailing the percentage of channel length within each of the four original quality classes (Classes A - D) for past and current cycles are shown. A chart is also presented for the current (2010 – 2012) and previous survey cycle detailing the percentage of channel length for each Hydrometric Area currently classified under the five WFD quality status classes.

Additional information detailing the upstream catchment characteristics including the Corine land use information

are also presented for each station where available. The additional survey results for 2011 are also presented, including Investigative surveys, Exchange of Information surveys and Seriously Polluted site surveys. The Enforcement of Seriously Polluted River Stations Programme commenced in 2007. Any site deemed to be seriously polluted (i.e. Q2-Q1) upon survey, will warrant annual biological surveys and further investigation by the EPA Office of Environmental Enforcement until such time when the condition improves. Once the station improves surveys return to the normal three year survey cycle at the site.

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

References

Clabby, K. J., Bradley, C., Craig, M., Daly, D., Lucey, J., McGarrigle, M., O'Boyle, S., Tierney, D. & Bowman, J., 2008. *Water Quality in Ireland 2004–2006*. Environmental Protection Agency, Wexford.

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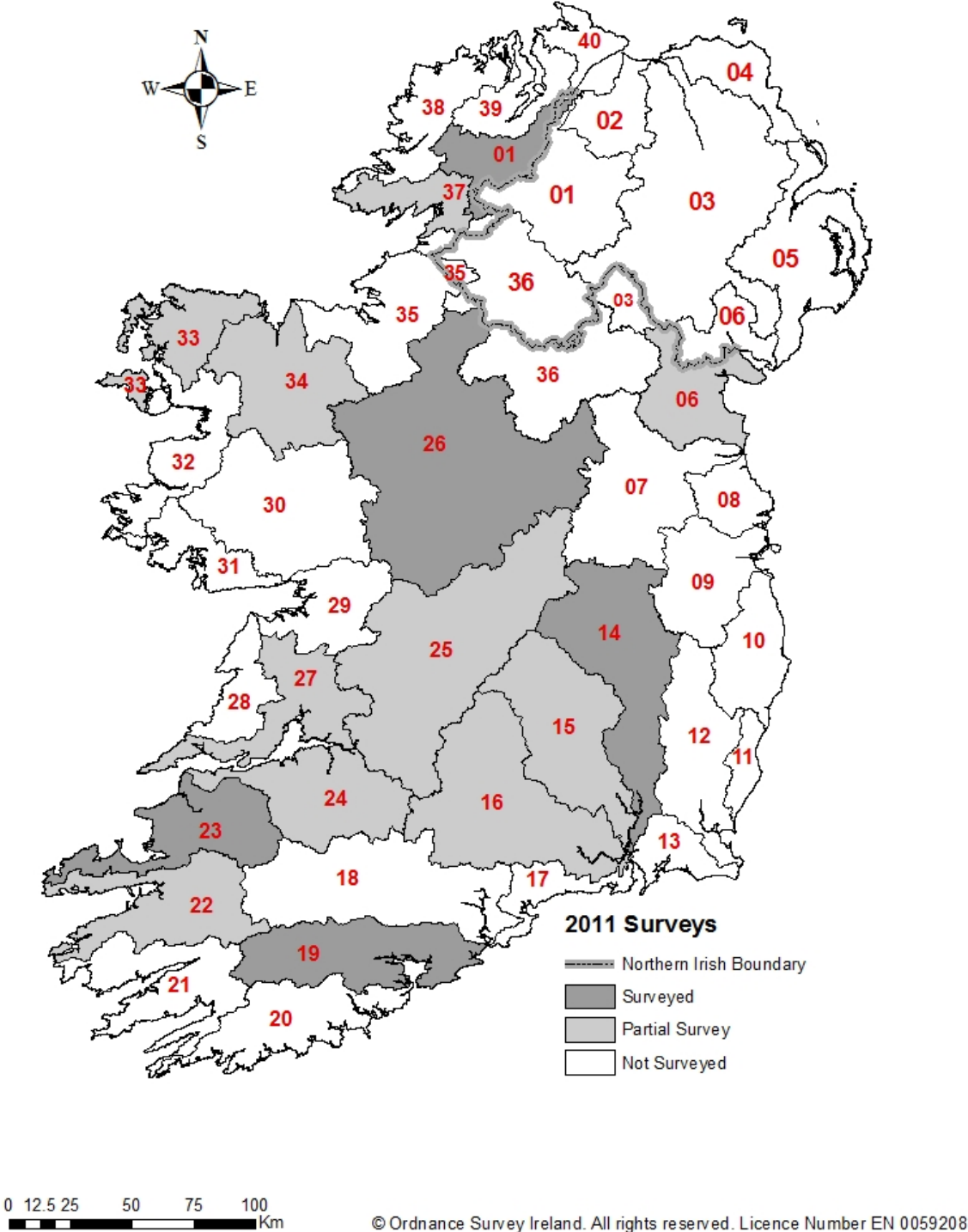
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Table 1: The EPA Q-value classification system and its relationship to water quality

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

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

Principal Hydrometric Areas Surveyed



| HYDROMETRIC AREA 01 (Foyle) | |
|-----------------------------|-------|
| BUNADAOWEN | 01B01 |
| BURN DAURNETT | 01B02 |
| CARRIGANS | 01C01 |
| CLOGHER (FINN) | 01C06 |
| CLOGHROE | 01C05 |
| CROSS ROADS STREAM | 01C04 |
| CUMMIRK | 01C03 |
| DEELE (DONEGAL) | 01D01 |
| ELATAGH | 01E02 |
| FINN (DONEGAL) | 01F01 |
| GREENHILL STREAM * | 01G02 |
| MOURNE BEG | 01M01 |
| REELAN | 01R01 |
| ST JOHNSTON | 01S01 |
| STRANAGOPPOGE | 01S02 |
| # SWILLY BURN | 01S03 |

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

* GREENHILL STREAM Previously part of Carrigans 01C01

River and Code : **BUNADAOWEN**
 Tributary of : 01M01 MOURNE BEG
 OS Grid Ref of Confluence: H 082 879
 Date(s) Surveyed: 26/7/2011

01/B/01

OS Catchment No: 63

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 4* | 3 | 4* | 3 | 3* | 3 | 3 | 3 |

Assessment: The Bunadownen, a tributary of the Mourne Beg, is a very acidic river in a catchment dominated by coniferous forestry plantations. This is characterised by low macroinvertebrate diversity and a paucity of sensitive taxa. No major change in status was noted since the last survey in 2007.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br u/s Mourne Beg confl | 208144 | 387425 | 12 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 151 | 10 | 93 | 7 | 0 | 44 | 30 | 0 | 0 | 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 : **BURN DAURNETT**

01/B/02

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: H 143 944

Date(s) Surveyed: 26/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|-------|------|------|
| | 1975 | 1987 | 1988 | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0010 | - | 4-5 | - | 3 | 3 | 3 | 2-3 | 2-3 | 2-3/0 | 2-3 | 2-3 |
| 0200 | 1/0 | 1-2 | 2-3 | 1 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 3 | 3 |

Assessment: The Burn Daurnett, a tributary of the Finn river, was once again in unsatisfactory ecological condition when sampled in 2011. Heavy siltation, excessive macroalgal growth and lack of sensitive macroinvertebrates characterised the upper site at Blackburn Bridge (0010). Moderate pollution persists in Ballybofey at 0200.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0010 | Blackburn Bridge | 209556 | 391993 | 12 | DL |
| 0200 | Bridge N.W. of Daisy Hill | 213721 | 393806 | 12 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0010 | 104 | 5 | 100 | 0 | 0 | 27 | 63 | 0 | 0 | 0 | 11 |
| 0200 | 23 | 25 | 100 | 0 | 5 | 11 | 25 | 0 | 28 | 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 : **CARRIGANS**
 Tributary of : 01F02 FOYLE
 OS Grid Ref of Confluence: C 370 112
 Date(s) Surveyed: 27/7/2011, 28/7/2011

01/C/01

OS Catchment No: 61

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1979 | 1981 | 1985 | 1990 | 1994 | 1997 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0150 | - | - | - | 3-4 | 3 | 3 | 4 | 3-4 | 3 | 3 | 3 | 3 | 3 |
| 0200 | 3 | 3-4 | 3 | 3-4 | 3 | 2/0 | 3 | 3 | 2-3 | 3 | 2-3 | 2-3 | 2-3 |

Assessment: The Carrigans river remains in unsatisfactory ecological condition in 2011. The macroinvertebrate fauna is dominated by tolerant taxa at both sites (0150 and 0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0150 | Br S Legnaduff | 238055 | 413804 | 7 | DL |
| 0200 | Bridge at Carrigans | 236470 | 411713 | 7 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0150 | 39 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200 | 6 | 35 | 100 | 0 | 56 | 1 | 5 | 0 | 36 | 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 : **CLOGHER (FINN)**

01/C/06

Tributary of : 01R01 REELAN

OS Catchment No: 62

OS Grid Ref of Confluence: H 018 964

Date(s) Surveyed: 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|-------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2008 | 2011 |
| 0025 | - | - | - | - | - | - | - | 3-4 | - |
| 0035 | - | - | - | - | - | - | - | 4 | - |
| 0040 | - | - | - | - | - | - | - | 4 | - |
| 0042 | - | - | - | - | - | - | - | 3-4/0 | - |
| 0044 | - | - | - | - | - | - | - | 3/0 | - |
| 0045 | - | - | - | - | - | - | - | 3-4/0 | - |
| 0050 | - | - | - | - | - | - | - | 3-4/0 | - |
| 0100 | 4-5 | 3-4 | 3-4 | 3 | 3-4 | 3/0 | 3 | 3-4 | 3 |

Assessment: The Clogher (Finn) is a tributary of the Reelan and Finn rivers, and was the subject of an investigation into suspected toxic pollution (primarily sheep dip) in the catchment in 2008. Ecological condition remains unsatisfactory during the current survey although macroinvertebrate diversity has improved, sensitive taxa are still notably absent.

| Station Stations Location | | National | Grid Ref. | Discovery | County |
|---------------------------|---|----------|-----------|------------|--------|
| No. | | X | Y | Series No. | Code |
| 0025 | S Stroangarrow | 200545 | 393846 | 11 | DL |
| 0035 | At Grid Ref: H00781 93927 u/s sheep dip stream confl | 200781 | 393927 | 11 | DL |
| 0040 | At Grid Ref: H00844 93941 Downstream sheep dip stream | 200844 | 393941 | 11 | DL |
| 0042 | At Grid Ref: H 00902 93956 | 200902 | 393956 | 11 | DL |
| 0044 | At Grid Ref: H 01040 93985 | 201040 | 393985 | 11 | |
| 0045 | H01081 93984 150m u/s 0050 . | 201081 | 393984 | 11 | |
| 0050 | Br Sw Letterkillew | 201235 | 394080 | 11 | DL |
| 0100 | Br W Ballykergan | 201750 | 394904 | 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 | 85 | 38 | 49 | 51 | 5 | 9 | 62 | 0 | 1 | 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 : **CLOGHROE**

01/C/05

Tributary of : 01D01 DEELE (DONEGAL)

OS Catchment No: 61

OS Grid Ref of Confluence: C 170 008

Date(s) Surveyed: 20/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0300 | 5 | 4 | - | - | - | - | - | - |
| 0400 | - | - | 5 | 4-5 | 4 | 4 | 3 | 4 |

Assessment: A welcome improvement to satisfactory ecological condition was noted in the Cloghroe River in July 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0200 | Cloghroe Bridge | 214182 | 400009 | 6 | DL |
| 0300 | Callan Bridge | 216310 | 399360 | 6 | DL |
| 0400 | Br d/s Callan Br | 216351 | 400136 | 6 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 116 | 8 | 100 | 0 | 14 | 11 | 58 | 0 | 11 | 0 | 5 |
| 0400 | 72 | 11 | 100 | 0 | 17 | 8 | 45 | 0 | 22 | 0 | 7 |

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

River and Code : **CROSS ROADS STREAM**

01/C/04

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: H 207 935

Date(s) Surveyed: 18/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | - | - | 4 | 4 | 4-5 | 4 | - | 4 |
| 0300 | 4 | 4 | - | - | - | - | - | - |
| 0400 | 2-3 | 3-4 | - | - | - | - | - | - |
| 0500 | - | - | 3-4 | 3-4 | 3-4 | 3 | 3 | 3 |

Assessment: While the Cross Roads stream, a tributary of the Finn, maintained its good ecological status at the upstream site (0200), on-going water quality problems persist downstream (0500).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br at Monellan Ho | 218899 | 391671 | 12 | DL |
| 0300 | Bridge W. of Avaltygort Hill | 219892 | 392865 | 12 | DL |
| 0400 | Bridge at Cross Roads | 219994 | 393201 | 12 | DL |
| 0500 | 0.2 km d/s Br at Cross Roads | 220033 | 393256 | 12 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 65 | 4 | 100 | 0 | 56 | 4 | 24 | 0 | 13 | 0 | 3 |
| 0300 | 25 | 12 | 100 | 0 | 42 | 4 | 18 | 0 | 20 | 0 | 15 |
| 0400 | 17 | 12 | 100 | 0 | 42 | 4 | 18 | 1 | 20 | 0 | 15 |
| 0500 | 16 | 12 | 100 | 0 | 42 | 4 | 18 | 1 | 20 | 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 : **CUMMIRK**

01/C/03

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: B 993 018

Date(s) Surveyed: 19/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 5 | 4 | 4 | 4 | 4-5 | 4-5 | - | 3-4 |
| 0200 | - | - | - | - | - | - | 3 | - |
| 0300 | 4-5 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |

Assessment: Generally unsatisfactory ecological conditions were found in the Cummirk, a tributary of the Finn, in July 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0100 | Cummirk Bridge (Upper) | 198086 | 406366 | 11 | DL |
| 0200 | Br SE Kingarrow | 197670 | 405320 | 0 | DL |
| 0300 | Cummirk Bridge (Lower) | 199540 | 401838 | 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 | 162 | 17 | 63 | 37 | 5 | 11 | 69 | 0 | 0 | 3 | 12 |
| 0300 | 115 | 35 | 82 | 18 | 11 | 6 | 66 | 0 | 0 | 1 | 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 : **DEELE (DONEGAL)**

01/D/01

Tributary of : 01F02 FOYLE

OS Catchment No: 61

OS Grid Ref of Confluence: C 340 002

Date(s) Surveyed: 20/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1980 | 1985 | 1990 | 1994 | 1997 | 1998 | 2001 | 2002 | 2004 | 2007 | 2011 |
| 0040 | - | - | - | - | 5 | 4-5 | 4-5 | 4 | 4-5 | - | 5 | 4-5 | 4 |
| 0200 | - | - | 4-5 | 5 | 4 | - | - | 4-5 | 4 | - | 4-5 | 4 | 4 |
| 0500 | 5 | 3-4 | 5 | 3 | 4-5 | 2-3 | 2-3 | 2-3 | 3 | - | 2-3 | 3 | 4 |
| 0540 | - | - | - | - | - | - | - | 4 | 4 | - | 4 | - | - |
| 0600 | 4-5 | 4 | 4 | 3-4 | 4 | 4-5 | 4 | 4 | 4 | - | 4 | 4 | 4 |
| 0650 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4 | 4 | 4 | - |

Assessment: Good ecological condition was noted at all sites sampled on the Deelee in 2011, for the first time in twenty years. Significant welcome improvement was recorded downstream of Convoy (0500).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0040 | Bridge N. of Aughkeely | 212377 | 402836 | 6 | DL |
| 0200 | 2nd Br d/s Br near Newtown | 216284 | 401428 | 6 | DL |
| 0500 | Bridge 1.5 km S.E. of Convoy | 223102 | 400452 | 6 | DL |
| 0540 | Br S. of Milltown | 224514 | 399628 | 12 | DL |
| 0600 | Ballymonaster Bridge | 227362 | 399086 | 12 | DL |
| 0650 | Bridge in Ballindrait | 230522 | 399805 | 12 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0040 | 144 | 20 | 100 | 0 | 0 | 3 | 71 | 0 | 13 | 1 | 11 |
| 0200 | 77 | 35 | 100 | 0 | 8 | 4 | 58 | 1 | 17 | 1 | 11 |
| 0500 | 19 | 95 | 100 | 0 | 31 | 3 | 32 | 1 | 24 | 0 | 8 |
| 0540 | 10 | 104 | 100 | 0 | 34 | 3 | 29 | 1 | 25 | 0 | 8 |
| 0600 | 8 | 116 | 100 | 0 | 38 | 2 | 26 | 1 | 26 | 0 | 7 |
| 0650 | 5 | 127 | 100 | 0 | 41 | 2 | 24 | 1 | 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 : **ELATAGH**

01/E/02

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: C 021 012

Date(s) Surveyed: 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | - | 3 | 4-5 | 3-4 | 4 | 3 | - | 3 |
| 0200 | 5 | - | - | - | - | - | - | - |
| 0300 | 5 | 4 | 4 | 4-5 | 4-5 | 3 | 3 | 3 |

Assessment: Unsatisfactory ecological conditions persist at both sites on the Elatagh in July 2011. Agricultural and industrial dumping remains a feature of the upstream site (0100) while new bridge works were noted at the lower site (0300).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br N of Stranabrack Lr | 202752 | 404399 | 11 | DL |
| 0200 | Bridge E. of Abratt Lower | 201990 | 403775 | 11 | DL |
| 0300 | Elatagh Bridge | 202010 | 401244 | 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 | 13 | 100 | 0 | 2 | 26 | 57 | 0 | 6 | 0 | 9 |
| 0300 | 100 | 29 | 100 | 0 | 8 | 12 | 58 | 0 | 3 | 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 : **FINN (DONEGAL)**

01/F/01

Tributary of : 01F02 FOYLE

OS Catchment No: 62

OS Grid Ref of Confluence: H 332 980

Date(s) Surveyed: 19/7/2011, 21/7/2011, 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1977 | 1980 | 1984 | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | - | - | - | 5 | 5 | 5 | - | - | - | - | - | - | - |
| 0200 | - | 5 | - | 5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 |
| 0300 | - | - | - | 5 | 5 | 5 | 4-5 | - | - | - | - | - | - |
| 0350 | - | - | - | - | - | - | - | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0400 | 5 | 5 | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 3-4 | 3-4 |
| 0500 | 5 | 5 | 4-5 | 5 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4 | 3-4 | 4 | 4 |
| 0600 | 5 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 5 | 3 | 3 | - | 3-4 |
| 0800 | - | 4 | 3 | 4 | 3-4 | 3 | 3 | 3 | 2 | 4 | 3-4 | 3 | 3-4 |
| 0900 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 3-4 | 3 | 3-4 |
| 0920 | - | - | - | - | - | - | - | - | - | - | 3-4 | 3 | 3 |
| 1000 | - | - | - | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 1100 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | - | 4-5 | 4 | 3-4 | 3 | 3-4 |

Assessment: Unsatisfactory ecological conditions persist over most of the length of the Finn (Donegal) river, in stark contrast to the high quality water observed forty years ago in the 1970's. The two uppermost sites (0200 and 0350) remain in good status, and a welcome addition of new fencing at both sites was noted during the current survey. Although a general trend of improving ecological quality was noted at all downstream sites, sensitive macroinvertebrate taxa were sparse.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bridge S. of Scallan Bridge | 194965 | 403045 | 11 | DL |
| 0200 | Bridge at Bellanamore | 196334 | 402172 | 11 | DL |
| 0300 | Between Cummirk R and Elatagh R | 200400 | 401400 | 11 | DL |
| 0350 | Br 100 m u/s Elatagh R confl | 202000 | 401008 | 11 | DL |
| 0400 | Br S Clonclayagh | 204145 | 398435 | 11 | DL |
| 0500 | Glenmore Br | 208317 | 396322 | 12 | DL |
| 0600 | Bridge 2.5 km u/s Ballybofey | 212475 | 395036 | 12 | DL |
| 0800 | Bridge S. of Stranorlar | 215180 | 394560 | 12 | DL |
| 0900 | Bridge S. of Killygordon | 220587 | 393797 | 12 | DL |
| 0920 | 150M D/S Br S. of Killygordon | 220587 | 393797 | 12 | DL |
| 1000 | Liscooly Bridge | 222976 | 394359 | 12 | DL |
| 1100 | Castlefin Bridge | 226293 | 394582 | 12 | DL |

Hydrometric Area 01 (2011)

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|-----------------|------------|-------------|------------|------------|----------------|-----------------|-------------|--------------|-----------------|--------------|--------------|
| 0100 | 127 | 26 | 84 | 16 | 9 | 3 | 81 | 0 | 2 | 4 | 0 |
| 0200 | 126 | 48 | 91 | 9 | 7 | 5 | 72 | 0 | 6 | 3 | 7 |
| 0350 | 94 | 109 | 90 | 10 | 10 | 5 | 69 | 0 | 3 | 2 | 12 |
| 0400 | 67 | 152 | 93 | 7 | 11 | 6 | 65 | 0 | 3 | 1 | 14 |
| 0500 | 34 | 281 | 87 | 13 | 12 | 7 | 61 | 0 | 4 | 1 | 16 |
| 0600 | 20 | 310 | 88 | 12 | 14 | 7 | 57 | 0 | 4 | 1 | 17 |
| 0800 | 16 | 349 | 89 | 11 | 15 | 7 | 53 | 1 | 7 | 1 | 17 |
| 0900 | 9 | 386 | 90 | 10 | 18 | 7 | 49 | 1 | 9 | 0 | 16 |
| 0920 | 9 | 386 | 90 | 10 | 18 | 7 | 49 | 1 | 9 | 0 | 16 |
| 1000 | 7 | 423 | 91 | 9 | 22 | 7 | 45 | 1 | 9 | 0 | 16 |
| 1100 | 5 | 447 | 92 | 8 | 24 | 7 | 43 | 1 | 10 | 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 : **GREENHILL STREAM****01/G/02**

Tributary of : 01C01 CARRIGANS

OS Catchment No: 61

OS Grid Ref of Confluence:

Date(s) Surveyed: 27/7/2011

Previously part of Carrigans 01C01

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|-------|------|------|------|-------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2002 | 2004 | 2007 | 2008 | 2011 |
| 0100 | 1/0 | 1 | 1-2/0 | 1/0 | 2 | 1-2 | 1-2/0 | 3 | 2-3 |

Assessment: The Greenhill stream remains in unsatisfactory ecological condition in 2011, characterised by low macroinvertebrate diversity and a paucity of sensitive taxa. Agricultural pollution appears to be an ongoing issue here.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Br at Greenhill | 235518 | 412179 | 7 | DL |

River and Code : **MOURNE BEG**

01/M/01

Tributary of : Derg

OS Catchment No: 63

OS Grid Ref of Confluence: H 230 827

Date(s) Surveyed: 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 4 | 4 | 4* | 3-4* | 3-4* | 3-4 | 3* | 3 |
| 0200 | 4 | 4 | 4* | 4* | 4* | 4 | 3* | 3 |

Assessment: Unsatisfactory ecological conditions persist in the Mourne Beg in 2011, characterised by low macroinvertebrate diversity and a paucity of sensitive taxa. The Mourne Beg is an extremely acidic river, further enhanced by the forestry plantations in the catchment.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Red Burn Bridge | 205778 | 389372 | 12 | DL |
| 0200 | Bridge S.W. of Tonreagh | 209995 | 388312 | 12 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 174 | 4 | 65 | 35 | 0 | 22 | 78 | 0 | 0 | 0 | 0 |
| 0200 | 133 | 29 | 90 | 10 | 0 | 26 | 56 | 0 | 0 | 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 : **REELAN**

01/R/01

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: H 042 979

Date(s) Surveyed: 19/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2008 | 2011 |
| 0200 | 5 | 4 | 4-5 | 4 | 4-5 | 3-4 | 3-4 | - | 3-4 |
| 0300 | 5 | - | - | - | - | - | - | 3-4 | - |
| 0500 | 5 | 4-5 | 4 | 3-4 | 4-5 | 3 | 3 | 3-4 | 3-4 |

Assessment: No significant change in ecological condition was observed during the 2011 survey. The Reelan river was the subject of an intensive investigation into ongoing suspected toxic pollution in the catchment in 2008. Sheep dip was the main suspected pollutant under investigation.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0200 | Ford W. of Carrickagh | 197761 | 396488 | 11 | DL |
| 0300 | Bridge E. of Carrickagh | 200510 | 396437 | 11 | DL |
| 0500 | Reelan Bridge | 202343 | 397088 | 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 | 121 | 34 | 78 | 22 | 0 | 3 | 62 | 0 | 3 | 0 | 32 |
| 0500 | 64 | 90 | 70 | 30 | 6 | 7 | 60 | 0 | 2 | 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 : **ST JOHNSTON**

01/S/01

Tributary of : 01F02 FOYLE

OS Catchment No: 61

OS Grid Ref of Confluence: C 351 097

Date(s) Surveyed: 27/7/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1973 | 1977 | 1979 | 1981 | 1985 | 1988 | 1990 | 1994 | 1997 | 1998 | 2002 | 2004 | 2007 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0100 | 4-5 | 4 | 3 | 4 | 2-3 | - | 2-3 | - | - | - | - | - | - | - | - |
| 0200 | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - |
| 0280 | - | - | - | - | 2 | 2 | 1-2 | 3 | 2-3 | 1-2 | 2 | 3 | 2 | 3-4 | 3 |
| 0300 | 3 | 2-3 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - |

Assessment: Unsatisfactory ecological conditions persist in the St. Johnston river in July 2011, although the absence of sewage fungus was a welcome observation.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bridge N. of Magheracloy | 231140 | 408780 | 7 | DL |
| 0200 | Bridge N.E. of Kinnacolly | 233215 | 409535 | 7 | DL |
| 0280 | Second Bridge u/s Foyle River | 234545 | 409924 | 7 | DL |
| 0300 | First Bridge u/s Foyle River | 234814 | 409877 | 7 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0280 | 9 | 23 | 100 | 0 | 49 | 0 | 3 | 0 | 43 | 0 | 4 |
| 0300 | 9 | 23 | 100 | 0 | 49 | 0 | 3 | 0 | 43 | 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 : **STRANAGOPPOGE**

01/S/02

Tributary of : 01F01 FINN (DONEGAL)

OS Catchment No: 62

OS Grid Ref of Confluence: B 963 024

Date(s) Surveyed: 19/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | - | 3-4 | 3-4 | 3-4 | 4-5 | 3-4 | 4 | 3-4 |
| 0200 | 5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 3-4 |

Assessment: An unwelcome decline in ecological condition was observed in the Stranagoppoge in July 2011, with the system now in moderate status throughout its length.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br W Tieveragh | 192954 | 399129 | 11 | DL |
| 0200 | Bridge u/s Finn River confl | 195900 | 402060 | 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 | 183 | 6 | 100 | 0 | 0 | 2 | 66 | 0 | 0 | 0 | 32 |
| 0200 | 138 | 18 | 100 | 0 | 0 | 10 | 63 | 0 | 8 | 2 | 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 : **SWILLY BURN**

01/S/03

Tributary of : 01F02 FOYLE

OS Catchment No: 61

OS Grid Ref of Confluence: C 352 046

Date(s) Surveyed: 20/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1981 | 1985 | 1994 | 1997 | 1998 | 2002 | 2004 | 2007 | 2008 | 2011 |
| 0100 | 5 | 5 | 4-5 | 4 | 3 | 3-4 | 3-4 | 4 | 4 | - | - | - |
| 0200 | 3 | 3 | 3 | 2 | 2-3 | 3 | 2-3 | 3 | 2-3 | 2 | 2 | 2 |
| 0250 | 3-4 | 4 | 4 | 3 | 3 | - | - | - | - | 3 | - | - |
| 0300 | - | - | - | - | - | - | 3 | 2-3 | - | - | - | - |
| 0400 | - | - | - | - | 2 | 3 | - | - | - | - | - | - |

Assessment: Sewage discharge continues to be a feature of the Swilly Burn downstream of Raphoe (0200), and was once again found to be seriously polluted at that location in July 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br NE of Tullyvinny | 224284 | 402134 | 6 | DL |
| 0200 | Br 1.5 km SE of Raphoe S Magheraha | 226411 | 401893 | 6 | DL |
| 0250 | Br Near Massmore | 228700 | 401700 | 6 | DL |
| 0300 | Br due N of Ballindrait | 230351 | 402555 | 7 | DL |
| 0400 | Swilly Br | 232717 | 403819 | 7 | 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 | 5 | 100 | 0 | 63 | 7 | 20 | 0 | 8 | 0 | 3 |
| 0200 | 15 | 11 | 100 | 0 | 69 | 3 | 10 | 4 | 12 | 0 | 2 |
| 0300 | 5 | 36 | 100 | 0 | 72 | 1 | 3 | 2 | 20 | 0 | 2 |
| 0400 | 5 | 48 | 100 | 0 | 71 | 1 | 3 | 1 | 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.

NWIRBD: HYDROMETRIC AREA NO. 01

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|---|-----------|-------|------------|-------------|-------------|-------------|------------|--------------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Bunadaowen | 2011 | 01B01 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 |
| Burn Durnett | 2011 | 01B02 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 6.0 |
| Carrigans | 2011 | 01C01 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 6.0 |
| Clogher (Finn) | 2011 | 01C06 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 |
| Cloghroe | 2011 | 01C05 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Cross Roads Stream | 2011 | 01C04 | 0.0 | 3.0 | 0.0 | 1.0 | 0.0 | 4.0 |
| Cummirk | 2011 | 01C03 | 0.0 | 0.0 | 3.7 | 5.3 | 0.0 | 9.0 |
| Deele (Donegal) | 2011 | 01D01 | 0.0 | 38.0 | 0.0 | 0.0 | 0.0 | 38.0 |
| Elatagh | 2011 | 01E02 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 |
| Finn | 2011 | 01F01 | 0.0 | 20.6 | 27.5 | 3.5 | 0.0 | 51.5 |
| Greenhill Stream | 2011 | 01G02 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Mourne Beg | 2011 | 01M01 | 0.0 | 0.0 | 0.0 | 16.5 | 0.0 | 16.5 |
| Reelan | 2011 | 01R01 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | 15.0 |
| St Johnston | 2011 | 01S01 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 6.0 |
| Stranagappoge | 2011 | 01S02 | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 8.0 |
| Swilly Burn | 2011 | 01S03 | 0.0 | 4.0 | 0.0 | 10.5 | 1.5 | 16.0 |
| Total Length (km) surveyed this cycle | | | 0.0 | 72.6 | 54.2 | 73.8 | 1.5 | 202.0 |
| Adjustments (See below)* | | | 0.0 | -3.5 | -1.0 | 0.0 | 0.0 | -4.5 |
| Current length (km) adjusted | | | 0.0 | 76.1 | 55.2 | 73.8 | 1.5 | 206.5 |
| Percentages | | | 0.0 | 36.8 | 26.7 | 35.7 | 0.7 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline: Current adjusted Status (km) | 2010- '12 | | | 76.1 | 55.2 | 73.8 | 1.5 | 206.5 |
| Percentages | | | | 36.8 | 26.7 | 35.7 | 0.7 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | | | 11 | 69.5 | 42.5 | 82 | 1.5 | 206.5 |
| Percentages | 2007-'09 | | 5.3 | 33.7 | 20.6 | 39.7 | 0.7 | 100 |
| Changes since Previous Survey (Km) | | | -11.0 | 6.6 | 12.7 | -8.2 | 0.0 | 0.0 |

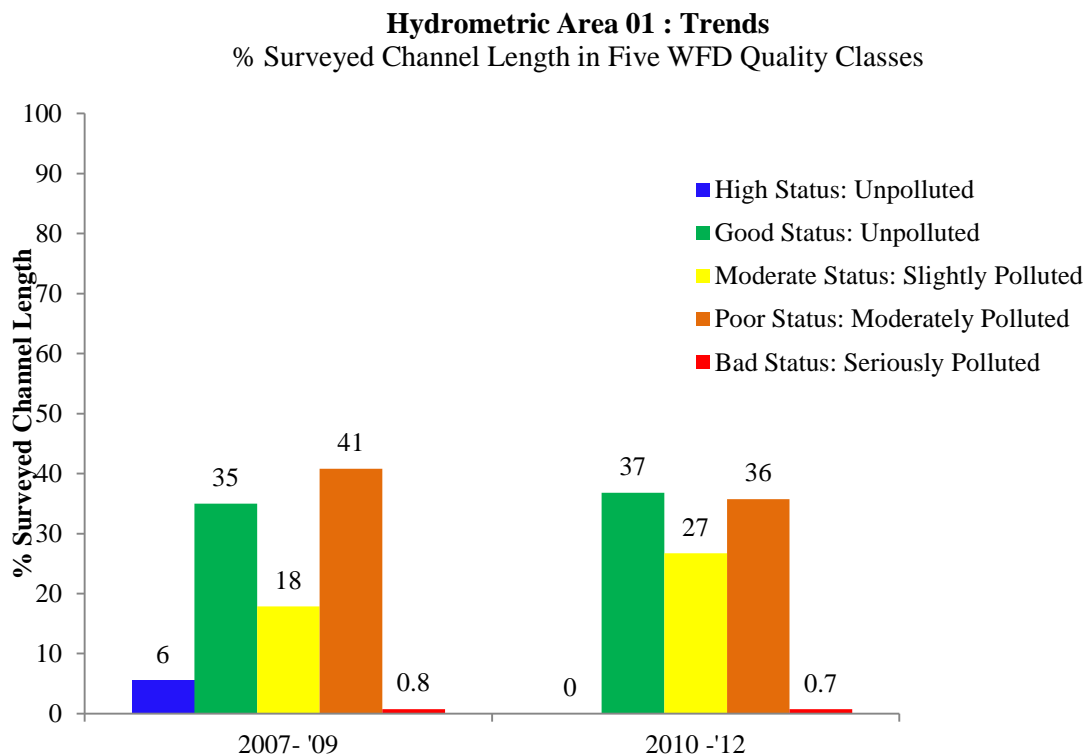
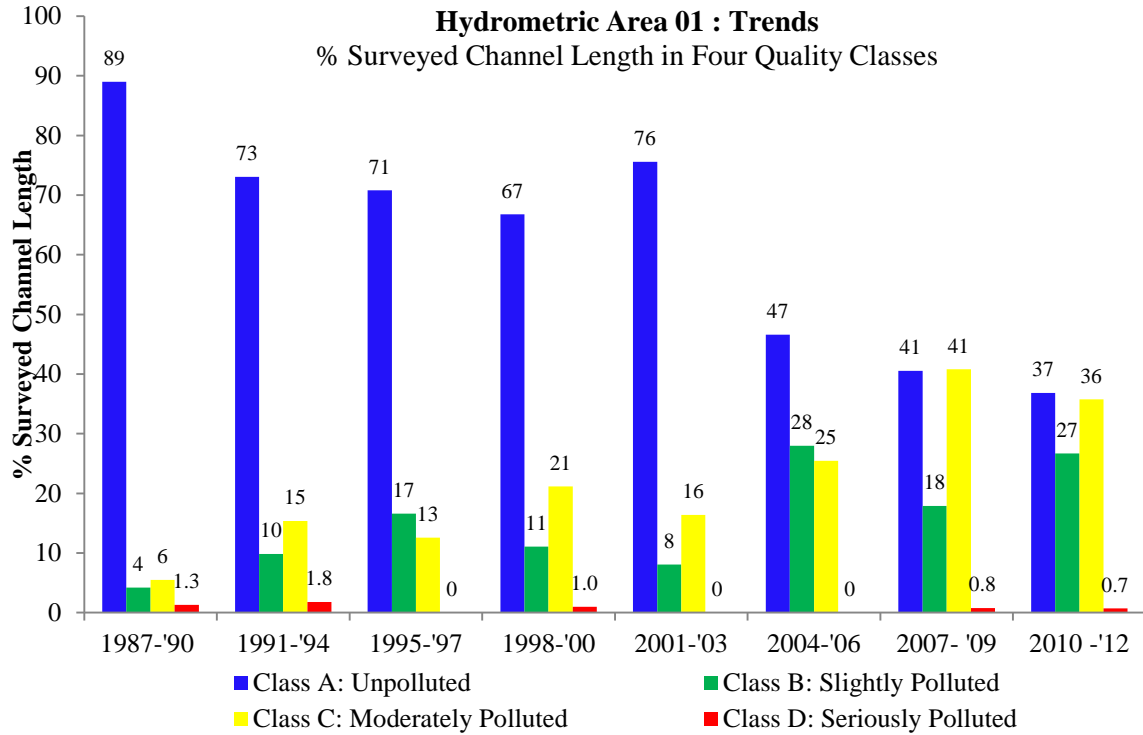
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-): Cronamuck (01C02) & Rough Burn (01R02) not surveyed in 2011

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 1 | 0 |
| Good | 11 | 10 |
| Moderate | 11 | 10 |
| Poor | 22 | 15 |
| Bad | 1 | 1 |
| Total number of sites surveyed | 46 | 36 |
| Total number of sites at unsatisfactory status | 34 | 26 |



HYDROMETRIC AREA 06 (Newry, Fane, Glyde & Dee: Partial Survey)

Partial Survey Only, Balance of Survey in 2012

| | |
|---------------|-------|
| BIG (LOUTH) | 06B01 |
| DEE | 06D01 |
| FLURRY | 06F02 |
| TERMONFECKIN | 06T01 |
| WHITE (LOUTH) | 06W01 |

River and Code : **BIG (LOUTH)**

06/B/01

Tributary of :

OS Catchment No: 90

OS Grid Ref of Confluence: J 168 054

Date(s) Surveyed: 28/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1978 | 1980 | 1982 | 1984 | 1986 | 1990 | 1991 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | - | - | 5 | 5 | 5 | 5 | 5 | 5 | - | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 |
| 0200 | 5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | 3 | - | - | - | - | - | - | - | - |
| 0300 | 1/0 | 1 | 1 | 2 | 1 | 1 | 1-2 | 2 | 2 | 4-5 | 3-4 | 4 | 4 | 3-4 | 3 | 4-5 |
| 0400 | - | - | - | 1-2 | 1/0 | 1/0 | 1/0 | 3 | - | - | - | - | - | - | - | - |

Assessment: A welcome return to highly satisfactory ecological conditions was noted on the Big River when sampled in September 2011, a situation that was last observed in 1994.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Ballygoly Br | 315156 | 309883 | 36 | LH |
| 0200 | Br u/s Riverstown Br | 316323 | 307400 | 36 | LH |
| 0300 | Riverstown Br | 316519 | 306642 | 36 | LH |
| 0400 | 0.5km d/s Riverstown Br | 316778 | 306270 | 36 | LH |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 94 | 11 | 98 | 2 | 34 | 3 | 29 | 0 | 0 | 0 | 33 |
| 0200 | 33 | 24 | 96 | 4 | 46 | 3 | 27 | 0 | 4 | 0 | 20 |
| 0300 | 22 | 25 | 93 | 7 | 46 | 3 | 26 | 0 | 5 | 0 | 20 |
| 0400 | 12 | 25 | 92 | 8 | 46 | 3 | 26 | 0 | 6 | 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 : **DEE**

06/D/01

Tributary of : 06G02 GLYDE

OS Catchment No: 96

OS Grid Ref of Confluence: O 086 935

Date(s) Surveyed: 4/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1977 | 1978 | 1980 | 1983 | 1986 | 1990 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0016 | - | - | - | - | - | - | - | 4-5 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | - |
| 0025 | - | - | - | - | - | - | - | 5 | 4 | 4 | 4 | 4 | 4 | - | - |
| 0030 | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 0035 | - | - | - | - | - | - | - | 4-5 | 3 | 3 | 3-4 | 3 | 3 | 3-4 | - |
| 0150 | - | - | - | - | 3-4 | 4 | - | - | - | - | - | - | - | - | - |
| 0200 | 4 | 3-4 | - | 2-3 | 3-4 | 4 | 4 | 4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3 | - |
| 0300 | 4-5 | 4 | - | 3 | 4 | 4 | 3-4 | 4-5 | - | - | - | - | - | - | - |
| 0360 | - | - | - | - | - | - | - | 4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 | - |
| 0400 | - | - | - | - | 4 | 4 | 3-4 | 4-5 | - | - | - | - | - | - | - |
| 0450 | - | - | - | - | - | - | - | - | 3-4 | 3-4 | 3-4 | 3-4 | 4 | - | - |
| 0500 | - | 4-5 | - | 3 | 4 | 4 | 3-4 | 4-5 | - | - | - | - | - | - | - |
| 0600 | 4-5 | 4 | 3-4 | 4 | 4 | 4-5 | 3-4 | 4-5 | 3-4 | 3 | 4 | 4 | 4 | 4 | 4 |
| 0680 | - | - | - | - | - | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 3-4 | - | - | - |
| 0700 | - | 2 | 3-4 | 3-4 | 3 | 3-4 | 3 | 4 | - | - | - | - | - | - | - |
| 0710 | - | - | - | - | - | - | - | 4 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3 | 3 |
| 0790 | - | - | - | - | - | - | - | - | - | - | - | - | 3-4 | - | - |
| 0800 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | 3-4 | 4-5 | 3 | 3 | 3-4 | 3 | - | - | - |
| 0900 | - | - | - | - | - | - | 3-4 | - | - | - | - | - | - | - | - |
| 0910 | - | - | - | - | 4 | 4 | 3-4 | 4 | - | - | - | - | - | - | - |
| 1000 | 4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 | 3 | 3-4 | 3-4 | 3 |
| 1100 | - | - | - | - | 4 | 4 | 4 | 3-4 | - | - | - | - | - | - | - |

Assessment: The River Dee was sampled at three sites in 2011. Only Burley Bridge (0600) continues to be of satisfactory ecological quality with pollution persisting at Station 0710, and strong evidence of sewage pollution at this location below the town of Ardee. Recent extensive bank and instream habitat works were noted at Drumcar Bridge (1000), coupled with new fencing.

Hydrometric Area 06 (2011)

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------------|------------|-------------|----------------------|-------------|
| 0016 | Br u/s Ervy Lough | 276240 | 294830 | 35 | CN |
| 0025 | Br to N. of Ervy X-Rds | 277250 | 292710 | 35 | MH |
| 0030 | Br u/s Newcastle L | 278698 | 291501 | 35 | MH |
| 0035 | Tom's Br | 279580 | 289130 | 35 | MH |
| 0150 | Wooden Br W of Nobber Br | 281907 | 286754 | 35 | MH |
| 0200 | Deegvee Br | 283040 | 285760 | 35 | MH |
| 0300 | Ballanagirrisk Br | 284466 | 284456 | 35 | MH |
| 0360 | Rockfield Br | 287143 | 285571 | 35 | MH |
| 0400 | Yellow Ford Br | 288539 | 286830 | 35 | MH |
| 0450 | Hem Br | 289630 | 288065 | 35 | MH |
| 0500 | Bogie Br | 291066 | 289447 | 35 | MH |
| 0600 | Burley Br | 292551 | 289685 | 36 | MH |
| 0680 | Dawson's Br | 296593 | 290520 | 36 | LH |
| 0700 | 1.5 km d/s Ardee | 0 | 0 | 0 | |
| 0710 | 150 m d/s Old Rly Br (LHS) | 297279 | 291051 | 36 | LH |
| 0790 | New Br u/s Drumgoolestown Br. (d/s) . | 302862 | 291051 | 36 | LH |
| 0800 | Drumgoolestown Br | 303066 | 290878 | 36 | LH |
| 0900 | Charleville Weir | 0 | 0 | 0 | |
| 0910 | Cappoge Br | 305064 | 290619 | 36 | LH |
| 1000 | Br at Drumcar | 306596 | 291170 | 36 | LH |
| 1100 | At Williamstown House | 307391 | 292195 | 36 | LH |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0016 | 129 | 10 | 100 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0030 | 60 | 19 | 100 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0035 | 51 | 31 | 67 | 33 | 98 | 0 | 0 | 0 | 1 | 0 | 1 |
| 0150 | 48 | 70 | 70 | 30 | 97 | 0 | 0 | 0 | 2 | 1 | 0 |
| 0200 | 47 | 6 | 0 | 100 | 77 | 0 | 0 | 2 | 21 | 0 | 0 |
| 0300 | 43 | 95 | 52 | 48 | 95 | 0 | 0 | 1 | 4 | 0 | 0 |
| 0360 | 39 | 110 | 50 | 50 | 92 | 0 | 0 | 0 | 6 | 0 | 0 |
| 0400 | 35 | 157 | 64 | 36 | 89 | 0 | 0 | 0 | 10 | 0 | 0 |
| 0450 | 31 | 170 | 60 | 40 | 89 | 0 | 0 | 0 | 10 | 0 | 0 |
| 0500 | 28 | 173 | 59 | 41 | 89 | 0 | 0 | 0 | 10 | 0 | 0 |
| 0600 | 26 | 176 | 58 | 42 | 89 | 0 | 0 | 0 | 10 | 0 | 0 |
| 0680 | 23 | 286 | 54 | 46 | 79 | 0 | 0 | 1 | 18 | 0 | 1 |
| 0710 | 22 | 287 | 54 | 46 | 79 | 0 | 0 | 1 | 19 | 0 | 1 |
| 0800 | 13 | 305 | 56 | 44 | 76 | 0 | 0 | 1 | 22 | 0 | 1 |
| 0910 | 10 | 317 | 58 | 42 | 75 | 0 | 0 | 1 | 22 | 0 | 1 |
| 1000 | 10 | 376 | 65 | 35 | 72 | 1 | 0 | 1 | 25 | 0 | 1 |
| 1100 | 8 | 386 | 66 | 34 | 71 | 1 | 0 | 2 | 26 | 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 : **FLURRY**

06/F/02

Tributary of :

OS Catchment No: 91

OS Grid Ref of Confluence: J 075 097

Date(s) Surveyed: 28/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1978 | 1980 | 1982 | 1984 | 1986 | 1990 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 4-5 | 4-5 | 4-5 | 4 | 4 | 3 | 3-4 | 3/0 | 3 | 3 | 3 | 3 | 3-4 |
| 0200 | - | 4-5 | 4-5 | 1/0 | 4 | 3-4 | - | - | - | - | - | - | - |
| 0300 | 4-5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 3 | 3 | 3-4 | - | 3-4 |
| 0400 | 4 | 5 | 5 | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 0600 | 3 | 2 | 1-2 | 2-3 | 2-3 | 3 | 3-4 | 4 | - | - | - | - | - |
| 0700 | - | 3-4 | 1-2 | 3 | 3 | 4 | 3-4 | 4 | 3 | 3 | 3-4 | 3-4 | 4 |

Assessment: A general improvement in ecological condition was noted in the Flurry in 2011, with the upper sites (0100 and 0300) now at moderate status and the lower site (0700) in good status.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Flurry Br | 307242 | 317697 | 29 | LH |
| 0200 | Just W of Ravensdale Ho | 307779 | 316117 | 29 | LH |
| 0300 | Curralhir Br | 308151 | 314457 | 29 | LH |
| 0400 | Thompson's Br | 308686 | 312556 | 29 | LH |
| 0600 | Proleek: Br near old Smithy | 308639 | 311293 | 29 | LH |
| 0700 | Ballymascanlan Br | 308137 | 310098 | 29 | LH |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 94 | 0 | 100 | 0 | 27 | 0 | 0 | 69 | 4 | 0 | 0 |
| 0200 | 77 | 3 | 100 | 0 | 37 | 43 | 0 | 5 | 0 | 0 | 15 |
| 0300 | 62 | 8 | 100 | 0 | 20 | 46 | 11 | 2 | 0 | 0 | 22 |
| 0400 | 40 | 14 | 99 | 0 | 27 | 29 | 13 | 1 | 0 | 0 | 31 |
| 0600 | 21 | 24 | 98 | 2 | 35 | 18 | 17 | 1 | 0 | 0 | 30 |
| 0700 | 5 | 25 | 92 | 8 | 38 | 17 | 16 | 1 | 0 | 0 | 28 |

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

River and Code : **TERMONFECKIN**

06/T/01

Tributary of :

OS Catchment No: 97

OS Grid Ref of Confluence: O 156 804

Date(s) Surveyed: 6/10/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1978 | 1983 | 1986 | 1990 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 4 | - | - | - | - | - | - | - | - | - | - |
| 0200 | 3 | - | - | - | - | - | - | - | - | - | - |
| 0250 | - | 3-4 | 3 | 3 | - | - | - | - | - | - | - |
| 0300 | 4 | - | 4 | 3 | 3 | 3 | - | - | - | - | - |
| 0350 | - | 3-4 | 3 | 3 | - | - | 3* | 3* | 3/0 | 3 | 3 |
| 0400 | - | 3-4 | 3 | 2-3 | 3 | 3/0 | 3-4 | 3-4 | 3-4 | - | 3 |

Assessment: Continuing unsatisfactory conditions recorded in the Termonfeckin stream in 2011. Poor ecological quality was observed at both sites, characterised by the dominance of pollution tolerant macroinvertebrate taxa.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br S of Kiltallagh Ho | 311637 | 282213 | 36 | LH |
| 0200 | Br W of Sandpit Bridge | 309334 | 282213 | 0 | |
| 0250 | Sandpit Br | 311637 | 282098 | 36 | LH |
| 0300 | Channelrow Br | 311580 | 280960 | 36 | LH |
| 0350 | Sandpit Br | 311830 | 282094 | 36 | LH |
| 0400 | Br in Termonfeckin | 313905 | 280448 | 36 | LH |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 34 | 8 | 100 | 0 | 77 | 0 | 0 | 0 | 23 | 0 | 0 |
| 0250 | 36 | 2 | 100 | 0 | 67 | 0 | 0 | 0 | 33 | 0 | 0 |
| 0350 | 33 | 10 | 100 | 0 | 75 | 0 | 0 | 0 | 25 | 0 | 0 |
| 0400 | 15 | 23 | 100 | 0 | 69 | 0 | 0 | 0 | 31 | 0 | 0 |

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

River and Code : **WHITE (LOUTH)**

06/W/01

Tributary of : 06D01 DEE

OS Catchment No: 96

OS Grid Ref of Confluence: O 062 908

Date(s) Surveyed: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1976 | 1978 | 1980 | 1982 | 1986 | 1990 | 1991 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0040 | - | - | - | - | - | - | - | 4 | - | 4-5 | 4-5 | 3-4 | 4 | 4 | 4 | 4 |
| 0080 | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0100 | - | - | - | 3-4 | 4-5 | 3-4 | 4-5 | 4-5 | - | 4 | 4 | 3-4 | 3-4 | - | - | - |
| 0200 | 4 | 3 | 3 | 3-4 | 4 | 4-5 | 4-5 | 4 | - | - | - | - | - | 3-4 | 4 | 3 |
| 0290 | - | - | - | - | - | - | - | 3-4 | - | 3 | 3 | 3-4 | 3-4 | - | - | - |
| 0300 | - | - | - | 2/0 | 3 | 4-5 | 4-5 | 2-3 | - | - | - | - | - | - | - | - |
| 0500 | 2-3/0 | 2-3/0 | 1/0 | 3/0 | 3 | 3/0 | 1/0 | 2 | 2 | 2-3 | 2-3 | 3-4 | 3-4 | 3-4 | 3-4 | 3 |

Assessment: The upper reaches of the White river (0040), upstream of Dunleer, maintained a satisfactory condition in 2011. Disappointingly, ecological condition has slipped to unsatisfactory at Athclare Bridge (0200). The lower reaches at Coneyburrow Bridge (0500) remain unsatisfactory. Cattle access should be restricted and fencing is recommended here.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0040 | Br u/s White River Br | 300889 | 284557 | 36 | LH |
| 0080 | Gibbers Bridge | 303172 | 284927 | 36 | LH |
| 0100 | New Br | 304628 | 285661 | 36 | LH |
| 0200 | Athclare Br | 305896 | 286586 | 36 | LH |
| 0290 | Grangebellew Rd Br Dunleer | 305873 | 287870 | 36 | LH |
| 0300 | Main Rd Br Dunleer | 305753 | 288205 | 36 | LH |
| 0500 | Coneyburrow Br | 305719 | 289280 | 36 | LH |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0040 | 98 | 7 | 100 | 0 | 67 | 8 | 0 | 0 | 26 | 0 | 0 |
| 0080 | 68 | 10 | 100 | 0 | 58 | 6 | 0 | 0 | 36 | 0 | 0 |
| 0100 | 53 | 30 | 100 | 0 | 66 | 4 | 0 | 1 | 29 | 0 | 0 |
| 0290 | 28 | 45 | 100 | 0 | 59 | 3 | 0 | 2 | 37 | 0 | 0 |
| 0300 | 24 | 45 | 100 | 0 | 59 | 3 | 0 | 2 | 37 | 0 | 0 |
| 0500 | 17 | 55 | 100 | 0 | 58 | 2 | 0 | 3 | 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.

| HYDROMETRIC AREA 14 (Barrow) | |
|-------------------------------------|-------|
| AGHALONA | 14A02 |
| ATHY STREAM | 14A06 |
| AUGHAVAUD | 14A04 |
| AUGHNABRISKY | 14A05 |
| AUGHNACREW | 14A07 |
| BALLYMURPHY (BARROW) | 14B21 |
| BALLYNABOLEY STREAM | 14B08 |
| BARROW | 14B01 |
| BLACK (BORRIS) | 14B06 |
| BLACKWATER (LAOIS) | 14B03 |
| BOTHOGHE | 14B04 |
| BURREN | 14B05 |
| CLONCUMBER STREAM | 14C17 |
| CROOKED (STRADBALLY) | 14C02 |
| CUSHINA | 14C04 |
| DAINGEAN | 14D06 |
| DOUGLAS (LAOIS) | 14D03 |
| DUISKE | 14D04 |
| DUNRALLY STREAM | 14D05 |
| ENAGHAN STREAM | 14E02 |
| ESKER STREAM | 14E01 |
| FIGILE | 14F01 |
| FUSHOGHE | 14F03 |
| GLENLAHAN | 14G02 |
| GOWRAN | 14G03 |
| GRANEY (LERR) | 14G07 |
| GRANGECON STREAM | 14G06 |
| GREESE | 14G04 |
| LERR | 14L01 |
| MONEFELIM | 14M03 |
| MOUNTAIN (CARLOW) | 14M01 |
| OLD LEIGHLIN STREAM | 14O02 |
| OWENASS | 14O01 |
| PALATINE STREAM | 14P04 |
| POLLMOUNTY | 14P03 |
| POWERSTOWN | 14P02 |
| SLATE | 14S01 |
| STRADBALLY (LAOIS) | 14S02 |
| TRIOGUE | 14T01 |
| TULLY STREAM | 14T02 |

River and Code : **AGHALONA**
 Tributary of : 14B05 BURREN
 OS Grid Ref of Confluence: S 793 730
 Date(s) Surveyed: 30/8/2011

14/A/02
 OS Catchment No: 183

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1980 | 1982 | 1985 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0050 | - | - | - | 2-3 | 3 | - | - | - | - | - | - |
| 0100 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | - | 3-4 | - | 3-4 |
| 0150 | - | - | - | 3-4 | 3-4 | 3 | 3-4 | 3-4* | 3-4 | - | 3-4 |
| 0200 | 4 | 3-4 | 4 | 4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |

Assessment: Unsatisfactory moderate ecological conditions were evident at all three stations surveyed in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0050 | Br NNW of Straboe | 280900 | 179700 | 61 | CW |
| 0100 | Friarstown Br | 280461 | 177301 | 61 | CW |
| 0150 | Grangeford Br (u/s side) | 281537 | 175144 | 61 | CW |
| 0200 | Br nr Moatalusha House | 280896 | 172839 | 61 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 80 | 17 | 100 | 0 | 47 | 0 | 0 | 0 | 53 | 0 | 0 |
| 0150 | 73 | 21 | 100 | 0 | 38 | 0 | 0 | 2 | 60 | 0 | 0 |
| 0200 | 63 | 28 | 100 | 0 | 35 | 0 | 0 | 2 | 63 | 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 : **ATHY STREAM**

14/A/06

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence:

Date(s) Surveyed: 22/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0200 | 3-4 | 3-4 | 3 | 3-4 | 3* | 3-4 | - | 3-4 |
| 0300 | 3 | 3 | - | - | - | - | - | - |
| 0400 | - | - | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 |
| 0600 | 4 | 4 | - | - | - | - | - | - |

Assessment: The paucity of pollution sensitive macroinvertebrate species continues to indicate unsatisfactory ecological conditions on the Athy Stream at the two stations (0200, 0400) surveyed in 2011. Low dissolved oxygen levels (65% oxygen saturation) were also noted at Inch bridge (0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0200 | Inch Br | 273616 | 194684 | 55 | KE |
| 0300 | Barkersford Br | 270500 | 195000 | 55 | KE |
| 0400 | 1st Br d/s Barkersford Br | 269696 | 195791 | 55 | KE |
| 0600 | Br just u/s Barrow R | 0 | 0 | 55 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 71 | 12 | 32 | 68 | 37 | 0 | 0 | 0 | 61 | 0 | 1 |
| 0400 | 62 | 27 | 15 | 85 | 27 | 1 | 0 | 2 | 69 | 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 : **AUGHVAUD**
 Tributary of : 14B01 BARROW
 OS Grid Ref of Confluence: S 730 378
 Date(s) Surveyed: 5/7/2011

14/A/04
 OS Catchment No: 183

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0300 | 4 | 4 | - | - | - | - | - | - |
| 0400 | 3-4 | 4 | 3-4 | 4 | 3-4 | - | - | - |
| 0600 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |

Assessment: The dominance of sensitive macroinvertebrate species indicated high ecological conditions at St. Mullins (0600) in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0300 | Br u/s Turra Br | 0 | 0 | 68 | CW |
| 0400 | Turra Br | 274449 | 139854 | 68 | CW |
| 0600 | Br at St Mullins | 272954 | 137799 | 68 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0400 | 45 | 23 | 100 | 0 | 62 | 6 | 21 | 0 | 12 | 0 | 0 |
| 0600 | 7 | 31 | 100 | 0 | 62 | 4 | 16 | 0 | 18 | 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 : **AUGHNABRISKY**

14/A/05

Tributary of : 14M01 MOUNTAIN (CARLOW)

OS Catchment No: 183

OS Grid Ref of Confluence: S 782 511

Date(s) Surveyed: 8/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0200 | 4 | 4 | 3-4 | 4 | - | - | - | - |
| 0300 | - | - | - | - | 5 | 4 | - | - |
| 0400 | 4 | 4 | - | - | - | - | - | - |
| 0500 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |

Assessment: Good ecological conditions continue on the Aughnabrisk River, downstream of Moyvally (0500) in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Scullogue Br | 282662 | 147839 | 68 | WX |
| 0300 | Br d/s Sculloge Br | 281840 | 148100 | 68 | CW |
| 0400 | Br NE of Knocknamoyle | 0 | 0 | 68 | CW |
| 0500 | Br just u/s Mountain R confl | 278268 | 151013 | 68 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 190 | 4 | 100 | 0 | 4 | 7 | 69 | 0 | 0 | 0 | 21 |
| 0500 | 84 | 33 | 100 | 0 | 24 | 8 | 42 | 0 | 15 | 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 : **AUGHNACREW**
 Tributary of : 14P03 POLLMOUNTY
 OS Grid Ref of Confluence: S 767 334
 Date(s) Surveyed: 5/7/2011

14/A/07

OS Catchment No: 183

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0300 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 4 | - | 4* |
| 0400 | 3-4 | 3-4 | - | - | - | - | - | - |
| 0500 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 | 4-5 |

Assessment: The Aughnacrew River was in a satisfactory ecological condition when surveyed in July 2011. Good ecological conditions persist at Ballinvegga Bridge although excessive siltation of the instream substratum was noted. The high diversity of sensitive macroinvertebrate fauna indicated high ecological conditions just upstream of the Pollmounty river confluence (0500).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------------|------------|-------------|----------------------|-------------|
| 0300 | Ballyvegga Br | 279119 | 132617 | 68 | WX |
| 0400 | West Br S of Ballywilliam | 0 | 0 | 68 | WX |
| 0500 | Br just u/s Pollmounty R confl | 276216 | 134365 | 68 | WX |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 67 | 14 | 100 | 0 | 63 | 0 | 0 | 0 | 37 | 0 | 0 |
| 0500 | 52 | 32 | 100 | 0 | 61 | 0 | 0 | 0 | 39 | 0 | 0 |

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

River and Code : **BALLYMURPHY (BARROW)**

14/B/21

Tributary of : 14B01 BARROW

OS Catchment No: s

OS Grid Ref of Confluence: S 735 459

Date(s) Surveyed: 8/9/2011

Biological Quality Ratings (Q Values)

Station Nos.

2011

0500

4

Assessment: Good ecological conditions were noted at Ballyroughan Little (0500) on the Ballymurphy River in September 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|--------------------|---------------------------|-------------------|--------------------|-----------------------------|--------------------|
| 0500 | Br Sw Ballyroughan Little | 273982 | 146387 | 68 | CW |

River and Code : **BALLYNABOLEY STREAM**

14/B/08

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 703 678

Date(s) Surveyed: 1/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2011 |
| 0700 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3 | 3-4 |

Assessment: A slight improvement was noted at Orchard Bridge (0700) in 2011 however unsatisfactory ecological conditions persist. The dominance of pollution tolerant macroinvertebrate species, enhanced instream algal growth and excessive siltation of the substratum indicated moderate ecological conditions.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0700 | Orchard Br | 270362 | 167670 | 61 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0700 | 40 | 25 | 55 | 45 | 51 | 0 | 0 | 0 | 49 | 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 : **BARROW**

14/B/01

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 722 388

Date(s) Surveyed: 4/7/2011, 5/7/2011, 17/5/2011, 20/6/2011,

21/6/2011, 24/5/2011, 26/5/2011, 27/6/2011, 28/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1974 | 1975 | 1976 | 1978 | 1979 | 1980 | 1982 | 1986 | 1989 | 1991 | 1994 | 1997 | 2000 | 2003 | 2005 | 2006 | 2007 | 2008 |
| | | | | | | | | | | | | | | | | | | | | |
| 0050 | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | - | 5 | 4-5 | 4-5 | 4-5 | - | 4 | - | 4 |
| 0100 | - | - | - | - | - | - | - | 3-4 | 4-5 | 4 | 3 | - | 3-4 | 4 | 4 | 3-4 | - | 3 | - | 4-5 |
| 0200 | 4 | - | 4 | - | - | - | - | 4 | 4 | 4 | 3-4 | - | 3-4 | 4 | 4 | 3-4 | - | 4 | - | 4 |
| 0300 | 4-5 | - | 3-4 | - | - | - | - | 5 | - | 4 | 4 | - | 4 | 3-4 | 4 | 4 | - | 4 | - | 3-4 |
| 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 | - | 3-4 | - | 3-4 |
| 0550 | - | - | - | - | - | - | - | - | - | - | 3-4 | - | - | - | - | - | - | - | - | - |
| 0600 | 4 | - | 3-4 | - | 4 | 3-4 | - | 4 | - | 4 | 4 | - | 4 | 4 | 3-4 | 3-4 | - | 3-4 | - | - |
| 0700 | 4 | - | 4 | - | - | 4 | - | 4 | 4 | 4-5 | 4-5 | - | 4 | 4 | 4 | 4 | - | 3-4 | - | 3-4 |
| 0760 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - |
| 0780 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| 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 | - | 3-4 | - | 3-4 |
| 1000 | 4-5 | - | 4-5 | - | 4-5 | - | - | 4 | - | 4-5 | 4 | - | 4 | 3-4 | 3-4 | 4 | - | 3-4 | - | 4 |
| 1200 | 4-5 | - | 4-5 | - | - | - | - | 5 | - | 4 | 3 | - | 3 | - | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - | - | 4 | - | 4-5 | 3-4 | - | 4 | - | 3-4 | 3-4 | - | 3 | - | 4 |
| 1400 | 5 | - | 5 | - | - | - | - | 4 | - | 4 | 4 | - | 4 | 4 | 4 | 4 | - | 4 | - | - |
| 1500 | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | - | 4 | 3-4 | 3-4 | 4 | - | 3-4 | - | 3-4 |
| 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 | - | 4 | - | n/s |
| 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 | - | 3-4 | - | 3-4 |
| 2400 | 2 | - | 2 | - | 2 | 2 | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - |
| 2450 | - | - | - | - | - | - | - | - | 3 | 3-4 | 4 | - | 3 | 3 | 3 | 3 | - | - | - | - |
| 2455 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3-4 |
| 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 | - | 4 | - | 3-4 |
| 2680 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3-4 | 3-4 | 4 | - | 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 | - | 4 | - | 4 |
| 2910 | 4 | - | - | 4 | - | - | 3-4 | - | - | 3-4 | 3-4 | - | 4 | 4 | 3-4 | 3-4 | - | 4 | - | - |
| 3000 | - | - | - | - | - | - | - | 4 | 4 | 3-4 | 3-4 | - | 3-4 | 3-4 | 4 | 3-4 | - | 4 | - | - |
| 3100 | 4-5 | - | - | 4 | - | - | 4 | 4 | 4 | 4 | 3 | - | 3-4 | - | - | 3-4 | - | 3-4 | - | 3-4 |
| 3300 | 4-5 | - | - | 4-5 | - | - | 3-4 | 4 | 4-5 | 4 | 4 | - | 4 | - | - | 3-4 | - | 4 | - | 4 |
| 3500 | 4 | - | - | 3-4 | - | - | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 |
| 3600 | 4 | - | - | - | - | - | 4 | - | 4 | 4 | - | - | - | - | - | - | - | - | - | - |

Assessment: Of the twenty three stations surveyed in 2011, thirteen were considered to be in a satisfactory ecological condition. The high diversity of sensitive macroinvertebrate species indicated high ecological conditions in the upper reaches at Tinnahinch Bridge (0050) and near Rearyvalley (0100) in May 2011. A welcome improvement to good ecological conditions was noted at Two Mile Bridge (0300), Portnahinch Bridge (0600), Kilnashown Bridge (0700) and at Spa Bridge (0780) in Portarlinton. The dominance of pollution tolerant macroinvertebrate species and paucity of pollution sensitive species indicated an unwelcome decline in ecological conditions at Rathvinden (2680), downstream of Bagnelstown at Fenniscourt Lock (3000) and downstream of Goresbridge at Ballyteiglea Bridge (3300). Unsatisfactory ecological conditions continue at Borness Bridge (0500), located downstream of the Owenass River confluence and Mountmellick and near Trascan (0900). The dominance of pollution tolerant macroinvertebrate continues to indicate moderate ecological conditions at Bert Bridge (1500) downstream of the Tully River confluence, at New Bridge (2200), downstream of Carlow (2455 and 2600) and at Goresbridge (3100) located downstream of the Gowran and Monefelim River confluences. Once again conditions remain satisfactory at Graiguenamanagh (3500).

Hydrometric Area 14 (2011)

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|--------------------|-------------------------------|-------------------|--------------------|-----------------------------|--------------------|
| 0050 | Tinnahinch Br | 235155 | 210490 | 54 | LA |
| 0100 | Bridge S of Rearyvalley | 236128 | 213025 | 54 | LA |
| 0200 | Ballyclare Br | 238591 | 214722 | 54 | LA |
| 0300 | Twomile Br | 242280 | 211786 | 54 | LA |
| 0400 | Bay Br | 0 | 0 | 54 | LA |
| 0500 | Borness Br | 246396 | 209279 | 54 | LA |
| 0550 | Br SE of Hammerlane | 0 | 0 | 54 | OF |
| 0600 | Portnahinch Br | 249067 | 210029 | 54 | OF |
| 0700 | Kilnashown Br | 251371 | 210753 | 54 | LA |
| 0760 | Barrow Br | 253997 | 212626 | 55 | LA |
| 0780 | Portarlinton: Spa Br | 254267 | 212860 | 55 | LA |
| 0800 | 1km d/s Portarlinton | 0 | 0 | 55 | LA |
| 0850 | D/s Portarlinton STW (RHS) | 256216 | 212270 | 55 | LA |
| 0900 | Ford S of Trasca | 258196 | 212310 | 55 | LA |
| 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 | LA |
| 1400 | Dunrally Br | 263649 | 201794 | 55 | LA |
| 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 | LA |
| 1900 | Tankardstown Br | 270366 | 188203 | 61 | LA |
| 2000 | Maganey Br | 271712 | 184733 | 61 | LA |
| 2150 | Weir near Knockbeg College | 0 | 0 | 61 | LA |
| 2200 | New Br 1km u/s Carlow Br | 272007 | 177797 | 61 | LA |
| 2400 | 1.5km d/s Graigue Br | 0 | 0 | 61 | LA |
| 2450 | At Dolmen Hotel | 270638 | 174158 | 61 | LA |
| 2455 | Br at Dolmen Hotel | 270591 | 174098 | 61 | LA |
| 2500 | d/s Clogrennan Lock | 0 | 0 | 61 | LA |
| 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 |

Hydrometric Area 14 (2011)

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.

River and Code : **BLACK (BORRIS)**

14/B/06

Tributary of : 14M01 MOUNTAIN (CARLOW)

OS Catchment No: 183

OS Grid Ref of Confluence: S 728 480

Date(s) Surveyed: 7/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0200 | 3-4 | 3 | - | - | - | - | - | - |
| 0300 | 3 | 3-4 | - | - | - | - | - | - |
| 0700 | - | - | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0900 | 4 | 4 | - | - | - | - | - | - |
| 1000 | - | - | 4-5 | 4 | 4 | - | - | - |
| 1300 | 4 | 4 | - | - | - | 4-5 | - | - |
| 1380 | - | - | 4-5 | 4-5 | 4 | - | 4 | 4-5 |
| 1400 | 4 | 4 | - | - | - | - | - | - |

Assessment: Satisfactory ecological conditions continue at the two stations surveyed on the Black (Borris) River in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Coolnacuppage Br. (SW of Ballynakill) | 276000 | 158900 | 68 | CW |
| 0300 | Aghline Br | 275800 | 156700 | 68 | CW |
| 0700 | Corries Br | 274968 | 155827 | 68 | CW |
| 0900 | Dunroe Br | 274100 | 154700 | 68 | CW |
| 1000 | Aghnamannoge Br | 273428 | 154565 | 68 | CW |
| 1300 | Kilcloney Br | 273109 | 152749 | 68 | CW |
| 1380 | 1.2 km u/s Br in Borris | 273312 | 151078 | 68 | CW |
| 1400 | Br in Borris | 273400 | 150000 | 68 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0700 | 72 | 32 | 100 | 0 | 55 | 2 | 5 | 0 | 32 | 0 | 5 |
| 1000 | 64 | 40 | 100 | 0 | 54 | 2 | 4 | 0 | 35 | 0 | 5 |
| 1380 | 46 | 46 | 100 | 0 | 54 | 1 | 4 | 0 | 36 | 0 | 4 |

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

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

14/B/03

Tributary of : 14O01 OWENASS

OS Catchment No: 183

OS Grid Ref of Confluence: N 433 057

Date(s) Surveyed: 24/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0400 | - | - | 3-4 | - | - | - | - | - |
| 0500 | 3-4 | 3-4 | - | - | - | - | - | - |
| 0800 | - | - | - | 4-5 | 4 | 3-4 | - | 4* |
| 0900 | 3 | 3-4 | 4 | - | - | - | - | - |
| 1000 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 |

Assessment: Good ecological conditions were evident at the two stations (0800, 1000) surveyed in May 2011, although heavy siltation of the river bed substratum was noted at the upper station (0800).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0400 | Br SE of Camcloon | 239802 | 202485 | 54 | LA |
| 0500 | Br SW of Clonygowan | 0 | 0 | 54 | LA |
| 0800 | Br nr Clontyglass | 242797 | 202551 | 54 | LA |
| 0900 | SW of Clonsoghey | 243988 | 203232 | 54 | LA |
| 1000 | Blackwater Br | 243586 | 205685 | 54 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0400 | 113 | 2 | 100 | 0 | 72 | 0 | 0 | 0 | 28 | 0 | 0 |
| 0800 | 89 | 6 | 46 | 54 | 72 | 0 | 0 | 0 | 27 | 0 | 1 |
| 0900 | 82 | 32 | 15 | 85 | 54 | 3 | 6 | 0 | 27 | 0 | 9 |
| 1000 | 78 | 39 | 14 | 86 | 58 | 3 | 6 | 0 | 25 | 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 : **BOTHOGUE**

14/B/04

Tributary of : 14G04 GREESE

OS Catchment No: 183

OS Grid Ref of Confluence: S 794 936

Date(s) Surveyed: 7/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3 | 3 | 3/0 | 3 | 3-4 | 4 | - | 4-5 |
| 0200 | 3/0 | 3 | - | - | - | - | - | - |
| 0300 | 3/0 | 3-4 | 3/0 | 3-4 | 3-4 | 4 | 4 | 4 |

Assessment: High ecological conditions were evident at Rathtoole Bridge (0100) on the Bothoge River in July 2011. Although the macroinvertebrate fauna continue to indicate good ecological conditions downstream near Timolin (0300), signs of enrichment were evident with excessive instream algal growth, calcification and siltation of the substratum and an elevated dissolved oxygen reading (122% oxygen saturation) noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0100 | Rathtoole Br | 282675 | 192892 | 55 | WW |
| 0200 | Ballycore Br | 0 | 0 | 55 | WW |
| 0300 | Br to S of Timolin | 279928 | 193235 | 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 | 128 | 8 | 100 | 0 | 67 | 4 | 0 | 0 | 29 | 0 | 0 |
| 0300 | 91 | 32 | 100 | 0 | 76 | 2 | 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 : **BURREN**

14/B/05

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 717 765

Date(s) Surveyed: 1/9/2011, 28/6/2011, 30/8/2011, 31/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1980 | 1984 | 1989 | 1993 | 1997 | 2003 | 2006 | 2009 | 2011 |
| 0020 | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 |
| 0060 | - | - | - | 3 | 4 | 2-3 | 3 | 3 | - | 3-4 |
| 0080 | - | - | - | 4 | 4 | - | - | - | - | - |
| 0100 | - | 5 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 |
| 0200 | - | 5 | 4 | 4-5 | 4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 |
| 0300 | - | 4 | 4 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 4 |
| 0400 | 4 | 4 | 4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0485 | - | - | - | - | - | - | 3-4 | 3-4 | 3-4 | 3-4 |
| 0490 | - | - | - | - | - | 3 | - | - | - | - |
| 0500 | 4 | 4 | 4 | 4 | 3-4 | - | - | - | - | - |
| 0510 | - | - | 3 | 4 | 3-4 | - | - | - | - | - |

Assessment: The Burren River was in an unsatisfactory ecological condition at five of the seven stations surveyed in 2011. High ecological conditions were noted in the upper reaches (Coolasnaghta, 0020). The macroinvertebrate fauna also indicated an improvement to good ecological conditions at Rathoe Bridge (0300) however signs of enrichment were still evident with high dissolved oxygen readings (138% oxygen saturation), excessive algal growth and siltation of the substratum noted. Signs of moderate ecological conditions (dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive weed and/or algal growth and excessive siltation) were apparent at all other locations surveyed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0020 | Burren Br Coolasnaghta | 281929 | 156877 | 68 | CW |
| 0060 | Milltown Br | 278822 | 158784 | 68 | CW |
| 0080 | Garryhill Br | 0 | 0 | 61 | CW |
| 0100 | Ullard Br | 279287 | 162876 | 61 | CW |
| 0200 | Ballintrane Br | 279706 | 167716 | 61 | CW |
| 0300 | Rathoe Br | 280786 | 171368 | 61 | CW |
| 0400 | Staplestown Br | 275392 | 174498 | 61 | CW |
| 0485 | Ring Rd Br, Hanover Park Carlow | 272308 | 176362 | 61 | CW |
| 0490 | Shopping Centre Br Carlow | 272115 | 176502 | 61 | CW |
| 0500 | Burren Br (RHS) | 0 | 0 | 61 | CW |
| 0510 | Burren Br (LHS) | 0 | 0 | 61 | CW |

Hydrometric Area 14 (2011)

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|-----------------|------------|-------------|------------|------------|----------------|-----------------|-------------|--------------|-----------------|--------------|--------------|
| 0020 | 164 | 6 | 100 | 0 | 41 | 13 | 47 | 0 | 0 | 0 | 0 |
| 0060 | 108 | 16 | 100 | 0 | 55 | 11 | 19 | 0 | 9 | 0 | 6 |
| 0100 | 86 | 39 | 100 | 0 | 51 | 5 | 8 | 0 | 31 | 0 | 5 |
| 0200 | 81 | 61 | 100 | 0 | 49 | 4 | 5 | 0 | 39 | 0 | 3 |
| 0300 | 65 | 84 | 100 | 0 | 48 | 3 | 4 | 0 | 43 | 0 | 2 |
| 0400 | 58 | 160 | 100 | 0 | 44 | 1 | 2 | 0 | 51 | 0 | 1 |
| 0490 | 50 | 180 | 90 | 9 | 46 | 1 | 2 | 3 | 48 | 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 : **CLONCUMBER STREAM**

14/C/17

Tributary of : 14S01 SLATE

OS Catchment No: 183

OS Grid Ref of Confluence: N 723 233

Date(s) Surveyed: 3/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | - | 3 | 3* | 3-4* | - | - | - |
| 0200 | 3-4 | 3-4 | 3* | 3-4 | 3 | 3-4 | 3-4 |

Assessment: The macroinvertebrate fauna continues to indicate unsatisfactory moderate ecological conditions on the Cloncumber Stream at Old River Bridge (0200) when surveyed in May 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br at Wheelam Crossroads | 275661 | 217505 | 55 | KE |
| 0200 | Old River Br (W) | 274410 | 220978 | 49 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 79 | 32 | 9 | 91 | 48 | 0 | 0 | 19 | 17 | 0 | 16 |
| 0200 | 76 | 44 | 13 | 87 | 51 | 2 | 3 | 14 | 18 | 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 : **CROOKED (STRADBALLY)**

14/C/02

Tributary of : 14S02 STRADBALLY (LAOIS)

OS Catchment No: 183

OS Grid Ref of Confluence: S 569 957

Date(s) Surveyed: 21/6/2011, 22/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0200 | 4 | 4-5 | 4 | 3-4 | 4 | 4-5 | 4 | 4 |
| 0400 | 4 | 4 | - | - | 4 | - | - | - |
| 0600 | 4 | 4 | 3-4 | 3 | 3* | 3-4 | 4 | 3-4* |
| 0800 | - | - | 3-4 | 3-4 | 3-4 | 3 | - | 4 |
| 0900 | 4 | 3-4 | - | - | - | - | - | - |

Assessment: Good ecological conditions were evident in the upper (0200) and lower reaches (0800) of the Crooked (Stradbally) River in 2011. The dominance of pollution tolerant macroinvertebrate species, abundant algal growth and heavy siltation of the instream substratum indicated an unwelcome decline to moderate ecological conditions at Timogue Bridge (0600) in June 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br W of Luggacurren | 258598 | 188759 | 61 | LA |
| 0400 | Blue Br | 0 | 0 | 55 | LA |
| 0600 | Timogue Br | 255408 | 193702 | 55 | LA |
| 0800 | 2nd Br u/s Stradbally R confl | 256041 | 194795 | 55 | LA |
| 0900 | Pole's Br | 256990 | 195585 | 55 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 131 | 5 | 0 | 100 | 89 | 0 | 0 | 0 | 11 | 0 | 0 |
| 0600 | 91 | 28 | 0 | 100 | 73 | 6 | 0 | 0 | 19 | 0 | 2 |
| 0800 | 87 | 31 | 0 | 100 | 72 | 6 | 0 | 0 | 21 | 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 : **CUSHINA**

14/C/04

Tributary of : 14F01 FIGILE

OS Catchment No: 183

OS Grid Ref of Confluence: N 607 157

Date(s) Surveyed: 16/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1985 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0050 | - | - | 3-4 | 3-4 | 3 | 3-4 | 3 | n/a | 3* | 3-4 |
| 0080 | - | - | 3-4 | 3-4 | 3 | 4-5 | 4 | 3-4 | - | 4 |
| 0100 | 4 | 4 | 4-5 | 4-5 | 3-4 | 4 | 4 | 4 | 3-4* | 4 |

Assessment: A welcome improvement to good ecological status was noted in the lower reaches (0080, 0200) of the Cushina River in 2011 however excessive instream siltation and enhanced macrophyte and/ or algal growth continues to indicate some ongoing enrichment. Ecological conditions improved slightly to moderate status downstream of Clonygowan (0050) however further improvements are required in order to reach a satisfactory status.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0050 | Br NE of Clonygowan | 248590 | 216504 | 54 | OF |
| 0080 | Kelly's Br | 253351 | 216341 | 55 | OF |
| 0100 | Cushina Br | 255960 | 216138 | 55 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0050 | 77 | 16 | 0 | 100 | 72 | 4 | 4 | 0 | 15 | 0 | 5 |
| 0080 | 69 | 27 | 0 | 100 | 75 | 3 | 2 | 0 | 12 | 0 | 8 |
| 0100 | 63 | 69 | 0 | 100 | 62 | 3 | 16 | 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 : **DAINGEAN**

14/D/06

Tributary of : 14F01 FIGILE

OS Catchment No: 183

OS Grid Ref of Confluence: N 605 238

Date(s) Surveyed: 5/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1986 | 1989 | 1990 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3-4 | 3-4 | 3-4 | 2-3 | - | 3 | 3 | 2-3 | 2-3 | 2-3 | - | 3 |
| 0200 | 3 | 3 | 3 | 2 | 2 | 2-3 | 2-3 | 2 | 3 | 2-3 | 2-3 | 3 |
| 0400 | 1 | 2 | 3 | 2/0 | 2 | 3-4 | 3 | 3 | 3 | 3-4 | 3 | 3 |
| 0520 | - | - | 3-4 | 3 | - | 3 | 3-4 | 3 | 3-4 | 3 | 3-4 | 3-4* |
| 0600 | - | 3 | 3-4 | - | - | - | - | 4 | 3 | 3 | - | 3-4 |

Assessment: The River Daingean remains in an unsatisfactory ecological condition at all five stations surveyed in May 2011. Poor ecological conditions continue (dominance of pollution tolerant macroinvertebrate species, excessive weed and algal growths, low dissolved oxygen (64% and 66% oxygen saturation) and heavy siltation in the vicinity of Daingean (0100, 0200). Similar conditions were observed downstream near Esker Beg (0400) however dissolved oxygen levels (113% oxygen saturation) were elevated and excessive siltation was recorded. The paucity of sensitive macroinvertebrate species and dominance of pollution tolerant species continues to indicate unsatisfactory moderate ecological conditions in the lower reaches (0520, 0600).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Island Br | 247785 | 226932 | 48 | OF |
| 0200 | Br d/s Island Br | 248366 | 227674 | 48 | OF |
| 0400 | Br E of Mount Lucas House | 252621 | 227635 | 49 | OF |
| 0520 | Agric Br just u/s Esker Rv conflu | 255774 | 227008 | 49 | OF |
| 0600 | 1 km u/s Figile R confl | 259791 | 223342 | 49 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 75 | 28 | 0 | 100 | 50 | 0 | 37 | 0 | 6 | 0 | 6 |
| 0200 | 77 | 35 | 0 | 100 | 58 | 0 | 30 | 2 | 5 | 0 | 5 |
| 0400 | 72 | 47 | 0 | 100 | 58 | 0 | 26 | 2 | 5 | 0 | 8 |
| 0520 | 69 | 50 | 0 | 100 | 60 | 0 | 26 | 2 | 5 | 0 | 8 |
| 0600 | 70 | 159 | 0 | 100 | 51 | 3 | 29 | 1 | 6 | 0 | 10 |

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

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

14/D/03

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 714 825

Date(s) Surveyed: 28/7/2011, 30/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1984 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0040 | - | - | - | - | - | - | - | - | 4 | 4 | 4 |
| 0050 | - | 5 | 4-5 | 4-5 | 4 | - | - | - | - | - | - |
| 0080 | - | - | - | - | - | 4-5 | 3-4 | 3-4 | - | - | - |
| 0090 | - | - | - | 4-5 | 4 | - | - | - | - | - | - |
| 0100 | - | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 |
| 0200 | - | 4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 4 |
| 0300 | 4 | 3 | 3 | 3-4 | 3 | 4 | 3 | 3-4* | n/s | - | - |

Assessment: The Douglas (Laois) river was in a satisfactory ecological condition at all three stations surveyed in 2011. The dominance of sensitive macroinvertebrate species indicated a welcome improvement at Coolanagh (0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------------|------------|-------------|----------------------|-------------|
| 0040 | Shanragh Br (Br u/s Wandesford Br) | 260882 | 184658 | 61 | LA |
| 0050 | Wandesford Br | 0 | 0 | 61 | LA |
| 0080 | Br d/s Wandesford Br | 264191 | 185620 | 61 | LA |
| 0090 | Br u/s Gale's Br | 0 | 0 | 61 | LA |
| 0100 | Gale's Br | 265901 | 186004 | 61 | LA |
| 0200 | Br d/s Gale's Br (Coolanagh) | 268890 | 183898 | 61 | LA |
| 0300 | Grange Br | 271097 | 182299 | 61 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0080 | 86 | 16 | 0 | 100 | 83 | 0 | 0 | 0 | 16 | 0 | 1 |
| 0100 | 70 | 41 | 0 | 100 | 79 | 2 | 0 | 0 | 18 | 0 | 1 |
| 0200 | 58 | 46 | 0 | 100 | 80 | 1 | 0 | 0 | 18 | 0 | 0 |
| 0300 | 50 | 72 | 0 | 100 | 74 | 1 | 0 | 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 : **DUISKE**

14/D/04

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 708 437

Date(s) Surveyed: 4/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1980 | 1982 | 1985 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0050 | - | - | - | 4 | 4 | - | - | - | - | - | - |
| 0100 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | 4 | 4-5 | 4 | - | 4-5 |
| 0200 | 2 | 3 | 3 | 3-4 | 4 | 3 | 3 | 3 | 4 | 4 | 3-4 |

Assessment: High ecological conditions were noted in the upper reaches (0100) of the Duiske River in 2011. The dominance of pollution tolerant macroinvertebrate species indicated an unsatisfactory decline to moderate ecological conditions at Graiguenamanagh (0200) with instream dumping of household rubbish also noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0050 | Br near Raheendonore | 0 | 0 | 68 | KK |
| 0100 | Aghclare Br | 268452 | 144414 | 68 | KK |
| 0200 | Br in Graiguenamanagh | 270911 | 143520 | 68 | KK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 64 | 10 | 100 | 0 | 65 | 12 | 7 | 0 | 12 | 0 | 5 |
| 0200 | 12 | 24 | 100 | 0 | 68 | 7 | 4 | 2 | 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 : **DUNRALLY STREAM**

14/D/05

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 634 023

Date(s) Surveyed: 26/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | - | - | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |
| 0200 | 4 | 3 | 4 | 3-4 | 3-4 | 4 | 3-4 | 4-5 |
| 0400 | 3-4 | 4 | 3-4 | 3-4 | 3* | 4 | 4 | 4 |

Assessment: The Dunrally Stream was in a satisfactory ecological condition when surveyed in May 2011. The increased diversity and abundance of sensitive macroinvertebrate species indicated a welcome improvement in ecological conditions in the upper reaches (0100, 0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br WNW of Garrymaddock | 256358 | 202544 | 55 | LA |
| 0200 | Rossmore Br | 258197 | 203911 | 55 | LA |
| 0400 | Br u/s Barrow R confl | 262941 | 202614 | 55 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 76 | 19 | 0 | 100 | 56 | 0 | 0 | 5 | 39 | 0 | 0 |
| 0200 | 65 | 26 | 0 | 100 | 57 | 1 | 0 | 4 | 38 | 0 | 1 |
| 0400 | 60 | 62 | 0 | 100 | 43 | 9 | 1 | 2 | 40 | 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 : **ENAGHAN STREAM**

14/E/02

Tributary of : Coolnagillagh Stream

OS Catchment No: 183

OS Grid Ref of Confluence: N 531 168

Date(s) Surveyed: 16/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2011 |
| 0100 | - | - | - | 3* | - | - | - |
| 0300 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: The macroinvertebrate community indicated Good ecological conditions at Lord's Bridge (0300) in May 2011, although enhanced instream weed and algal growth indicated some signs of enrichment.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | (East) Br W of Garrymona | 250199 | 219521 | 54 | OF |
| 0300 | Lords Br | 253084 | 216776 | 55 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 77 | 2 | 0 | 100 | 59 | 0 | 30 | 4 | 3 | 0 | 3 |
| 0300 | 68 | 30 | 0 | 100 | 57 | 4 | 18 | 0 | 14 | 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 : **ESKER STREAM**

14/E/01

Tributary of : 14D06 DAINGEAN

OS Catchment No: 183

OS Grid Ref of Confluence: N 558 271

Date(s) Surveyed: 5/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3 | 3-4 | 4 | 4-5 | 3-4 | - | - | - |
| 0200 | 3 | 4 | 4-5 | 4 | 3-4 | 3 | 3-4 | 3-4 |

Assessment: Unsatisfactory ecological conditions continue at Esker Bridge (0200) in May 2011. Signs of enrichment including enhanced weed and algal growth and excessive siltation were observed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Newtown Br | 252987 | 228548 | 49 | OF |
| 0200 | Esker Br | 255900 | 227294 | 49 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 75 | 32 | 0 | 100 | 66 | 2 | 19 | 0 | 6 | 0 | 7 |
| 0200 | 70 | 62 | 0 | 100 | 63 | 2 | 18 | 0 | 8 | 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 : **FIGILE**

14/F/01

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 618 114

Date(s) Surveyed: 4/5/2011, 9/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1975 | 1976 | 1979 | 1986 | 1989 | 1990 | 1993 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0010 | - | - | - | - | 2-3 | - | 3 | - | - | - | - | - | - | - |
| 0050 | - | - | - | - | 2 | 1-2 | 2 | 1 | 1/0 | 1-2 | 2 | 2-3 | 2-3 | 3 |
| 0100 | - | - | - | 3-4 | 3-4 | - | 3-4 | - | 2 | 3 | 3 | 3-4 | 3-4 | 3-4 |
| 0200 | - | - | - | 3-4 | 3 | - | 3-4 | - | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0300 | 3-4 | 4 | 4 | 4 | 4 | - | - | - | 3-4 | 4-5 | 4 | 4 | - | 4 |
| 0400 | - | - | - | 4 | 4 | - | 4 | - | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |
| 0500 | - | 4 | 5 | 4 | 4 | - | 4 | - | 3-4 | 4 | 4 | 3-4 | 3-4 | 4 |
| 0600 | - | - | 5 | 4 | 4 | - | 4 | - | - | - | - | 3-4 | - | - |

Assessment: The dominance of pollution tolerant macroinvertebrate species, enhanced instream plant and algal growth and excessive siltation indicated continued unsatisfactory ecological conditions in the upper reaches (0050, 0100, 0200) of the Figile River in May 2011. The increased diversity and abundance of sensitive macroinvertebrate species indicated good ecological conditions at Clonbulloge (0300), Derrygarran (0400) and Andra Bridge (0500) although the enhanced macrophyte and algal growth continues to indicate some enrichment.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0010 | Dillon's Br | 0 | 0 | 49 | KE |
| 0050 | Ticknevin Br | 269695 | 230157 | 49 | KE |
| 0100 | Cushaling Br | 265101 | 225853 | 49 | OF |
| 0200 | Kilcumber Br | 261057 | 226788 | 49 | OF |
| 0300 | Clonbulloge Br | 260979 | 223490 | 49 | OF |
| 0400 | Derrygarran Br | 261891 | 220896 | 49 | OF |
| 0500 | Andra Br | 259556 | 217964 | 55 | OF |
| 0600 | 1 km u/s Barrow R confl | 262373 | 212078 | 55 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0050 | 80 | 11 | 0 | 100 | 47 | 0 | 35 | 1 | 7 | 0 | 10 |
| 0100 | N/A | 45 | 0 | 100 | 25 | 2 | 57 | 0 | 10 | 0 | 6 |
| 0200 | 69 | 80 | 0 | 100 | 27 | 1 | 60 | 0 | 8 | 0 | 4 |
| 0300 | 67 | 247 | 0 | 100 | 44 | 2 | 39 | 0 | 7 | 0 | 8 |
| 0400 | 66 | 261 | 0 | 100 | 45 | 2 | 39 | 0 | 7 | 0 | 7 |
| 0500 | 60 | 291 | 0 | 100 | 46 | 2 | 36 | 0 | 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 : **FUSHOGE**

14/F/03

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 696 736

Date(s) Surveyed: 1/9/2011, 31/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1986 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0050 | - | - | - | - | - | 4 | 4-5 | 4 | 4-5 | 4-5 | 4-5 |
| 0100 | - | - | - | 4 | 4 | - | - | - | - | - | - |
| 0200 | - | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 0220 | - | - | - | - | - | 3-4 | 3-4 | 4-5 | 4 | - | - |
| 0250 | - | - | - | 4-5 | 3-4 | - | - | - | - | 4 | 3-4* |
| 0290 | - | - | - | - | - | - | - | 4 | 4 | - | 4* |
| 0300 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3 | - | - | - | - |

Assessment: High ecological conditions persist at Strand Bridge (0050) in 2011 although excessive siltation was noted. The dominance of pollution tolerant macroinvertebrate species indicated an unwelcome decline to moderate ecological quality at Rossmore bridge (0250). The abundance of sensitive macroinvertebrate species indicated good ecological conditions in the lower reaches (0290) however excessive siltation was also noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0050 | Strand Br | 265441 | 180437 | 61 | LA |
| 0100 | 1 km SE of Ballickmoyler | 0 | 0 | 61 | LA |
| 0200 | Curragh Br | 0 | 0 | 61 | LA |
| 0220 | Ballykillen Br | 269302 | 177210 | 61 | LA |
| 0250 | Rossmore Br | 269150 | 175651 | 61 | LA |
| 0290 | Fushoge Br | 269650 | 173950 | 61 | LA |
| 0300 | Clogrenan Br | 269679 | 173962 | 61 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0050 | 95 | 8 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0220 | 59 | 23 | 0 | 100 | 95 | 0 | 0 | 0 | 5 | 0 | 0 |
| 0300 | 49 | 40 | 0 | 100 | 89 | 3 | 0 | 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 : **GLENLAHAN**

14/G/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 347 110

Date(s) Surveyed: 17/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0300 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4 |

Assessment: The macroinvertebrate fauna indicated a slight decline from high to good ecological conditions on the Glenlahan River in May 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0300 | Clarahill Br | 234580 | 210808 | 54 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 100 | 11 | 100 | 0 | 21 | 32 | 43 | 0 | 0 | 0 | 4 |

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

River and Code : **GOWRAN**

14/G/03

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 682 540

Date(s) Surveyed: 6/9/2011, 7/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1980 | 1985 | 1989 | 1990 | 1993 | 1997 | 2000 | 2003 | 2006 | 2007 | 2009 | 2011 |
| 0010 | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 0020 | - | - | - | 2-3 | - | 4 | 4-5 | 3 | 2 | 4-5 | - | 4-5 | 4 |
| 0050 | - | 5 | 3 | 2-3 | - | 3-4 | 4 | 4 | 4 | 3-4 | - | - | 4 |
| 0100 | - | - | - | 4 | - | 4 | 3 | 3 | 3-4 | 3-4 | - | 3-4 | 3-4 |
| 0200 | 4 | 4 | 4 | 4 | - | 3 | - | - | - | - | - | - | - |
| 0220 | - | - | - | - | - | - | 3 | 4 | 3 | 4 | - | - | 3-4 |
| 0300 | - | - | - | 4 | - | 4 | 3 | 3 | 3 | 3-4 | - | 3-4 | 4 |
| 0400 | - | - | 3-4 | 2 | 2-3 | 3 | 3 | 3 | 2-3 | 2 | 2-3 | 2-3 | 2-3 |

Assessment: Good ecological conditions continue in the upper reaches (0020, 0050) however the macroinvertebrate fauna indicated a decline from high to good at Freneystown (0020). The paucity of sensitive macroinvertebrate species and dominance of pollution tolerant species coupled with excessive instream plant and/ or algal growth continues to indicate moderate ecological conditions in the vicinity of Gowran (0100, 0220). The macroinvertebrate fauna indicated an improvement north of Goresbridge (0300) however the enhanced plant and algal growth indicates some enrichment. Poor ecological conditions continue in the vicinity of Red Mill (0400) where the complete lack of pollution sensitive species and dominance of pollution tolerant species indicated significant ecological disruption.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0010 | Br SE of Ossoryhill | 0 | 0 | 61 | KK |
| 0020 | Br E of Freneystown | 259787 | 159266 | 67 | KK |
| 0050 | Br S of Blanchvillespark | 260907 | 155563 | 68 | KK |
| 0100 | Br at W side of Gowran | 262854 | 153201 | 68 | KK |
| 0200 | Goat's Br | 0 | 0 | 68 | KK |
| 0220 | 1st Br d/s Goat's Br | 265443 | 153327 | 68 | KK |
| 0300 | Br N of Goresbridge (S Channel) | 268220 | 153896 | 68 | KK |
| 0400 | Br at Red Mill (N Channel) | 268153 | 154292 | 68 | KK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0020 | 130 | 7 | 0 | 100 | 97 | 3 | 0 | 0 | 0 | 0 | 0 |
| 0050 | 77 | 17 | 0 | 100 | 96 | 1 | 0 | 0 | 1 | 0 | 1 |
| 0100 | 57 | 30 | 0 | 100 | 76 | 1 | 0 | 0 | 23 | 0 | 1 |
| 0220 | 43 | 39 | 0 | 100 | 75 | 1 | 0 | 2 | 21 | 0 | 0 |
| 0300 | 27 | 42 | 0 | 100 | 74 | 1 | 0 | 3 | 23 | 0 | 0 |
| 0400 | 30 | 0 | 0 | 100 | 56 | 0 | 0 | 0 | 44 | 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 : **GRANEY (LERR)**

14/G/07

Tributary of : 14L01 LERR

OS Catchment No: 183

OS Grid Ref of Confluence: S 784 850

Date(s) Surveyed: 6/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3 | 3 | 3 | 3 | - | - | - | - |
| 0200 | 3 | 4 | 3-4 | 3 | 3 | 3-4 | 3 | 4 |
| 0310 | 4 | 4 | 4 | 3 | 3-4 | 3-4 | - | 3-4 |

Assessment: The macroinvertebrate community indicated a welcome improvement to good ecological conditions at Graney (0200) in July 2011, although enhanced instream plant growth and excessive siltation were noted. Moderate ecological conditions continue downstream (0310) where excessive algal growth was also observed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0100 | Miller's Br | 284414 | 185411 | 61 | WW |
| 0200 | Br in Graney | 281714 | 183963 | 61 | KE |
| 0310 | Just u/s Lerr R confl | 278610 | 185019 | 61 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 113 | 6 | 100 | 0 | 86 | 0 | 0 | 0 | 14 | 0 | 0 |
| 0200 | 93 | 19 | 100 | 0 | 76 | 0 | 0 | 0 | 23 | 0 | 1 |
| 0310 | 72 | 63 | 100 | 0 | 59 | 0 | 0 | 0 | 39 | 0 | 2 |

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

River and Code : **GRANGECON STREAM**

14/G/06

Tributary of : 14G04 GREESE

OS Catchment No: 183

OS Grid Ref of Confluence: S 833 978

Date(s) Surveyed: 30/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 4-5 | 4 | 4 | 3-4 | 4 | 4 | - | 4* |
| 0400 | 4 | 4 | 4 | - | 3-4 | 4 | 3-4 | 4* |

Assessment: Satisfactory ecological conditions were noted in the upper (0100) and lower reaches (0400) of the Grangecon stream in June 2011 although some continuing signs of enrichment including enhanced instream algal growth and excessive siltation were noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0100 | Ardsillish Br | 286270 | 195494 | 55 | WW |
| 0400 | Br SE of Ballynure | 283630 | 196749 | 55 | WW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 146 | 8 | 100 | 0 | 86 | 3 | 0 | 0 | 11 | 0 | 0 |
| 0400 | N/A | 2 | 100 | 0 | 40 | 34 | 0 | 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 : **GREESE**

14/G/04

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 712 830

Date(s) Surveyed: 7/7/2011, 30/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1985 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0040 | - | - | - | 3-4 | 4 | 3-4 | - | - | - | - | - |
| 0050 | - | - | - | - | - | - | 3 | 3 | 2-3 | 3 | 3 |
| 0070 | - | - | - | 1 | 2-3 | 2 | 2 | 3 | 2-3 | 3 | 3 |
| 0100 | - | 4 | 4 | 4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 4 |
| 0200 | - | 4 | 3-4 | 3 | 3-4 | 3 | 3 | 3 | 3-4 | 3 | 3-4 |
| 0300 | - | 4 | 3-4 | 3 | 3-4 | - | - | - | - | - | - |
| 0350 | - | 4 | 3-4 | 3-4 | 4 | 3-4 | 3 | 3 | 3 | 3 | 4 |
| 0400 | - | 4 | 3 | 3-4 | 4 | 3-4 | 3-4 | 3 | 3-4 | 3 | 3 |
| 0500 | - | 4 | 4 | 4 | 3-4 | 3-4 | 3 | 3 | - | 3-4 | - |
| 0600 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | - | 3-4 |

Assessment: The majority of stations surveyed on the Greese River remained in an unsatisfactory ecological condition in July 2011. Poor ecological conditions continue downstream of Dunlavin (0050, 0070) and downstream of Kilkea (0400). A welcome improvement to good ecological conditions was noted at Spratstown Bridge (0100) and Belan Bridge (0350) however enhanced plant and /or excessive algal growth and high dissolved oxygen readings (114% and 133% oxygen saturation) indicated some enrichment. A slight improvement to moderate ecological conditions was observed downstream of Ballitore (0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0040 | N Br Naas Rd Dunlavin | 287400 | 202200 | 55 | WW |
| 0050 | Br NE of Milltown | 286377 | 201613 | 55 | WW |
| 0070 | Br NW of Cross Keys | 286164 | 201087 | 55 | WW |
| 0100 | Spratstown Br | 282424 | 198042 | 55 | KE |
| 0200 | Br d/s Ballitore Br | 279834 | 195747 | 55 | KE |
| 0300 | Moone Br | 0 | 0 | 55 | KE |
| 0350 | Belan Br | 277550 | 190633 | 55 | KE |
| 0400 | Kilkea Br | 274554 | 188305 | 61 | KE |
| 0500 | Levitstown Br | 272928 | 184954 | 61 | KE |
| 0600 | Greese Br u/s Barrow R confl | 271695 | 182946 | 61 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0040 | N/A | 3 | 100 | 0 | 98 | 0 | 0 | 0 | 2 | 0 | 0 |
| 0050 | 136 | 7 | 100 | 0 | 91 | 0 | 0 | 5 | 3 | 0 | 0 |
| 0070 | 132 | 10 | 100 | 0 | 93 | 0 | 0 | 4 | 2 | 0 | 0 |
| 0100 | 107 | 35 | 100 | 0 | 75 | 3 | 0 | 5 | 18 | 0 | 0 |
| 0200 | 95 | 51 | 100 | 0 | 74 | 2 | 0 | 3 | 20 | 0 | 0 |
| 0350 | 79 | 105 | 98 | 2 | 73 | 1 | 0 | 2 | 24 | 0 | 0 |
| 0400 | 69 | 129 | 88 | 12 | 66 | 1 | 0 | 2 | 31 | 0 | 0 |
| 0500 | 59 | 134 | 87 | 13 | 64 | 1 | 0 | 2 | 32 | 0 | 0 |
| 0600 | 50 | 138 | 86 | 14 | 63 | 1 | 0 | 2 | 34 | 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 : **LERR****14/L/01**

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 714 815

Date(s) Surveyed: 6/7/2011

| Station Nos. | 1976 | 1980 | 1985 | 1989 | 1993 | 1997 | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | | | | | | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0080 | - | - | - | - | - | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0100 | - | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 0150 | - | - | - | 3 | 3 | 3 | - | - | - | - | - |
| 0155 | - | - | - | - | - | - | 3 | 3 | 4 | 3* | 3-4 |
| 0200 | - | 4 | 4 | 3-4 | 3 | - | - | - | - | - | - |
| 0250 | - | - | - | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 | - | 3-4 |
| 0300 | 4-5 | 4 | 4 | 4 | 3-4 | 3-4 | 3 | 3 | 3-4 | 3-4 | 3-4 |

Assessment: The Lerr River was in an unsatisfactory ecological condition at all four stations surveyed in July 2011. Signs of enrichment including a paucity of pollution sensitive macroinvertebrate species, enhanced weed and algal growth, elevated dissolved oxygen levels, calcification and excessive siltation of the riverbed substratum were evident.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0080 | The Green Br | 278562 | 185386 | 61 | KE |
| 0100 | Doyle's Br | 278300 | 184700 | 61 | KE |
| 0150 | Br E of Woodlands House | 276825 | 184177 | 61 | KE |
| 0155 | Agric Br at Halfmiletown | 276822 | 184174 | 61 | KE |
| 0200 | Br W of Prumplestown House | 275934 | 183183 | 61 | KE |
| 0250 | Ballaghmoon Br | 274255 | 181486 | 61 | KE |
| 0300 | Lerr Br | 271808 | 181498 | 61 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0080 | 73 | 26 | 100 | 0 | 51 | 0 | 0 | 0 | 46 | 0 | 3 |
| 0150 | 68 | 70 | 100 | 0 | 55 | 0 | 0 | 1 | 42 | 0 | 2 |
| 0155 | 68 | 70 | 100 | 0 | 56 | 0 | 0 | 1 | 42 | 0 | 2 |
| 0250 | 56 | 103 | 98 | 2 | 50 | 0 | 0 | 1 | 48 | 0 | 1 |
| 0300 | 50 | 112 | 95 | 5 | 50 | 0 | 0 | 0 | 49 | 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 : **MONEFELIM**

14/M/03

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 685 555

Date(s) Surveyed: 6/9/2011, 7/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 4 | 4 | 5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0300 | - | - | 5 | 4-5 | 5 | - | - | - |
| 0600 | 4 | 4 | - | - | - | 3-4 | 4 | 4 |
| 0800 | - | - | 3 | 4 | 3-4 | - | - | - |
| 0900 | 4 | 3-4 | - | - | - | - | - | - |
| 1000 | 4 | 4 | 3 | 4 | 3-4 | 4 | 3-4 | 3-4 |

Assessment: Satisfactory ecological conditions persist at Castlewarren Bridge (0100) and in the Garryduff area (0600) on the Monefelim River in September 2011 although excessive siltation was noted. Downstream the paucity of pollution sensitive macroinvertebrate species coupled with excessive algal growths, siltation and elevated dissolved oxygen levels (113% oxygen saturation) again indicated moderate ecological conditions at the bridge (1000) located upstream of the River Barrow confluence.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Castlewarren Br | 261047 | 160893 | 61 | KK |
| 0300 | Br SE of Ballyvalden (100m d/s) | 262946 | 158668 | 68 | KK |
| 0600 | Br SW of Garryduff Crossroads | 264223 | 157768 | 68 | KK |
| 0800 | Br d/s Monefelim Br | 266584 | 156494 | 68 | KK |
| 0900 | Barraghcore Br | 0 | 0 | 68 | KK |
| 1000 | Br u/s Barrow R confl (u/s side) | 268471 | 155575 | 68 | KK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 145 | 10 | 0 | 100 | 73 | 1 | 0 | 0 | 0 | 0 | 26 |
| 0300 | 80 | 15 | 0 | 100 | 76 | 1 | 0 | 0 | 0 | 0 | 24 |
| 0800 | 41 | 49 | 0 | 100 | 75 | 2 | 0 | 1 | 11 | 0 | 11 |
| 1000 | 29 | 55 | 0 | 100 | 73 | 2 | 0 | 1 | 14 | 0 | 10 |

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

River and Code : **MOUNTAIN (CARLOW)**

14/M/01

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 733 499

Date(s) Surveyed: 8/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0020 | - | - | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4-5 |
| 0040 | - | - | 4 | 4 | - | - | - | - | - | - |
| 0050 | - | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | - | - | - |
| 0070 | - | - | 4-5 | 4-5 | 5 | 4 | 5 | 4 | 4 | 4-5 |
| 0100 | 5 | 4-5 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0200 | 5 | 4 | 3-4 | 4 | 4-5 | 4 | - | - | 4 | - |

Assessment: The abundance and diversity of sensitive macroinvertebrate species indicated high ecological conditions at the two stations (0020, 0070) surveyed on the Mountain (Carlow) River in September 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0020 | Br u/s Killedmond Br | 279559 | 152135 | 68 | CW |
| 0040 | Just u/s Aughnabrisk R confl | 0 | 0 | 68 | CW |
| 0050 | Br W of Killedmond | 276930 | 151603 | 68 | CW |
| 0070 | Brook Lodge | 274424 | 151004 | 68 | CW |
| 0100 | Ballycoppigan Br | 273437 | 149877 | 68 | WD |
| 0200 | Just u/s Barrow R confl | 272971 | 149455 | 68 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0020 | 120 | 6 | 100 | 0 | 15 | 27 | 43 | 0 | 7 | 0 | 8 |
| 0050 | 62 | 38 | 100 | 0 | 26 | 7 | 37 | 0 | 20 | 0 | 11 |
| 0070 | 45 | 45 | 100 | 0 | 33 | 6 | 31 | 0 | 19 | 0 | 11 |
| 0100 | 35 | 52 | 100 | 0 | 37 | 5 | 27 | 0 | 22 | 0 | 9 |
| 0200 | 33 | 102 | 100 | 0 | 47 | 3 | 15 | 1 | 28 | 0 | 7 |

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

River and Code : **OLD LEIGHLIN STREAM**

14/O/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 690 647

Date(s) Surveyed: 1/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0300 | 2-3 | 3-4 | 4 | 3-4 | - | - | - | - |
| 0400 | - | - | 4-5 | 4 | - | - | - | - |
| 0500 | - | - | 4-5 | - | 4-5 | 4 | - | 4-5 |
| 0700 | 4 | 3 | 4 | 3-4 | 3-4 | 3-4 | 3-4* | 3-4 |

Assessment: The macroinvertebrate fauna indicated high ecological conditions at Old Leighlin (0500) in September 2011. The dominance of pollution tolerant macroinvertebrate species, abundant plant and algal cover and elevated dissolved oxygen readings (153% oxygen saturation) again indicated enriched moderate ecological conditions at Madlin Bridge (0700).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0300 | Ballynolan Br | 268347 | 165090 | 61 | CW |
| 0400 | Br in Old Leighlin | 265981 | 165347 | 61 | CW |
| 0500 | Br at E side of Old Leighlin | 266205 | 165375 | 61 | CW |
| 0700 | Madlin Br | 268738 | 164563 | 61 | CW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 47 | 12 | 0 | 100 | 85 | 6 | 0 | 0 | 4 | 0 | 4 |
| 0400 | 83 | 7 | 0 | 100 | 83 | 10 | 0 | 0 | 0 | 0 | 7 |
| 0500 | 78 | 7 | 0 | 100 | 84 | 10 | 0 | 0 | 0 | 0 | 6 |
| 0700 | 42 | 20 | 0 | 100 | 88 | 4 | 0 | 0 | 5 | 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 : **OWENASS**

14/O/01

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 462 093

Date(s) Surveyed: 24/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1976 | 1978 | 1980 | 1984 | 1986 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0050 | - | - | - | - | 5 | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | n/s | 4 | - |
| 0100 | 5 | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 4 | 4 | - | - | - | - | - | - |
| 0120 | - | - | - | - | - | - | - | - | - | 5 | 5 | 4-5 | 3 | 3-4 | 4-5 |
| 0180 | - | - | - | - | - | - | - | 4 | 3-4 | - | - | - | - | - | - |
| 0200 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 3-4 | - | - | - | - | - | - |
| 0220 | - | - | - | - | - | - | - | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 3 | 3-4 | 4-5 |
| 0300 | 2 | 2 | 1-2 | 1-2 | 3 | 2 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 2-3 | 3-4 | 3-4* |

Assessment: The high abundance and diversity of sensitive macroinvertebrate species indicated a welcome improvement from moderate to high ecological conditions at Barkmill (0120) and at Mountmellick (0220) in May 2011. Improved diversity of sensitive macroinvertebrate species was noted downstream of Mountmellick (0300), however the continued dominance of pollution tolerant species indicated moderate ecological conditions again in the lower reaches. Heavy siltation of the instream substratum was also noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0050 | Cathole Br | 237703 | 204894 | 54 | LA |
| 0100 | Br W of Barkmill | 0 | 0 | 54 | LA |
| 0120 | Fords N of Barkmill | 241476 | 205109 | 54 | LA |
| 0180 | Br u/s Blackwater Rv confl | 0 | 0 | 54 | LA |
| 0200 | Owenass Br | 0 | 0 | 54 | LA |
| 0220 | Br d/s Owenass Br (on N80) . | 244907 | 207330 | 54 | LA |
| 0300 | 1.7 km d/s Mountmellick | 245973 | 208897 | 54 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0050 | 162 | 11 | 100 | 0 | 11 | 35 | 26 | 0 | 3 | 0 | 25 |
| 0120 | 89 | 16 | 92 | 8 | 29 | 25 | 19 | 0 | 9 | 0 | 18 |
| 0220 | 77 | 78 | 40 | 60 | 52 | 7 | 9 | 0 | 23 | 0 | 9 |
| 0300 | 70 | 79 | 39 | 61 | 53 | 7 | 9 | 1 | 22 | 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 : **PALATINE STREAM**

14/P/04

Tributary of : 14L01 LERR

OS Catchment No: 183

OS Grid Ref of Confluence: S 751 819

Date(s) Surveyed: 6/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3 | 3 | - | - | - | - | - | - |
| 0200 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3-4 |

Assessment: The macroinvertebrate fauna indicated a slight improvement from poor to moderate ecological conditions in July 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Palatine Br | 0 | 0 | 61 | KE |
| 0200 | Gorteen Br | 275860 | 181597 | 61 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 60 | 17 | 100 | 0 | 39 | 0 | 0 | 0 | 61 | 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 : **POLLMOUNTY**

14/P/03

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 737 352

Date(s) Surveyed: 5/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 4 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4-5 | 4 | - | - |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - |
| 0300 | 4 | 4 | 2-3 | 3 | 3 | 3 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: The diversity and abundance of sensitive macroinvertebrate species indicated a welcome improvement to good ecological conditions on the Pollmounty River downstream of the Aughananagh River confluence (0300) in 2011 however some signs of enrichment were still evident.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br N of Ballywilliam | 277291 | 135021 | 76 | WX |
| 0200 | 750m d/s aughnacrew R confl | 275748 | 135016 | 76 | WX |
| 0300 | D/s Aughananagh R confl | 274468 | 135507 | 76 | WX |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 95 | 5 | 100 | 0 | 61 | 22 | 0 | 0 | 2 | 0 | 15 |
| 0200 | 47 | 39 | 100 | 0 | 62 | 4 | 0 | 0 | 32 | 0 | 2 |
| 0300 | 17 | 48 | 100 | 0 | 58 | 11 | 1 | 0 | 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 : **POWERSTOWN**

14/P/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 687 523

Date(s) Surveyed: 7/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0200 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | n/s | - | - |
| 0400 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory in the lower reaches (0400) in 2011, although excessive siltation and compaction of the river bed observed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0200 | Br SE of Powerstown | 266638 | 150792 | 68 | KK |
| 0400 | Br u/s Barrow R confl | 268492 | 152047 | 68 | KK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 48 | 20 | 67 | 33 | 67 | 5 | 0 | 0 | 25 | 0 | 3 |
| 0400 | 31 | 28 | 53 | 47 | 65 | 4 | 0 | 0 | 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 : **SLATE**

14/S/01

Tributary of : 14F01 FIGILE

OS Catchment No: 183

OS Grid Ref of Confluence: N 608 163

Date(s) Surveyed: 3/5/2011, 9/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1978 | 1980 | 1985 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0020 | - | - | - | - | 2-3 | 2-3 | 3 | 2-3 | 2 | 3 | 3 | 3 |
| 0050 | - | - | - | - | 3 | 3 | 3 | 3 | 2-3 | 3 | 3 | 3 |
| 0100 | 4 | 5 | 4-5 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | - | 3-4 |
| 0150 | - | - | - | - | - | - | 3-4 | 3-4 | 3-4 | 3-4 | - | 3-4 |
| 0200 | 3-4 | 4 | 4 | 3-4 | 4 | 3-4 | - | - | - | - | - | - |
| 0210 | 1 | 3 | 4 | 4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 |
| 0300 | 3-4 | 4-5 | 4 | 3-4 | 4 | 4 | - | 4 | 4 | 3-4 | 3-4* | 4 |

Assessment: Only one of the six stations surveyed on the Slate River was in a satisfactory ecological condition in 2011. Poor ecological conditions persist downstream of Prosperous (0020) and Allenwood (0050). A slight improvement from poor to moderate ecological conditions was noted at Agar Bridge (0100) and downstream of Rathangan (0210). The increased diversity of sensitive macroinvertebrate fauna indicated a welcome improvement in the lower reaches (0300) however signs of enrichment (heavy siltation, enhanced instream algal growth, elevated dissolved oxygen and pH readings) were still evident.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0020 | Quigley's Br | 278790 | 226708 | 49 | KE |
| 0050 | Ford Br | 276170 | 225422 | 49 | KE |
| 0100 | Agar Br | 270325 | 221669 | 49 | KE |
| 0150 | E Br Rathangan (Opp Church) | 267595 | 219555 | 55 | KE |
| 0200 | 100 m u/s Br nr Spencer Br | 0 | 0 | 55 | KE |
| 0210 | 100 m d/s Br nr Spencer Br | 266578 | 219142 | 55 | KE |
| 0300 | River Br | 261457 | 216703 | 55 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0020 | 78 | 19 | 0 | 100 | 55 | 0 | 23 | 4 | 12 | 0 | 6 |
| 0050 | 76 | 46 | 3 | 97 | 49 | 6 | 26 | 5 | 11 | 0 | 3 |
| 0100 | 70 | 143 | 10 | 90 | 49 | 3 | 21 | 7 | 15 | 0 | 5 |
| 0150 | 71 | 172 | 9 | 91 | 47 | 4 | 21 | 6 | 17 | 0 | 5 |
| 0210 | 69 | 172 | 9 | 91 | 47 | 4 | 21 | 6 | 17 | 0 | 5 |
| 0300 | 60 | 215 | 9 | 91 | 49 | 3 | 18 | 5 | 20 | 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 : **STRADBALLY (LAOIS)**

14/S/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: S 631 995

Date(s) Surveyed: 21/6/2011, 22/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1984 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0030 | - | - | - | - | - | 4 | 4-5 | 4 | 4 | 4 | 4-5 |
| 0040 | - | - | - | 4 | 4 | - | - | - | - | - | - |
| 0050 | - | 5 | 4 | 3-4 | 4 | - | - | - | - | - | - |
| 0100 | - | 4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 3 | 4 | 3-4 | 4 |
| 0200 | - | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 0300 | 3-4 | 4 | 3-4 | 3 | 3 | - | - | - | - | - | - |
| 0350 | - | 4 | 3-4 | 3-4 | 3-4 | 3 | 3-4 | 3 | 3-4 | 3-4 | 4 |
| 0400 | - | 4 | 3 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: The macroinvertebrate fauna indicated satisfactory ecological conditions at all stations surveyed on the Stradbally (Laois) River in June 2011. High ecological conditions were noted in the upper reaches (0030) while a welcome improvement in the macroinvertebrate fauna indicated good ecological conditions at Bauteogue Bridge (0100) and downstream of Stradbally (0350, 0400). Signs of enrichment however (enhanced instream plant and algal growth, excessive siltation of river bed substratum and elevated dissolved oxygen readings) were still evident at all three stations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------------|------------|-------------|----------------------|-------------|
| 0030 | Br NW of Ballintlea | 253181 | 189624 | 61 | LA |
| 0040 | Upstream Br Timahoe | 0 | 0 | 55 | LA |
| 0050 | Br on Portlaoise Rd Timahoe | 0 | 0 | 55 | LA |
| 0100 | Bauteogue Br | 255244 | 193990 | 55 | LA |
| 0200 | Stradbally Br | 0 | 0 | 55 | LA |
| 0300 | Dowlings Br (in Brockley Park) | 0 | 0 | 55 | LA |
| 0350 | Br WNW of Ballykilevan Ho | 259624 | 197163 | 55 | LA |
| 0400 | Derrybrock Br | 261383 | 199088 | 55 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0030 | 133 | 8 | 0 | 100 | 74 | 4 | 0 | 0 | 21 | 0 | 1 |
| 0100 | 94 | 36 | 0 | 100 | 63 | 5 | 0 | 0 | 32 | 0 | 0 |
| 0350 | 70 | 90 | 0 | 100 | 58 | 6 | 0 | 1 | 33 | 0 | 2 |
| 0400 | 60 | 95 | 0 | 100 | 58 | 6 | 0 | 1 | 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 : **TRIOGUE**

14/T/01

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 474 098

Date(s) Surveyed: 25/5/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1974 | 1978 | 1980 | 1981 | 1984 | 1986 | 1989 | 1993 | 1997 | 2000 | 2003 | 2006 | 2007 | 2009 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0060 | - | - | - | - | - | - | - | 3 | 3 | 3 | 3-4 | 3 | 3 | - | 3 | 3-4 |
| 0100 | 5 | 4 | 4-5 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | 3-4 | 3 | 3 | - | 3-4 | 3-4 |
| 0200 | 1 | 1-2 | 1 | 1 | 1 | 2 | 2 | 2-3 | 3 | 2 | 2 | - | 2 | 2-3 | 3 | 3* |
| 0300 | 3 | 2-3 | 2-3 | 3-4 | 1-2 | 2 | 2-3 | 2-3 | 3 | 2 | 2-3 | 3 | 2-3 | - | 3 | 3 |
| 0400 | - | - | - | - | - | - | - | 3 | 3-4 | 3 | 3 | 3 | 3 | - | 3 | 3-4 |

Assessment: The Triogue River was in an unsatisfactory ecological condition at all five stations surveyed in May 2011. The macroinvertebrate fauna indicated a slight improvement to moderate ecological conditions at Cush Bridge (0060) where excessive siltation and compaction of the river substratum was noted. Sewage is considered to be the main factor causing the poor ecological conditions just below Portlaoise at Kyle Bridge (0200) and Eyne Bridge (0300). The abundance of pollution tolerant macroinvertebrate species, abundant algal growth, heavy siltation of the river bed and high conductivity reading (1023 $\mu\text{S}/\text{cm}$) indicated significant ecological disruption at Kyle Bridge (0200). The macroinvertebrate fauna indicated a slight improvement to moderate ecological status in the lower reaches (0400) however signs of enrichment (enhanced algal and instream plant growth, heavy siltation and high dissolved oxygen (132% oxygen saturation) readings) were still evident.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0060 | Cush Br | 247100 | 193900 | 54 | LA |
| 0100 | Equestrian Centre Br off R426 | 247870 | 197220 | 54 | LA |
| 0200 | Kyle Br | 246374 | 200499 | 54 | LA |
| 0300 | Eyne Br | 247474 | 204196 | 54 | LA |
| 0400 | Triogue Br (on R422) | 247579 | 207414 | 54 | LA |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 93 | 29 | 0 | 100 | 60 | 10 | 4 | 2 | 18 | 0 | 6 |
| 0200 | 87 | 46 | 0 | 100 | 53 | 9 | 3 | 14 | 18 | 0 | 4 |
| 0300 | 75 | 85 | 0 | 100 | 57 | 7 | 3 | 9 | 21 | 0 | 4 |
| 0400 | 71 | 99 | 0 | 100 | 58 | 6 | 2 | 8 | 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.

River and Code : **TULLY STREAM**

14/T/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 637 024

Date(s) Surveyed: 23/6/2011, 26/5/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1986 | 1987 | 1988 | 1989 | 1990 | 1993 | 1997 | 2000 | 2003 | 2006 | 2007 | 2008 | 2009 | 2011 |
| 0100 | 4 | 4 | - | - | 3-4 | - | 3 | 3 | 3 | 3-4 | 3 | - | - | - | 3 |
| 0200 | 2 | 2 | 2 | 2 | 2 | 2 | 2-3 | 2 | 2 | 2-3 | 2-3 | - | - | 2-3 | 2-3 |
| 0300 | 4 | 2 | 2 | 2 | 3 | - | 3 | 2-3 | 2-3 | 1-2 | 2 | 2* | 2 | 3 | 3 |
| 0390 | - | - | - | - | - | - | - | - | 2-3 | 2 | 2 | 3* | - | 3* | 3 |
| 0400 | 3-4 | 2-3 | - | 2-3 | 3 | - | 3 | 3 | - | - | - | - | - | - | - |
| 0500 | 4 | 3 | - | - | 3 | - | 3-4 | 3 | 3 | 3 | 3 | - | - | 3 | 4 |
| 0600 | - | 4 | - | - | 3-4 | - | 4 | 3-4 | 4 | 4 | 3-4 | - | - | 3-4 | 4 |

Assessment: Unsatisfactory ecological conditions continue at four of the six stations surveyed in 2011. The dominance of pollution tolerant macroinvertebrate species and complete lack of sensitive species indicated poor ecological conditions in Kildare with low dissolved oxygen readings (75%, 66% and 74% oxygen saturation) noted at three of the stations (0200, 0300 and 0390). The macroinvertebrate fauna indicated a welcome improvement to good ecological conditions downstream of Cherrymills Bridge (0500) and at Cloney Bridge (0600). Signs of enrichment were still evident with enhanced plant and algal growth noted at station 0500 and excessive algal growth and elevated dissolved oxygen readings (122% oxygen saturation) recorded at Cloney Bridge (0600).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br nr Tully House | 273434 | 210936 | 55 | KE |
| 0200 | Br at Brallistown Little | 273386 | 210508 | 55 | KE |
| 0300 | Kilberrin Br | 271724 | 207883 | 55 | KE |
| 0390 | Soomeragh Br | 270975 | 206383 | 55 | KE |
| 0400 | Br u/s Nurney | 271268 | 205987 | 55 | KE |
| 0500 | Br d/s Cherrymills Br | 268191 | 204332 | 55 | KE |
| 0600 | Cloney Br | 265497 | 201233 | 55 | KE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 86 | 0 | 0 | 100 | 10 | 0 | 0 | 0 | 90 | 0 | 0 |
| 0300 | 75 | 43 | 2 | 98 | 59 | 4 | 5 | 12 | 11 | 0 | 9 |
| 0390 | 74 | 44 | 2 | 98 | 58 | 4 | 5 | 11 | 13 | 0 | 9 |
| 0400 | 73 | 45 | 2 | 98 | 58 | 4 | 5 | 11 | 13 | 0 | 9 |
| 0500 | 62 | 65 | 1 | 99 | 55 | 4 | 6 | 8 | 22 | 0 | 6 |
| 0600 | 59 | 195 | 16 | 84 | 54 | 2 | 6 | 5 | 28 | 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.

SERBD: HYDROMETRIC AREA NO. 14

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|------------------------------|------|-------|------|------|----------|------|-----|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Aghalona | 2011 | 14A02 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 10.0 |
| Athy Stream | 2011 | 14A06 | 0.0 | 0.0 | 10.5 | 0.0 | 0.0 | 10.5 |
| Aughavaud | 2011 | 14A04 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Aughnabriskey | 2011 | 14A05 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Aughnacrew | 2011 | 14A07 | 1.9 | 2.6 | 0.0 | 0.0 | 0.0 | 4.5 |
| Ballynaboley Stream | 2011 | 14B08 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| Ballymurphy (Barrow) | 2011 | 14B21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barrow | 2011 | 14B01 | 16.0 | 82.4 | 41.7 | 0.0 | 0.0 | 140.0 |
| Black Borris | 2011 | 14B06 | 4.6 | 7.5 | 0.0 | 0.0 | 0.0 | 12.0 |
| Blackwater (Laois) | 2011 | 14B03 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 | 8.5 |
| Bothoge | 2011 | 14B04 | 5.5 | 1.0 | 0.0 | 0.0 | 0.0 | 6.5 |
| Burren | 2011 | 14B05 | 4.5 | 10.2 | 19.3 | 0.0 | 0.0 | 34.0 |
| Cloncumber Stream | 2011 | 14C17 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 | 8.5 |
| Crooked (Stradbally) | 2011 | 14C02 | 0.0 | 9.2 | 1.3 | 0.0 | 0.0 | 10.5 |
| Cushina | 2011 | 14C04 | 0.0 | 11.9 | 6.2 | 0.0 | 0.0 | 18.0 |
| Daingean | 2011 | 14D06 | 0.0 | 0.0 | 10.4 | 12.2 | 0.0 | 22.5 |
| Douglas (Laois) | 2011 | 14D03 | 9.0 | 7.0 | 0.0 | 0.0 | 0.0 | 16.0 |
| Duiske | 2011 | 14D04 | 4.5 | 0.0 | 0.5 | 0.0 | 0.0 | 5.0 |
| Dunrally Stream | 2011 | 14D05 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Enaghan Stream | 2011 | 14E02 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Esker Stream | 2011 | 14E01 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 6.0 |
| Figile | 2011 | 14F01 | 0.0 | 24.5 | 11.6 | 4.0 | 0.0 | 40.0 |
| Fushoge | 2011 | 14F03 | 8.5 | 1.5 | 1.0 | 0.0 | 0.0 | 11.0 |
| Glenlahan | 2011 | 14G02 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Gowran | 2011 | 14G03 | 0.0 | 13.0 | 5.0 | 0.5 | 0.0 | 18.5 |
| Graney (Lerr) | 2011 | 14G07 | 0.0 | 7.5 | 0.5 | 0.0 | 0.0 | 8.0 |
| Grangecon Stream | 2011 | 14G06 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Greese | 2011 | 14G04 | 0.0 | 14.4 | 12.0 | 4.7 | 0.0 | 31.0 |
| Lerr | 2011 | 14L01 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 14.0 |
| Monefelim | 2011 | 14M03 | 0.0 | 11.9 | 0.1 | 0.0 | 0.0 | 12.0 |
| Mountain (Carlow) | 2011 | 14M01 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| Old Leighlin Stream | 2011 | 14O02 | 0.5 | 0.0 | 3.0 | 0.0 | 0.0 | 3.5 |
| Owenass | 2011 | 14O01 | 8.0 | 5.5 | 2.5 | 0.0 | 0.0 | 16.0 |
| Palatine Stream | 2011 | 14P04 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| Pollmounty | 2011 | 14P03 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| Powerstown | 2011 | 14P02 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Slate | 2011 | 14S01 | 0.0 | 4.5 | 12.5 | 8.1 | 0.0 | 25.0 |
| Stradbally | 2011 | 14S02 | 5.5 | 12.5 | 0.0 | 0.0 | 0.0 | 18.0 |
| Triogue | 2011 | 14T01 | 0.0 | 0.0 | 13.2 | 7.9 | 0.0 | 21.0 |
| Tully Stream | 2011 | 14T02 | 0.0 | 8.8 | 2.4 | 8.3 | 0.0 | 19.5 |

| Channel Length (km) in Class | | A | A | B | C | D | Total |
|--|-------------|-------------|--------------|--------------|-------------|------------|--------------|
| WFD Quality Class | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | | | | | | |
| Total Length (km) surveyed this cycle | | 85.5 | 284.7 | 197.9 | 45.5 | 0.0 | 613.5 |
| Adjustments | | 0.0 | -7.5 | 0.0 | 3.0 | 0.0 | -4.5 |
| Baseline : Current Adjusted Status (km) | 2011 | 85.5 | 292.2 | 197.9 | 42.5 | 0.0 | 618.0 |
| Percentages | | 13.8 | 47.3 | 32.0 | 6.9 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | 2010-'12 | | 377.7 | 197.9 | 42.5 | 0.0 | 618.0 |
| Percentages | | | 61.1 | 32.0 | 6.9 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | 2007-'09 | 34.0 | 218.8 | 252.6 | 112.7 | 0.0 | 618.0 |
| Percentages | | 5.5 | 35.4 | 40.9 | 18.2 | 0.0 | 100.0 |
| Changes since Previous Survey (km) | | 51.5 | 73.5 | -54.7 | -70.2 | 0.0 | 0.0 |

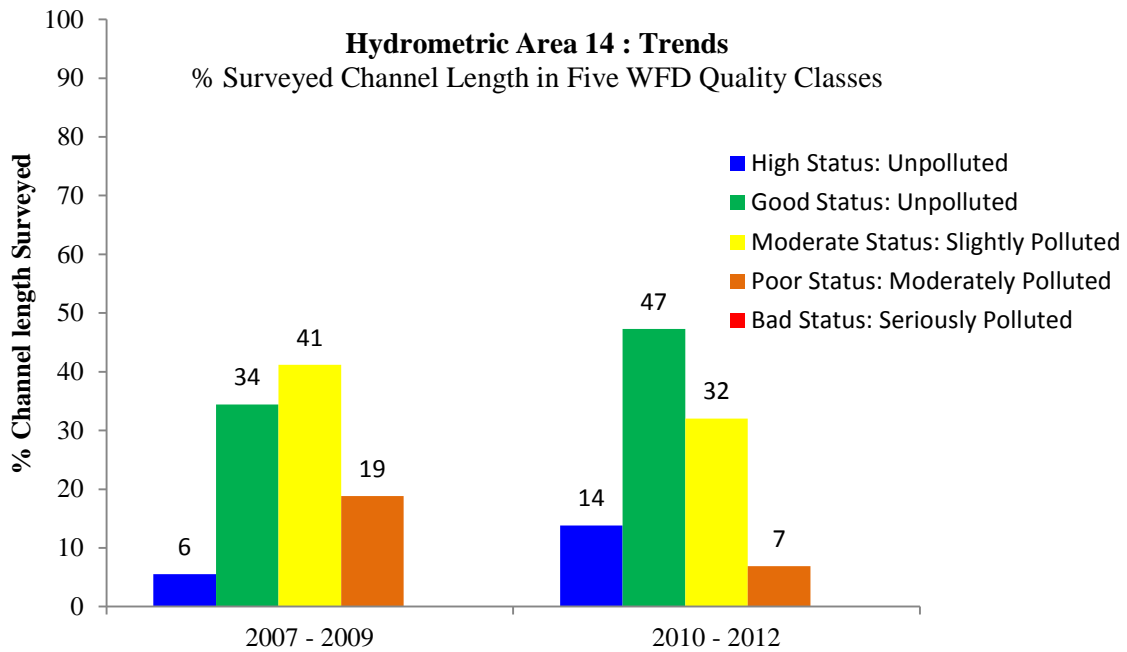
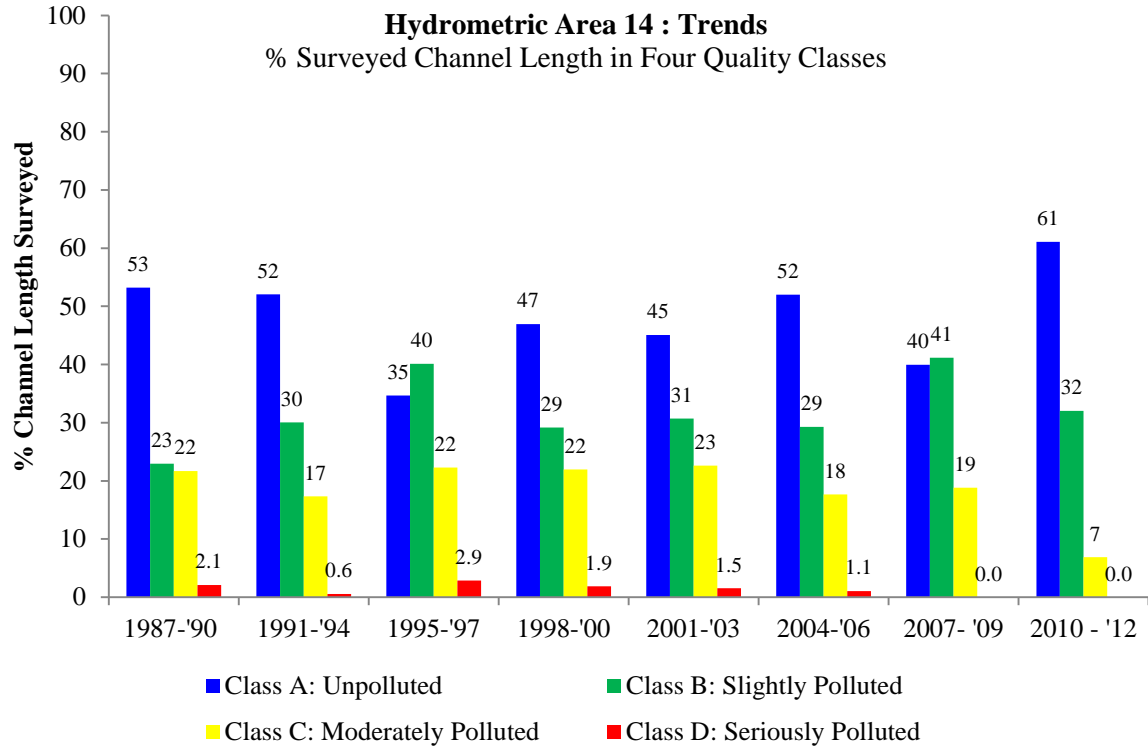
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-): Guille (14G11) not surveyed in 2011 while Ballynaboley Stream (14B08) & Enaghan Stream (14E02) added back into the programme in 2011.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of Sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 5 | 17 |
| Good | 33 | 51 |
| Moderate | 47 | 50 |
| Poor | 28 | 16 |
| Bad | 0 | 0 |
| Total number of sites surveyed | 113 | 134 |
| Total number of sites at unsatisfactory status | 75 | 66 |



HYDROMETRIC AREA 15 (Nore: Balance of Survey)

Partial Survey in 2010, Balance of Survey in 2011

| | |
|-------------------|-------|
| CAHERLESK STREAM | 15C12 |
| DELOUR | 15D01 |
| KILLEEN | 15K01 |
| MOUNTRATH | 15M01 |
| NEEDLEFORD STREAM | 15N04 |
| TONET | 15T01 |

River and Code : **CAHERLESK STREAM**

15/C/12

Tributary of : 15K02 KING'S (KILKENNY)

OS Catchment No: 184

OS Grid Ref of Confluence: S 455 433

Date(s) Surveyed: 14/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1993 | 1995 | 1998 | 2001 | 2004 | 2007 | 2010 | 2011 |
| 0200 | 3 | - | - | - | - | - | - | - |
| 0400 | - | 3 | 3 | 3 | 3 | 3 | 1 | 3 |

Assessment: Reversion to Poor ecological quality from Bad quality in 2010.

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

Site Altitude and Upstream Catchment Characteristics (where available):

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

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

River and Code : **DELOUR**

15/D/01

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 305 919

Date(s) Surveyed: 11/10/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1986 | 1989 | 1991 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0060 | - | - | - | 5 | 5 | 5 | 4-5 | 4 | 4 | 4 | 4-5 |
| 0100 | - | 5 | 4-5 | 5 | 4-5 | - | - | - | n/s | - | - |
| 0150 | - | - | - | - | - | 3-4* | 4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0200 | - | 5 | 4-5 | 4 | 4-5 | - | - | - | n/s | - | - |
| 0300 | 4-5 | 4 | 4 | - | - | - | - | - | n/s | - | - |
| 0400 | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 |

Assessment: Satisfactory with High ecological quality at all locations.

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

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 : **KILLEEN**

15/K/01

Tributary of : 15D01 DELOUR

OS Catchment No: 184

OS Grid Ref of Confluence: S 285 955

Date(s) Surveyed: 11/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 |
| 0400 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | n/s | - |

Assessment: Continuing satisfactory with High ecological quality.

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

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 : **MOUNTRATH**

15/M/01

Tributary of : 15N01 NORE

OS Catchment No: 184

OS Grid Ref of Confluence: S 348 913

Date(s) Surveyed: 10/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1980 | 1985 | 1987 | 1991 | 1995 | 1998 | 2001 | 2005 | 2007 | 2008 | 2011 |
| 0050 | - | - | - | - | - | - | 4 | 4-5 | 4 | 4-5 | 4 | - | 4-5 |
| 0080 | - | - | - | - | 5 | 5 | - | - | - | - | - | - | - |
| 0100 | - | - | 4-5 | 4 | 4 | 4 | 4 | 4 | 4-5 | 3-4 | 2 | 4 | 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 | 3-4 | - | 4 |

Assessment: Improved. Satisfactory with High and Good ecological quality.

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

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0050 | 162 | 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 : **NEEDLEFORD STREAM**

15/N/04

Tributary of : 15M01 MOUNTRATH

OS Catchment No: 184

OS Grid Ref of Confluence: S 357 957

Date(s) Surveyed: 10/10/2011

| Biological Quality Ratings (Q Values) | | | | |
|---------------------------------------|------|------|------|------|
| Station Nos. | 2001 | 2005 | 2007 | 2011 |
| 0200 | 4 | 4-5 | 4-5 | 4-5 |

Assessment: Continuing satisfactory with High ecological quality.

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

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: 11/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 4-5 | 4-5 | 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 | 3-4 | 4 |
| 0600 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory, with High and Good ecological quality, following improvement at Rossnaclonagh.

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

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.

SERBD: HYDROMETRIC AREA NO. 15

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|------------------------------|------|-------|------|-------|----------|------|-----|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Arigna | 2010 | 15A01 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Arrigle | 2010 | 15A02 | 7.6 | 5.0 | 0.0 | 0.0 | 0.0 | 12.5 |
| Ballyroan | 2010 | 15B01 | 0.0 | 0.0 | 6.0 | 1.5 | 0.0 | 7.5 |
| Baunballinlough Stream | 2010 | 15B12 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Bregagh | 2010 | 15B02 | 0.0 | 0.0 | 6.4 | 3.6 | 0.0 | 10.0 |
| Brownstown Stream | 2010 | 15B04 | 0.0 | 0.0 | 4.5 | 0.0 | 0.0 | 4.5 |
| Caherlesk Stream | 2011 | 15C12 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Cappanacloghy | 2010 | 15C06 | 0.0 | 4.5 | 5.0 | 3.5 | 0.0 | 13.0 |
| Castlecomer Stream | 2010 | 15C01 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Clogh | 2010 | 15C03 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Cloghnagh | 2010 | 15C04 | 0.0 | 2.5 | 4.5 | 0.0 | 0.0 | 7.0 |
| Cloonawoolan Stream | 2010 | 15C19 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Coalbrook Stream | 2010 | 15C20 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 2.5 |
| Delour | 2011 | 15D01 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 |
| Desart Stream | 2010 | 15D04 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 6.0 |
| Dinin | 2010 | 15D02 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 14.5 |
| Dinin North | 2010 | 15D07 | 0.0 | 11.9 | 6.6 | 0.0 | 0.0 | 18.5 |
| Dinin South | 2010 | 15D08 | 14.5 | 0.5 | 0.0 | 0.0 | 0.0 | 15.0 |
| Donaghmore Stream | 2010 | 15D03 | 0.0 | 7.5 | 1.5 | 0.0 | 0.0 | 9.0 |
| Ennisnag Stream | 2010 | 15E02 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| Erkina | 2010 | 15E01 | 0.0 | 7.0 | 21.0 | 0.0 | 0.0 | 28.0 |
| Errill | 2010 | 15E03 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| Garranacool | 2010 | 15G10 | 0.0 | 3.5 | 0.0 | 0.0 | 0.0 | 3.5 |
| Glory | 2010 | 15G01 | 0.0 | 6.3 | 2.3 | 3.5 | 0.0 | 12.0 |
| Gorteenahilla | 2010 | 15G08 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| Goul | 2010 | 15G02 | 0.0 | 6.6 | 10.2 | 8.3 | 0.0 | 25.0 |
| Gully | 2010 | 15G03 | 0.0 | 12.0 | 3.5 | 1.5 | 0.0 | 17.0 |
| Killeen | 2011 | 15K01 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 |
| Kings | 2010 | 15K02 | 0.0 | 27.5 | 11.0 | 0.0 | 0.0 | 38.5 |
| Lisdowney | 2010 | 15L02 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 2.5 |
| Mountrath | 2011 | 15M01 | 6.0 | 8.0 | 0.0 | 0.0 | 0.0 | 14.0 |
| Muckalee | 2010 | 15M02 | 6.5 | 1.0 | 0.0 | 0.0 | 0.0 | 7.5 |
| Munster | 2010 | 15M03 | 0.0 | 15.5 | 0.0 | 0.0 | 0.0 | 15.5 |
| Needleford Stream | 2011 | 15N04 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Nore | 2010 | 15N01 | 0.0 | 112.8 | 3.5 | 1.8 | 0.0 | 118.0 |
| Nuenna | 2010 | 15N02 | 0.0 | 0.0 | 9.5 | 0.0 | 0.0 | 9.5 |
| Owveg (Nore) | 2010 | 15O01 | 0.0 | 24.0 | 0.0 | 0.0 | 0.0 | 24.0 |
| Rathdowney Stream | 2010 | 15R03 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 5.0 |
| Tonet | 2011 | 15T01 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| Tullaroan Stream | 2010 | 15T02 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 13.0 |

| Channel Length (km) in Class WFD Quality Class | | | A High | A Good | B Moderate | C Poor | D Bad | Total |
|---|------------------|------|-------------|--------------|---------------|-------------|------------|--------------|
| River Name | Year | Code | | | | | | |
| Total Length (km) surveyed this cycle | | | 71.1 | 305.9 | 111.5 | 30.6 | 0.0 | 519.0 |
| Adjustments | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Current Length (km) Adjusted | 2010/2011 | | 71.1 | 305.9 | 111.5 | 30.6 | 0.0 | 519.0 |
| Percentages | | | 13.7 | 58.9 | 21.5 | 5.9 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | 2010 - '12 | | | 377.0 | 111.5 | 30.6 | 0.0 | 519.0 |
| Percentages | | | | 72.6 | 21.5 | 5.9 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | 2007 - '09 | | 39.7 | 299.4 | 137.0 | 43.0 | 0.0 | 519.0 |
| Percentages | | | 7.6 | 57.7 | 26.4 | 8.3 | 0.0 | 100.0 |
| Changes since Previous Survey (km) | | | 31.4 | 6.5 | -25.6 | -12.4 | 0.0 | 0.0 |

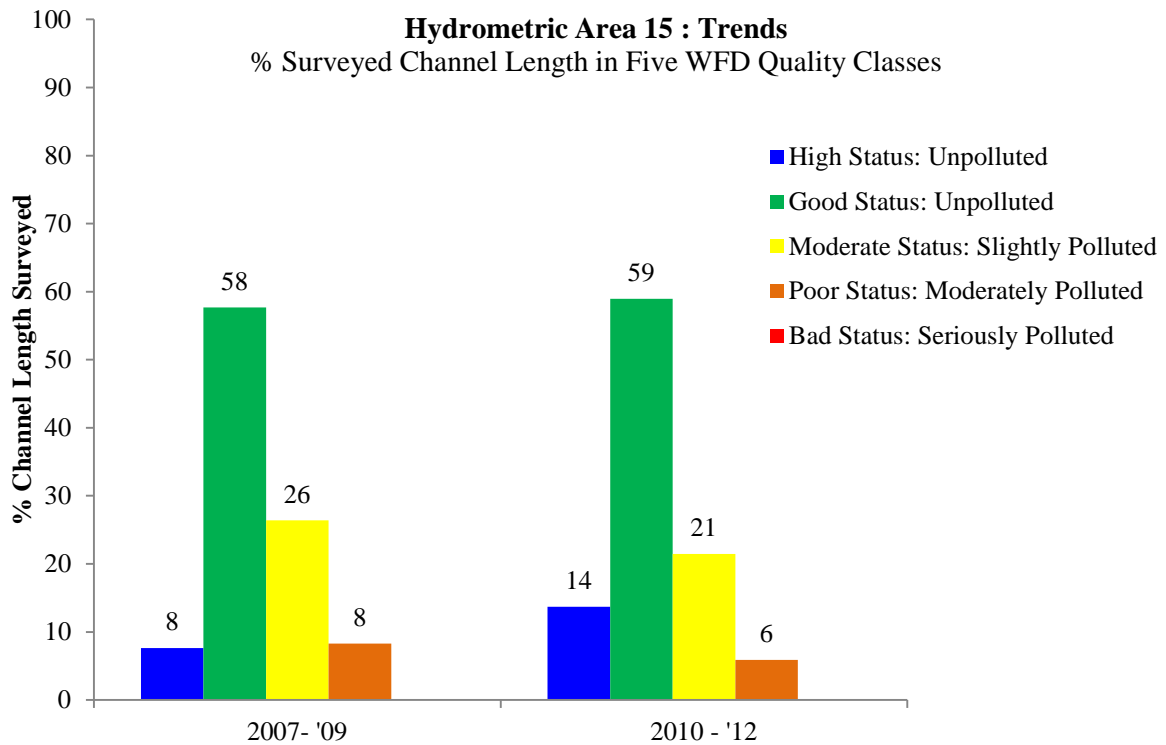
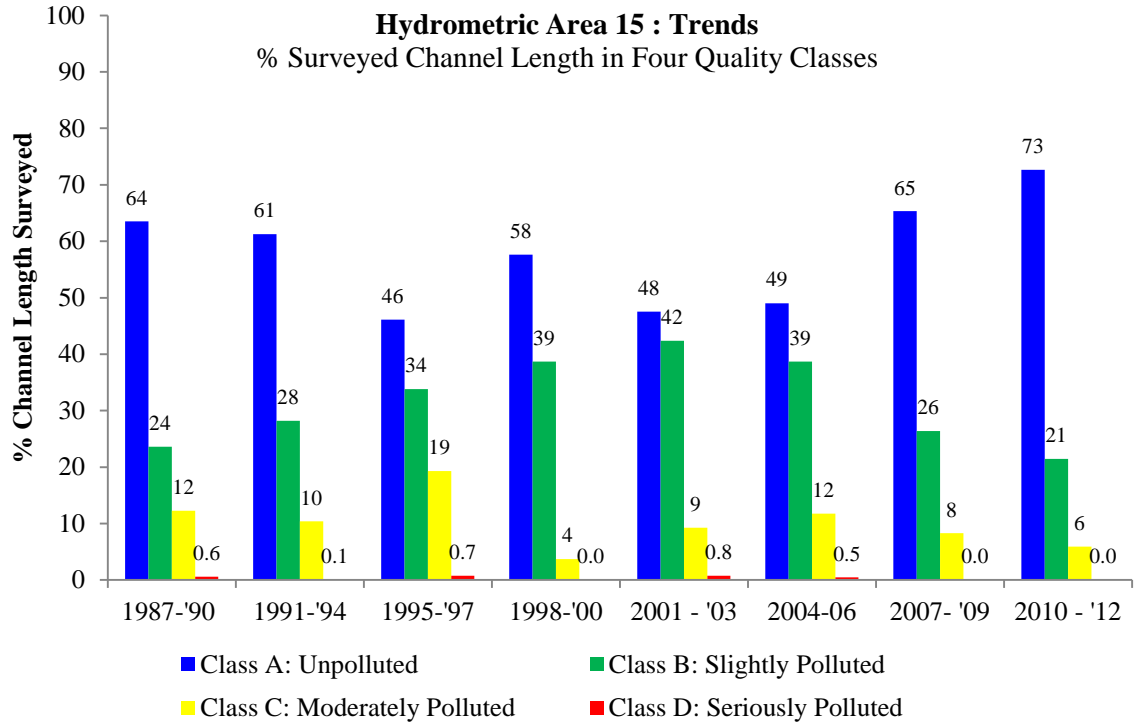
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-):

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of Sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 6 | 11 |
| Good | 46 | 53 |
| Moderate | 29 | 21 |
| Poor | 14 | 10 |
| Bad | 0 | 0 |
| Total number of sites surveyed | 95 | 95 |
| Total number of sites at unsatisfactory status | 43 | 31 |



HYDROMETRIC AREA 16 (Suir: Partial Survey)

Partial Survey Only, Balance of Survey in 2012

| | |
|-------------------------|-------|
| AHERLOW | 16A01 |
| ANNER | 16A02 |
| ARA | 16A03 |
| ARGLO | 16A04 |
| AUGHNAGLANNY | 16A05 |
| BALLINTEMPLE STREAM | 16B07 |
| BLACK (TWO MILE BORRIS) | 16B01 |
| BLACK STREAM (CASHEL) | 16B05 |
| BORRISOLEIGH STREAM | 16B06 |
| BURNCOURT | 16B04 |
| CLASHAWLEY | 16C01 |
| CLODIAGH (PORTLAW) | 16C03 |
| CLODIAGH (TIPPERARY) | 16C02 |
| CLONMORE STREAM (SUIR) | 16C11 |
| CLOVER | 16C04 |
| DRISH | 16D02 |
| DUAG | 16D03 |
| FARNEYBRIDGE | 16F02 |
| FIDAGHTA | 16F01 |
| FISHMOYNE | 16F03 |
| HALFWAY HOUSE STREAM | 16H02 |
| KILLENAULE STREAM * | 16K05 |
| LINGAUN | 16L01 |
| MOYLE | 16M01 |
| MULLINAHONE STREAM * | 16M09 |
| MULTEEN | 16M02 |
| MULTEEN (EAST) * | 16M08 |
| NIER | 16N01 |
| OWENBEG (TIPPERARY) | 16O02 |
| ROSSADREHID STREAM | 16R06 |
| ROSSESTOWN | 16R01 |
| SHANBALLY | 16S01 |
| # ST JOHN'S | 16S03 |
| SUIR | 16S02 |
| TAR | 16T01 |
| THONOGE | 16T02 |

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

* MULTEEN (EAST) Previously reported as Multeen 16M02

River and Code : **AHERLOW**

16/A/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 035 280

Date(s) Surveyed: 17/8/2011, 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1976 | 1977 | 1980 | 1985 | 1988 | 1993 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0040 | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | - | - |
| 0060 | - | - | - | - | - | - | 4 | 4 | - | - | - | - | - | - |
| 0080 | - | - | - | - | - | - | - | - | 4-5 | 4 | 3-4 | 4 | 4 | 4-5 |
| 0100 | - | - | - | - | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 0160 | - | - | - | - | - | - | 4 | 4-5 | - | - | - | - | - | - |
| 0200 | - | - | 4 | - | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3-4 | 4 | 4 |
| 0300 | - | - | - | - | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | - | - | 5 | - | 5 | 5 | 4 | 4 | - | - | - | - | - | - |
| 0500 | - | - | - | - | 5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0600 | - | - | - | - | 4 | 4-5 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | - | - |
| 0700 | - | - | 4-5 | - | 4 | 5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0800 | - | - | 5 | - | 4 | 4 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4-5 |
| 0900 | 4 | 4 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |

Assessment: Continuing satisfactory with Good and High ecological quality. This situation is threatened, however, at Stagdale Bridge where overflow from septic tank for Lisvarrinane was reaching the river.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------------|------------|-------------|----------------------|-------------|
| 0040 | Ballymahony Br | 179669 | 121974 | 73 | LK |
| 0060 | Br E of Ballyfauskeen Crossroads | 0 | 0 | 73 | LK |
| 0080 | Br SW of Keeloges | 179796 | 125045 | 73 | LK |
| 0100 | Br SW of Ardrahin | 0 | 0 | 0 | LK |
| 0160 | Second Ford d/s 0100 | 0 | 0 | 0 | LK |
| 0200 | Galbally Br | 181027 | 127755 | 74 | LK |
| 0300 | Stagdale Br | 184343 | 128727 | 74 | TY |
| 0400 | New Br | 0 | 0 | 0 | TY |
| 0500 | Br u/s College Br | 188768 | 129807 | 74 | TY |
| 0600 | College Br | 191787 | 130328 | 66 | TY |
| 0700 | Ashgrove Br | 195110 | 129405 | 74 | TY |
| 0800 | Cappa Old Br | 199349 | 129333 | 74 | TY |
| 0900 | Killardry Br | 201667 | 129489 | 74 | TY |

Hydrometric Area 16 (2011)

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|-----------------|------------|-------------|------------|------------|----------------|-----------------|-------------|--------------|-----------------|--------------|--------------|
| 0040 | 150 | 16 | 100 | 0 | 77 | 11 | 3 | 0 | 0 | 0 | 9 |
| 0080 | 125 | 35 | 100 | 0 | 71 | 6 | 14 | 0 | 2 | 0 | 7 |
| 0200 | 99 | 58 | 86 | 14 | 81 | 4 | 8 | 0 | 2 | 0 | 4 |
| 0300 | 87 | 68 | 84 | 16 | 79 | 5 | 9 | 0 | 2 | 0 | 5 |
| 0500 | 71 | 106 | 82 | 18 | 70 | 6 | 14 | 0 | 1 | 0 | 9 |
| 0600 | 65 | 121 | 79 | 21 | 69 | 6 | 13 | 0 | 1 | 0 | 12 |
| 0700 | 59 | 149 | 78 | 22 | 62 | 8 | 16 | 0 | 1 | 0 | 14 |
| 0800 | 50 | 174 | 74 | 26 | 60 | 10 | 16 | 0 | 1 | 0 | 12 |
| 0900 | 47 | 273 | 56 | 44 | 69 | 10 | 11 | 1 | 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 : **ANNER**

16/A/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 245 238

Date(s) Surveyed: 28/6/2011, 29/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1977 | 1978 | 1980 | 1982 | 1985 | 1987 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | 1 | 2 | 1 | 1 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| 0200 | - | - | - | 1 | - | 1-2 | 1 | 3-4 | - | - | - | - | - | - | - |
| 0300 | - | - | 3 | 2 | 3 | 2 | 2 | 3 | - | - | - | - | - | - | - |
| 0340 | - | - | - | - | - | - | - | 3 | 3 | 3 | 3-4 | 3 | 3 | 3 | 3-4 |
| 0600 | - | - | 3-4 | 3-4 | 3-4 | 4 | - | 3-4 | 3-4 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 |
| 0700 | - | 3-4 | 4 | 3-4 | 3-4 | 4 | - | 3-4 | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0800 | - | - | 3-4 | 3 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0900 | - | 4 | 3-4 | 4 | 3-4 | - | - | 4 | 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 | 4 | 4 |

Assessment: Continuing unsatisfactory in upper half, as far as Druman Bridge, with Poor and Moderate ecological status. Continuing satisfactory, with good status, in lower half.

| 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 : **ARA**
 Tributary of : 16A01 AHERLOW
 OS Grid Ref of Confluence: S 002 296
 Date(s) Surveyed: 16/8/2011

16/A/03
 OS Catchment No: 182

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1976 | 1979 | 1981 | 1983 | 1985 | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0100 | - | - | - | - | - | - | - | 3-4 | 3 | 3 | 3 | 3-4 | 3-4 | 3 | 3 |
| 0200 | - | 4-5 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | 4 | - | - |
| 0300 | 2 | 1 | 1 | 1 | 3 | 3 | 2-3 | 3 | 3 | 3 | 1-2 | 3 | 3 | 3 | 3 |
| 0400 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | - | - | - | - | - | - |
| 0440 | - | - | - | - | - | - | - | 3 | 3-4 | 3 | 3 | 3-4 | 4 | 3-4 | 3-4 |
| 0500 | - | - | - | 3-4 | 3-4 | 3-4 | 4 | 3 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | - | - |
| 0600 | 2 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 3 | 3-4 | 3 | 3 | 3-4 | 4 | 4 |
| 0700 | - | - | - | 4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | - | - |

Assessment: Satisfactory, with Good ecological quality, at just one location. Unsatisfactory, with Poor and Moderate ecological quality, upstream and downstream of Tipperary town.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bohereenbuee Br | 184792 | 134548 | 66 | TY |
| 0200 | Br just u/s Tipperary | 188215 | 135268 | 66 | TY |
| 0300 | 1 km d/s Tipperary nr Railway Br | 189740 | 135160 | 66 | TY |
| 0400 | Br nr Cordangan Manor | 0 | 0 | 0 | TY |
| 0440 | Br NE of Lacken | 192434 | 133849 | 66 | TY |
| 0500 | Bansha Br | 195556 | 133145 | 66 | TY |
| 0600 | Ara Br, 2.8 km d/s Bansha | 197459 | 131994 | 66 | TY |
| 0700 | Ara Br, u/s Aherlow R confl | 199233 | 130224 | 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 | 103 | 31 | 13 | 87 | 99 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0200 | 89 | 42 | 10 | 90 | 98 | 0 | 1 | 1 | 0 | 0 | 0 |
| 0300 | 83 | 44 | 9 | 91 | 95 | 0 | 1 | 4 | 0 | 0 | 0 |
| 0440 | 73 | 69 | 14 | 86 | 88 | 6 | 0 | 3 | 1 | 0 | 1 |
| 0500 | 61 | 75 | 19 | 81 | 87 | 8 | 0 | 3 | 1 | 0 | 1 |
| 0600 | 56 | 84 | 19 | 81 | 87 | 7 | 0 | 3 | 1 | 0 | 1 |
| 0700 | 52 | 87 | 19 | 81 | 87 | 6 | 0 | 3 | 2 | 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: 21/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1985 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0080 | - | - | - | 4 | - | - | - | - | n/s | - | - |
| 0100 | - | 3-4 | 3-4 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 4 |
| 0200 | 4-5 | 4 | 3-4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: Improved with Good ecological quality despite some enrichment 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 : **AUGHNAGLANNY**

16/A/05

Tributary of : 16M02 MULTEEN

OS Catchment No: 182

OS Grid Ref of Confluence: R 994 470

Date(s) Surveyed: 20/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1980 | 1985 | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0100 | 4-5 | 5 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: Continung with High ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Victoria Br | 199031 | 148463 | 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 | 98 | 13 | 100 | 0 | 67 | 23 | 0 | 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 : **BALLINTEMPLE STREAM**

16/B/07

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence: S 188 372

Date(s) Surveyed: 29/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0800 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 |

Assessment: Good ecological quality again recorded in this small calcareous stream.

| 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: 6/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1980 | 1982 | 1985 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0030 | - | - | - | - | - | 3-4 | 3-4 | 3 | 3 | 3-4 | 4 |
| 0090 | - | - | - | 4 | 4 | 4 | 3-4 | 3 | 3-4 | - | - |
| 0100 | 3 | 3-4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 |
| 0200 | - | - | - | 4 | 4 | - | - | - | - | - | - |

Assessment: Improvement with Good ecological quality at both locations.

| 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 : **BLACK STREAM (CASHEL)**

16/B/05

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 038 408

Date(s) Surveyed: 21/7/2011

| Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Station Nos. | 1978 | 1980 | 1985 | 1986 | 1988 | 1989 | 1993 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 1-2 | 2 | 2 | 3 | 2 | 2-3 | 3 | 2-3 | 2-3 | 2-3 | 3 | 3 |

Assessment: Continuing with Poor ecological quality but the crayfish was recorded in this stream for the first time in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br 0.5 km u/s Suir R confl | 204523 | 141143 | 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 | 66 | 9 | 0 | 100 | 77 | 0 | 0 | 0 | 23 | 0 | 0 |

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

River and Code : **BORRISOLEIGH STREAM**

16/B/06

Tributary of : 16F03 FISHMOYNE

OS Catchment No: 182

OS Grid Ref of Confluence: S 042 639

Date(s) Surveyed: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1981 | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2007 | 2008 | 2009 | 2011 |
| 0200 | - | - | - | - | 4 | 4 | 4 | 4 | - | 4 | - | 4 |
| 0400 | - | - | 4 | 4 | 4 | 4 | 4 | 3-4 | - | - | - | - |
| 0600 | 3 | 4 | 3 | 2-3 | 2-3 | 3 | 3 | 2 | 2 | 2 | 3-4 | 3 |
| 0700 | - | - | 3-4 | 3 | 3 | 3 | 3-4 | 3 | - | - | - | - |

Assessment: Good and Poor ecological quality recorded, representing respectively no change and deterioration since previous surveys.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br NE of Ballyduff | 198737 | 166942 | 59 | TY |
| 0400 | Ballyroan Br | 202057 | 167348 | 59 | TY |
| 0600 | Br 0.5 km SE of Borrisoleigh | 203439 | 166401 | 59 | TY |
| 0700 | Br u/s Fishmoyne R confl | 204086 | 164008 | 59 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 168 | 4 | 100 | 0 | 69 | 0 | 0 | 0 | 31 | 0 | 0 |
| 0400 | 110 | 11 | 100 | 0 | 74 | 0 | 0 | 0 | 26 | 0 | 0 |
| 0600 | 97 | 14 | 93 | 7 | 77 | 0 | 0 | 2 | 20 | 0 | 0 |
| 0700 | 86 | 25 | 71 | 29 | 83 | 0 | 0 | 2 | 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 : **BURNCOURT**
 Tributary of : 16S01 SHANBALLY
 OS Grid Ref of Confluence: R 974 177
 Date(s) Surveyed: 23/8/2011

16/B/04
 OS Catchment No: 182

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4-5 | 4-5 | 5 | 4-5 | 4 | 4-5 | - | 4-5 |
| 0300 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4 |

Assessment: Continuing satisfactory with High and Good ecological quality. Some physical disturbance was recorded just downstream of Burncourt Old Bridge due to machinery having cleared part of the river.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Glengarra Br | 193130 | 118732 | 74 | TY |
| 0300 | Burncourt Old Br | 195409 | 118024 | 74 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 104 | 14 | 100 | 0 | 0 | 24 | 41 | 0 | 2 | 0 | 32 |
| 0300 | 72 | 22 | 86 | 14 | 17 | 18 | 41 | 0 | 2 | 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 : **CLASHAWLEY**

16/C/01

Tributary of : 16A02 ANNER

OS Catchment No: 182

OS Grid Ref of Confluence: S 246 303

Date(s) Surveyed: 30/6/2011

| Station Nos. | | | | | | | | Biological Quality Ratings (Q Values) | | | | | |
|--------------|------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|------|
| | 1976 | 1978 | 1980 | 1981 | 1983 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0030 | - | - | - | - | - | 4 | 3 | - | - | - | n/s | - | - |
| 0050 | - | - | - | - | - | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 4 |
| 0080 | - | - | - | - | - | 4 | 4 | 4 | 3-4 | 3 | 3-4 | - | 4* |
| 0350 | - | - | - | - | - | 4 | 3-4 | - | - | - | - | - | - |
| 0400 | 4 | 4-5 | - | 4 | 4 | 3-4 | 4 | 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 | - | - | - | n/s | 3-4 | 4 |
| 0600 | - | 4-5 | - | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: With improvement downstream of Fethard all locations reached Good ecological quality in 2011 despite some siltation.

| 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: 15/9/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1975 | 1978 | 1980 | 1982 | 1984 | 1986 | 1988 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0040 | - | - | - | - | - | - | - | 4 | 4 | 4 | 4-5 | 4 | 4 | - | 3-4 | 4 |
| 0100 | - | - | 5 | - | - | - | 4-5 | 4-5 | 3 | 3-4 | 4-5 | 4 | n/s | - | - | - |
| 0200 | - | - | 5 | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4 | - | 4 | 4 |
| 0300 | 5 | 5 | 5 | - | - | 5 | 4-5 | 4 | 4 | 3-4 | 3 | 3 | 2 | 4 | 3 | 4 |
| 0350 | - | - | - | - | - | - | - | 4-5 | 4-5 | - | - | - | n/s | - | - | - |
| 0400 | - | 5 | 5 | - | - | 5 | 3-4 | 4-5 | 4-5 | 4-5 | 3-4 | 4 | 4 | - | 4 | 4 |
| 0500 | 5 | 5 | 5 | 5 | - | 5 | 4 | 4 | 4 | - | - | - | n/s | - | - | - |
| 0600 | 1 | 1/0 | 1/0 | 1/0 | 1/0 | 1 | 2-3 | 2-3 | 3 | - | - | - | n/s | - | - | - |
| 0700 | - | 2-3 | 4-5 | 3 | 3-4 | 3-4 | 4-5 | 4 | 4-5 | - | - | - | n/s | - | - | - |
| 0750 | - | - | - | - | - | - | - | - | - | 4-5 | 4 | 4-5 | 4 | - | 4 | 4 |

Assessment: Satisfactory, with Good ecological quality, at all locations following improvement at Graigavalla and Clonea.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0040 | Graigavalla 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 : **CLODIAGH (TIPPERARY)**

16/C/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 063 503

Date(s) Surveyed: 19/7/2011, 20/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1980 | 1986 | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0040 | - | - | - | 5 | 4 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0070 | - | - | - | 4-5 | 4-5 | - | - | - | - | - | - |
| 0080 | - | - | - | - | - | 5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 |
| 0100 | - | 5 | 4-5 | 4-5 | 4 | - | - | - | - | - | - |
| 0200 | - | - | - | 4-5 | 4 | 4-5 | 4 | 4 | 3-4 | 3-4 | 4 |
| 0300 | 5 | 5 | 4-5 | 4-5 | 4 | - | - | - | - | - | - |
| 0400 | 5 | 5 | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 | - | 4 |
| 0500 | - | - | - | 4-5 | 4-5 | - | - | 4 | - | - | - |
| 0600 | 5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Improved with High or Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0040 | Gorteenabarna Br | 198173 | 165027 | 59 | TY |
| 0070 | Br W of Rathcardan | 0 | 0 | 0 | TY |
| 0080 | Pallas Br | 202241 | 163820 | 59 | TY |
| 0100 | Annfield Br | 0 | 0 | 0 | TY |
| 0200 | Drumminagleagh Br | 204512 | 159766 | 66 | TY |
| 0300 | Ballyoughter Br | 0 | 0 | 0 | TY |
| 0400 | Derrymore Br | 205008 | 154453 | 66 | TY |
| 0500 | Rathkennan Br | 0 | 0 | 0 | TY |
| 0600 | 1.5 km d/s Rathkennan Br | 204862 | 151371 | 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 | 154 | 27 | 100 | 0 | 75 | 2 | 10 | 0 | 5 | 0 | 8 |
| 0080 | 102 | 36 | 100 | 0 | 80 | 1 | 7 | 0 | 5 | 0 | 6 |
| 0200 | 84 | 121 | 65 | 34 | 83 | 2 | 2 | 0 | 10 | 0 | 3 |
| 0400 | 76 | 189 | 66 | 34 | 85 | 2 | 1 | 0 | 8 | 0 | 3 |
| 0600 | 73 | 252 | 49 | 51 | 86 | 2 | 1 | 0 | 9 | 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 : **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: 13/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | |
|--------------|---------------------------------------|------|------|------|------|
| | 1999 | 2002 | 2005 | 2008 | 2011 |
| 1000 | 3 | 4 | 3-4 | 3 | 4 |

Assessment: Improvement to Good ecological quality.

| 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: 6/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1988 | 1989 | 1990 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 2 | 2 | 1-2 | 2 | 2 | 1 | 2-3 | 3 | 3 | - | 3 |
| 0300 | 3-4 | - | - | 3-4 | - | 2-3 | 4 | 4 | 4 | 4 | 4 |

Assessment: Poor and Good ecological quality respectively at the two locations representing no change in conditions since each was last surveyed.

| 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: 12/7/2011, 13/7/2011

| Station Nos. | 1976 | 1980 | 1983 | 1988 | 1992 | 1996 | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|-------|------|------|------|
| | | | | | | | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | - | - | - | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 |
| 0050 | - | - | - | 3-4 | - | - | - | - | - | - | - |
| 0070 | - | - | - | 4 | 4-5 | 3-4 | 2/0 | 2-3/0 | 3/0 | 3/0 | 3/0 |
| 0100 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 3-4 | 3 | 3 | 3 | 3 |
| 0200 | - | 3 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3 | 3-4 |
| 0300 | 4-5 | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 0400 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3 | 4 |

Assessment: Improved but mostly unsatisfactory with Moderate and Poor ecological quality and toxic influences inferred at one of the locations (0070). Good quality at final location.

| 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 | Boolabea 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 : **DUAG**

16/D/03

Tributary of : 16T01 TAR

OS Catchment No: 182

OS Grid Ref of Confluence: S 014 145

Date(s) Surveyed: 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 |
| 0300 | 3 | 3-4 | - | - | - | - | - | - |
| 0400 | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0600 | 3-4 | 4 | - | - | - | - | - | - |
| 1100 | 4-5 | 4-5 | 4 | 3-4 | 3-4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory, with Good ecological quality, at the three locations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br u/s Ballyporeen | 191954 | 112644 | 74 | TY |
| 0300 | Ford ESE of Ballyporeen | 0 | 0 | 0 | TY |
| 0400 | Br 2 km d/s Ballyporeen | 195133 | 113029 | 74 | TY |
| 0600 | Ford S of Carrigmore Crossroads | 0 | 0 | 0 | TY |
| 1100 | Br at S end of Clogheen | 200375 | 113616 | 74 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 89 | 16 | 54 | 46 | 90 | 2 | 0 | 0 | 2 | 0 | 6 |
| 0400 | 71 | 38 | 57 | 43 | 78 | 6 | 3 | 1 | 2 | 0 | 11 |
| 1100 | 50 | 66 | 65 | 35 | 58 | 13 | 17 | 1 | 1 | 0 | 11 |

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

River and Code : **FARNEYBRIDGE**

16/F/02

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 054 543

Date(s) Surveyed: 19/7/2011, 20/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1988 | 1989 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0100 | 3-4 | - | 3-4 | - | - | - | - | - | - |
| 0200 | 2 | 2-3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0300 | 2-3 | 3 | 3 | - | - | - | - | - | - |
| 0500 | 3 | - | 3 | 3 | 3 | 3 | 3-4 | 3 | 3-4 |
| 0600 | 3 | - | 4 | 4 | 4 | 4 | 3-4 | - | 4 |
| 0700 | 3-4 | - | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4 |

Assessment: Improved with Good ecological quality at the two lower locations but continuing unsatisfactory, with Poor and Moderate quality, at the others.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br E of Ballypatrick | 207140 | 164835 | 0 | TY |
| 0200 | Br ENE of The Rag | 206715 | 163105 | 59 | WD |
| 0300 | Br SE of The Rag | 207215 | 161800 | 0 | TY |
| 0500 | Ballynahow Br | 208602 | 159682 | 66 | TY |
| 0600 | Farney Br | 206679 | 157893 | 66 | TY |
| 0700 | Just u/s Clodiagh R confl | 205460 | 154326 | 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 | 95 | 9 | 0 | 100 | 75 | 0 | 0 | 0 | 25 | 0 | 0 |
| 0500 | 85 | 23 | 0 | 100 | 83 | 2 | 0 | 0 | 13 | 0 | 2 |
| 0600 | 78 | 45 | 0 | 100 | 88 | 1 | 0 | 0 | 10 | 0 | 2 |
| 0700 | 75 | 53 | 0 | 100 | 86 | 1 | 0 | 0 | 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 : **FIDAGHTA**

16/F/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 013 314

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1977 | 1981 | 1985 | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0100 | - | - | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 |
| 0200 | - | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | - | - |
| 0300 | 4-5 | - | 3-4 | 4 | 4 | 3 | 3 | 4 | 4 | 3-4 | 3-4 | 3-4 |

Assessment: Continuing unsatisfactory with Poor and Moderate ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br nr Aughnagawer X Rds | 195733 | 135009 | 66 | TY |
| 0200 | Fidaghta Br | 198492 | 133344 | 66 | TY |
| 0300 | Kilnacask Br | 200736 | 131700 | 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 | 66 | 23 | 0 | 100 | 94 | 0 | 0 | 3 | 3 | 0 | 0 |
| 0200 | 56 | 46 | 1 | 99 | 90 | 0 | 0 | 1 | 8 | 0 | 0 |
| 0300 | 51 | 50 | 1 | 99 | 90 | 0 | 0 | 1 | 8 | 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 : **FISHMOYNE**

16/F/03

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 043 638

Date(s) Surveyed: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0040 | - | - | 3 | 3 | 3-4 | 3 | 3 | 4 |
| 0080 | 4 | 4 | - | - | - | - | - | - |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0300 | 4 | 3-4 | 3-4 | 4 | 4 | 3-4 | 3 | 3 |

Assessment: Mostly satisfactory with Good ecological quality, following improvement in the upper reaches. Continuing Poor quality in lower reach where the river has been arterially drained.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0040 | Br NW of Drom | 206082 | 169044 | 59 | TY |
| 0080 | Br SE of Kilfithmone Crossroads | 0 | 0 | 0 | TY |
| 0200 | Rathmoy Br | 204815 | 165661 | 59 | TY |
| 0300 | Monroe Br | 205071 | 162559 | 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 | 109 | 13 | 51 | 49 | 84 | 12 | 0 | 0 | 1 | 0 | 3 |
| 0200 | 92 | 36 | 45 | 55 | 85 | 5 | 0 | 0 | 7 | 0 | 3 |
| 0300 | 85 | 66 | 51 | 49 | 83 | 2 | 0 | 1 | 13 | 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 : **HALFWAY HOUSE STREAM**

16/H/02

Tributary of : Suir Estuary

OS Catchment No: 184

OS Grid Ref of Confluence: S 659 099

Date(s) Surveyed: 7/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1993 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0200 | 3 | 3 | 3-4 | 3-4 | 3-4 | - | - |
| 0300 | 3 | 3 | 3 | 2 | 3-4 | 3-4 | 3-4 |

Assessment: Continuing unsatisfactory with only Moderate ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br SW of Foxmount | 265939 | 108586 | 76 | WD |
| 0300 | Br to NW of Halfway Ho | 266003 | 109661 | 76 | WD |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 22 | 6 | 100 | 0 | 69 | 0 | 0 | 0 | 21 | 0 | 10 |
| 0300 | 8 | 8 | 100 | 0 | 70 | 0 | 0 | 0 | 22 | 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 : **KILLENAULE STREAM**

16/K/05

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence:

Date(s) Surveyed: 5/7/2011

Formerly Killenaule Branch of Clashawley River 16C01

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1978 | 1980 | 1981 | 1983 | 1988 | 1992 | 1996 | 1999 | 2005 | 2008 | 2011 |
| 0100 | 3 | 2 | 2-3 | 3 | 3 | 2-3 | 3 | 2-3 | 3 | 3 | 3 |
| 0150 | - | - | - | - | 4 | 3-4 | - | - | - | - | - |
| 0200 | 4-5 | - | 4-5 | 4 | 4-5 | 4 | 3-4 | 4 | 4 | 3-4* | 4* |
| 0300 | 3-4 | - | 5 | 4-5 | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 |

Assessment: Continuing moderately polluted downstream of Killenaule. Satisfactory at the other two locations following improvement at middle one (0200).

| 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: 13/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1977 | 1981 | 1985 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | - | - | - | 4-5 | 4 | 4 | 3-4 | 4 | 4-5 |
| 0100 | - | - | 5 | 4-5 | 4-5 | 4 | - | - | - | n/s | - | - |
| 0200 | - | - | 5 | 4-5 | 4-5 | 4-5 | 4 | 3-4 | 4 | 4 | 4 | 4 |
| 0300 | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 0400 | - | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0450 | - | - | 5 | 5 | - | - | - | - | - | n/s | - | - |
| 0500 | - | - | - | - | 5 | 4-5 | - | - | - | n/s | - | - |
| 0600 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 3-4 |

Assessment: Mostly satisfactory with High and Good ecological quality but reversion to only Moderate at final location.

| 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: 5/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1983 | 1986 | 1988 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0025 | - | - | 4 | 3-4 | 3-4 | - | - | - | - | n/s | - | - |
| 0050 | 3-4 | 2 | 2 | 1 | 1 | 1 | 2-3 | 2 | 3 | - | 3 | 3 |
| 0100 | 2 | 2 | - | 1 | 1 | 1 | - | - | - | - | - | - |
| 0200 | - | - | - | 1 | 3 | - | 3 | - | 3 | - | dry | - |
| 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 | 3 | 3 |

Assessment: Poor ecological quality where sampled. Many locations on this river become dry in summer.

| 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: 28/6/2011

Formerly reported as the Mullinahone Branch of the Anner

Biological Quality Ratings (Q Values)

| Station Nos. | 1977 | 1978 | 1980 | 1982 | 1985 | 1987 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 3 | 3 |

Assessment: Formerly Mullinahone Branch of Anner River. Continuing with Poor ecological quality 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 : **MULTEEN**

16/M/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 007 395

Date(s) Surveyed: 3/8/2011, 4/8/2011

| Station Nos. | 1976 | 1980 | 1985 | 1988 | 1992 | 1996 | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | | | | | | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0540 | - | - | - | 4 | 4 | 3-4 | 4 | 4 | 4 | - | 4 |
| 0600 | - | - | - | - | - | 3-4 | 4 | 4 | 4 | 4 | 4-5 |
| 0650 | - | - | - | 4-5 | 4-5 | - | - | - | - | - | - |
| 0700 | - | 5 | 5 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0780 | - | - | - | - | - | 4 | 4-5 | 4-5 | 4-5 | - | - |
| 0800 | 5 | 5 | 5 | 4-5 | 5 | - | - | - | - | - | - |
| 0900 | - | 5 | - | 5 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 |
| 1000 | 4-5 | 4 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 1100 | 5 | 4 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |

Assessment: Continuing satisfactory with High and Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------------|------------|-------------|----------------------|-------------|
| 0540 | Metal Br | 191884 | 153031 | 66 | TY |
| 0600 | 1 km S of Inchinsquillib | 191387 | 149873 | 66 | TY |
| 0650 | Br just u/s Glasheenyeagha R conf | 0 | 0 | 0 | TY |
| 0700 | Ironmills Br | 0 | 0 | 0 | TY |
| 0780 | Br SW of Annacarty | 191814 | 145111 | 66 | TY |
| 0800 | Hawarden Br | 0 | 0 | 0 | TY |
| 0900 | Morpeth Br | 194074 | 141705 | 66 | TY |
| 1000 | Ballinacloagh Br | 198561 | 140864 | 66 | TY |
| 1100 | Ballygriffin Br | 200582 | 140392 | 66 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0540 | 178 | 18 | 100 | 0 | 66 | 7 | 2 | 0 | 5 | 0 | 21 |
| 0600 | 138 | 26 | 100 | 0 | 66 | 9 | 2 | 0 | 7 | 0 | 16 |
| 0780 | 103 | 46 | 100 | 0 | 59 | 14 | 4 | 0 | 14 | 0 | 9 |
| 0900 | 82 | 60 | 96 | 4 | 67 | 12 | 3 | 0 | 12 | 0 | 7 |
| 1000 | 69 | 76 | 81 | 19 | 73 | 10 | 2 | 0 | 10 | 0 | 5 |
| 1100 | 63 | 162 | 75 | 25 | 71 | 10 | 2 | 0 | 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 : **MULTEEN (EAST)**

16/M/08

Tributary of : 16M02 MULTEEN

OS Catchment No: 182

OS Grid Ref of Confluence:

Date(s) Surveyed: 2/8/2011, 4/8/2011

Previously reported as Multeen 16M02

| Station Nos. | 1976 | 1980 | 1985 | 1988 | 1992 | 1996 | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | | | | | | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0030 | - | - | - | - | - | 4-5 | 4 | 4 | 4 | - | 3-4 |
| 0100 | - | 5 | 5 | 5 | 5 | 3-4 | 4-5 | 4-5 | 4-5 | - | 4-5 |
| 0300 | - | 5 | 4-5 | 5 | 4-5 | 4 | 3-4 | 4 | 4 | 4-5 | 4 |
| 0400 | - | 5 | 5 | 4 | 4 | 4 | 4-5 | 4 | 4-5 | - | 4 |
| 0500 | 5 | 5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing mostly Good ecological quality but eutrophic in upper reach (0030).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0030 | Br NW of Falleennafinoga | 195148 | 157683 | 66 | TY |
| 0100 | Turraheen Br | 199992 | 154422 | 66 | TY |
| 0300 | Clonedarby Br | 200142 | 149225 | 66 | TY |
| 0400 | Black Br | 198507 | 144704 | 66 | TY |
| 0500 | Aughnagross Br | 199098 | 141307 | 66 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0030 | 229 | 6 | 100 | 0 | 37 | 0 | 8 | 0 | 38 | 0 | 17 |
| 0100 | 145 | 22 | 100 | 0 | 42 | 8 | 5 | 0 | 36 | 0 | 9 |
| 0300 | 95 | 34 | 100 | 0 | 51 | 6 | 4 | 0 | 33 | 0 | 6 |
| 0400 | 83 | 67 | 84 | 16 | 65 | 11 | 2 | 0 | 18 | 0 | 4 |
| 0500 | 70 | 84 | 71 | 29 | 69 | 11 | 2 | 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.

River and Code : **NIER**

16/N/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 147 139

Date(s) Surveyed: 14/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1983 | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0010 | - | - | - | - | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0030 | - | - | 4 | 4-5 | - | - | - | - | - | - |
| 0070 | - | - | 5 | 5 | 4 | 4 | 4-5 | - | - | - |
| 0100 | - | 4-5 | 4-5 | 4-5 | - | - | - | - | 4-5 | 4-5 |
| 0200 | - | - | 4-5 | 4-5 | 4 | 4 | 4 | 4 | - | - |
| 0300 | - | 4-5 | 4-5 | 5 | - | - | - | - | - | - |
| 0400 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with High and Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0010 | Labatt's Br | 224995 | 113971 | 75 | WD |
| 0030 | Birchell's Br | 0 | 0 | 0 | WD |
| 0070 | Knockalisheen Br | 221406 | 113499 | 75 | WD |
| 0100 | Br ENE of Ballymacarbry | 219897 | 112873 | 0 | WD |
| 0200 | Deerpark Br | 218512 | 113573 | 74 | WD |
| 0300 | Four Mile Water Br | 0 | 0 | 0 | WD |
| 0400 | Ballymakee Br | 215032 | 113697 | 74 | WD |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0010 | 127 | 29 | 100 | 0 | 12 | 1 | 28 | 0 | 0 | 0 | 59 |
| 0070 | 79 | 61 | 100 | 0 | 22 | 5 | 26 | 0 | 2 | 0 | 45 |
| 0200 | 47 | 81 | 100 | 0 | 26 | 8 | 22 | 0 | 5 | 0 | 38 |
| 0400 | 27 | 104 | 97 | 3 | 34 | 8 | 19 | 0 | 7 | 0 | 32 |

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

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

16/O/02

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 038 564

Date(s) Surveyed: 21/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0200 | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0300 | 4-5 | 4 | - | - | - | - | - | - |
| 0400 | 4-5 | 4 | 4 | 4 | 4 | - | - | - |
| 0500 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0700 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 |

Assessment: Good ecological quality again recorded at both locations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br nr Roan | 198577 | 160362 | 59 | TY |
| 0300 | NNE of Knockmehil | 0 | 0 | 0 | TY |
| 0400 | Br SW of Rossoulty | 201652 | 159248 | 66 | TY |
| 0500 | Ford u/s Mulgrave Br | 0 | 0 | 0 | TY |
| 0700 | Br u/s Clodiagh R confl | 203861 | 156460 | 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 | 179 | 7 | 100 | 0 | 60 | 13 | 0 | 0 | 0 | 0 | 27 |
| 0400 | 139 | 24 | 100 | 0 | 84 | 5 | 0 | 0 | 3 | 0 | 9 |
| 0700 | 81 | 32 | 99 | 1 | 83 | 4 | 0 | 0 | 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 : **ROSSADREHID STREAM**

16/R/06

Tributary of : 16A01 AHERLOW

OS Catchment No: 182

OS Grid Ref of Confluence: S 562 235

Date(s) Surveyed: 17/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|
| | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4 | 3-4 | 3 | 3-4 | 3-4* | 3-4* |

Assessment: Continuing only Moderate ecological quality with siltation.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Dromamarka Br | 192158 | 129351 | 74 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 76 | 7 | 94 | 6 | 11 | 8 | 37 | 0 | 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 : **ROSSESTOWN**

16/R/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 133 625

Date(s) Surveyed: 13/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1981 | 1985 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0020 | - | - | - | 3-4 | 3 | - | - | 3 | 3 | 3* | 3 |
| 0040 | - | - | - | 3-4 | 3 | 3* | 3* | 3 | 3 | 3* | 3* |
| 0100 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 4 | 3 | 3 | - | - |
| 0150 | - | - | - | - | - | - | - | - | - | 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 | 3 | 3-4 |

Assessment: Continuing unsatisfactory with Poor and Moderate ecological quality.

| 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 |
| 0150 | West Br W of Ballyerk | 217680 | 166720 | 0 | 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 : **SHANBALLY**
 Tributary of : 16T01 TAR
 OS Grid Ref of Confluence: R 976 178
 Date(s) Surveyed: 23/8/2011

16/S/01
 OS Catchment No: 182

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 |
| 0300 | 5 | 5 | - | - | - | - | - | - |
| 0400 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4-5 |

Assessment: Continuing satisfactory, with High ecological quality, at both locations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Caherghaul Br | 191145 | 117798 | 74 | TY |
| 0300 | Coolgarranroe Br | 0 | 0 | 0 | TY |
| 0400 | Br at Shanbally | 195178 | 116996 | 74 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 111 | 6 | 98 | 2 | 15 | 5 | 45 | 0 | 35 | 0 | 0 |
| 0400 | 71 | 24 | 40 | 60 | 67 | 4 | 12 | 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 : **ST JOHN'S****16/S/03**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 614 121

Date(s) Surveyed: 7/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|-------|------|------|------|
| | 1980 | 1984 | 1988 | 1992 | 2009 | 2011 |
| 0300 | 1/0 | 1/0 | 1/0 | 1-2 | 2 | 2 |
| 0500 | 1 | 1/0 | 1-2/0 | 2 | 2-3 | - |

Assessment: Continuing unsatisfactory with Bad ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0300 | Bleach Bridge | 0 | 0 | 0 | WD |
| 0500 | Wyse's Bridge (Bath Street) | 0 | 0 | 0 | WD |

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: 1/9/2011, 2/9/2011, 30/8/2011, 31/8/2011

| | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Station Nos. | 1971 | 1974 | 1978 | 1980 | 1982 | 1985 | 1986 | 1988 | 1992 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 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 | 4 | 4 |
| 0200 | 5 | 4 | 4-5 | 5 | 4 | - | 4 | 3-4 | 4 | - | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 |
| 0300 | 3-4 | 3-4 | 2-3 | 3 | 3 | - | 3 | 3 | 3-4 | - | 3 | 3 | 3 | 3 | 3 | 3-4 |
| 0400 | 3-4 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | - | - | - | - | n/s | - | - |
| 0500 | 4-5 | 4 | 3-4 | 3-4 | 3-4 | - | 4 | 4 | 4 | - | 3-4 | 4 | 4 | 3-4 | 4 | 4 |
| 0600 | 2 | 2 | 3 | 3 | 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 | 3 | 3-4 |
| 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 | 3 | 3-4 |
| 1200 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3 | 4 | - | 3-4 | 3-4 | 4 | 3 | 4 | 4 |
| 1300 | 5 | 4 | 5 | 5 | 4-5 | 4 | 4 | 4 | 4 | - | 4 | 4 | 4-5 | 3-4 | 4 | 4 |
| 1400 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4 | 3-4 | 4 | 3-4 | 4 | 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 | 4 | 4 |
| 1600 | 4-5 | 4-5 | 4 | 4 | - | - | 4-5 | 4 | - | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 |
| 1700 | 4-5 | 4 | 4 | 4 | - | - | 4-5 | 3-4 | - | 4 | 4 | 4 | 4-5 | 4 | 4 | 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 | 4 | 4 |
| 2000 | 5 | 3-4 | 3-4 | 3-4 | 3-4 | - | 3-4 | - | - | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 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 | 4 | 4 |
| 2300 | 5 | 4 | 4-5 | 4-5 | - | - | 4 | 4 | - | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 |
| 2400 | 5 | 4 | 5 | 5 | 4 | - | 4 | 4 | - | 4 | 4-5 | 4 | 4 | 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 | 4 | 4 |
| 2700 | 4-5 | 3 | 3-4 | 4 | 3-4 | - | 3-4 | 3 | - | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 3-4 |
| 2750 | - | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3-4 | 3-4 | 4 | 4 |
| 2800 | 4-5 | 3-4 | 2-3 | 2-3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - |
| 2850 | - | - | - | - | - | - | - | 3 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3-4 |

Assessment: Mostly satisfactory with further slight improvement, from Poor to Moderate ecological quality, at four locations. Overall quality was Good at 14 locations, Moderate at seven and Poor at one. Continuing polluted to some extent downstream of Templemore, in and downstream of Thurles as far as Holycross, at Ardfinnan and also just upstream of Carrick-on-Suir. The Suir runs through productive agricultural land as well as having sizeable towns along its course and has large filamentous algal growths in summer. It supports a large population of the protected crayfish.

Hydrometric Area 16 (2011)

| 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 | Rossestown 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 | TY |
| 2700 | Kilsheelan Br | 228617 | 123217 | 75 | TY |
| 2750 | N of Churchtown | 233380 | 122808 | 75 | TY |
| 2800 | Coolnamuck Weir | 0 | 0 | 0 | TY |
| 2850 | 1.5 km u/s Carrick-on-Suir | 238510 | 121890 | 75 | TY |

Hydrometric Area 16 (2011)

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.

River and Code : **TAR**

16/T/01

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 115 147

Date(s) Surveyed: 23/8/2011, 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1976 | 1977 | 1981 | 1986 | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0030 | - | - | - | - | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0100 | - | - | 5 | 4-5 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0200 | - | 4 | 5 | 4-5 | 4 | 4-5 | 4 | 4-5 | 4-5 | - | - | - |
| 0300 | - | - | 4 | 4-5 | 4-5 | 4 | - | 4-5 | 3-4 | 4 | 4 | 4-5 |
| 0400 | - | - | - | - | - | - | 4 | - | - | - | - | - |
| 0420 | - | - | - | 5 | 4 | 4 | - | - | - | - | - | - |
| 0460 | - | - | - | - | - | - | 4 | 4 | 4-5 | 4 | - | - |
| 0500 | - | - | 5 | 5 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0600 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with High and Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0030 | Br NE of Rossrehill | 197052 | 119717 | 74 | TY |
| 0100 | Kilganny Br | 0 | 0 | 0 | TY |
| 0200 | Garrymore Br | 198509 | 115639 | 74 | TY |
| 0300 | Clogheen Br | 200348 | 114038 | 74 | TY |
| 0400 | Nr Ballyboy Ho | 202081 | 114322 | 74 | TY |
| 0420 | Br nr Castlegrace Ho | 0 | 0 | 0 | TY |
| 0460 | Ford WNW of Kilgroggy | 205979 | 114373 | 74 | TY |
| 0500 | Goats Br | 0 | 0 | 0 | TY |
| 0600 | Ford u/s Tar Br | 210542 | 113401 | 74 | TY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0030 | 85 | 10 | 99 | 1 | 3 | 7 | 83 | 0 | 0 | 0 | 6 |
| 0200 | 54 | 79 | 53 | 47 | 47 | 9 | 29 | 0 | 7 | 0 | 9 |
| 0300 | 47 | 92 | 45 | 55 | 52 | 8 | 25 | 0 | 7 | 0 | 8 |
| 0400 | 45 | 165 | 52 | 48 | 54 | 10 | 21 | 0 | 5 | 0 | 9 |
| 0460 | 38 | 189 | 51 | 49 | 54 | 10 | 22 | 0 | 5 | 0 | 9 |
| 0600 | 32 | 222 | 52 | 48 | 51 | 12 | 22 | 0 | 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 : **THONOGE**

16/T/02

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 066 204

Date(s) Surveyed: 25/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1985 | 1988 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0010 | - | - | - | - | 4 | 4 | 4-5 | 4 | - | 4 |
| 0050 | - | 4-5 | 4 | 4-5 | - | - | - | - | - | - |
| 0080 | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0100 | 4 | 4-5 | 4 | 4-5 | - | - | - | - | - | - |
| 0200 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0300 | - | 4 | - | - | - | - | - | - | - | - |

Assessment: Continuing satisfactory with Good ecological quality at all locations. Two protected species, the pearl mussel and crayfish, are under threat from low flows and other factors in this river.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0010 | Kilcoran Br | 198887 | 121841 | 74 | TY |
| 0050 | Curraghmore Br | 0 | 0 | 0 | TY |
| 0080 | Br u/s Ballylooby | 200424 | 119604 | 74 | TY |
| 0100 | Ford 0.5 km d/s Ballylooby | 0 | 0 | 0 | TY |
| 0200 | East Br, Tubbrid | 203450 | 118142 | 74 | TY |
| 0300 | Ballybrada Br | 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 |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0010 | 98 | 9 | 100 | 0 | 1 | 22 | 50 | 0 | 0 | 0 | 27 |
| 0080 | 61 | 19 | 70 | 30 | 31 | 21 | 26 | 0 | 1 | 0 | 20 |
| 0200 | 46 | 40 | 34 | 66 | 50 | 11 | 13 | 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.

| 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: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0100 | 4 | 3 | 3 | 3 | 4 | 4 | - | - |
| 0300 | 4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 4 | 4 |

Assessment: Continuing satisfactory with Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0100 | 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: 26/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | - | - | - | - | - | - | - |
| 0200 | 5 | 4-5 | 4 | 4 | 4-5 | 4 | 4-5 | 4-5 |

Assessment: Continuing satisfactory with High ecological quality.

| 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: 15/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0500 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 |

Assessment: Good quality recorded in three successive surveys - prior to 2005 had been less than satisfactory.

| 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: 7/9/2011

19/B/04

OS Catchment No: 228

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0400 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0600 | 4-5 | 4 | 4 | 4 | 4-5 | 4 | 4-5 | 4 |
| 0610 | - | 3 | 2 | 3 | 2 | 2-3 | 4-5 | 2-3 |
| 0900 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 5 | 4-5 |
| 1300 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4 |
| 1400 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | - | - |
| 1500 | 4 | - | - | - | - | - | - | - |
| 1600 | 4 | 4 | 3-4 | 4 | 3-4* | 4 | 4 | 4 |

Assessment: Mostly satisfactory with High and Good ecological quality but reversion to polluted conditions, with slime growths, due to sewage discharges at right-hand side in Crookstown (0610). Some siltation again recorded at final location.

| 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: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4 | 4 | 4 | 3-4 | 3* | 4 | 3-4 | 4 |
| 0400 | 4 | - | - | - | - | - | - | - |
| 0500 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 |
| 0600 | 4-5 | - | - | - | - | - | - | - |
| 0800 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 |

Assessment: Improved with Good and High ecological quality. Dumping of rubbish is persistent at two lower locations.

| 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: 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | - | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0300 | 4 | - | - | - | - | - | - | - |
| 0500 | - | 4-5 | 4-5 | 4-5 | 3-4 | 4 | - | 4-5 |
| 0600 | 4 | - | - | - | - | - | - | - |
| 0800 | 3-4 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 4 |

Assessment: Satisfactory with Good and High ecological quality.

| 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: 26/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 |

Assessment: Satisfactory with Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 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: 3/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4-5 | 3 | 4 | 4 | 4 | 4 | 3-4 | 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 | 3-4 | 4 |

Assessment: Satisfactory, with Good ecological quality, at both locations following improvement since previous survey.

| 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: 27/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | - | 4 | 4 | 4 | 4 | 4 | - | - |
| 0700 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: Continuing satisfactory with High ecological quality.

| 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: 14/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | - | - | - | 4 | 4 | 4 | 3-4 | 3-4 | - | 4 |
| 0100 | - | 5 | 5 | 5 | - | - | - | - | - | - | - |
| 0150 | - | - | 3-4 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 3 |
| 0200 | - | 4-5 | 4 | 4 | - | - | - | - | - | - | - |
| 0300 | - | 5 | 4-5 | 4-5 | 4-5 | 3-4 | 4 | 4 | 4 | 4 | 4-5 |
| 0400 | 3/0 | 4 | 3/0 | 4 | 4 | 3-4 | 4-5 | 4 | 4 | 4 | 4-5 |

Assessment: Mostly satisfactory with Good and High ecological quality but severe deterioration, to Poor quality, at Dripsey Bridge (Lower - 0150) where previously High quality. Slime growths (sewage fungus) were dying off at that site indicating previously seriously polluted conditions - from a suspected agricultural source.

| 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: 4/10/2011, 5/10/2011

19/D/07

OS Catchment No: 192

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0200 | 4 | 4 | 4 | 3-4 | 4 | 3-4 | 4 | 4 |
| 0300 | 3-4 | - | - | - | - | - | - | - |
| 0400 | 4 | 4 | 4-5 | 4 | 4 | 4 | - | - |
| 0500 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0600 | 4 | 4 | 4 | 4 | 4 | 4 | - | - |
| 0700 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |

Assessment: No change. Mostly satisfactory, with Good ecological quality, but continuing Poor quality in Midleton.

| 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: 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0300 | 4 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4 | 4 |

Assessment: Continuing Good ecological quality at both locations.

| 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: 26/7/2011, 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0200 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | - | 4-5 |
| 0300 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| 0400 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | - | 4 |
| 0600 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: High and Good ecological quality.

| 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: 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4 |

Assessment: Continuing satisfactory with Good ecological quality but was previously High quality.

| 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: 29/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0100 | - | - | 5 | 4 | 3 | - | - | - | - | - | - | - |
| 0200 | 5 | 3-4 | 4 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 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 | 4 | 4 |
| 0500 | 5 | 5 | 4-5 | 4 | 4 | - | - | - | - | - | - | - |
| 0600 | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

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

| 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: 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4-5 | 4 | 4 | 4 | 4-5 | 4 | 4 | 3 |

Assessment: Poor ecological quality representing significant deterioration where previously either High or Good. Some dead elements of the fauna indicated recent environmental event.

| 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: 28/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 5 | 5 | 5 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4-5 |
| 0200 | - | 5 | 5 | 5 | 4 | 4-5 | 4-5 | 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 | 4-5 | 4-5 |
| 0500 | 5 | 5 | 5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: Continuing satisfactory with High ecological quality at all locations.

| 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: 6/9/2011, 7/9/2011, 8/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | - | - | - | - | 4-5 | 4-5 | 4 | 4 | 3/0 | 4-5 | 4-5 |
| 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 | 4 | 4 |
| 0200 | 5 | 5 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0300 | 5 | 5 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4-5 |
| 0600 | 4-5 | 4-5 | 4 | 4 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | 3-4 |
| 0700 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 |

Assessment: Continuing mostly satisfactory, with High and Good ecological quality, and with a slight improvement from Poor to Moderate quality, at Inishcarra.

| 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: 15/6/2011, 16/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1978 | 1981 | 1983 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3 | 3 | 4 | 3-4 | 4 |
| 0200 | 2 | 2 | 1 | 3-4 | 3-4 | 3 | 3 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4 |
| 0300 | - | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4-5 |
| 0400 | 4 | 5 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 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 | 4 | 4-5 |

Assessment: Satisfactory throughout, with High and Good ecological quality, following improvement at uppermost location since previous survey.

| 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: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0100 | 2 | - | - | - | - | - | - | - |
| 0200 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 |
| 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 | 4 | 3-4 |
| 1000 | 3-4 | 3-4 | 4 | 3-4 | 4 | 4 | - | - |
| 1400 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |

Assessment: Mostly unsatisfactory, with Moderate ecological quality, but continuing Good quality in upper reach.

| 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 Crushnalanaue | 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: 4/10/2011, 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1983 | 1986 | 1988 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | - | - | - | 4-5 | 4-5 | 4 | 4 | 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 | 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 | 4 | 4 |
| 0500 | - | - | 2-3 | 2-3 | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 |
| 0600 | 2-3 | 2-3 | 2-3 | 2-3 | 3-4 | 3 | 4 | 3-4 | 3-4 | - | - | - | - |

Assessment: Mostly satisfactory, with Good ecological quality, but reversion to only Moderate quality in Middleton.

| 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 Ballincurrag | 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, Middleton | 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**

19/S/01

Tributary of : 19L03 LEE (CORK)

OS Catchment No: 228

OS Grid Ref of Confluence: W 609 717

Date(s) Surveyed: 14/6/2011, 15/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0025 | - | - | - | - | - | 4-5 | 4 | 4 | 4 | 4 | 3 |
| 0050 | - | - | - | - | 4 | - | - | - | - | - | - |
| 0070 | - | - | - | 4 | - | - | - | - | - | - | - |
| 0100 | - | 5 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4-5 | 3-4 |
| 0200 | - | 5 | 4-5 | 4-5 | 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 | 4 | 4-5 |
| 0400 | 4-5 | 5 | 4 | 4-5 | - | - | - | - | - | - | - |
| 0500 | - | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 |

Assessment: Mostly satisfactory with High ecological quality but deterioration to Poor and Moderate at the first two locations (0025, 0100) where Good and High respectively in previous survey.

| 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: 27/9/2011, 28/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0100 | 5 | 5 | 5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 |
| 0150 | - | - | - | - | 4-5 | - | - | - | - | - | - | - |
| 0170 | - | - | - | - | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 4 | 4 | 4-5 |
| 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 | 4-5 | 4-5 |
| 0400 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4-5 | 5 |
| 0460 | - | - | - | - | 4-5 | - | - | - | - | - | - | - |
| 0480 | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0500 | 5 | 5 | 5 | 4 | 4-5 | - | - | - | - | - | - | - |

Assessment: Continuing satisfactory with mostly High ecological quality and Good quality downstream of Macroom.

| 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: 4/10/2011

19/T/01

OS Catchment No: 192

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 3-4 | 4 |
| 0200 | 4 | - | - | - | - | - | - | - |

Assessment: Improved back to Good ecological quality.

| 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: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4 | 4 | 4-5 | 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 | 4-5 | 4-5 |
| 0800 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 4 | - | - |

Assessment: Continuing satisfactory with Good and High ecological quality.

| 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: 4/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | 4 | - | - | - | - | - | - | - |
| 0500 | 3 | 3 | 3-4 | 4 | 4 | 4 | - | - |
| 0700 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0900 | 4 | - | - | - | - | - | - | - |
| 1000 | 3-4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 1100 | 3-4 | - | - | - | - | - | - | - |
| 1300 | 4 | 4-5 | 3-4 | 3-4 | 3 | 3 | - | - |
| 1400 | 4 | 4 | - | - | - | - | - | - |

Assessment: No change. Continuing mostly satisfactory, with Good ecological quality, but only Moderate in Castlemartyr where the Conductivity was raised.

| 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.

SWRBD: HYDROMETRIC AREA NO. 19

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|---|-----------|-------|--------------|--------------|-------------|-------------|------------|--------------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Aughnaboy (Cork) | 2011 | 19A02 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Awboy | 2011 | 19A03 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Blarney | 2011 | 19B02 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Bride (Lee) | 2011 | 19B04 | 5.8 | 23.4 | 1.2 | 1.7 | 0.0 | 32.0 |
| Butlerstown | 2011 | 19B06 | 7.8 | 3.2 | 0.0 | 0.0 | 0.0 | 11.0 |
| Cummer | 2011 | 19C02 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| Cusloura | 2011 | 19C01 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Dissour | 2011 | 19D03 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| Douglas (Sullane) | 2011 | 19D04 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 6.5 |
| Dripsey | 2011 | 19D06 | 5.6 | 10.8 | 1.7 | 0.9 | 0.0 | 19.0 |
| Dungourney | 2011 | 19D07 | 0.0 | 15.5 | 0.0 | 0.5 | 0.0 | 16.0 |
| Finnow (Foherish) | 2011 | 19F01 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| Foherish | 2011 | 19F02 | 11.9 | 6.1 | 0.0 | 0.0 | 0.0 | 18.0 |
| Garrane (Lee) | 2011 | 19G03 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Glashaboy | 2011 | 19G01 | 0.0 | 23.0 | 0.0 | 0.0 | 0.0 | 23.0 |
| Keel | 2011 | 19K02 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 2.5 |
| Laney | 2011 | 19L01 | 24.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.0 |
| Lee (Cork) | 2011 | 19L03 | 18.5 | 17.1 | 2.5 | 0.0 | 0.0 | 38.0 |
| Martin | 2011 | 19M01 | 11.1 | 4.5 | 0.0 | 0.0 | 0.0 | 15.5 |
| Owenboy (Cork) | 2011 | 19O01 | 0.0 | 11.9 | 11.1 | 0.0 | 0.0 | 23.0 |
| Owennacurra | 2011 | 19O03 | 0.0 | 16.5 | 1.0 | 0.0 | 0.0 | 17.5 |
| Shournagh | 2011 | 19S01 | 13.9 | 2.2 | 4.2 | 5.8 | 0.0 | 26.0 |
| Sullane | 2011 | 19S02 | 30.4 | 0.6 | 0.0 | 0.0 | 0.0 | 31.0 |
| Templebodan | 2011 | 19T01 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 |
| Toon | 2011 | 19T02 | 9.5 | 5.6 | 0.0 | 0.0 | 0.0 | 15.0 |
| Womanagh | 2011 | 19W01 | 0.0 | 12.0 | 9.0 | 0.0 | 0.0 | 21.0 |
| Total Length (km) surveyed this cycle | | | 150.6 | 195.9 | 30.6 | 11.4 | 0.0 | 388.5 |
| Adjustments (km) (See below)* | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Current Length (km) Adjusted | | | 150.6 | 195.9 | 30.6 | 11.4 | 0.0 | 388.5 |
| Percentages | | | 38.8 | 50.4 | 7.9 | 2.9 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | 2010- '12 | | | 346.5 | 30.6 | 11.4 | 0.0 | 388.5 |
| Percentages | | | | 89.2 | 7.9 | 2.9 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | 2007-'09 | | 127.8 | 220.0 | 39.3 | 1.5 | 0.0 | 388.5 |
| Percentages | | | 32.9 | 56.6 | 10.1 | 0.4 | 0.0 | 100.0 |
| Changes since Previous Survey (km) | | | 22.8 | -24.1 | -8.7 | 9.9 | 0.0 | 0.0 |

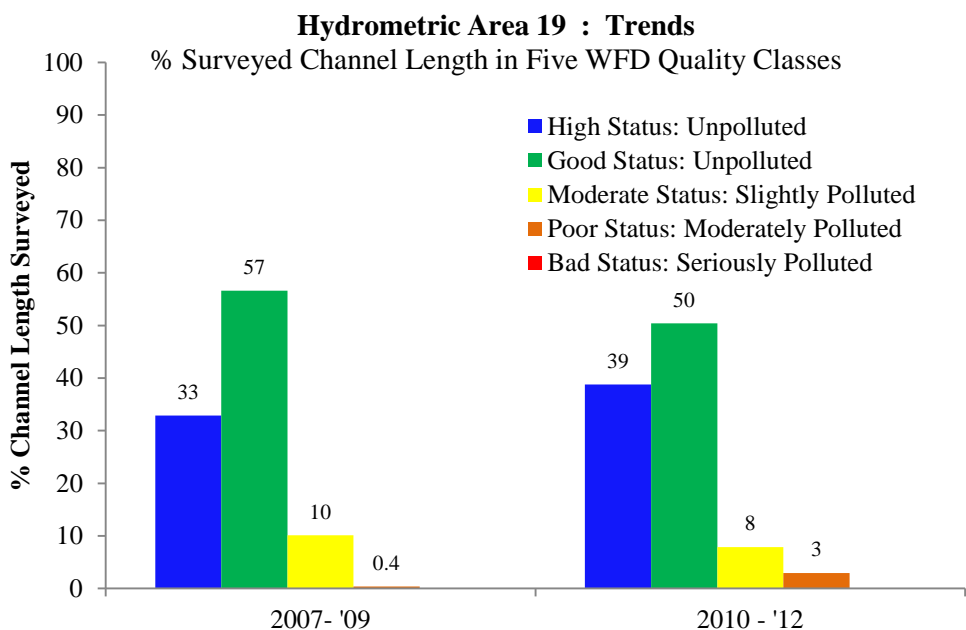
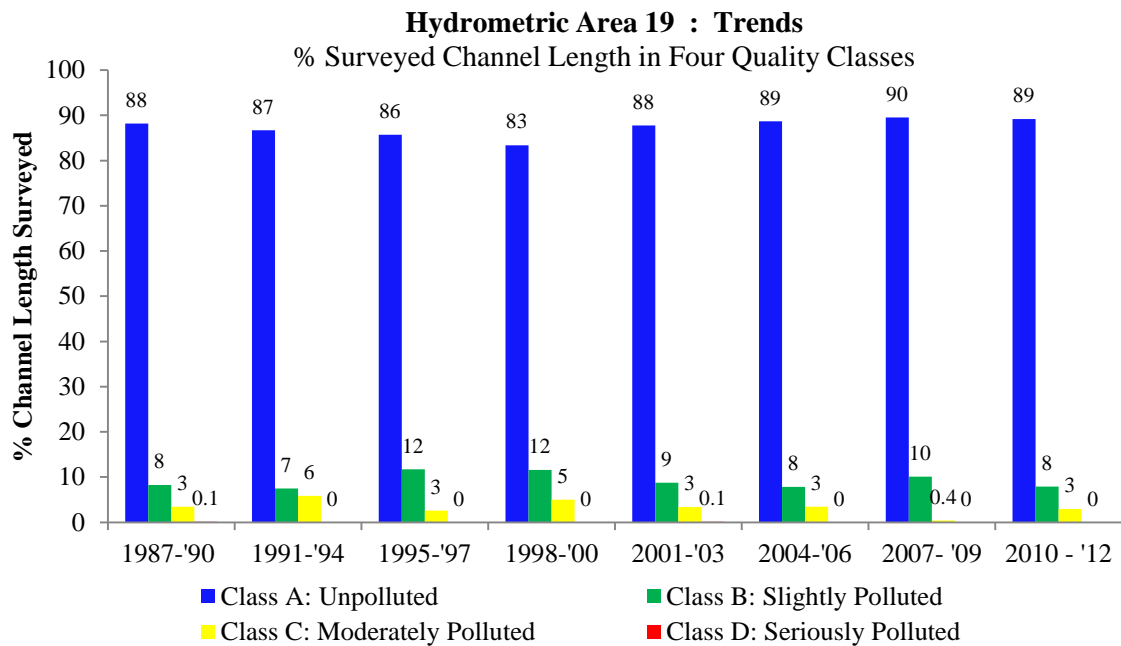
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-):

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Total Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 21 | 27 |
| Good | 40 | 38 |
| Moderate | 7 | 6 |
| Poor | 2 | 5 |
| Bad | 0 | 0 |
| Total number of sites surveyed | 70 | 76 |
| Total number of sites at unsatisfactory status | 9 | 11 |



HYDROMETRIC AREA 22 (Laune – Maine – Dingle Bay: Partial Survey)

Partial Survey in 2010 & 2011, Balance of Survey in 2012.

| | |
|-------------------|-------|
| ARABELA * | 22A34 |
| BROWN FLESK | 22B03 |
| CARAGH | 22C02 |
| COOMNACARRIG | 22C06 |
| CRINNAGH | 22C07 |
| DEENAGH | 22D01 |
| DOGUE | 22D03 |
| FINGLAS (LAUNE) | 22F03 |
| GLANTANE | 22G07 |
| GWEESTIN | 22G06 |
| LITTLE MAINE | 22L02 |
| LOO | 22L04 |
| MAINE | 22M01 |
| MEELAGH | 22M02 |
| MILLTOWN (KERRY) | 22M03 |
| OWENROE (CARAGH) | 22O04 |
| OWGARRIFF (FINOW) | 22O06 |

River and Code : **ARABELA** **22/A/34**
 Tributary of : 22L02 LITTLE MAINE OS Catchment No:
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 22/9/2011

Biological Quality Ratings (Q Values)

| | | |
|---------------------|-------------|--|
| Station Nos. | 2011 | |
| 0990 | 3 | |

Assessment: Poor ecological quality was recorded in this tributary of the Little Maine when sampled for the first time in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0990 | ARABELA | 93269 | 109488 | 71 | |

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: 20/9/2011, 21/9/2011, 22/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1981 | 1986 | 1990 | 1994 | 1996 | 1998 | 2002 | 2005 | 2007 | 2011 |
| 0010 | - | - | - | - | - | - | - | - | - | - | - |
| 0050 | - | 5 | - | 4-5 | 4 | 4-5 | 4-5 | 4 | 4 | - | 4-5 |
| 0100 | 5 | 5 | 4-5 | 4 | 2-3 | 3-4 | 3-4 | 4 | 4 | 4 | 4 |
| 0200 | - | 4-5 | 4 | 4 | 3 | 4 | 3-4 | 4 | 3-4 | 4 | 4-5 |
| 0300 | 5 | 5 | 5 | 4-5 | 4 | 3-4 | 4 | 4-5 | 4 | 4 | 4 |
| 0400 | - | 4 | 5 | 4-5 | 4 | 3-4 | 4 | 4-5 | 4 | 4 | - |
| 0500 | 5 | 5 | 5 | 4-5 | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4-5 |

Assessment: Generally satisfactory in 2011 with a number of improvements noted.

| 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 : **CARAGH**

22/C/02

Tributary of : Sea - Castlemaine Harbour

OS Catchment No: 208

OS Grid Ref of Confluence: V 675 938

Date(s) Surveyed: 27/9/2011, 28/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 4 | 4 | 4 | 4-5 | 4-5 | 4 | - | 4 |
| 0300 | 5 | - | - | - | - | - | - | - |
| 0400 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 |
| 0500 | 4-5 | - | - | - | - | - | - | - |
| 0600 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0680 | - | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0700 | 4 | - | - | - | - | - | - | - |

Assessment: No significant change in status in the Caragh river in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br SW of Cloghfune | 76021 | 80760 | 78 | KY |
| 0300 | Br u/s Owenroe R confl | 0 | 0 | 0 | KY |
| 0400 | Foot-bridge d/s Owenroe R confl | 72092 | 81555 | 78 | KY |
| 0500 | Bealalaw Bridge | 0 | 0 | 0 | KY |
| 0600 | Blackstones Br | 70954 | 86375 | 78 | KY |
| 0680 | 1.2km u/s Caragh Br | 70074 | 91800 | 78 | KY |
| 0700 | Caragh 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 | 70 | 12 | 100 | 0 | 14 | 0 | 67 | 0 | 0 | 0 | 19 |
| 0400 | 40 | 52 | 100 | 0 | 6 | 0 | 58 | 0 | 9 | 2 | 24 |
| 0600 | 19 | 107 | 100 | 0 | 5 | 3 | 63 | 0 | 9 | 2 | 17 |
| 0680 | 6 | 165 | 97 | 3 | 4 | 5 | 62 | 0 | 9 | 4 | 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 : **COOMNACARRIG**

22/C/06

Tributary of : 22C02 CARAGH

OS Catchment No: 208

OS Grid Ref of Confluence: V 717 818

Date(s) Surveyed: 27/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0300 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 |

Assessment: Good status continuing in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0300 | Dromalanhurt Br | 69699 | 81749 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 122 | 11 | 100 | 0 | 0 | 0 | 93 | 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 : **CRINNAGH**

22/C/07

Tributary of : Upper Lake - Killarney

OS Catchment No: 207

OS Grid Ref of Confluence: V 928 826

Date(s) Surveyed: 23/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 5 | 5 | 5 | 5 | 5 | 5 | 4-5 | 4-5 |

Assessment: High status was recorded again in the Crinnagh in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0200 | Cromglen Br | 92826 | 82623 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 20 | 11 | 100 | 0 | 0 | 8 | 92 | 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 : **DEENAGH**

22/D/01

Tributary of : Lough Leane

OS Catchment No: 207

OS Grid Ref of Confluence: V 945 902

Date(s) Surveyed: 21/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1986 | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0045 | - | - | - | - | 3-4 | 3-4 | 3 | 3 | 3 | 3 | 3-4 | 3 |
| 0100 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4 | - |
| 0200 | 5 | 5 | 5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | - |
| 0300 | 4 | 4-5 | 5 | 4 | 4-5 | - | - | - | - | - | - | - |
| 0500 | - | - | - | - | 4-5 | - | - | - | - | - | - | - |
| 0600 | - | - | - | - | - | 4-5 | 4 | 4 | - | - | - | - |

Assessment: The upper Deenagh (0045) was polluted in 2011 - (the two lower survey sites (0100,0200) were surveyed in 2012 and were at Good and High status respectively - see 2012 report).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0045 | Br NE of Tulloram | 102097 | 94592 | 79 | KY |
| 0100 | Br near Woodpark | 98935 | 93508 | 78 | KY |
| 0200 | Deenagh Br | 95996 | 91957 | 78 | KY |
| 0300 | King's Br | 0 | 0 | 0 | KY |
| 0500 | Second Br d/s King's Br | 0 | 0 | 0 | KY |
| 0600 | Br just u/s L Leane | 95306 | 90261 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0045 | 149 | 5 | 0 | 100 | 86 | 0 | 14 | 0 | 0 | 0 | 0 |
| 0100 | 93 | 22 | 0 | 100 | 75 | 0 | 20 | 0 | 5 | 0 | 0 |
| 0200 | 37 | 29 | 0 | 100 | 76 | 2 | 15 | 0 | 5 | 0 | 1 |
| 0600 | 24 | 31 | 0 | 100 | 74 | 3 | 14 | 1 | 5 | 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 : **DOGUE**

22/D/03

Tributary of : 22B03 BROWN FLESK

OS Catchment No: 197

OS Grid Ref of Confluence: R 021 023

Date(s) Surveyed: 21/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2002 | 2005 | 2007 | 2011 |
| 0300 | 3 | 3 | 4 | 4 | 4 | 4 | - | - |
| 0400 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory.

| 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 : **FINGLAS (LAUNE)****22/F/03**

Tributary of : 22L01 LAUNE

OS Catchment No: 207

OS Grid Ref of Confluence: V 805 942

Date(s) Surveyed: 27/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2005 | 2007 | 2010 | 2011 |
| 0400 | 5 | 5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4 | - |
| 0700 | 4 | 4 | 4-5 | 4 | 4 | 4-5 | - | - | 4 |

Assessment: Surveyed in 2010 and 2011 the Finglas showed a decline from previous High status to Good ecological status.

| 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 : **GLANTANE**

22/G/07

Tributary of : 22B03 BROWN FLESK

OS Catchment No: 197

OS Grid Ref of Confluence: R 062 032

Date(s) Surveyed: 20/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2002 | 2005 | 2007 | 2011 |
| 0200 | 4 | 3-4 | 4 | 4 | 4-5 | 4 | 4 | 4-5 |
| 0300 | 4 | - | - | - | - | - | - | - |

Assessment: An improvement to High status was noted in the Glantane in 2011.

| 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 : **GWEESTIN**

22/G/06

Tributary of : 22L01 LAUNE

OS Catchment No: 207

OS Grid Ref of Confluence: V 833 948

Date(s) Surveyed: 28/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0300 | - | 4 | 4 | 4-5 | 4 | 4 | 4 | 4-5 |
| 0400 | 4 | - | - | - | - | - | - | - |
| 0600 | 3 | 4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 |
| 0800 | 4 | - | - | - | - | - | - | - |
| 0900 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 1000 | 4 | - | - | - | - | - | - | - |
| 1200 | 2-3 | 3 | 2-3 | 3 | 3 | 3 | 3 | 3 |

Assessment: The Gweestin is in satisfactory condition in the mid and upper reaches with High or Good status recorded. The lower Gweestin Bridge (1200) continues to be polluted as in all previous surveys at Poor status: investigative monitoring is required in the immediate upstream stretches from Stn 0900 and Stn 1200 in particular where the decline in quality is quite dramatic.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 0300 | Doneen Br | 97002 | 97701 | 78 | KY |
| 0400 | Br E of Ballydeenlea | 0 | 0 | 0 | KY |
| 0600 | Gweestin Br | 92347 | 98241 | 78 | KY |
| 0800 | Rockfield Br | 0 | 0 | 0 | KY |
| 0900 | Br u/s Listry Br | 87651 | 97734 | 78 | KY |
| 1000 | Listry Br | 0 | 0 | 0 | KY |
| 1200 | Gweestin Br | 83778 | 94948 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 101 | 11 | 0 | 100 | 60 | 0 | 36 | 0 | 3 | 0 | 0 |
| 0600 | 55 | 22 | 0 | 100 | 65 | 0 | 20 | 0 | 15 | 0 | 0 |
| 0900 | 31 | 59 | 0 | 100 | 78 | 0 | 7 | 0 | 15 | 0 | 0 |
| 1200 | 10 | 67 | 0 | 100 | 78 | 0 | 7 | 0 | 14 | 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 : **LITTLE MAINE**

22/L/02

Tributary of : 22M01 MAINE

OS Catchment No: 197

OS Grid Ref of Confluence: Q 953 082

Date(s) Surveyed: 22/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2002 | 2005 | 2007 | 2011 |
| 0500 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4-5 |
| 0700 | 3-4 | - | - | - | - | - | - | - |
| 1000 | 4 | 3-4 | 4 | 3-4 | 4 | 3-4 | 4 | - |

Assessment: The upper Little Maine was surveyed in 2011 and was found to be at High status improved on the 2007 survey. Unfortunately the lower site was mistaken for a nearby tributary (Arabela) and was missed in the 2011 survey.

| 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 : **LOO**

22/L/04

Tributary of : 22F02 FLESK (KERRY)

OS Catchment No: 207

OS Grid Ref of Confluence: W 087 814

Date(s) Surveyed: 23/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2010 | 2011 |
| 0100 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - |
| 0300 | 4 | - | - | - | - | - | - | - | - |
| 0400 | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 | - | 4 |

Assessment: The Loo River was sampled in both 2010 and 2011 and both sites were at Good status with no change from recent previous surveys.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Agnanus Br | 104511 | 78891 | 79 | KY |
| 0300 | Second Br u/s Flesk R confl | 0 | 0 | 0 | KY |
| 0400 | Loo Br | 108561 | 81399 | 79 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 79 | 5 | 99 | 1 | 0 | 20 | 62 | 0 | 0 | 0 | 18 |
| 0400 | 64 | 32 | 98 | 2 | 3 | 11 | 74 | 0 | 0 | 0 | 13 |

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

River and Code : **MAINE****22/M/01**

Tributary of : Sea - Castlemaine Harbour

OS Catchment No: 197

OS Grid Ref of Confluence: Q 778 013

Date(s) Surveyed: 21/9/2011, 22/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1976 | 1981 | 1986 | 1990 | 1994 | 1996 | 1998 | 2002 | 2005 | 2007 | 2011 |
| 0100 | - | 4-5 | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 0200 | - | - | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | - | - |
| 0400 | - | 4-5 | 4 | 4 | 3 | 3-4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 4 |
| 0500 | 5 | 4 | 4-5 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 3-4 | 4 | 4 |
| 0600 | 5 | 5 | 4-5 | 4 | 4 | - | 3-4 | - | - | - | - | - |
| 0700 | - | - | 5 | 4 | 4 | 4 | - | 4 | 4 | 3-4 | 4 | 4 |

Assessment: A slight improvement was noted at Station 0400 downstream of Castleisland. It is still bordering on the Good Moderate boundary, however at this point but the range of invertebrates found in late September did suggest an improvement. On-going programmes of measures are required, however, to achieve Good status on an on-going basis. Good status was again attained in the lower reaches (0600, 0700).

| 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 | Currans Br | 93810 | 106463 | 71 | KY |
| 0600 | Maine Br, Currans | 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 : **MEELAGH****22/M/02**

Tributary of : 22C02 CARAGH

OS Catchment No: 208

OS Grid Ref of Confluence: V 707 866

Date(s) Surveyed: 27/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4 |

Assessment: A drop from High to Good status was noted in this Caragh River (qv) tributary with the loss of a number of sensitive taxa compared with the similar time of survey in 2007. The river was notable for the extensive filamentous green algae on the substratum.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0100 | Br u/s Caragh R confl | 70019 | 86334 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 27 | 14 | 100 | 0 | 0 | 3 | 57 | 0 | 1 | 0 | 38 |

Alt is 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 (KERRY)**

22/M/03

Tributary of : Sea - Dingle Harbour

OS Catchment No: 206

OS Grid Ref of Confluence: Q 435 011

Date(s) Surveyed: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 4 | 4 | - | - | - | - | - | - |
| 0110 | - | - | 4 | 4 | 3-4 | 3-4 | 4 | 4 |
| 0200 | 3 | 3 | 4 | 4 | 3 | 2 | 2-3 | 2-3 |
| 0300 | 3 | 3 | 3 | 3 | 3 | 2-3 | 4 | 3 |

Assessment: The upper site surveyed (0110) was at Good status but significant pollution due to highly visible and obvious leachate emanating from a farm silage making operation was noted in the Milltown (Kerry) River at Station 0200. The river had not recovered at the lower station monitored (0300). Such farm silage pollution has become rare in recent years - a fact which emphasises the seriousness of cases such as this when they do occur.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0100 | Glens Br | 0 | 0 | 0 | KY |
| 0110 | Br SE of Reenconnell | 42967 | 105894 | 70 | KY |
| 0200 | Br E of Gallán | 43119 | 104792 | 70 | KY |
| 0300 | Ford SE of Cill Fhiontain | 42831 | 102273 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0110 | 54 | 2 | 100 | 0 | 20 | 0 | 68 | 0 | 2 | 0 | 9 |
| 0200 | 35 | 13 | 100 | 0 | 29 | 0 | 42 | 0 | 13 | 0 | 16 |
| 0300 | 12 | 21 | 100 | 0 | 34 | 0 | 42 | 0 | 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 : **OWENROE (CARAGH)**

22/O/04

Tributary of : 22C02 CARAGH

OS Catchment No: 208

OS Grid Ref of Confluence: V 728 814

Date(s) Surveyed: 27/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 |

Assessment: Good status continuing in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0200 | 1.1km u/s Caragh R confl | 72882 | 80908 | 78 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 45 | 29 | 100 | 0 | 0 | 0 | 62 | 0 | 7 | 4 | 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 : **OWGARRIFF (FINOW)**

22/O/06

Tributary of : 22F04 FINOW

OS Catchment No: 207

OS Grid Ref of Confluence: W 008 860

Date(s) Surveyed: 23/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 5 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4 | 4-5 |

Assessment: A recovery to High status was noted in the Owgariff in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Owgariff Br | 100632 | 85963 | 79 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 70 | 11 | 79 | 21 | 8 | 0 | 44 | 0 | 11 | 3 | 34 |

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 |
| CLOGHANE (OWENMORE) * | 23C08 |
| CLYDAGH (FEALE) | 23C03 |
| CRUTTIA LOUGH STREAM * | 23C11 |
| FEALE | 23F01 |
| FEOHANAGH | 23F02 |
| FINGLAS | 23F03 |
| GALEY | 23G01 |
| GLASHACOOINCORE | 23G02 |
| GLASHOREAG | 23G03 |
| GLENACARNEY | 23G06 |
| GLENNAHOO | 23G05 |
| KNOCKFINNISK | 23K02 |
| LEE (TRALEE) | 23L01 |
| LYRACRUMPANE | 23L02 |
| MILLTOWN HOUSE STREAM | 23M04 |
| OOLAGH | 23O01 |
| OWENCASHLA | 23O02 |
| OWENMORE (KERRY) | 23O03 |
| OWENNAFEANA | 23O04 |
| OWVEG (KERRY) | 23O05 |
| SCORID | 23S01 |
| SMEARLAGH | 23S02 |
| TARMON STREAM | 23T03 |
| TULLALEAGUE | 23T01 |
| TYSHE | 23T02 |

* CLOGHANE (OWENMORE) Formerly reported as the Cloghane Branch of the Owenmore (Kerry)

* CRUTTIA LOUGH STREAM Formerly Lough Cruttia Branch of Owenmore Kerry 23O03

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: 19/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | - | 4 | - | 4-5 | 4 | 4 | 4 | n/s | 4 |
| 0400 | - | 4 | 4 | 4-5 | 4 | 3-4 | 4 | 4 | 3-4 |
| 0500 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 |
| 0600 | - | 4 | 3-4 | - | - | - | - | - | - |
| 0700 | - | 4 | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0900 | 4-5 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: A significant drop in quality was noted at Stations 0400 and 0500 in comparison with 2007 dropping from Good status at the upper site (0200). The lower reaches achieved Good status (0700, 0900).

| 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: 17/8/2011

23/B/02

OS Catchment No: 194

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | - | - | 4 | 4 | 4 | 4 | - | 4 |
| 0200 | 4 | 4 | - | - | - | - | - | - |
| 0300 | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 4 |

Assessment: 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: 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0200 | 4 | 4 | - | - | - | - | - | n/s |
| 0300 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | 3-4 | 4 | 3-4 | 3-4 | 3 | 3-4 | 4 | 4 |

Assessment: Good status continuing in 2011.

| 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: 17/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4 | 4-5 | 4-5 | 4 | 3-4 | 4 | - | 4 |
| 0200 | 4 | 4-5 | - | - | - | - | - | - |
| 0300 | - | - | 4 | 4 | 3-4 | 4 | 4 | 3-4 |

Assessment: While the upper Caher was satisfactory a drop in quality was noted just upstream of its confluence with the Feale (qv) - Moderate status recorded at Station 0300 in 2011.

| 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 : **CLOGHANE (OWENMORE)** **23/C/08**
 Tributary of : 23O03 OWENMORE (KERRY) OS Catchment No: 203
 OS Grid Ref of Confluence: Q 495 083
 Date(s) Surveyed: 7/10/2011

Formerly reported as the Cloghane Branch of the Owenmore (Kerry)

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0200 | 4 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 |

Assessment: Satisfactory.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0200 | 0.5 km d/s L Gal | 48674 | 106961 | 70 | KY |

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: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 4 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4-5 |
| 0400 | 3-4 | 4 | 4 | - | - | - | - | - |
| 0450 | - | - | - | - | 3 | 3-4 | - | 4 |
| 0500 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory overall with an improvement to High status at the upper (0200) site. Good status was recorded at the two lower sites (0450 and 0500).

| 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 | 113205 | 119022 | 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 : **CRUTTIA LOUGH STREAM**

23/C/11

Tributary of : 23O03 OWENMORE (KERRY)

OS Catchment No: 203

OS Grid Ref of Confluence:

Date(s) Surveyed: 7/10/2011

Formerly Lough Cruttia Branch of Owenmore Kerry 23O03

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 5 | 5 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 |

Assessment: High status retained in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Br d/s L. Cruite | 49161 | 108563 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 63 | 4 | 100 | 0 | 0 | 0 | 47 | 0 | 3 | 6 | 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 : **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: 8/9/2011, 17/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1975 | 1979 | 1982 | 1984 | 1986 | 1987 | 1989 | 1991 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0020 | - | - | - | - | - | - | 4 | - | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0040 | - | - | - | - | - | - | - | - | - | 4-5 | 4-5 | 4-5 | 4 | - | 4-5 |
| 0100 | 5 | 5 | 5 | - | 4 | 3-4 | 3-4 | - | 4-5 | - | - | - | - | - | - |
| 0120 | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0200 | 5 | 5 | 5 | - | 4 | 4-5 | 4 | - | 4-5 | 4-5 | 4-5 | 4 | 4 | 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 | 4 | 4 |
| 0320 | 5 | 5 | 4-5 | - | 4 | 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 | 4-5 | 4-5 |
| 0550 | - | - | - | - | - | - | - | - | - | 4 | 4 | 4-5 | 4 | 4 | 4 |
| 0600 | 5 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4 | - | 4 | 3-4 | 4 | 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 | 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 | 3-4 | 4 |

Assessment: In general there was no major change in status noticed in the Feale in 2011. Two stations showed improvements on their most recent previous surveys - in the upper reaches Station 0040 had returned to high status and the lowermost site was slightly improved achieving Good status although borderline with some signs of eutrophication still apparent.

| 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 (2011)

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 : **FEOHANAGH**
 Tributary of : Sea - Smerwick Harbour
 OS Grid Ref of Confluence: Q 388 097
 Date(s) Surveyed: 6/10/2011

23/F/02

OS Catchment No: 205

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 5 | 5 | 5 | 5 | 4-5 | 4 | - | 4-5 |
| 0300 | 5 | 4-5 | - | - | - | - | - | - |
| 0500 | 5 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 4 |

Assessment: High and Good status recorded at Stations 0100 and 0500 on the Feohanagh in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Droichead an Bhaile Bhric | 42099 | 108866 | 70 | KY |
| 0300 | 0.5 km u/s Ballyganneenbeg Br | 0 | 0 | 0 | KY |
| 0500 | Br at Feohanagh | 39400 | 109821 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 61 | 11 | 100 | 0 | 3 | 0 | 30 | 0 | 3 | 0 | 64 |
| 0500 | 1 | 30 | 100 | 0 | 31 | 0 | 32 | 0 | 1 | 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 : **FINGLAS**

23/F/03

Tributary of : Sea - Tralee Bay

OS Catchment No: t3

OS Grid Ref of Confluence: Q 701 103

Date(s) Surveyed: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1993 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0400 | 5 | 5 | 4-5 | 4-5 | 5 | 4-5 | 4-5 |

Assessment: High status continued in the Finglas in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0400 | Br d/s Curraduff Br | 69867 | 109708 | 71 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0400 | 15 | 15 | 100 | 0 | 18 | 0 | 72 | 1 | 0 | 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: 13/9/2011, 14/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1975 | 1979 | 1982 | 1986 | 1989 | 1993 | 1996 | 1999 | 2001 | 2005 | 2007 | 2011 |
| 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 | 4 | 4 |
| 0300 | - | - | - | - | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 |
| 0400 | 5 | 5 | 4-5 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 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 | 3-4 | 4 |
| 0600 | - | - | - | 3-4 | 3 | 3 | 3 | - | - | - | - | - | - |
| 0700 | 5 | 5 | 4-5 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |

Assessment: Mostly satisfactory with significant improvement recorded at the final location (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 : **GLASHACONCORE****23/G/02**

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 112 214

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | - | - | 4-5 | 4 | 4 | 4 | n/s | 4 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 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 : **GLASHOREAG**
 Tributary of : 23S02 SMEARLAGH
 OS Grid Ref of Confluence: Q 980 195
 Date(s) Surveyed: 9/9/2011

23/G/03

OS Catchment No: 194

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 4 | 4 | 4 | 3-4 | 4 | 4-5 | 3-4 | 4-5 |

Assessment: High ecological quality following improvement since previous survey.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0200 | Ivy Br | 97335 | 119638 | 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 | 145 | 17 | 0 | 100 | 0 | 16 | 56 | 0 | 7 | 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 : **GLENACARNEY**

23/G/06

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 192 149

Date(s) Surveyed: 17/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0300 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with good quality again recorded.

| 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 : **GLENNAHOO**

23/G/05

Tributary of : 23S01 SCORID

OS Catchment No: 201

OS Grid Ref of Confluence: Q 538 113

Date(s) Surveyed: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 4-5 | - | - | - | - | - | - |
| 0200 | 4-5 | 4-5 | 4-5 | 4-5 | 3-4 | 4 | 3-4B |

Assessment: Reversion to Moderate ecological quality when sampled in brackish reach in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0100 | Br at Drehidgortanaha | 0 | 0 | 0 | KY |
| 0200 | Br u/s Scorid R confl | 53850 | 111270 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 2 | 13 | 100 | 0 | 14 | 0 | 49 | 0 | 0 | 0 | 37 |

Alt is 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: 13/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 |

Assessment: Deterioration to Moderate ecological quality where Good in all previous surveys.

| 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 : **LEE (TRALEE)**

23/L/01

Tributary of : Sea - Tralee Bay

OS Catchment No: 196

OS Grid Ref of Confluence: Q 815 132

Date(s) Surveyed: 9/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1985 | 1987 | 1991 | 1996 | 1998 | 2001 | 2004 | 2007 | 2008 | 2009 | 2011 |
| 0030 | - | 3 | 3 | 2 | 3 | 2 | 3-4 | 2 | 2 | 2 | 4 |
| 0035 | - | 3 | 3 | 4 | 3 | 3-4 | 3-4 | 4 | - | - | - |
| 0040 | - | 3 | 4 | - | - | - | - | - | - | - | - |
| 0050 | 4 | 3 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | - | - | 4 |
| 0100 | 3-4 | 3-4 | 4 | 3 | 3 | 2-3 | 3 | 3-4 | - | - | 3-4 |

Assessment: Mostly satisfactory. Good ecological quality where previously Bad in upper reach with no change at other two locations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0030 | Ahnambraher Br (RHS) | 89700 | 114346 | 71 | KY |
| 0035 | Ahnambraher Br (LHS) | 89700 | 114346 | 71 | KY |
| 0040 | Br d/s Ahnambraher Br | 0 | 0 | 0 | KY |
| 0050 | Ballyseedy Br | 87875 | 112886 | 71 | KY |
| 0100 | 2nd Br d/s Bally Mullen Mills | 84460 | 113368 | 71 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0030 | 34 | 19 | 0 | 100 | 70 | 1 | 18 | 0 | 0 | 0 | 11 |
| 0035 | 34 | 19 | 0 | 100 | 70 | 1 | 18 | 0 | 0 | 0 | 11 |
| 0050 | 12 | 31 | 12 | 88 | 75 | 1 | 11 | 2 | 3 | 0 | 8 |
| 0100 | 5 | 62 | 20 | 80 | 67 | 1 | 15 | 4 | 9 | 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 : **LYRACRUMPANE**

23/L/02

Tributary of : 23S02 SMEARLAGH

OS Catchment No: 194

OS Grid Ref of Confluence: Q 982 232

Date(s) Surveyed: 9/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4-5 |

Assessment: Continuing satisfactory with High ecological quality recorded in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br u/s Smearlagh R confl | 98121 | 123176 | 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 | 110 | 12 | 0 | 100 | 8 | 16 | 72 | 0 | 2 | 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 : **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: 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1994 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4 | 3 | 4 | 3 | 4 | 4 | 2-3 |

Assessment: Significant deterioration, to Poor ecological quality, 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: 14/9/2011, 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | - | - | 4-5 | 4 | 4 | 4 | 4 | 4-5 |
| 0300 | 4-5 | 4 | - | - | - | - | - | - |
| 0500 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with High and Good ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 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 : **OWENCASHLA**

23/O/02

Tributary of : Sea - Tralee Bay

OS Catchment No: 199

OS Grid Ref of Confluence: Q 653 114

Date(s) Surveyed: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0300 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 |

Assessment: Satisfactory with High ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0300 | First Br u/s Sea | 64757 | 111353 | 71 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 12 | 16 | 100 | 0 | 7 | 16 | 77 | 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 : **OWENMORE (KERRY)**

23/O/03

Tributary of : Sea - Brandon Bay

OS Catchment No: 203

OS Grid Ref of Confluence: Q 513 110

Date(s) Surveyed: 7/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0300 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

Assessment: High ecological quality again recorded.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0300 | Br at Boherboy | 51285 | 110745 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 2 | 30 | 100 | 0 | 0 | 0 | 62 | 0 | 4 | 1 | 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 : **OWENNAFEANA****23/O/04**

Tributary of : Sea - Brandon Bay

OS Catchment No: 204

OS Grid Ref of Confluence: Q 524 146

Date(s) Surveyed: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with Good ecological quality again recorded.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Teer Br | 51756 | 113899 | 70 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 31 | 12 | 100 | 0 | 3 | 0 | 88 | 0 | 1 | 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 : **OWVEG (KERRY)**

23/O/05

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 089 233

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 0350 | 4 | 4 | 4 | 4 | 4 | 4 | n/s | 4 |
| 0400 | 4 | 4 | - | - | - | - | - | - |
| 0500 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Continuing satisfactory with Good and High ecological quality.

| 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 Glenna 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 : **SCORID**

23/S/01

Tributary of : Sea - Brandon Bay

OS Catchment No: 201

OS Grid Ref of Confluence: Q 537 114

Date(s) Surveyed: 6/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1991 | 1996 | 1998 | 2002 | 2004 | 2007 | 2011 |
| 0100 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0200 | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| 0300 | 4-5 | 4-5 | - | - | - | - | - | - |

Assessment: Continuing satisfactory with High ecological quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Kilmore Br | 0 | 0 | 0 | |
| 0200 | Br E of Kilmurry | 53318 | 110144 | 70 | KY |
| 0300 | Br u/s Glennahoo 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 |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 20 | 14 | 100 | 0 | 3 | 0 | 62 | 0 | 10 | 2 | 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 : **SMEARLAGH**

23/S/02

Tributary of : 23F01 FEALE

OS Catchment No: 194

OS Grid Ref of Confluence: R 030 330

Date(s) Surveyed: 7/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0300 | - | - | 4-5 | 4 | 4 | 4-5 | 4 | 4-5 |
| 0400 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 |
| 0500 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - |
| 0700 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 |
| 0710 | - | 3 | 4 | 4 | 4 | 4 | - | - |

Assessment: Satisfactory with High ecological quality recorded at all locations sampled in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------------|------------|-------------|----------------------|-------------|
| 0300 | Br SE of Reanagowan Crossroads | 97580 | 118967 | 71 | KY |
| 0400 | Br u/s Lyracrumpane R confl | 98350 | 123279 | 71 | KY |
| 0500 | Br NE of Gortacloghane | 101400 | 126612 | 72 | KY |
| 0700 | Ford u/s Feale R confl | 102540 | 132324 | 64 | KY |
| 0710 | Kennelly's Br | 102540 | 132324 | 64 | KY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 151 | 18 | 0 | 100 | 4 | 34 | 44 | 0 | 3 | 0 | 14 |
| 0400 | 106 | 51 | 0 | 100 | 4 | 23 | 48 | 0 | 10 | 0 | 15 |
| 0500 | 70 | 85 | 0 | 100 | 13 | 21 | 50 | 0 | 6 | 0 | 10 |
| 0700 | 29 | 128 | 0 | 100 | 28 | 14 | 43 | 0 | 6 | 0 | 9 |
| 0710 | 29 | 128 | 0 | 100 | 28 | 14 | 43 | 0 | 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 : **TARMON STREAM**

23/T/03

Tributary of : 23G01 GALEY

OS Catchment No: 194

OS Grid Ref of Confluence: R 017 400

Date(s) Surveyed: 13/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1993 | 1996 | 1999 | 2001 | 2005 | 2007 | 2011 |
| 0500 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 |

Assessment: Continuing unsatisfactory with Poor quality again recorded.

| 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: 19/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |
| 0200 | 4 | 4 | - | - | - | - | - | - |

Assessment: Improved to Good ecological quality where only Moderate in previous five surveys.

| 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: 15/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1987 | 1988 | 1989 | 1993 | 1994 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 1 | 1 | 2-3 | 1 | 2-3 | 3 | - | - | - | - | - |
| 0400 | 1 | 2 | 2-3 | 3 | - | 3 | 3 | 3 | 3 | 3-4 | 3 |
| 0500 | 1 | 2-3 | 3 | 3 | - | 3 | - | - | - | - | - |

Assessment: Continuing unsatisfactory with reversion to Poor ecological quality since previous survey when Moderate.

| 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.

SHIRBD: HYDROMETRIC AREA NO. 23

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|---|------|-------|--------------|--------------|-------------|-------------|------------|--------------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Allaghaun | 2011 | 23A01 | 0.0 | 14.8 | 8.2 | 0.0 | 0.0 | 23.0 |
| Breanagh | 2011 | 23B02 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Brick | 2011 | 23B03 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Caher (Limerick) | 2011 | 23C01 | 0.0 | 3.8 | 0.2 | 0.0 | 0.0 | 4.0 |
| Cloghane (Owenmore) | 2011 | 23C08 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| Clydagh (Feale) | 2011 | 23C03 | 8.0 | 1.5 | 0.0 | 0.0 | 0.0 | 9.5 |
| Cruttia L. Stream | 2011 | 23C11 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Feale | 2011 | 23F01 | 15.7 | 44.3 | 0.0 | 0.0 | 0.0 | 60.0 |
| Feohanagh | 2011 | 23F02 | 6.9 | 0.1 | 0.0 | 0.0 | 0.0 | 7.0 |
| Finglas | 2011 | 23F03 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 |
| Galey | 2011 | 23G01 | 0.0 | 37.7 | 4.4 | 0.0 | 0.0 | 42.0 |
| Glashaconcore | 2011 | 23G02 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| Glashoreag | 2011 | 23G03 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 |
| Glenacarne | 2011 | 23G06 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| Glennahoo | 2011 | 23G05 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 5.5 |
| Knockfinnisk | 2011 | 23K02 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 7.0 |
| Lee (Tralee) | 2011 | 23L01 | 0.0 | 9.0 | 2.0 | 0.0 | 0.0 | 11.0 |
| Lyracrumpane | 2011 | 23L02 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Milltown House Stream | 2011 | 23M04 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Oolagh | 2011 | 23O01 | 10.7 | 1.8 | 0.0 | 0.0 | 0.0 | 12.5 |
| Owencashla | 2011 | 23O02 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Owenmore (Kerry) | 2011 | 23O03 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Owennafeana | 2011 | 23O04 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 |
| Owveg (Kerry) | 2011 | 23O05 | 7.1 | 3.9 | 0.0 | 0.0 | 0.0 | 11.0 |
| Scorid | 2011 | 23S01 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Smearlagh | 2011 | 23S02 | 22.5 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5 |
| Tarmon Stream | 2011 | 23T03 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 5.5 |
| Tullaleague | 2011 | 23T01 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| Tyshe | 2011 | 23T02 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 7.5 |
| Total Length (km) surveyed this cycle | | | 103.4 | 155.9 | 27.3 | 14.0 | 0.0 | 300.5 |
| Adjustments (km) (See below)* | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Current Length (km) Adjusted | | | 103.4 | 155.9 | 27.3 | 14.0 | 0.0 | 300.5 |
| Percentages | | | 34.4 | 51.9 | 9.1 | 4.7 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | | | 2011 | 259.3 | 27.3 | 14.0 | 0.0 | 300.5 |
| <i>Percentages</i> | | | | 86.3 | 9.1 | 4.7 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | | | 2007-'09 | 22.0 | 227.5 | 40.1 | 10.9 | 300.5 |
| <i>Percentages</i> | | | | 7.3 | 75.7 | 13.3 | 3.6 | 100.0 |
| Changes since Previous Survey (km) | | | | 81.4 | -71.7 | -12.9 | 3.1 | 0.0 |

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

**Clabby *et al.*, 2008

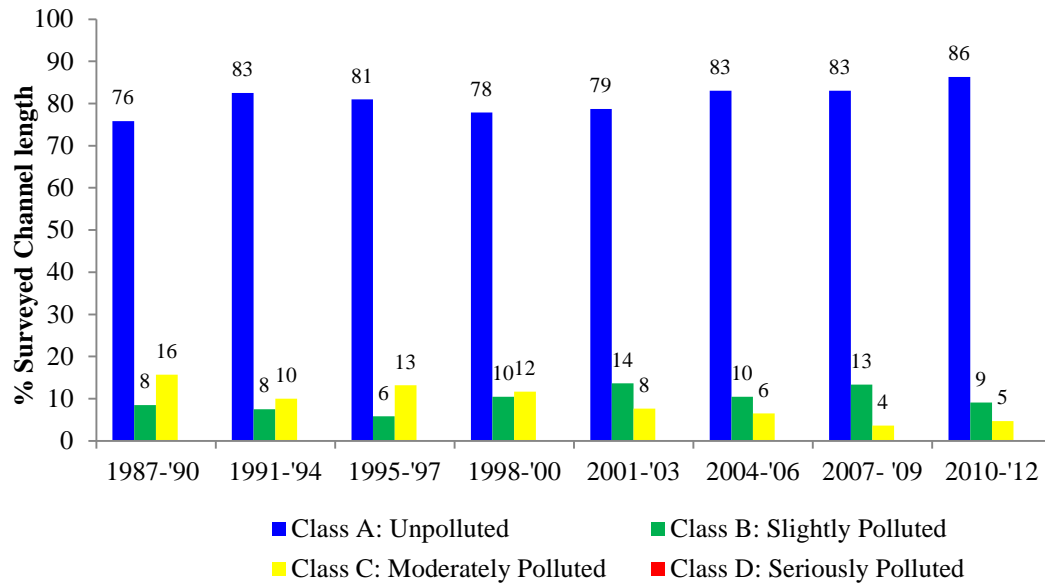
¹ Rivers not previously included in the National Statistics

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

| Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 5 | 17 |
| Good | 42 | 34 |
| Moderate | 6 | 7 |
| Poor | 2 | 3 |
| Bad | 1 | 0 |
| Total number of sites surveyed | 56 | 61 |
| Total number of sites at unsatisfactory status | 9 | 10 |

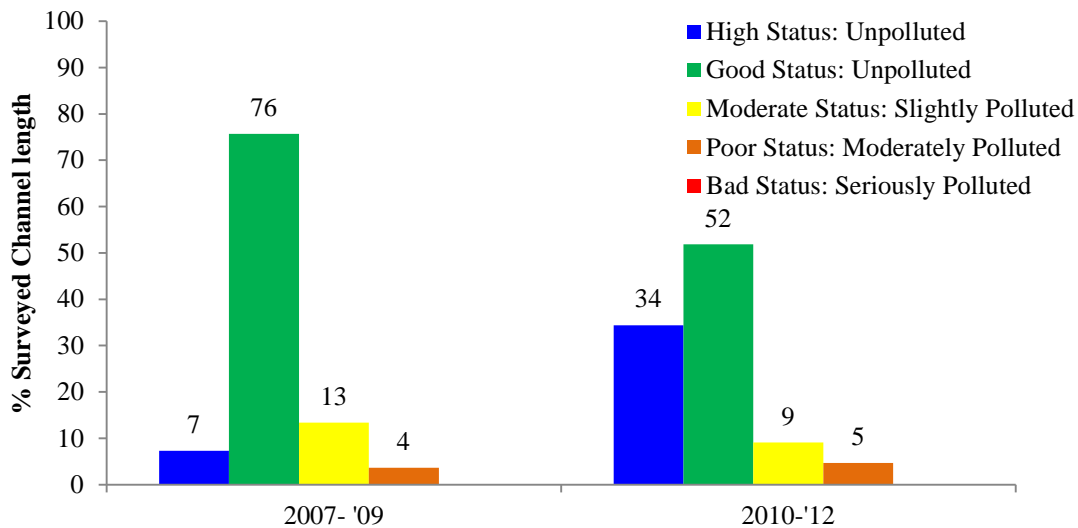
Hydrometric Area 23 : Trends

% Surveyed Channel Length in Four Quality Classes



Hydrometric Area 23 : Trends

% Surveyed Channel Length in Five WFD Quality Classes



HYDROMETRIC AREA 24 (Shannon Estuary South: Partial Survey)

Partial Survey Only, Balance of Survey in 2012.

| | |
|----------------------|-------|
| AHACRONANE | 24A01 |
| AHAVARRAGA STREAM | 24A02 |
| ARRA | 24A04 |
| BALLYLONGFORD | 24B03 |
| BARNAKYLE | 24B05 |
| BROADFORD STREAM | 24B07 |
| BUNOKE | 24B06 |
| CHARLEVILLE STREAM | 24C02 |
| CLOONLAHARD STREAM * | 24C06 |
| DEEL (NEWCASTLEWEST) | 24D02 |
| DOONCAHA STREAM * | 24D07 |
| GLENCORBRY | 24G03 |
| LISMAKEERY STREAM | 24L03 |
| MAIGUE | 24M01 |
| OWVANE (LIMERICK) | 24O02 |
| SHANAGOLDEN STREAM | 24S02 |
| TARBERT STREAM | 24T01 |

* CLOONLAHARD STREAM Formerly West Branch of Owvane (Limerick) 24O02

* DOONCAHA STREAM Formerly reported as the Middle Branch of the Shanagolden Stream

River and Code : **AHACRONANE**

24/A/01

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 282 500

Date(s) Surveyed: 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0400 | 3 | 3 | 3 | 3 | 3 | 3 | - | 3 |
| 0700 | 3 | - | - | - | - | - | - | - |
| 0900 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Assessment: Both stations surveyed on the Ahacronane in late July 2011 were at poor status with no change recorded vis a vis 2008 and earlier years. Cattle access is an issue at Station 0400. The river has an unusual calcareous substratum.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------|------------|-------------|----------------------|-------------|
| 0400 | Br N of Lissatotan | 130843 | 144103 | 64 | LK |
| 0700 | Br N of Nutgrove Ho | 0 | 0 | 0 | LK |
| 0900 | Br SW of Barrigone | 128407 | 149779 | 64 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0400 | 37 | 10 | 0 | 100 | 89 | 0 | 5 | 0 | 6 | 0 | 0 |
| 0900 | 2 | 22 | 0 | 100 | 77 | 0 | 2 | 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 : **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: 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - |
| 0300 | 1 | 3 | - | - | - | - | - | - | - |
| 0400 | 1 | 2-3 | - | 2 | 2 | 2 | 1-2 | 2 | 1-2 |
| 0600 | 2 | 3 | - | - | - | - | - | - | - |
| 0800 | 1-2 | 3 | 2 | 2-3 | 3 | 3 | - | 3 | 2-3 |

Assessment: Serious pollution downstream of Drumcolliher (0400) was again noted in 2011 with a slight improvement at 0800 albeit of poorer quality than in 2008.

| 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 Mundellihy | 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: 27/7/2011, 28/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 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 | 3 | 3 |
| 0600 | 3-4 | 4 | - | - | - | - | - | - |

Assessment: The upper Arra (0300) was at good ecological status - no change compared with previous surveys. The lower site surveyed (0500) in Newcastlewest remained at poor status and similar to the 2008 survey.

| 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: 14/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 3 | 3-4 | 4 | 4 | 4 | - | - |
| 0400 | - | - | - | - | - | 2-3 | 3-4 | 3-4 |
| 0700 | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 4 | 4 |

Assessment: No change with one of the two locations again only Moderate ecological quality.

| 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 |
| 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 : **BARNAKYLE**

24/B/05

Tributary of : 24M01 MAIGUE

OS Catchment No: 155

OS Grid Ref of Confluence: R 481 529

Date(s) Surveyed: 23/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1994 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0300 | - | 3 | 3-4 | 3 | 3 | 3 | 3 | 3 |
| 0400 | - | 3 | 3-4 | 3-4 | 3-4 | 3-4 | - | - |
| 0500 | 4 | - | - | - | - | - | - | - |
| 0600 | 3-4 | 3 | 2-3 | 3 | 3 | 3 | 3 | 3 |

Assessment: Continuing unsatisfactory, with Poor ecological quality, at both locations.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0300 | Br SW of Kilpeacon Crossroads | 156264 | 147695 | 65 | LK |
| 0400 | Dooneen Br | 154611 | 149862 | 65 | LK |
| 0500 | Barnakyle Br | 0 | 0 | 0 | LK |
| 0600 | Br SE of Clarina | 151064 | 153057 | 65 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0300 | 34 | 12 | 0 | 100 | 86 | 0 | 0 | 0 | 14 | 0 | 0 |
| 0400 | 20 | 1 | 0 | 100 | 61 | 0 | 0 | 0 | 39 | 0 | 0 |
| 0600 | 7 | 43 | 0 | 100 | 85 | 0 | 0 | 5 | 9 | 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: 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0500 | 4 | 4 | 3 | 2-3 | 3 | 3-4 | 3-4 | 4 |

Assessment: Improved with both locations indicating Good ecological quality in 2011.

| 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: 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0005 | - | 3 | - | - | - | - | - | - | - |
| 0025 | - | 3 | 2-3 | 2 | 3 | 3 | 3 | 3 | 2-3 |
| 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 | 4 | 3-4 |
| 0150 | - | 3 | 4 | 4 | - | - | - | - | - |
| 0200 | 3-4 | 3-4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 3-4 |

Assessment: The Bunoke is a tributary of the Deel (qv) and it suffered an overall decline in status in 2011 with a drop in quality noted at all three sites surveyed in comparison with 2008.

| 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 : **CHARLEVILLE STREAM**

24/C/02

Tributary of : 24M01 MAIGUE

OS Catchment No: 155

OS Grid Ref of Confluence: R 543 274

Date(s) Surveyed: 22/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1986 | 1988 | 1989 | 1994 | 1996 | 1999 | 2003 | 2006 | 2008 | 2011 |
| 0200 | - | - | - | 3 | 3 | 2-3 | 3 | 3 | 3 | 3 |
| 0400 | 1 | - | 2-3 | - | - | - | - | - | - | - |
| 0500 | 2 | 2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 |
| 0800 | 3 | 2 | 2-3 | 2-3 | 3 | 3 | 3 | 3 | 3 | 3 |

Assessment: No change. Continuing unsatisfactory with Poor ecological quality again recorded at all three locations. Also known as River Glen.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0200 | New Line Br [Glen R] | 153534 | 122380 | 73 | CK |
| 0400 | Br S of Ballincolly | 0 | 0 | 0 | CK |
| 0500 | Br NW of Ballincolly | 154136 | 125076 | 73 | LK |
| 0800 | Just u/s Maigue R confl | 154304 | 127653 | 73 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 109 | 6 | 0 | 100 | 83 | 0 | 0 | 17 | 0 | 0 | 0 |
| 0500 | 66 | 12 | 0 | 100 | 81 | 0 | 0 | 19 | 0 | 0 | 0 |
| 0800 | 56 | 105 | 5 | 94 | 92 | 0 | 0 | 3 | 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 : **CLOONLAHARD STREAM**

24/C/06

Tributary of : 24O02 OWVANE (LIMERICK)

OS Catchment No: 155d

OS Grid Ref of Confluence:

Date(s) Surveyed: 14/9/2011

Formerly West Branch of Owvane (Limerick) 24O02

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|
| | 1994 | 1996 | 1999 | 2006 | 2008 | 2011 |
| 0040 | 4 | 4 | 4 | 3 | 4 | 4 |

Assessment: Good ecological quality maintained.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0040 | Br u/s Cloonlahard Br | 118127 | 143474 | 64 | LK |

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: 26/7/2011, 28/7/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1975 | 1978 | 1980 | 1982 | 1984 | 1986 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0100 | 1 | 1 | 1 | 3 | 3 | 3 | 2-3 | 3 | 3 | 3 | 3-4 | 3-4* | 4 | - | 4 | 3-4 |
| 0200 | 4 | 4 | 3 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 4 | 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 | - | 3 | 3-4 |
| 0400 | 4 | 3-4 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | 3 | 3 | 3-4 | 3-4 | 4 | 4 | - | 3-4 | 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 | - | 4 | 4 |
| 0600 | 3 | 3 | 3 | 3 | 3 | 3 | 2-3 | 3 | 3 | 2-3 | 2 | 2-3 | 2 | 3-4 | 3-4 | 4 |
| 0700 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2-3 | 2-3 | 3 | 2-3 | - | 3 | n/s |
| 0800 | - | 2-3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3-4 | - | 4 | 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 | - | 3* | 3 |
| 1100 | 4 | - | 4 | 3-4 | 3 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | - | 3-4 | 3-4 |
| 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 | - | 3-4 | 4 |

Assessment: The Deel showed a number of improvements in 2011 in comparison with the 2008 survey (0300, 0400, 0600 and 1300 in particular). A drop in quality was noted at the upper station in Milford (0100). Four of the 10 sites sampled were unchanged relative to the 2008 survey. (Station 0700 was not sampled due to access issues at the time of sampling.) An ongoing improvement in ecological status is apparent in the Deel with conditions much improved compared with the situation in the relatively recent past.

| 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 | CK |
| 0500 | 0.8 km u/s Castlemahon Br | 131806 | 130995 | 64 | CK |
| 0600 | D/s Mahoonagh Br | 131260 | 131413 | 64 | CK |
| 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 | 133472 | 138610 | 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 (2011)

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 : **DOONCAHA STREAM**

24/D/07

Tributary of : 24S02 SHANAGOLDEN STREAM

OS Catchment No: 155

OS Grid Ref of Confluence: R 270 492

Date(s) Surveyed: 28/7/2011

Formerly reported as the Middle Branch of the Shanagolden Stream

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 1000 | 2 | 2-3 | 2-3 | 2-3 | 3 | 3 | 3 | 3 |
| 1200 | 3 | - | - | - | - | - | - | - |

Assessment: Poor ecological quality again recorded.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 1000 | Br SW of Tiermore | 126029 | 145473 | 64 | LK |
| 1200 | Bartholemew's Br | 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 |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 1000 | 50 | 5 | 0 | 100 | 91 | 4 | 0 | 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 : **GLENCORBRY**
 Tributary of : Sea - Shannon Estuary
 OS Grid Ref of Confluence: R 131 475
 Date(s) Surveyed: 14/9/2011

24/G/03

OS Catchment No: 155

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | - | 3-4 | 4 | 3-4 | 4 | 3-4 | - | 4 |
| 0300 | 4 | - | - | - | - | - | - | - |
| 0400 | 4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: Improved with Good ecological quality at both locations sampled in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br d/s Br NE of Tulllyleague | 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 : **LISMAKEERY STREAM****24/L/03**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 324 520

Date(s) Surveyed: 14/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1993 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0600 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 |

Assessment: Poor ecological quality again recorded.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0600 | Br SE of Tomdeely | 132323 | 150726 | 64 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0600 | 10 | 19 | 0 | 100 | 72 | 2 | 0 | 0 | 19 | 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 : **MAIGUE**

24/M/01

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 456 568

Date(s) Surveyed: 21/9/2011, 22/9/2011

| | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Station Nos. | 1971 | 1974 | 1976 | 1978 | 1981 | 1984 | 1988 | 1994 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0010 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0020 | - | - | - | - | - | - | - | 3 | 3 | 2-3 | 3 | dry | 3 | 3 |
| 0050 | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3-4 |
| 0100 | 4-5 | 4 | - | - | - | 4 | 3-4 | - | - | - | - | - | - | - |
| 0200 | 3 | 3 | 4 | 3-4 | - | 3-4 | 3-4 | 3 | 3 | 3-4 | 3-4 | - | - | - |
| 0300 | 2-3 | 3 | 3 | 3 | - | 3-4 | 3-4 | 3 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0400 | 4 | 4 | 4 | 4 | - | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 | 3-4 | 4 | 4 |
| 0500 | 4-5 | 4 | - | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 4 | 4 |
| 0600 | - | 4 | - | 4 | 3-4 | 3-4 | 3-4 | - | - | - | - | - | - | - |
| 0700 | 4 | 4 | - | 4 | 4 | 4 | 4 | 3-4 | 3 | 3 | 3-4 | 3-4 | 4 | 4 |
| 0800 | - | - | - | 4 | 4 | 3-4 | 3-4 | - | - | - | - | - | - | - |
| 0900 | 4-5 | 4 | - | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 | 4 | 4 | 4 |

Assessment: Mostly satisfactory, with Good ecological quality, but continuing only Moderate and Poor in upper part of river.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0010 | Coor Br | 143730 | 125188 | 0 | CK |
| 0020 | Belleisle Br | 145115 | 126346 | 73 | LK |
| 0050 | Fort Br | 150644 | 125676 | 73 | LK |
| 0100 | Fort Br East | 151355 | 126685 | 0 | LK |
| 0200 | Creggane Br | 153423 | 127285 | 73 | LK |
| 0300 | Br in Bruree | 154954 | 130436 | 65 | LK |
| 0400 | Howardstown Br | 154059 | 132893 | 65 | LK |
| 0500 | Br nr Rosstemple | 153491 | 136621 | 65 | LK |
| 0600 | Cherrygrove Br | 152794 | 138505 | 65 | LK |
| 0700 | Br in Croom | 151274 | 141001 | 65 | LK |
| 0800 | Br (Ford) nr Caherass Ho | 150215 | 142690 | 0 | LK |
| 0900 | Castleroberts Br | 148000 | 143779 | 65 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0020 | 92 | 13 | 0 | 100 | 99 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0050 | 66 | 65 | 6 | 93 | 92 | 0 | 0 | 1 | 6 | 0 | 1 |
| 0200 | 58 | 83 | 6 | 92 | 93 | 0 | 0 | 1 | 6 | 0 | 1 |
| 0300 | 50 | 242 | 17 | 83 | 92 | 3 | 0 | 2 | 2 | 0 | 1 |
| 0400 | 40 | 280 | 16 | 83 | 93 | 3 | 0 | 1 | 2 | 0 | 1 |
| 0500 | 29 | 477 | 20 | 80 | 93 | 2 | 0 | 1 | 3 | 0 | 1 |
| 0600 | 25 | 488 | 21 | 79 | 93 | 2 | 0 | 1 | 3 | 0 | 1 |
| 0700 | 19 | 770 | 16 | 84 | 94 | 1 | 0 | 1 | 3 | 0 | 1 |
| 0900 | 11 | 806 | 15 | 85 | 94 | 1 | 0 | 1 | 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 : **OWVANE (LIMERICK)**

24/O/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 192 498

Date(s) Surveyed: 16/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1975 | 1979 | 1986 | 1988 | 1994 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0050 | - | - | - | - | - | 4 | - | - | - | - | - | - |
| 0070 | - | - | - | - | - | - | - | 4-5 | 4 | 4 | 4 | 4-5 |
| 0075 | - | - | - | - | - | 3-4 | 3-4 | 4 | 4 | 4 | 4 | 4 |
| 0090 | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0100 | 5 | 4-5 | 4-5 | 4-5 | 3-4 | - | - | - | - | - | - | - |
| 0120 | - | - | - | - | - | 4 | 3-4 | 4 | 3-4 | - | - | - |
| 0200 | - | 4-5 | 4-5 | 4 | 3-4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory with Good and High ecological quality in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------------|------------|-------------|----------------------|-------------|
| 0050 | 0.1km u/s confl with Main Channel | 0 | 0 | 0 | |
| 0070 | Br S of Gortadroma | 122260 | 143136 | 64 | LK |
| 0075 | Br SW of Gortadroma | 121672 | 143159 | 64 | LK |
| 0090 | Br u/s Ballyhahill Br | 120171 | 145841 | 64 | LK |
| 0100 | Ballyhahill Br | 0 | 0 | 0 | LK |
| 0120 | 0.5km d/s Ballyhahill Br | 119348 | 146397 | 64 | LK |
| 0200 | Br u/s (SE of) Loghill | 119326 | 149587 | 64 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0070 | 105 | 14 | 0 | 100 | 47 | 24 | 15 | 0 | 3 | 0 | 12 |
| 0075 | 103 | 16 | 0 | 100 | 46 | 21 | 16 | 2 | 4 | 0 | 10 |
| 0090 | 67 | 24 | 0 | 100 | 47 | 19 | 15 | 1 | 5 | 0 | 13 |
| 0120 | 52 | 52 | 0 | 100 | 41 | 13 | 24 | 1 | 3 | 0 | 19 |
| 0200 | 7 | 70 | 0 | 100 | 53 | 9 | 18 | 0 | 3 | 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 : **SHANAGOLDEN STREAM**

24/S/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 270 500

Date(s) Surveyed: 16/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 1700 | - | 4 | 3-4 | 3 | 3 | 4 | 4 | 4 |
| 1800 | 3-4 | - | - | - | - | - | - | - |
| 1900 | 2-3 | - | - | - | - | - | - | - |
| 2000 | 3 | 3-4 | 4 | 4 | 3-4* | 4 | 4 | 4 |

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

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 1700 | Br S of Shanagolden | 125088 | 146370 | 64 | LK |
| 1800 | Br SE of Shanagolden | 0 | 0 | 0 | LK |
| 1900 | 1.3km d/s 1800 | 0 | 0 | 0 | LK |
| 2000 | Br NW of Stokesfield | 126981 | 149371 | 64 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 1700 | 40 | 5 | 0 | 100 | 69 | 8 | 8 | 0 | 15 | 0 | 0 |
| 2000 | 3 | 31 | 0 | 100 | 85 | 2 | 2 | 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 : **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: 14/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 3-4 | 3 | 3 | 3 | 3 | 4 | 4 |

Assessment: Good ecological quality maintained since 2008 survey.

| 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 survey in 2012

| | |
|------------------------------|-------|
| ARDCRONY STREAM | 25A06 |
| BALLYFINBOY | 25B02 |
| BALLYNACARRIG | 25B18 |
| BALLYNAGRENIA STREAM | 25B16 |
| BLACK (BALLYBOY) | 25B04 |
| BLACKWATER (SHANNONBRIDGE) | 25B27 |
| BOORA | 25B08 |
| BREAGHMORE | 25B12 |
| BROSNA | 25B09 |
| BUNOW | 25B25 |
| CAMCOR | 25C02 |
| CARRIGAHORIG STREAM | 25C16 |
| CLAREEN STREAM | 25C13 |
| CLODIAGH (TULLAMORE) | 25C06 |
| COUNTY (LAOIS/OFFALY) | 25C21 |
| DURROW ABBEY STREAM | 25D12 |
| DYSART STREAM (LOUGH ENNELL) | 25D05 |
| GAGEBOROUGH | 25G01 |
| GLENFELLY STREAM * | 25G21 |
| GOLDEN GROVE STREAM | 25G06 |
| GORRAGH | 25G09 |
| KEELOGE STREAM * | 25K14 |
| KILCOMIN STREAM * | 25K15 |
| KILFADDA CASTLE STREAM * | 25K07 |
| LITTLE (CLOGHAN) | 25L01 |
| LITTLE BROSNA | 25L02 |
| LORRHA STREAM | 25L05 |
| MOATE STREAM | 25M05 |
| MONAGHANSTOWN | 25M01 |
| PALLAS | 25P01 |
| POLLAGH STREAM (BROSNA) | 25P05 |
| RAPEMILLS | 25R01 |
| ROCK (BIRR) | 25R02 |
| SHANNON (Lower) | 25S01 |
| SHINRONE STREAM | 25S11 |
| SILVER (KILCORMAC) | 25S02 |
| SILVER (TULLAMORE) | 25S03 |
| SYONAN CASTLE STREAM | 25S04 |
| TULLAMORE | 25T03 |

* GLENFELLY STREAM Formerly West Branch of Camcor River 25C02

* KEELOGE 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 (qv).

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: 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0500 | 4 | 3-4 | 3-4 | 4-5 | 3-4 | 3 | 3-4 | 4 |

Assessment: The macroinvertebrate fauna indicated a welcome improvement to good ecological conditions in the lower reaches (0500) in August 2011 although enhanced instream plant growth indicated signs of some enrichment.

| 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 : **BALLYFINBOY****25/B/02**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 830 982

Date(s) Surveyed: 23/8/2011, 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1978 | 1982 | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0070 | - | - | - | - | - | 4-5 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0100 | 5 | 4 | 4 | 4 | 3 | 3 | 3-4 | 3 | 3-4 | 3-4* | 4 | - | 4 |
| 0150 | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0200 | - | - | - | 4-5 | 3 | 3-4 | - | - | - | - | - | - | - |
| 0250 | - | - | - | - | - | - | - | - | - | 4 | 4-5 | 3-4 | n/s |
| 0300 | - | - | 4-5 | 4-5 | 3-4 | 4-5 | 4 | 3 | 4 | - | - | 3-4 | 3-4 |
| 0400 | 5 | 4-5 | 4-5 | 4 | - | 4 | 4 | - | 4 | 3-4 | 3-4 | 3 | 3-4 |
| 0550 | - | - | - | - | - | 3-4 | 3-4 | 3 | 3-4 | 3 | 3 | - | 3-4 |
| 0600 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | 4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| 0700 | 5 | 3-4 | 4 | 4-5 | 4 | 4 | 3-4 | 3 | 3-4 | 4 | 4 | - | 4 |
| 0800 | 4 | 4 | 4 | 4-5 | - | 4 | 3-4 | 3 | 4 | 3-4 | 3-4 | 4 | 3-4 |

Assessment: The Ballyfinboy River was in a generally unsatisfactory ecological condition when surveyed in 2011. Only two of the eight stations (0100, 0700) surveyed were classified at good ecological status. A slight improvement from poor to moderate ecological conditions was noted downstream of Cloughjordan at Ballynavin Bridge (0400). Moderate ecological conditions were also evident at Borrisokane (0550) where abundant plant and algal growth and high dissolved oxygen readings (140% oxygen saturation) continues to indicate enrichment. The lack of sensitive macroinvertebrate species coupled with enhanced algal growth indicated an unwelcome decline in the lower reaches (0800). Extreme calcification and compaction of the river bed substratum was again noted at stations 0400 and 0800.

| 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 | 196011 | 189273 | 59 | TY |
| 0400 | Ballynavin Br | 193838 | 191695 | 59 | TY |
| 0550 | Br in Borrisokane | 191541 | 194098 | 53 | TY |
| 0600 | Br nr Ballyfinboy Castle | 189692 | 193698 | 53 | TY |
| 0700 | Ballyhooney Br | 186249 | 196011 | 53 | TY |
| 0800 | Br just u/s L Derg | 183804 | 198048 | 53 | TY |

Hydrometric Area 25 (2011)

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|-----------------|------------|-------------|------------|------------|----------------|-----------------|-------------|--------------|-----------------|--------------|--------------|
| 0070 | 99 | 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: 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 |

Assessment: The macroinvertebrate fauna continues to indicate unsatisfactory moderate ecological conditions in the lower reaches (0100) when surveyed in August 2011.

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

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: 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0400 | 3 | 3 | 2 | 3 | 3/0 | 3 | 3-4* | 3* |
| 0600 | 4 | 4 | 3 | 3-4 | 3 | 3-4 | 4 | 4 |

Assessment: The lack of sensitive macroinvertebrates and dominance of pollution tolerant species indicated poor ecological conditions in the upper reaches (0400), heavy siltation was also noted. Good ecological conditions continue in the lower reaches (0600) however calcification of the substratum was noted.

| 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 : **BLACK (BALLYBOY)** **25/B/04**
 Tributary of : 25S02 SILVER (KILCORMAC) OS Catchment No: 155
 OS Grid Ref of Confluence: N 247 130
 Date(s) Surveyed: 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2006 | 2011 |
| 0200 | 4-5 | 4 | 4-5 | 4-5 | 4 | 4 |

Assessment: The Black (Ballyboy) was in a satisfactory ecological condition when surveyed in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0200 | Br 0.5 km u/s Silver R | 224737 | 212704 | 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 | 80 | 35 | 53 | 47 | 46 | 10 | 27 | 0 | 13 | 0 | 5 |

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

River and Code : **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: 3/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1988 | 1993 | 1996 | 1999 | 2002 | 2005 | 2009 | 2011 |
| 0110 | - | 4-5 | 4 | 4 | 4 | 3-4 | 4 | 3-4 | 4 |
| 0200 | 3 | 3 | 3-4 | 3-4 | 3 | 3-4* | 4 | 4 | 4 |

Assessment: The Blackwater (Shannonbridge) was in a satisfactory ecological condition at the two stations surveyed in August 2011. The macroinvertebrate fauna indicated a welcome improvement in ecological conditions in the upper reaches (0110) however the abundant instream macrophyte community, enhanced algal growth and excessive peat siltation on the river bed indicated continuing enrichment.

| 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: 8/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1988 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 3 | 3 | - | 3-4 | 4 | 3 | 3-4* | 3-4 | - | 3-4* |
| 0200 | - | 2/0 | 4 | 3-4 | 4 | 3-4 | 3-4* | 4 | 3 | 4 |

Assessment: The lack of sensitive macroinvertebrate fauna indicated moderate ecological conditions at Gorteen Bridge (0100) in August 2011. Excessive plant and algal growth and heavy peat siltation on the river bed indicated enriched conditions. The presence of sensitive macroinvertebrate fauna indicated a welcome improvement in the lower reaches (0200).

| 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: 16/8/2011, 22/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1987 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0020 | - | 5 | 5 | 5 | 4-5 | 4 | 4-5 | 4 | 4* |
| 0080 | - | 5 | 4 | 4 | 3-4 | 4 | 4-5 | 4-5 | 4-5 |
| 0100 | 5 | - | 5 | 5 | 4-5 | 5 | 5 | 4 | 5 |
| 0200 | 5 | - | - | - | - | - | - | - | - |
| 0400 | 5 | - | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 | 5 |

Assessment: The Breaghmore was in a highly satisfactory ecological condition over most of its course when surveyed in 2011. Good ecological conditions persist in the upper reaches (0020) at Roscomroe Bridge however enhanced algal growth, bank erosion and heavy siltation were noted. The dominance of sensitive macroinvertebrate species continues to indicate high ecological status in the lower reaches. This river deserves special protection such as restricting cattle access and promoting vegetated buffer zones in order to conserve its high quality status.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0020 | Roscomroe Br | 216528 | 197722 | 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: 2/8/2011, 3/8/2011, 11/7/2011, 12/7/2011,
13/7/2011, 14/7/2011, 27/7/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1974 | 1978 | 1982 | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2009 | 2010 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0003 | - | - | - | - | 4-5 | 4 | 3-4 | - | - | - | - | - | - | - | - | - |
| 0004 | - | - | - | - | 2-3 | 3 | - | - | - | - | - | - | - | - | - | - |
| 0005 | - | - | - | - | 3 | 3-4 | 3 | 3 | 3-4 | 3 | 3-4 | - | 3 | - | - | 3 |
| 0006 | - | - | - | - | 3-4 | 3 | 3 | 3 | 3 | 3 | 3-4 | - | 3 | - | - | 3 |
| 0010 | - | - | - | - | 3-4 | 2-3 | 3 | - | - | - | - | - | - | - | - | - |
| 0040 | - | - | - | - | 3-4 | 2-3 | 3 | 3 | 3 | 3 | 3 | - | 3 | - | - | 3 |
| 0100 | 1 | 1 | 1-2 | 1-2 | 2-3 | 2 | 2-3 | 3 | 2-3 | 2 | 1-2 | 2 | 2 | 2 | 3-4 | 3 |
| 0200 | 4-5 | 4 | 3-4 | 4 | 4 | 4 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | - | - | - | - | 3 |
| 0250 | - | - | - | - | 4 | 4-5 | 3-4 | 3-4 | 4 | 3-4 | 3 | - | 3-4 | - | - | 3-4 |
| 0400 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4 | 3-4 | 3-4 | 4 | 3 | 3 | - | - | - | - | 4 |
| 0420 | - | - | - | - | 4-5 | 4-5 | - | - | - | - | - | - | - | - | - | - |
| 0450 | - | - | - | - | - | 4 | 4 | 3-4 | 4 | 3 | 3-4 | - | 3-4 | - | - | 4 |
| 0500 | 4-5 | 4-5 | 4-5 | - | - | 4 | 4 | 3-4 | 3-4 | 3-4 | 3 | - | 3-4 | - | - | n/s |
| 0600 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | - | 3-4 | - | - | - | 3-4 | - | - | 3-4 |
| 0700 | 4 | 4 | - | 4-5 | 4 | 4-5 | 3-4 | 3 | 3-4 | 3-4 | 4 | - | - | - | - | 4 |
| 0760 | - | - | - | - | - | 4 | 3-4 | 4 | 4 | 4 | 3-4 | - | 3-4 | - | - | 4 |
| 0800 | 4-5 | 4-5 | 4 | - | 4 | 5 | 3* | 4 | 3 | 3-4* | 4-5 | - | - | - | - | 4 |
| 0950 | - | - | - | - | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 | 4-5 | - | 4 | - | - | 4 |
| 1000 | 4-5 | 5 | 4-5 | 4 | 3-4 | 4-5 | 3-4 | 3-4 | 3-4 | 3 | 3 | - | - | 3-4* | - | 4 |
| 1100 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 4 |

Assessment: Of the fifteen stations surveyed in 2011, eight were in a satisfactory ecological condition. Poor ecological conditions persist in the vicinity of Mullingar. Moderate ecological conditions continue at Ballynagore (0250) and downstream of Clara at Bolart Bridge (0600). The macroinvertebrate fauna indicated a welcome improvement downstream of Kilbeggan (0400, 0450), downstream of Ballycumber (0760) and at Belmont downstream of Ferbane (1000) however enhanced macrophyte and algal growth continues to indicate some enrichment at several of these sites.

Hydrometric Area 25 (2011)

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|--------------------|---------------------------|-------------------|--------------------|-----------------------------|--------------------|
| 0003 | 1.1 km d/s L Owel | 0 | 0 | 41 | MH |
| 0004 | 1.5 km d/s L Owel | 0 | 0 | 41 | MH |
| 0005 | Br SW of Culleen Beg | 244154 | 255390 | 41 | MH |
| 0006 | Br d/s L Sheever | 245584 | 254938 | 41 | MH |
| 0010 | Mullingar: Canal Crossing | 0 | 0 | 41 | MH |
| 0040 | Mullingar: Indust Est Br | 243777 | 252327 | 41 | MH |
| 0100 | Butler's Br | 241888 | 250152 | 41 | MH |
| 0200 | Newell's Br | 238329 | 242309 | 48 | MH |
| 0250 | Ballynagore Br | 235670 | 239652 | 48 | MH |
| 0400 | Just d/s Kilbeggan Br | 233189 | 235498 | 48 | MH |
| 0420 | Glebe Ho d/s Kilbeggan | 0 | 0 | 48 | MH |
| 0450 | Br near Lismoynty | 229565 | 233197 | 48 | OF |
| 0500 | Lehinch u/s Clara | 228318 | 232293 | 48 | OF |
| 0600 | Bolart Br | 223379 | 232486 | 48 | OF |
| 0700 | Ballycumber Br | 221137 | 230646 | 48 | OF |
| 0760 | 0.5km NW of Pollagh | 219007 | 225677 | 48 | OF |
| 0800 | Br nr Kilcolgan | 214922 | 223732 | 48 | OF |
| 0950 | Ferbane Br | 211508 | 224407 | 47 | OF |
| 1000 | Bellmount d/s Ferbane | 207296 | 222118 | 47 | OF |
| 1100 | Clonony Br | 204768 | 220877 | 47 | OF |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|-----------------|------------|-------------|------------|------------|----------------|-----------------|-------------|--------------|-----------------|--------------|--------------|
| 0040 | 88 | 4 | 0 | 100 | 48 | 0 | 0 | 52 | 0 | 0 | 0 |
| 0100 | N/A | 23 | 0 | 100 | 61 | 1 | 0 | 27 | 8 | 0 | 4 |
| 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: 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1975 | 1981 | 1984 | 1986 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | - | - | - | - | 4-5 | 4-5 | 3-4 | 4 | 4 | 4 | - |
| 0100 | - | - | - | - | - | 4-5 | 4-5 | - | - | - | - | - | - | - |
| 0250 | - | - | - | - | - | 3 | 3 | 3 | 3 | 3-4 | 3 | 3-4 | - | 4 |
| 0400 | 2-3 | 2-3 | 2-3 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 4 |

Assessment: The macroinvertebrate fauna indicated a welcome improvement to good ecological conditions at the two stations (0250, 0400) surveyed in August 2011. Enhanced algal growth and excessive siltation were noted in the upper station (0250) indicating some enrichment while compaction and calcification of the riverbed substratum were evident downstream of Roscrea (0400).

| 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 : **CAMCOR**

25/C/02

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 052 054

Date(s) Surveyed: 15/8/2011, 16/8/2011, 17/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1981 | 1985 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4-5 | 4-5 |
| 0150 | - | - | 5 | 5 | - | - | - | - | - | - | - |
| 0200 | 5 | 5 | 5 | 5 | - | - | - | - | - | - | - |
| 0300 | - | 5 | 5 | 5 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4* | 4 |
| 0400 | - | 5 | 5 | 5 | - | - | - | - | - | - | - |
| 0500 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4* | 4 |
| 0600 | 5 | 5 | 5 | 4-5 | 4 | 4-5 | 3-4 | 4 | 4 | - | 4 |
| 0650 | - | - | 5 | 5 | - | - | - | - | - | - | - |
| 0700 | 5 | 5 | 5 | 5 | 4 | 3-4 | 4 | 4 | 3-4 | 3-4 | 4 |

Assessment: The Camcor River was in a satisfactory ecological condition at all five stations surveyed in August 2011. High ecological conditions continue in the upper reaches (0100). This site has remained at high status since 1981 when first surveyed and warrants special protection. The macroinvertebrate fauna indicated a welcome improvement to good ecological conditions at Drumcullen Bridge (0300) downstream of Kinnitty and at Elmgrove Bridge (0700) in Birr however some signs of enrichment were still evident with enhanced algal growth and excessive siltation and compaction of the river bed substratum.

| 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 | Killyon Br | 213205 | 205400 | 54 | OF |
| 0600 | Fortel Br | 209908 | 204256 | 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 : **CARRIGAHORIG STREAM**

25/C/16

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: M 894 022

Date(s) Surveyed: 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 3-4 | 3-4 | 4 | 3 | 4 | - | 3-4 |
| 0500 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 |

Assessment: The paucity of sensitive macroinvertebrate fauna and dominance of pollution tolerant species indicated unsatisfactory moderate ecological conditions in the upper and lower reaches of the Carrigahorrig Stream in August 2011. Abundant algal growth and enhanced macrophyte growth indicated some enrichment at both stations.

| 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 : **CLAREEN STREAM**

25/C/13

Tributary of : 25C02 CAMCOR

OS Catchment No: 155

OS Grid Ref of Confluence: N 122 048

Date(s) Surveyed: 16/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | - | - | - | - | - | 4 |
| 0200 | 3 | 4 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 |
| 0600 | 3-4 | 3-4 | 3-4 | 4 | 4 | 4 | 3 | 3-4 |

Assessment: The macroinvertebrate fauna indicated good ecological conditions in the upper reaches (0100) of the Clareen Stream in 2011 however excessive macrophyte growth was noted in the un-shaded upstream reach indicating some enrichment. The paucity of sensitive macroinvertebrate species indicated moderate ecological conditions in the lower reaches (0200, 0600). Excessive siltation and calcification was evident at both stations however compaction of the river bed was more pronounced at the lower station (0600).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Br W of Aghancon | 213896 | 198225 | 54 | OF |
| 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: 5/8/2011, 9/8/2011, 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1975 | 1978 | 1982 | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2011 |
| 0050 | - | - | - | - | - | - | 5 | - | - | 4-5 | - | 4-5 | - | - | 4-5 |
| 0090 | - | - | - | - | - | - | - | - | - | - | 4-5 | - | - | 4 | - |
| 0100 | - | - | - | 5 | 5 | - | 5 | 5 | 4-5 | 2/0 | - | 3 | - | - | 4-5 |
| 0200 | - | - | - | 1/0 | 4 | 5 | 5 | - | - | - | - | - | - | - | - |
| 0220 | - | - | - | - | - | - | 3 | 3-4 | 3 | 3* | 3-4* | 1 | 2 | 4 | 4* |
| 0250 | - | - | - | - | - | 4-5 | 4 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | - | 4 | 4-5 |
| 0300 | - | - | - | 5 | 5 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | - | - | 4 |
| 0340 | - | - | - | - | - | - | - | - | 4 | 4 | 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 | - | 3-4 | 4 |
| 0500 | 4 | 4 | 4 | - | 4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 4 | - | 3-4 | 4 |

Assessment: The Clodaigh (Tullamore) River was in a satisfactory ecological condition at all eight stations surveyed in August 2011. The dominance of sensitive macroinvertebrate fauna indicated high ecological conditions in the upper reaches (0050, 0100). Although the macroinvertebrate fauna indicated good ecological conditions downstream of Clonaslee (0220), signs of enrichment including excessive algal growth and siltation were evident. High ecological conditions were noted near Brockagh (0250) however again excessive siltation was noted. A welcome improvement to good ecological status was noted at Annamoe Bridge (0400) and at Rahan (0500) however enhanced algal growth and excessive siltation continues to indicate some enrichment.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---|------------|-------------|----------------------|-------------|
| 0050 | Br NW of Scarroon | 229672 | 209555 | 54 | LA |
| 0090 | u/s Clonaslee Waterworks | 231739 | 210783 | 54 | LA |
| 0100 | Just u/s Clonaslee Br | 231751 | 210864 | 54 | LA |
| 0200 | 0.8km d/s Clonaslee Br | 0 | 0 | 54 | LA |
| 0220 | Just u/s Gorrage R confl | 232266 | 212095 | 54 | LA |
| 0250 | Br ENE of Brockagh (E of Annaghmore L) | 233164 | 214581 | 54 | LA |
| 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 |

Hydrometric Area 25 (2011)

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: 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2011 |
| 0100 | - | - | - | - | - | - | 4-5 |
| 0200 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | n/s | n/s |

Assessment: The dominance of sensitive macroinvertebrate species indicated high ecological status upstream of County Bridge (0100) in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Br u/s County Br | 224396 | 209575 | 54 | LA |
| 0200 | County Br | 224018 | 210029 | 54 | LA |

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 : **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: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2011 |
| 0200 | 3-4 | 3-4 | 3 | 2-3 | 3 | 3-4 | 3-4 |

Assessment: The paucity of sensitive macroinvertebrate fauna indicated moderate ecological conditions on the Durrow Abbey Stream in August 2011.

| 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: 12/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 4-5 | 3 | 4 | 3* | 3-4 | 3* | 4* |
| 0300 | 4 | - | - | - | - | - | - | - |
| 0400 | - | 4-5 | 3-4 | 4 | 4 | 3-4 | 3* | 3-4 |

Assessment: The presence of sensitive macroinvertebrate fauna indicated a welcome improvement in the upper reaches (0100) of the Dysart stream when surveyed in July 2011 however signs of enrichment (abundant macrophyte growth and heavy instream siltation) were still evident. The macroinvertebrate community indicated a slight improvement to moderate ecological status downstream of Dysart (0400) however excessive siltation and heavy calcification of the river bed substratum was noted.

| 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: 13/7/2011, 14/7/2011, 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0045 | - | - | 4 | 3-4 | 3-4 | 4 | 3-4 | - | 3-4 |
| 0050 | - | 4 | - | - | - | - | - | - | - |
| 0100 | 4-5 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 |
| 0190 | - | 4 | - | - | - | - | - | - | - |
| 0200 | 4-5 | - | - | - | - | - | - | - | - |
| 0300 | 4-5 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4-5 | 4 | 3-4 |
| 0400 | 4-5 | - | - | - | - | - | - | - | - |
| 0500 | 5 | 4-5 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: The Gageborough was in an unsatisfactory ecological condition at three of the four stations surveyed in July 2011. The paucity of sensitive macroinvertebrate species, enhanced macrophyte and/or algal growth continues to indicate moderate ecological conditions in the upper reaches (0045, 0100). An unwelcome decline in ecological conditions was noted at Gageborough Bridge (0300). Signs of enrichment were evident with enhanced macrophyte growth and increased calcification of the river bed substratum noted. Downstream the macroinvertebrate fauna indicated improved good ecological conditions however excessive algal growth indicated continuing signs of enrichment.

| 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 : **GLENFELLY STREAM**

25/G/21

Tributary of : 25C02 CAMCOR

OS Catchment No: 155b

OS Grid Ref of Confluence: N 167 061

Date(s) Surveyed: 15/8/2011, 22/8/2011

Formerly West Branch of Camcor River 25C02

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | 5 | 5 | 5 | 5 | - | 4 | 4 |
| 0080 | 5 | 5 | 5 | - | - | - | - | - |
| 0090 | - | - | - | 4-5 | 4-5 | 5 | 4 | 4 |

Assessment: Good ecological conditions were noted at the two locations surveyed on the Glenfelly Stream in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0010 | Br 3km E of Longford | 220219 | 201360 | 54 | OF |
| 0080 | Clonfosse Br (W of Kinnitty) | 217400 | 205500 | 54 | OF |
| 0090 | Wooden Br d/s Clonfosse Br | 217051 | 206079 | 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: 22/8/2011, 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1983 | 1985 | 1987 | 1988 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | - | 4-5 | - | 2-3 | 3-4 | 3-4 | - | - | - | - |
| 0080 | - | - | - | 5 | - | 3-4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 3-4 |
| 0100 | - | - | - | 4-5 | - | - | - | - | - | - | - | - |
| 0200 | 2 | 1-2 | 2 | 2-3 | 2-3 | 2-3 | 2-3 | 3 | 3 | 3 | 3-4 | 3-4 |

Assessment: The Golden Grove stream was in an unsatisfactory moderate ecological condition when surveyed in August 2011. Enriched conditions were evident with excessive macrophyte and /or algal growth and excessive siltation noted at both stations.

| 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 | 213351 | 192328 | 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | - | - | - | - | - | - | - |
| 0200 | - | 4-5 | 4-5 | 4-5 | 5 | 4 | - | 4-5 |
| 0300 | 5 | - | - | - | - | - | 4-5 | 4 |

Assessment: The Gorragh River was in a highly satisfactory ecological condition at Gorragh Bridge when surveyed in August 2011 while the macroinvertebrate fauna indicated a decline to good ecological condition just upstream of the Clodaigh (Tullamore) river confluence (0300).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---|------------|-------------|----------------------|-------------|
| 0100 | Ford W of Srahcullen | 231500 | 209700 | 54 | LA |
| 0200 | Gorragh Br E of Clonaslee | 232300 | 210801 | 54 | LA |
| 0300 | Killart Ho (just u/s Clodaigh rv Confl) | 232281 | 212160 | 54 | LA |

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 : **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: 17/8/2011, 23/8/2011

Formerly Keeloge Branch of Little Brosna River 25L02

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0015 | - | 5 | 4 | 4 | - | - | n/s | - | - |
| 0016 | - | - | - | - | 4-5 | 4 | 3-4 | 3-4* | 4* |
| 0020 | 5 | 3 | - | - | - | - | - | - | - |
| 0025 | - | 3-4 | 3-4 | 3 | 4-5 | 3-4 | 3-4 | - | 3-4 |
| 0027 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | 3-4 | 3-4* | 3-4 |

Assessment: The Keeloge Stream was in an unsatisfactory ecological condition at two of the three stations surveyed in August 2011. A slight improvement to good ecological conditions was noted in the upper reaches (0016) however excessive siltation of the river bed was evident. Moderate ecological conditions persist downstream (0025, 0027) while pronounced calcification and compaction of the river bed substratum was evident at the lower station (0027).

| 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: 23/8/2011

Formerly Kilcomin Branch of Little Brosna

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | 3-4 | 3-4 | 3 | 3 | 3 | 3 | - | 3* |
| 0052 | 4 | 3-4 | 3 | 4 | 3-4 | 3-4 | 3-4 | - |
| 0055 | 3-4 | - | - | - | - | - | - | - |
| 0085 | 3-4 | 3-4 | 3 | 3-4 | 3 | 3-4 | - | 3-4 |

Assessment: The Kilcomin Stream continues to remain in an unsatisfactory ecological condition in 2011. The lack of sensitive macroinvertebrate species coupled with abundant instream macrophyte growth and excessive siltation indicated significant ecological disruption in the upper (0040) reaches. The macroinvertebrate fauna indicated moderate ecological conditions in the lower reaches (0085) with abundant algal growth and excessive siltation also indicating enriched conditions.

| 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: 25/8/2011

Formerly reported as: Carrigahorrig Stream 25C16 (qv).

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0600 | 4-5 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4* |

Assessment: As in previous surveys, the Kilfadda Castle Stream remains in an unsatisfactory moderate ecological condition in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 0600 | Br SE of Carrigahorig | 191588 | 200845 | 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 : **LITTLE (CLOGHAN)**

25/L/01

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 039 201

Date(s) Surveyed: 3/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1986 | 1987 | 1988 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 1 | 2 | 2 | 2 | 2-3 | 2-3 | - | 2-3 | - | - | - | - |
| 0200 | 1 | 3 | 3 | - | - | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 4 |
| 0400 | 2 | 3 | 3 | - | - | 4 | 4 | 4 | 3-4* | 4 | 3-4 | 4 |

Assessment: The Little Cloghan River was in a satisfactory ecological condition in August 2011. The macroinvertebrate fauna indicated a welcome improvement in the 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 | 204193 | 219807 | 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: 17/8/2011, 18/8/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1973 | 1975 | 1977 | 1981 | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0100 | 5 | 5 | 5 | 5 | 4 | 4-5 | 3-4 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 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 | 3-4 | 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 | 3-4 | 4 |
| 0700 | 5 | 4-5 | - | 4-5 | 4-5 | 4 | 4 | 3-4 | 3 | 4 | 3-4 | 3 | 3-4 | 4 |
| 0800 | 5 | 5 | - | 5 | 4 | 4 | 4-5 | 4 | - | - | - | - | - | - |
| 0810 | - | - | - | - | - | - | - | - | 3-4 | 3-4 | 3-4 | 3-4 | - | 4 |
| 0900 | 5 | - | - | 5 | 4 | 5 | 5 | - | - | - | - | - | - | - |
| 1000 | - | - | - | - | 4 | 4-5 | 5 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | 4 |

Assessment: The Little Brosna River was in a satisfactory ecological condition at five of the six stations surveyed in August 2011. The increased diversity of sensitive macroinvertebrate fauna indicated a welcome improvement to good ecological status at Milltown Bridge (0100) and at Riverstown Bridge (0700) however luxuriant instream plant and /or algal growth continues to indicate some enrichment. Conditions also improved at Sharavogue Bridge and downstream of Croghan Bridge (0810). The paucity of sensitive macroinvertebrate species, dominance of pollution tolerant species and abundant algal growth continues to indicate enriched conditions downstream of Roscrea at Drumakeenan (0400). Further improvements are required in order for ecological status to reach a satisfactory level as required by the Water Framework Directive.

| 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 |

Hydrometric Area 25 (2011)

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: 25/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 3 | 3 | 3-4 | 3-4 | 3 | 3-4 | - | 4 |
| 0300 | 4 | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 3-4 |

Assessment: Good ecological conditions were noted in the upper reaches (0200) of the Lorrha Stream while the macroinvertebrate fauna indicated unsatisfactory ecological conditions downstream of Friars Lough (0300) in August 2011.

| 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: 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1986 | 1987 | 1988 | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0150 | - | - | 1 | 1 | 2-3 | 3 | 1 | 3 | 2-3 | 3 | 3 | 3-4 |
| 0300 | 2 | 3 | 3 | - | - | 3 | 2 | 3 | 3 | 3 | - | n/s |
| 0400 | 3-4 | 4 | 3 | - | - | 3 | 3-4 | 3 | 4 | 3-4 | 3* | 3-4 |

Assessment: A welcome improvement was noted at the two stations surveyed on the Moate Stream (aka Cloghatanny River) in July 2011. The macroinvertebrate fauna indicated a slight improvement to moderate ecological conditions downstream of Moate (0150) and near Cloghatanny (0400).

| 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: 12/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 3-4 | - | - | - | - | - | - |
| 0300 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | - | 3-4 |
| 0500 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3 | 3-4 |

Assessment: The Monaghanstown River was in an unsatisfactory moderate ecological condition in July 2011.

| 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 : **PALLAS**

25/P/01

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: M 998 095

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4-5 | 3-4 | 3 | 3 | 2-3 | 3-4 | - | 4 |
| 0500 | 5 | 4 | 3-4 | 3 | 3 | 4 | 3-4 | 4 |

Assessment: Satisfactory good ecological conditions were evident at the two stations surveyed in August 2011.

| 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: 27/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 3-4 | 4 | 3-4 | 4 | 4 | 3-4 | 4 |

Assessment: Satisfactory good ecological conditions were evident upstream of the Brosna River confluence (0300) in July 2011.

| 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 : **RAPEMILLS**

25/R/01

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: M 999 157

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | |
|--------------|---------------------------------------|------|------|------|
| | 1984 | 1987 | 2008 | 2011 |
| 0100 | 4 | 4 | - | - |
| 0200 | 4 | 4 | - | - |
| 0300 | 4-5 | 4-5 | 3-4 | 4 |
| 0400 | 4 | 4-5 | - | - |
| 0500 | 4-5 | 3-4 | - | - |

Assessment: The macroinvertebrate fauna indicated a welcome improvement to good ecological condition at Rapemills (0300) in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0100 | Br nr Eglis Castle | 209977 | 209683 | 53 | OF |
| 0200 | Boolinarig Br | 207522 | 209359 | 53 | OF |
| 0300 | Br at Rapemills | 204747 | 210192 | 53 | OF |
| 0400 | All Saints Br | 202628 | 211374 | 53 | OF |
| 0500 | Lusmagh Br | 200172 | 214613 | 53 | OF |

River and Code : **ROCK (BIRR)**

25/R/02

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 048 027

Date(s) Surveyed: 17/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2011 |
| 0050 | 3-4 | 4-5 | 4 | 4-5 | 3-4 | 3-4 | 4 | 4 |
| 0100 | 3 | 4 | 3-4 | - | - | - | - | - |
| 0200 | 3 | 3-4 | - | - | - | - | - | - |
| 0300 | 3 | 4 | 4 | 2 | 3 | 3 | 3-4 | 4 |

Assessment: The Rock (Birr) Stream was in a satisfactory ecological condition at the two stations surveyed in August 2011. The macroinvertebrate indicated a welcome improvement at Aughnagann Ford (0300) however enhanced macrophyte and algal growth indicated some enrichment.

| 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 : **SHANNON (Lower)**

25/S/01

Tributary of : Sea Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 580 600

Date(s) Surveyed: 18/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1972 | 1984 | 1987 | 1990 | 1993 | 1996 | 1999 | 2002 | 2008 | 2011 |
| 2060 | - | - | - | - | - | - | - | - | 3-4 | 4 |
| 2500 | 4-5 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 3-4 | - |
| 2600 | - | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | - | - |

Assessment: The macroinvertebrate fauna indicated good ecological conditions at Incherky Quay (2060) in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 2060 | Incherky Quay (RHS) | 195210 | 214290 | 53 | OF |
| 2500 | Castleconnell: World's End | 165836 | 163576 | 58 | LK |
| 2600 | Athlunkard Br (d/s LHS) | 158805 | 159031 | 65 | LK |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 2060 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2500 | 22 | 4119 | 25 | 75 | 63 | 4 | 10 | 1 | 10 | 4 | 7 |
| 2600 | 1 | 4933 | 30 | 70 | 64 | 5 | 9 | 2 | 10 | 3 | 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 : **SHINRONE STREAM** **25/S/11**
 Tributary of : OS Catchment No:
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 23/8/2011

| Station Nos. | 2008 | 2009 | Biological Quality Ratings (Q Values) |
|--------------|------|------|---------------------------------------|
| 0100 | 2* | 2-3* | 2011 2-3 |

Assessment: Poor ecological conditions were evident on the Shinrone Stream in August 2011. The lack of sensitive macroinvertebrate species, excessive macrophyte abundance, heavy siltation and low dissolved oxygen readings (77% oxygen saturation) continues to indicate significant ecological disruption.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Fortified House Bridge on R491 | 204735 | 192430 | 53 | OF |

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: 10/8/2011, 11/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1981 | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | 5 | 5 | 5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4-5 |
| 0200 | - | - | 5 | 5 | 4-5 | 3-4 | 4-5 | 4 | 4 | 4-5 | 3-4 | 4 |
| 0300 | 5 | 5 | 5 | 5 | 4-5 | - | - | - | - | - | - | - |
| 0320 | - | - | - | - | - | 3-4 | 3-4 | 3 | 3 | 3-4 | - | 3-4 |
| 0400 | 4 | 4-5 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | - | 3-4 | 3-4 | 4 |
| 0500 | - | - | 4 | 3-4 | 4 | 4 | 4 | 4 | 4-5 | 4 | 3-4 | 4 |
| 0600 | 4 | 4 | 4 | 5 | 4 | - | - | - | - | - | - | - |
| 0700 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: A welcome improvement in ecological conditions was noted at the majority of stations surveyed on the Silver (Kilcormac) River in 2011, of the six stations surveyed five were deemed satisfactory. The macroinvertebrate fauna indicated high ecological conditions at Cadamstown (0100) however some algal growth was noted. Improvements to good ecological conditions were noted at Ballynacarraig Bridge (0200) and downstream of Kilcormac (0400) however excessive algal growth continues to indicate some enrichment. Moderate ecological conditions continue in Kilcormac (0320) while the macroinvertebrate fauna indicated an improvement in the lower reaches (0500).

| 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: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | 4 | - | - | - | - | - | - | - |
| 0055 | - | 4 | 4 | 4 | 3-4 | - | - | - | - |
| 0100 | 4-5 | 3-4 | 4 | 3 | 3 | 3* | 3-4 | 3-4 | 4 |
| 0200 | - | - | 3-4 | - | - | - | - | - | - |
| 0300 | 4-5 | 4 | 4 | 4 | 4 | 3* | 3-4 | 3-4 | 4 |
| 0400 | 4 | 4 | - | - | - | - | - | - | - |
| 0500 | - | - | 3-4 | 3 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |

Assessment: A welcome improvement was noted at two of the three stations surveyed on the Silver (Tullamore) River in August 2011. The macroinvertebrate fauna indicated good ecological conditions at Gormagh Bridge (0100) and near Aharney (0300) however the luxuriant growth of macrophytes and algae continues to indicate some enrichment. The dominance of pollution tolerant macroinvertebrate fauna indicated continuing moderate ecological conditions in the lower reaches (0500).

| 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 | 233831 | 228473 | 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 : **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: 13/7/2011, 26/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1993 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | - | 4 | 4-5 | 3-4 | 3 | 4 | 3-4* | 3-4 |
| 0400 | 4 | - | - | - | - | - | - | - |
| 0500 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 |

Assessment: Unsatisfactory moderate ecological conditions continue at the two stations surveyed on the Syonan Castle Stream in July 2011.

| 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 : **TULLAMORE****25/T/03**

Tributary of : 25C06 CLODIAGH (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 280 254

Date(s) Surveyed: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1975 | 1977 | 1981 | 1986 | 1987 | 1989 | 1990 | 1993 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2011 |
| 0030 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | - | 3-4 | 3-4 |
| 0100 | 4 | 3-4 | 3-4 | 4 | 4 | 3 | - | - | 4-5 | 3 | 3 | 3 | 3-4 | - | 3 | 3-4 |
| 0400 | 1-2 | 2 | 1-2 | 2 | 2 | 2 | 2-3 | 2-3 | 2-3 | 2-3 | 2 | 2 | 2 | 2-3 | 2-3 | 2-3 |

Assessment: Unsatisfactory ecological conditions continue at the three stations surveyed on the Tullamore River in August 2011. The macroinvertebrate fauna indicated a slight improvement from poor to moderate ecological conditions at Springfield Bridge (0100). The complete lack of sensitive macroinvertebrate species and dominance of pollution tolerant fauna coupled with low dissolved oxygen (48% oxygen saturation) and abundant plant growth indicated Poor ecological conditions again downstream of Tullamore (0400).

| 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.

| HYDROMETRIC AREA 26 (Shannon Upper) | |
|--|-------|
| AGHNASHANNAGH STREAM | 26A11 |
| AHASCRAUGH | 26A01 |
| ANADERRYBOY | 26A03 |
| ARIGNA (ROSCOMMON) | 26A02 |
| BALLINURE | 26B01 |
| BALLYDANGAN | 26B14 |
| BALLYMORE STREAM | 26B33 |
| BELLAVALLY STREAM * | 26B32 |
| BLACK (SOUTH LEITRIM) | 26B04 |
| BLACK (WESTMEATH) | 26B05 |
| BOLEYBAUN STREAM * | 26B30 |
| BOOR | 26B07 |
| BOYLE | 26B08 |
| BREEDOGH | 26B09 |
| BREENSFORD | 26B10 |
| CAMLIN | 26C01 |
| CARRICKNABRAHER | 26C02 |
| CASTLEGAR | 26C03 |
| CLOGHER (ROSCOMMON) | 26C18 |
| CLOONCOOSE STREAM | 26C20 |
| CLOONE | 26C05 |
| CLOONEIGH | 26C06 |
| CLOONFOWER STREAM | 26C21 |
| COMOGH | 26C12 |
| CREELAGHTA | 26C22 |
| CROSS (ROSCOMMON) | 26C10 |
| CUILLEEN STREAM | 26C17 |
| CURRAGHROE STREAM | 26C15 |
| DERRYHIPPOO | 26D01 |
| DERRYMULLAN STREAM | 26D07 |
| DERRYNANANTA STREAM * | 26D23 |
| DIFFAGHER | 26D02 |
| DRUMSHANBO STREAM | 26D05 |
| DUNGOLMAN | 26D06 |
| ESLIN | 26E01 |
| FALLAN | 26F01 |
| FARDRUMMAN STREAM | 26F06 |
| FEORISH (BALLYFARNON) | 26F02 |
| FEORISH (TARMONBARRY) | 26F03 |
| FRANCIS | 26F05 |
| GAINE | 26G01 |
| GLORE (WESTMEATH) | 26G02 |
| GOWLAUNREVAGH * | 26G12 |
| HIND | 26H01 |
| INNY | 26I01 |
| ISLAND | 26I03 |
| # JIGGY (HIND) * | 26J01 |

| HYDROMETRIC AREA 26 (Shannon Upper) | |
|--|-------|
| KILLADISKERT STREAM * | 26K16 |
| KILLEGLAN | 26K04 |
| KILLIAN | 26K01 |
| KILLUKIN | 26K02 |
| KILMACRICARD * | 26K17 |
| KILMACTRANNY | 26K03 |
| KILTACLARE STREAM | 26K06 |
| KINARD | 26K07 |
| LAURENCETOWN STREAM | 26L07 |
| LENAMORE STREAM | 26L06 |
| LISDALY STREAM | 26L02 |
| LISSAPHOBLE | 26L04 |
| LISSYDALY STREAM | 26L10 |
| LUNG | 26L03 |
| MANTUA STREAM * | 26M13 |
| MIHANBOY | 26M04 |
| MOUNTAIN (ROSCOMMON) | 26M03 |
| MOUNTNUGENT | 26M02 |
| MULLENMEEHAN STREAM * | 26M12 |
| OWENGAR (LEITRIM) | 26O02 |
| OWENMORE (GLANGEVLIN) | 26O03 |
| OWENNAFOREESHA | 26O04 |
| OWENNAYLE | 26O05 |
| OWENUR | 26O06 |
| RATH | 26R01 |
| RELACH | 26R05 |
| RHINE | 26R04 |
| RINN | 26R02 |
| ROCKSAVAGE * | 26R07 |
| SCRAMOGE | 26S01 |
| SHAD LOUGH STREAM | 26S13 |
| SHANNON (Upper) | 26S02 |
| SHIVEN (SOUTH) | 26S03 |
| SMAGHRAAN | 26S04 |
| SPRINGFIELD | 26S05 |
| STROKESTOWN | 26S08 |
| SUCK | 26S07 |
| TERMON STREAM | 26T03 |
| YELLOW (BALLINAGLERA) | 26Y01 |
| YELLOW (CASTLEPOLLARD) | 26Y02 |

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

- * BELLAVALLY STREAM Formerly Bellavalley Branch of Owenmore (Glengenvlin) 26O03
- * BOLEYBAUN STREAM Previously reported as the Boleybaun Branch of the Diffagher - 26D02
- * DERRYANANTA STREAM Formerly Derrynananta Branch of Owenmore (Glengenvlin) 26O03
- * GOWLAUNREVAGH Initially called Owengar 0050 .
- * JIGGY (HIND) Previously reported as North Branch on Hind 26H01
- * KILLADISKERT STREAM Formerly known as Killadiskert Branch of Diffagher - 26D020600
- * KILMACRICARD Previously reported as East Branch on Springfield 26S05
- * 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: 15/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | - | 5 | 4 | 4 | 4 | 4* | 4 |
| 0400 | 4-5 | - | - | - | - | - | - |

Assessment: Satisfactory ecological conditions persisted on the Aghnashannagh Stream in June 2011 with good macroinvertebrate diversity and the presence of sensitive taxa.

| 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 : **AHASCRAUGH**

26/A/01

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 837 329

Date(s) Surveyed: 11/7/2011, 30/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1983 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2008 | 2011 |
| 0050 | 4 | 3-4 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | 4 | 4 |
| 0200 | 5 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 4 | 4 | 4 |
| 0400 | 3 | 3-4 | 4 | 3 | 3-4 | 4 | 4 | 3-4 | 3 | 3 |
| 0500 | 5 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 |

Assessment: There has been no change in status on the Ahascragh in 2011, with satisfactory ecological conditions persisting at all stations except downstream of Ahascragh (0400). Heavy siltation and lack of sensitive macroinvertebrate taxa were noted at this location.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0050 | Annagh Bridge | 168945 | 237538 | 46 | GY |
| 0200 | Island Bridge | 175242 | 240469 | 47 | GY |
| 0400 | 3 km d/s Ahascragh | 178996 | 236841 | 47 | GY |
| 0500 | Bunowen Bridge | 183182 | 233359 | 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 | 69 | 6 | 0 | 100 | 90 | 0 | 0 | 0 | 10 | 0 | 0 |
| 0200 | 53 | 89 | 0 | 100 | 75 | 4 | 9 | 0 | 8 | 0 | 4 |
| 0400 | 45 | 105 | 0 | 100 | 75 | 4 | 8 | 1 | 8 | 0 | 5 |
| 0500 | 40 | 136 | 0 | 100 | 71 | 4 | 10 | 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.

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: 31/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | 5 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | 5 | 5 | 4 | 5 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0600 | - | - | - | - | 4-5 | 4 | 4-5 | 4 | 4-5 | 4 |

Assessment: Good ecological conditions persisted at all sites sampled on the Anaderryboy in August 2011. This tributary of the Lung river has a number of NHA/SAC lakes and bogs in its upper catchment.

| 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 |
| 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 |
| 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 : **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: 6/9/2011, 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | 4 | 4-5 | 3 | 4 | 4-5 | 4-5 | 2* | 4 |
| 0300 | 3-4 | 4 | 3 | 4 | 3-4 | 4 | 4 | 2* | 3-4 |

Assessment: The Arigna (Roscommon) appears to have recovered somewhat from the landslide/bog burst it suffered in 2008 in its upper catchment. An almost total wipeout of macroinvertebrates was observed as a result. Despite flood conditions during sampling in September 2011, the upper site (0100) was found to be in good ecological condition. The downstream site (0300) has yet to return to pre-landslide conditions, but good macroinvertebrate diversity and the presence of sensitive species in 2011 bodes well for full recovery in the future.

| 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 : **BALLINURE**
 Tributary of : 26S07 SUCK
 OS Grid Ref of Confluence: M 898 256
 Date(s) Surveyed: 29/6/2011, 30/6/2011

26/B/01

OS Catchment No: 156

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1981 | 1983 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2009 | 2011 |
| 0150 | - | - | - | - | - | - | - | - | - | 4 | 4 |
| 0200 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 3-4 | - | - |
| 0400 | 3 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3-4 | 4 | 4 |

Assessment: Satisfactory ecological conditions persist at both sites sampled on the Ballinure in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0150 | Attibrassil Br | 179940 | 226399 | 0 | GY |
| 0200 | Tristaun Bridge | 181773 | 227088 | 47 | GY |
| 0400 | Clontuskert Bridge | 187050 | 225469 | 47 | GY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 50 | 41 | 0 | 100 | 86 | 3 | 2 | 1 | 4 | 0 | 5 |
| 0400 | 39 | 71 | 0 | 100 | 90 | 1 | 1 | 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 : **BALLYDANGAN**

26/B/14

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: M 988 305

Date(s) Surveyed: 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2009 | 2011 |
| 0100 | 4 | 4 | 4 | - | 3-4 | 3-4 | 3 | 4 | 3-4 |
| 0200 | - | - | - | 3 | - | - | - | 3-4 | - |

Assessment: A slight deterioration was noted in the upper Ballydangan (0100) in September 2011, resulting in unsatisfactory ecological conditions in this Shannon tributary.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br at Corn Mill- Cappuse | 196002 | 232572 | 47 | RN |
| 0200 | Br u/s Shannon R. confl. | 198303 | 231212 | 47 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 40 | 22 | 0 | 100 | 80 | 1 | 19 | 0 | 0 | 0 | 0 |
| 0200 | 39 | 24 | 0 | 100 | 80 | 1 | 19 | 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 : **BALLYMORE STREAM****26/B/33**

Tributary of : 26D06 DUNGOLMAN

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 27/6/2011

| | | Biological Quality Ratings (Q Values) |
|--------------|------|---------------------------------------|
| Station Nos. | 2008 | 2011 |
| 0300 | 3 | 3 |

Assessment: Unsatisfactory ecological conditions persist in the Ballymore Stream in June 2011. The lack of sensitive macroinvertebrate fauna coupled with enhanced weed growth and excessive siltation indicated significant ecological disruption downstream of Ballymore village (0300). Sewage is the suspected source of pollution.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------------------|------------|-------------|----------------------|-------------|
| 0300 | Br SW of ballymore (d/s BallymoreSTW) | 221219 | 248414 | 48 | WH |

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: 7/9/2011

Formerly Bellavalley Branch of Owenmore (Glangevlin) 26O03

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0120 | 5 | 4-5 | 5 | 4-5 | 5 | 4-5 | 4-5* | 4-5 |

Assessment: The Bellavally Stream was once again in a highly satisfactory ecological condition when surveyed in early September 2011, with no silt problem evident.

| 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: 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0070 | - | - | 5 | 4 | 4 | 4 | - | - | - | - |
| 0080 | - | - | 5 | 3 | 3-4 | 4 | 4-5 | 4 | 4* | 4 |
| 0100 | 5 | 5 | 5 | 4 | 4 | 4 | 4-5 | 4-5 | 4* | 4 |
| 0200 | 5 | 4-5 | 5 | 4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0300 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: The Black (Leitrim) River remains in a satisfactory ecological condition throughout its length in 2011 with a diverse macroinvertebrate fauna. Excessive siltation remains a feature however, particularly at station 0100 (Bridge near Breanriskulley).

| 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 Breanriskulley | 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: 22/6/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1977 | 1980 | 1982 | 1984 | 1986 | 1987 | 1988 | 1989 | 1990 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0045 | - | - | - | - | - | 1-2 | 1 | 1-2 | 1 | 1 | 1 | 1 | 1 | 3 | 2-3 | - | 3-4 |
| 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 | - | 3-4 |
| 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 | 4 | 4 |

Assessment: A welcome improvement in ecological condition was observed in both upstream sites (0045 and 0100) on the Black (Westmeath) in June 2011. Although still moderately polluted, the presence of some sensitive macroinvertebrate taxa for the first time in thirty years of sampling is an encouraging sign.

| 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: 8/9/2011

Previously reported as the Boleybaun Branch of the Diffagher - 26D02

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0400 | 3-4 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 |

Assessment: High ecological status was recorded in the Boleybaun stream in early September 2011, with good macroinvertebrate diversity and a range of sensitive taxa observed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0400 | Br N Cloonamurgal | 190481 | 326618 | 26 | LM |

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: 29/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0600 | 3 | 4 | 3 | 3 | - | n/s | - | - |
| 0800 | 3 | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | 3-4 | 4 | - | - |
| 1100 | 4 | 4 | 4 | - | - | - | 3-4* | - |
| 1200 | - | - | - | - | 4 | 4 | - | 4 |

Assessment: Due to inaccessibility at Kilbillaghan Bridge (1100), the downstream site (1200) was sampled in June 2011, and ecological condition was found to be good at this location on the Boor River.

| 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: 29/8/2011, 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1978 | 1980 | 1983 | 1987 | 1992 | 1996 | 1999 | 2000 | 2002 | 2005 | 2008 | 2009 | 2011 |
| 0100 | - | - | - | 5 | 4 | 4-5 | 4 | 4 | 4 | - | 4 | 4 | 4 | - | 4 |
| 0200 | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 4 | 4 | 4 | - | 4-5 | 4 | 4 | - | 4 |
| 0400 | 5 | - | 3-4 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 | - | 4 | 4 |
| 0600 | 5 | 5 | - | 5 | 4-5 | - | 4 | 4 | 4 | - | 4 | 4 | - | 4 | 4 |

Assessment: Good ecological status has been maintained at all sites surveyed on the Boyle in 2011.

| 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 |
| 0400 | Drum Bridge (Boat House Ford) | 181616 | 303934 | 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 |
| 0400 | 44 | 525 | 13 | 87 | 51 | 1 | 22 | 1 | 11 | 3 | 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: 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1983 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 5 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4 |

Assessment: Good ecological conditions persist on the Breedoge in August 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 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 |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 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: 28/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3* | 3-4* |
| 0200 | 5 | 4 | - | - | - | - | - | - | - |
| 0300 | - | - | 3-4 | - | - | - | - | - | - |
| 0400 | 4 | 5 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |

Assessment: Although there was a welcome improvement in ecological condition upstream of Twy Lough (0100), with good numbers of sensitive mayflies present, heavy siltation and excessive macroalgal growth indicate ongoing pollution problems. Conditions are better downstream at Ballykeeran (0400) with good riffle habitat and a diverse macroinvertebrate population.

| 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: 15/6/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1973 | 1975 | 1977 | 1979 | 1981 | 1983 | 1985 | 1987 | 1989 | 1990 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 4 | 4-5 |
| 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 | 3-4 | 4-5 |
| 0700 | - | 4-5 | 4-5 | 4 | 4 | 5 | 4-5 | 4-5 | 4-5 | - | - | 4 | - | 4 | 4 | 4-5 | 4-5 | - | 4-5 |
| 0800 | - | - | - | - | - | 4 | 4-5 | 4-5 | 4-5 | - | - | 3-4 | - | 3-4 | 4 | 4 | 4 | 3-4 | 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 | 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 | 3-4 | 3-4 |
| 1200 | - | - | - | - | - | - | - | - | - | - | - | 2-3 | 3 | - | - | - | - | - | - |

Assessment: There was a marked improvement in ecological condition in the upper reaches of the Camlin when surveyed in June 2011, with highly satisfactory conditions recorded at Ballinalee Bridge (0200), Argar Bridge (0600) and at Bridge near Kiltyreher (0700). The Mall Bridge in Longford (0800) was also found to be of good ecological status. However, the lower reaches (1000 and 1100) continue to disappoint, with excessive macroalgal growth and siltation, coupled with paucity of sensitive macroinvertebrates, indicating ongoing pollution problems.

| 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 (2011)

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: 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1983 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4-5 | 4 | 3-4 | 4 | 3-4 | 3-4 | 4 | 4 |
| 0200 | 3 | 4 | - | 3 | 3-4 | 3-4 | 3 | 3 | 4 | 3 |

Assessment: Carricknabraher continues to be of satisfactory quality in its upper reaches (0100) but the loss of sensitive macroinvertebrates at the slower flowing downstream site (0200) is an indication of the unwelcome return of eutrophic conditions.

| 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: 12/7/2011

26/C/03

OS Catchment No: 156

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1979 | 1981 | 1983 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0080 | - | - | - | 3 | 4 | 2-3 | 4 | 4 | 4 | - | 4 |
| 0100 | 3 | 4 | 4 | 3 | 3-4 | 2-3 | 3 | 3 | 4 | 3-4 | 3-4 |
| 0200 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Assessment: Good ecological conditions were found in the upper reaches of the Castlegar (0080 and 0100) in July 2011. However moderate pollution still persists in the lower reach (0200), downstream of the Mountbellew wastewater treatment plant.

| 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: 29/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1989 | 1990 | 1991 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0500 | 2 | 2-3 | 3 | 3 | 3 | 2-3 | 3 | 3 | 3 | 3 |
| 0900 | - | - | - | 4 | 3 | 3-4 | - | 3 | 3-4 | 3-4 |

Assessment: The trend in unsatisfactory ecological conditions continues on the Clogher (Roscommon) in August 2011.

| 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: 15/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 3 | - | - | - | - | - | - | - |
| 0300 | 3 | 3 | 3-4 | 4 | 4 | 4 | 4* | 4 |
| 0500 | 3 | 3-4 | 3 | 4 | 4 | 4 | - | - |

Assessment: The macroinvertebrate fauna continues to indicate satisfactory conditions on the Clooncoose Stream in June 2011.

| 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: 22/8/2011, 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | 5 | 3-4 | - | - | - | - | - | - |
| 0100 | 4-5 | 4-5 | 5 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4 |
| 0200 | 4-5 | 3-4 | 5 | 4 | - | - | - | - | - | - |
| 0250 | - | - | - | - | 4-5 | 4 | 4-5 | 4 | - | 4 |
| 0300 | 4-5 | 4-5 | 4-5 | - | - | - | - | - | - | - |
| 0400 | 5 | 5 | 5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 3-4 | 4 |

Assessment: The Cloone River was found to be in good ecological condition throughout its length when surveyed in August 2011. The improvement at Lurga Bridge (0400) was particularly welcome, restoring overall good status to the river. Enhanced macrophyte growth is still a feature of stations 0100 and 0400.

| 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 : **CLOONEIGH**
 Tributary of : Lough Ree
 OS Grid Ref of Confluence: M 951 650
 Date(s) Surveyed: 5/7/2011

26/C/06

OS Catchment No: 155

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2009 | 2011 |
| 0030 | - | - | - | - | - | 3-4 | 4 | - | 4 | 4 |
| 0040 | - | - | - | 4 | 3-4 | - | - | - | - | - |
| 0100 | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 0200 | 4 | 3-4 | 4 | 2-3 | 3 | 4 | 4 | 4 | - | 3 |

Assessment: Good ecological condition persisted in the upper reach (0030) of this Lough Ree tributary in July 2011, while the downstream site (0200) is moderately polluted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0030 | Br S Drumdaff | 191089 | 269426 | 40 | RN |
| 0040 | Br SE Lisgobbin | 192783 | 267840 | 40 | RN |
| 0100 | Br NE Tonlegee | 193250 | 267170 | 40 | RN |
| 0200 | Clooneigh S of Derryturk | 194328 | 265466 | 40 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0040 | 44 | 13 | 0 | 100 | 89 | 0 | 2 | 0 | 9 | 0 | 0 |
| 0200 | 39 | 44 | 0 | 100 | 85 | 1 | 11 | 0 | 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 : **CLOONFLOWER STREAM**

26/C/21

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 623 814

Date(s) Surveyed: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4-5 | 4 | 3 | 3-4 | 4 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological quality was noted on the Cloonflower Stream in 2011, although cattle access is causing excessive siltation and fencing is recommended.

| 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: 22/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0700 | 4 | 4 | 3-4 | 4 | 4 | 4 | 4* | 4* |

Assessment: Despite heavy siltation, the macroinvertebrate community continues to indicate satisfactory ecological conditions in the lower reaches (0700) of the Comoige River.

| 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: 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0500 | 4-5 | 4 | - | - | - | n/s | - | - |
| 0800 | - | - | 4-5 | 4-5 | 4 | 4-5 | 4* | 4 |
| 0900 | 4 | 4 | - | - | - | n/s | - | - |

Assessment: The Creelaghta Stream remains in a satisfactory ecological condition in August 2011.

| 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 : **CROSS (ROSCOMMON)**

26/C/10

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 004 393

Date(s) Surveyed: 28/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2009 | 2011 |
| 0060 | - | - | - | 4 | 4 | 3-4 | 3-4 | 3 | - |
| 0070 | - | - | - | - | - | - | 3 | - | 4 |
| 0100 | 4 | 4 | 4-5 | 4 | 3-4 | 4 | - | - | - |
| 0200 | 4 | 4 | 3-4 | 4 | 4 | 4 | 3-4 | 3-4 | 4 |
| 0300 | 4 | 4 | 3 | 3 | 3 | 3 | 3-4 | 3-4 | 4 |
| 0400 | 4 | 4 | 4 | 4 | - | 4 | n/s | 4 | 3 |

Assessment: The Cross (Roscommon) rises as an underground outflow from Lough Funshinagh (located to the west of Lough Ree) and flows into the River Shannon at Athlone. The upper reaches (0070, 0200, 0300) were found to be in good ecological condition in June 2011. Only the lower site (0400), located upstream of the Shannon confluence, was found to have deteriorated in quality, with no sensitive macroinvertebrates observed.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0060 | Br E of Eskerbaun | 194485 | 245846 | 47 | RN |
| 0070 | Br SW of Milltown Pass . | 195465 | 245237 | 0 | RN |
| 0100 | Bridge at Corrantotan | 196225 | 244436 | 47 | RN |
| 0200 | Bridge at Burnbrook | 198628 | 242119 | 47 | RN |
| 0300 | Bridge S. of Doyle's Bridge | 201223 | 240189 | 47 | RN |
| 0400 | Bridge u/s Shannon River | 203709 | 239202 | 47 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0060 | 55 | 42 | 0 | 100 | 82 | 0 | 0 | 0 | 5 | 10 | 3 |
| 0100 | 50 | 49 | 0 | 100 | 83 | 0 | 0 | 0 | 5 | 8 | 3 |
| 0200 | 43 | 80 | 0 | 100 | 79 | 0 | 6 | 1 | 3 | 5 | 5 |
| 0300 | 39 | 103 | 0 | 100 | 80 | 0 | 7 | 1 | 4 | 4 | 4 |
| 0400 | 37 | 116 | 0 | 100 | 78 | 0 | 7 | 2 | 4 | 4 | 5 |

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

River and Code : **CUILLEEN STREAM**

26/C/17

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 847 333

Date(s) Surveyed: 28/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0400 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological condition was noted in the Cuilleen Stream, a tributary of the Suck, in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0400 | Br near Clarary Railway Br. | 186238 | 232889 | 47 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0400 | 44 | 10 | 0 | 100 | 62 | 5 | 9 | 0 | 8 | 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 : **CURRAGHROE STREAM**

26/C/15

Tributary of : 26F03 FEORISH (TARMONBARRY)

OS Catchment No: 155

OS Grid Ref of Confluence: N 023 773

Date(s) Surveyed: 15/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1982 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | - | 4 | 4 | - | 3 | 2-3 | 3 | - | - | - |
| 0140 | - | - | - | 3 | - | - | - | - | - | - |
| 0180 | - | - | - | - | - | - | 3 | 3 | 3 | 2-3 |
| 0200 | 4 | 4 | 4 | 3 | 2-3 | 3 | - | - | - | - |

Assessment: Macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions on the Curraghroe (0180) in June 2011. Extensive peat siltation is an issue here as the stream borders an existing bog that is subject to peat harvesting.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bridge S. of Curraghroe | 198506 | 274427 | 40 | RN |
| 0140 | Br ESE of Curraghroe | 199190 | 274795 | 40 | RN |
| 0180 | Br NW Drinagh | 200428 | 276496 | 40 | RN |
| 0200 | Bridge N. of Drinagh | 200831 | 276799 | 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 | 43 | 3 | 27 | 73 | 62 | 0 | 3 | 0 | 0 | 0 | 35 |
| 0200 | 39 | 17 | 16 | 84 | 62 | 0 | 18 | 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 : **DERRYHIPPOO**

26/D/01

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 793 637

Date(s) Surveyed: 13/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0050 | - | - | 3 | - | - | - | - | - | - | - |
| 0100 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3-4 | - | 4 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | n/s | 3 | 3 |

Assessment: Although ecological conditions were found to be satisfactory in the upper reach (0100) of the Derryhippo in 2011, the lower site (0200) remains in poor status. Excessive silt due to cattle access/poaching is a feature of both sites and fencing is recommended.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0050 | Bridge u/s Lough Ouver | 173716 | 260960 | 40 | GY |
| 0100 | Ballina Bridge | 175530 | 261178 | 40 | RN |
| 0200 | Bridge at Loughnasaggart | 179329 | 262987 | 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 | 59 | 16 | 0 | 100 | 86 | 4 | 3 | 0 | 5 | 0 | 2 |
| 0200 | 60 | 35 | 0 | 100 | 77 | 4 | 7 | 0 | 4 | 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 : **DERRYMULLAN STREAM**

26/D/07

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 845 318

Date(s) Surveyed: 30/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0200 | - | 3 | 3-4 | 4 | 4 | 3-4* | - | - |
| 0400 | 3 | 4 | 4 | 4 | 3-4 | 3-4* | 4 | 4 |
| 0500 | 3 | 4-5 | 4 | 4 | 4 | 4 | - | - |
| 0700 | - | 4 | 4 | 4 | 4 | - | 4 | 4-5 |

Assessment: Good ecological condition persisted on the Derrymullan in 2011, with the lower site (0700) showing further improvement since the last survey. This is a welcome development in an intensively farmed catchment.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0200 | Bunowen Br | 175330 | 229611 | 47 | GY |
| 0400 | Kilmalaw Bridge | 178454 | 231054 | 47 | GY |
| 0500 | Killure Bridge | 180498 | 232455 | 47 | GY |
| 0700 | 1st Bridge u/s Suck confl | 184114 | 231759 | 47 | GY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 79 | 5 | 0 | 100 | 63 | 2 | 8 | 0 | 0 | 0 | 26 |
| 0400 | 51 | 32 | 0 | 100 | 84 | 2 | 1 | 1 | 5 | 0 | 6 |
| 0500 | 44 | 56 | 0 | 100 | 82 | 1 | 6 | 1 | 6 | 0 | 5 |
| 0700 | 40 | 62 | 0 | 100 | 81 | 1 | 5 | 2 | 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 : **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: 7/9/2011

Formerly Derrynananta Branch of Owenmore (Glangevlin) 26O03

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0140 | 5 | 4 | 4-5 | 4-5 | 4-5 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological condition was recorded on the Derrynananta Stream in 2011.

| 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: 8/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 |

Assessment: Good ecological status has been maintained in the Diffagher in 2011.

| 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 : **DRUMSHANBO STREAM**

26/D/05

Tributary of : Lough Allen

OS Catchment No: 155

OS Grid Ref of Confluence: G 968 112

Date(s) Surveyed: 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1986 | 1987 | 1988 | 1989 | 1990 | 1992 | 2008 | 2011 |
| 0100 | 5 | 5 | 5 | - | - | - | 5 | - | - |
| 0280 | 3 | 3-4 | 3-4 | - | - | - | - | - | - |
| 0300 | 1 | 2-3 | 2 | 1-2 | 1 | 1 | - | 3* | 3-4 |
| 0400 | - | - | - | - | - | 2 | 3 | - | - |

Assessment: A welcome return to satisfactory ecological condition was noted on the Drumshanbo Stream in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0100 | Just E. of Dorrusawillin | 0 | 0 | 26 | LM |
| 0280 | Drumshanbo: Rockwell Tce Br | 0 | 0 | 26 | LM |
| 0300 | 150 m d/s Sewage Trtmt Works | 197318 | 311332 | 26 | LM |
| 0400 | 300 m d/s Sewage Trtmt Works | 0 | 0 | 26 | LM |

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: 27/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | 4 | 3 | 3-4 | - | - | - | - | - |
| 0200 | - | 3-4 | 4 | 3-4 | 4 | 4 | 3-4* | 4 | 3-4 | 4 |
| 0300 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 4 | 4 | - | - |
| 0400 | - | - | - | - | - | 4 | 4-5 | 3-4 | 3-4 | 4 |

Assessment: Good ecological condition was found at both sites sampled on the Dungolman in 2011.

| 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: 8/8/2011, 16/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1982 | 1984 | 1986 | 1987 | 1989 | 1990 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4-5 | 4 | 3-4 | 4 | 5 | - | - | 3-4 | - | 4-5 | 3-4 | 4 | 3-4 | 3-4 | 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 | 3-4 | 3-4 |
| 0350 | - | - | - | 3-4 | 3-4 | - | - | - | - | - | - | - | - | - | - |
| 0400 | 4-5 | 4 | 3 | 4 | 5 | - | - | 3 | - | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 |
| 0500 | 2 | 2 | 2 | 2 | 2 | 1-2 | 1 | 2 | 2-3 | 3 | 4 | 3-4 | 3-4 | 3 | 3-4 |
| 0600 | 2-3 | 3 | 3 | 2-3 | 2 | 2 | 1-2 | 2 | 2-3 | 3 | 4 | 3-4 | - | - | - |

Assessment: Ecological conditions remained unsatisfactory on the Eslin along its length in 2011. A combination of low dissolved oxygen and excessive siltation, with few sensitive macroinvertebrate species observed.

| 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: 14/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1984 | 1987 | 1988 | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0020 | - | - | - | - | 3-4 | 3-4 | 4 | 4 | 3-4 | 3-4* | 4 |
| 0030 | - | - | - | 4-5 | 4 | - | - | - | - | - | - |
| 0040 | - | - | - | - | - | 3-4 | 3-4 | 4 | 3-4 | 3-4 | 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 | 3-4 | 4 |
| 0300 | 4 | 4 | - | - | 3-4 | - | - | - | - | - | - |

Assessment: A welcome improvement at two locations (0020 and 0200) on the Fallan River in 2011 resulted in satisfactory ecological conditions being recorded. However, the middle site (0040) continues in unsatisfactory condition.

| 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: 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|
| | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0400 | 4 | 4-5 | 4-5 | 4-5 | 3-4 | 3-4 |

Assessment: Despite good macroinvertebrate diversity, the Fardrumman Stream remains in an unsatisfactory ecological condition in 2011.

| 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: 6/9/2011, 14/9/2011, 15/9/2011, 15/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1982 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0080 | - | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| 0250 | - | - | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| 0400 | 5 | 4 | 4 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4 |

Assessment: The Feorish (Ballyfarnon) was found to be in good ecological condition over its length in 2011, a trend that has persisted since surveys first began.

| 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 : **FEORISH (TARMONBARRY)**

26/F/03

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 042 767

Date(s) Surveyed: 15/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1982 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4 | 4 | 2-3 | 1-2 | 2-3 | 2 | - | - | - | - |
| 0140 | - | - | - | - | - | - | 2-3 | 2-3 | 3 | 3 |
| 0160 | - | - | 3 | 4 | - | - | - | - | - | - |
| 0200 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 |
| 0300 | 4 | 4 | 4 | 3-4 | - | - | - | - | - | - |
| 0400 | - | - | - | - | 3 | 3 | 3 | n/s | 3 | 2-3 |

Assessment: Unsatisfactory ecological conditions were found to persist over the length of the Feorish (Tarmonbarry) in 2011, a trend that has continued largely unchanged for 25 years.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bridge N.E. of Ballymoylin | 201135 | 283669 | 33 | |
| 0140 | Br W Dooslattagh | 201597 | 282328 | 33 | |
| 0160 | Bridge E. of Caul | 0 | 0 | 0 | |
| 0200 | Bridge S.E. of Northyard | 201406 | 279802 | 40 | RN |
| 0300 | Cloonmore Bridge | 201912 | 278125 | 40 | RN |
| 0400 | Br d/s Cloonmore Br | 203455 | 277413 | 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 | 51 | 5 | 100 | 0 | 82 | 0 | 0 | 0 | 0 | 7 | 11 |
| 0200 | 39 | 25 | 45 | 55 | 76 | 0 | 14 | 0 | 0 | 1 | 7 |
| 0300 | 39 | 44 | 30 | 70 | 71 | 0 | 19 | 0 | 0 | 1 | 9 |
| 0400 | 39 | 79 | 20 | 80 | 60 | 0 | 29 | 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 : **FRANCIS**

26/F/05

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 674 798

Date(s) Surveyed: 1/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | - | - | 3-4 | 3 | 3 | 4 | 3 | - | - |
| 0050 | - | - | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 4 |
| 0300 | 4 | 3-4 | 4 | 4 | 3 | 4 | 4 | 3-4 | 4 | 4 |

Assessment: The macroinvertebrate fauna continues to indicate good ecological conditions on the Francis in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0010 | Br SE Druminagh | 166122 | 286033 | 32 | RN |
| 0050 | Cloonard Bridge | 166798 | 283964 | 32 | RN |
| 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 |
| 0050 | 81 | 24 | 0 | 100 | 28 | 0 | 30 | 0 | 10 | 0 | 32 |
| 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: 21/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 3-4 | 3 | 3-4 | 3-4 | 3 | 3 | 3-4 | 3-4 | 3 |
| 0200 | 3-4 | 4 | 3-4 | 3-4 | 3* | 3 | 3 | 3 | 3 |
| 0300 | - | - | - | 3-4 | 3-4 | 3 | 3-4 | n/s | - |

Assessment: The Gaine River was once again found to be in an unsatisfactory ecological condition in 2011. Groundwater appears to have a major adverse effect on fauna of the Gaine River as sensitive species were not observed at either of the two locations surveyed. Extensive stream works were noted at the upper site (0100), with all trees removed upstream, bed deepened and riffle sequence significantly disturbed. Excessive silt and abundant macroalgal growth contributed to the unsatisfactory status.

| 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: 21/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 5 | 3-4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3 | 3 | 3 |
| 0200 | 4 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4 | 3-4 | 4-5 |

Assessment: The Glore (Westmeath) was once again found to be slightly polluted/eutrophic below Glore lake (0100), as characterised by excessive siltation and a paucity of sensitive macroinvertebrate fauna. By contrast, the lower reaches (0200) showed a welcome return to highly satisfactory ecological condition in 2011.

| 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 : **GOWLAUNREVAGH** **26/G/12**
 Tributary of : 26O02 OWENGAR (LEITRIM) OS Catchment No:
 OS Grid Ref of Confluence: G 894 232
 Date(s) Surveyed: 6/9/2011

Initially called Owengar 0050.

| | | |
|---------------------|-------------|---------------------------------------|
| Station Nos. | 2008 | Biological Quality Ratings (Q Values) |
| 0050 | 1* | 2011 2-3 |

Assessment: This tributary of the Owengar River is in recovery after taking the main brunt of the landslides that occurred in the upper catchment of the Owengar and Arigna in mid-August 2008. At that time, the river bed was completely scoured out leaving very little in terms of remaining fauna or flora. Although the river was in flood during sampling, and diversity was very low, slow recovery appears to be taking place in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0050 | Br S Glassalt | 188441 | 322558 | 26 | LM |

River and Code : **HIND**

26/H/01

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 967 606

Date(s) Surveyed: 4/7/2011, 5/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1980 | 1983 | 1986 | 1987 | 1989 | 1990 | 1992 | 1996 | 1999 | 2000 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 3-4 | 3 | 3 | 2-3 | 2-3 | 2 | 2-3 | 2-3 | 2 | 2 | - | 2-3 | 3/0 | 3 | 3 |
| 0400 | 4 | 3-4 | 3-4 | 4 | 3-4 | 3 | - | - | 3 | 2-3 | 2 | 2 | 2-3 | 3 | 3 | 3 |
| 0500 | 4-5 | 3-4 | 4 | 4 | 3-4 | 3-4 | - | - | 3 | 3 | 2-3 | 2-3 | 3 | 3 | 3-4 | 3-4 |

Assessment: The Hind remains in unsatisfactory ecological condition throughout its length in 2011, a situation that remains relatively unchanged for forty years.

| 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: 21/6/2011, 22/6/2011, 23/6/2011, 24/8/2011,
27/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1977 | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2009 | 2011 |
| 0060 | - | - | - | - | - | 4 | 3 | 3 | 3 | 3 | 3 | - | - | - |
| 0100 | - | - | - | 3-4 | 3-4 | 4 | 4 | 3-4 | 3-4 | - | - | 3-4 | - | 3-4 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3 | 3-4* | - | 3-4 |
| 0300 | - | - | - | 4 | 4-5 | 4 | 3-4 | 4 | 3 | 3 | 3-4 | 3-4 | - | 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 | 3-4 | - | 3 |
| 0550 | - | - | - | - | 4 | 4 | - | - | - | - | - | - | - | - |
| 0600 | - | - | 4-5 | 4-5 | 4-5 | 4 | 3-4 | 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 | 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 | 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 | 4 | - | 4 |
| 1080 | - | - | - | - | - | 5 | 4 | - | - | - | - | - | - | - |
| 1120 | - | - | - | - | 4-5 | 5 | - | - | - | - | - | - | - | - |
| 1150 | - | - | - | - | - | 5 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | - | 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 | - | 4 | 4-5 |
| 1400 | - | - | - | 4-5 | 4-5 | 5 | 4 | 3-4 | 4 | 4 | 4 | - | - | - |

Assessment: Good ecological condition was found at six out of ten sites surveyed on the Inny in 2011, a major improvement on the 2008 survey results. The two uppermost sites, upstream of Lough Sheelin, are not reaching their ecological potential, with sensitive macroinvertebrate taxa noticeably absent. A welcome improvement in quality at 0300 (Ballinrink Bridge) was followed by unsatisfactory conditions at both Finnea and Camagh Bridges respectively (0500 and 0600). The lower reaches, and downstream of Lough Derravarragh to Shrute Bridge (1350), exhibited high macroinvertebrate diversity and a range of sensitive taxa.

Hydrometric Area 26 (2011)

| 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 Abbeyshrul Br | 0 | 0 | 41 | LD |
| 1120 | 500 m d/s Abbeyshrul 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 | Shrul 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: 13/7/2011, 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0100 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0300 | 4-5 | 4-5 | 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 | 4-5 | 4-5 |

Assessment: The macroinvertebrate fauna continue to indicate satisfactory ecological conditions on the Island in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0040 | Br SW of Cloonlee | 158310 | 275840 | 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: 4/7/2011

Previously reported as North Branch on Hind 26H01

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1987 | 1989 | 1990 | 1992 | 1996 | 1999 | 2002 | 2005 | 2007 | 2008 | 2009 | 2011 |
| 0090 | 1-2 | 2 | 2 | 1-2 | 1-2 | 1-2 | 2 | 1-2 | 2 | 2 | 1-2 | 2 |

Assessment: Serious pollution continues to be a feature of the Jiggy in 2011.

| 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: 8/9/2011

Formerly known as Killadiskert Branch of Diffagher - 26D020600

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1989 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0600 | 4-5 | 4 | 4 | 4 | 4-5 | 4 | 4 |

Assessment: Good ecological condition has been maintained on this Diffagher tributary in 2011.

| 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 : **KILLEGLAN**
 Tributary of : 26S07 SUCK
 OS Grid Ref of Confluence: M 858 396
 Date(s) Surveyed: 28/6/2011

26/K/04

OS Catchment No: 156

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | - | 3 | - | - | - | - | - | - |

Assessment: The Killeglan, upstream of the Suck river confluence (0200), continues to be of satisfactory ecological quality, a situation unchanged in almost 25 years.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0200 | Bridge u/s Suck River confl | 185190 | 239446 | 47 | RN |
| 0400 | Br NW of Camlagh House | 185800 | 239600 | 0 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 44 | 49 | 0 | 100 | 78 | 0 | 19 | 0 | 1 | 0 | 2 |

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

River and Code : **KILLIAN**

26/K/01

Tributary of : 26S03 SHIVEN (SOUTH)

OS Catchment No: 156

OS Grid Ref of Confluence: M 742 490

Date(s) Surveyed: 12/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 |
| 0100 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4-5 | 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 | 4 | 4-5 |

Assessment: Good and highly satisfactory ecological conditions existed at all sites sampled on the Killian in 2011.

| 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: 8/8/2011, 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 3-4 | 3-4 | 3 | 3 | 3 | 3-4 | 3 | 3-4 |
| 0300 | 3-4 | 3 | - | - | 3 | 3 | - | - |
| 0500 | 4-5 | 4 | 4 | 4 | - | - | - | - |
| 0700 | 4 | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4 |

Assessment: The upper site (0100) on the Killukin is still not achieving its ecological potential in 2011. In contrast, the lower site (0700) is exhibiting good ecological status, with no change from last survey.

| 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 : **KILMACRICARD**

26/K/17

Tributary of : 26S05 SPRINGFIELD

OS Catchment No: 156

OS Grid Ref of Confluence: M 667 659

Date(s) Surveyed: 13/7/2011

Previously reported as East Branch on Springfield 26S05

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0025 | 4 | 3-4 | 4 | 3 | - | - | - | - | - | - |
| 0030 | - | - | - | - | 3-4 | 4 | 4-5 | 3-4 | 4 | 4 |

Assessment: Good ecological condition has been maintained on this Springfield tributary in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0025 | Br 2 km N. of Keeloges Cross | 169400 | 265000 | 39 | GY |
| 0030 | Br ENE of Kilmacricard | 168493 | 265594 | 39 | GY |

River and Code : **KILMACTRANNY**

26/K/03

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 852 123

Date(s) Surveyed: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 2002 | 2008 | 2011 |
| 0800 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: This spring-fed stream was in flood during sampling in September 2011, but the macroinvertebrate fauna continues to indicate good ecological conditions.

| 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 : **KILTA CLARE STREAM**

26/K/06

Tributary of : 26L03 LUNG

OS Catchment No: 155

OS Grid Ref of Confluence: M 578 923

Date(s) Surveyed: 5/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0700 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 |

Assessment: The Kiltacclare, upstream of the Lung River confluence (0700), has maintained its good ecological status for almost twenty years.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0500 | 4 | 4 | 3-4 | 3 | 3-4 | 3-4 | 4 | 3-4 |

Assessment: An unwelcome return to unsatisfactory ecological conditions was noted on the Kinard in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 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 |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 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 : **LAURENCETOWN STREAM**

26/L/07

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 930 253

Date(s) Surveyed: 29/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1994 | 1996 | 1999 | 2002 | 2006 | 2009 | 2011 |
| 0200 | 3 | 3-4 | - | - | - | - | - | - | - |
| 0270 | - | - | 3 | - | - | - | - | - | - |
| 0290 | - | - | 2-3 | - | - | - | - | - | - |
| 0300 | 3 | 2-3 | 2 | 2 | 1 | 2-3 | 1 | 1 | 1-2 |
| 0500 | 3-4 | 3 | - | 2-3 | 3 | 2-3 | 2 | 3 | 3 |

Assessment: The Laurencetown Stream remains polluted throughout its length in 2011, a situation unchanged in almost 25 years.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | E. Br N.N.E. of Laurencetown | 189501 | 221057 | 47 | GY |
| 0270 | 300 m u/s Br E Sycamore Hill | 0 | 0 | 0 | GY |
| 0290 | 20 m u/s Br E Sycamore Hill | 0 | 0 | 0 | GY |
| 0300 | Br NW Ballyhoose (West Br) | 189277 | 221640 | 47 | GY |
| 0500 | Bridge near Kylemore Bridge | 192193 | 224097 | 47 | GY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 52 | 10 | 0 | 100 | 90 | 0 | 1 | 2 | 7 | 0 | 1 |
| 0300 | 49 | 11 | 0 | 100 | 88 | 0 | 1 | 3 | 7 | 0 | 2 |
| 0500 | 40 | 20 | 0 | 100 | 78 | 0 | 2 | 2 | 11 | 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 : **LENAMORE STREAM**

26/L/06

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 260 621

Date(s) Surveyed: 22/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | - | 4 | - | - | - | - |
| 0200 | 5 | 4 | 4 | 4 | 4 | 4 | - | 4 |
| 0400 | 3-4 | 3 | 4 | 4 | 3-4 | 3-4 | 4* | 4 |

Assessment: Satisfactory ecological conditions were found at both sites sampled on the Lenamore in 2011.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0080 | - | - | - | - | 2-3 | - | - | - | - | - |
| 0100 | - | - | 3 | 3 | - | 3 | - | - | - | - |
| 0200 | 3 | 3 | 3 | 3 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 |

Assessment: Unsatisfactory ecological conditions persist on the Lisdaly in 2011, despite good habitat present.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | 4 | 3-4 | 3 | 3 | 3 | 3 | - | 3 |
| 0300 | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 0350 | - | - | - | 4-5 | - | - | - | - | - | - |
| 0500 | - | - | - | 4 | 3 | 4 | 4 | 4 | 4 | 3-4 |

Assessment: An unwelcome deterioration from good to moderate status at site 0500 has resulted in overall unsatisfactory ecological conditions attributed to the Lissaphobble in 2011.

| 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: 1/9/2011, 5/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | - | - | - | - | - | - | - |
| 0500 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4 | - | - |
| 0800 | 4-5 | - | 4 | 4 | 4-5 | 4-5 | - | 4 |
| 0900 | 4-5 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions were found at both sites sampled on the Lissydaly in 2011.

| 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: 31/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1978 | 1980 | 1982 | 1984 | 1987 | 1992 | 1994 | 1996 | 1999 | 2000 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | 4-5 | 5 | 5 | 5 | 4-5 | 4-5 | - | 4 | 4 | - | 4-5 | 4-5 | - | 4 |
| 0200 | 5 | 5 | 4-5 | 4 | 5 | 5 | 4 | 4-5 | - | 4 | 4-5 | - | 4-5 | 4 | - | 4 |
| 0250 | - | - | - | - | - | - | 4 | 4 | - | 3-4 | 4 | - | - | - | - | - |
| 0350 | 5 | 4-5 | 4 | 4-5 | 4 | 4 | 3 | 4 | 4 | 4 | 4-5 | - | - | 4 | 4 | 4-5 |
| 0400 | 5 | 4-5 | 3 | 3 | 4 | 4 | 3 | 3-4 | 2 | 2-3 | 3 | 4 | 4 | 3 | 4 | 4 |

Assessment: Good ecological conditions persist at all sites sampled on the Lung in 2011.

| 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 |
| 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: 9/8/2011

Previously reported as Mantua Branch of the Owenur 26O06

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0060 | 4 | - | - | - | 2-3 | - | - | - |
| 0080 | 4 | 3 | 2-3 | 3-4 | 4 | 4 | 4 | 4 |

Assessment: The macroinvertebrate fauna were indicative of good ecological conditions on the Mantua Stream, upstream of its confluence with the Owenur River, when sampled in 2011.

| 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 : **MIHANBOY** **26/M/04**
 Tributary of : 26C10 CROSS (ROSCOMMON) OS Catchment No: 155
 OS Grid Ref of Confluence: M 994 418
 Date(s) Surveyed: 15/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1987 | 1994 | 1996 | 1999 | 2002 | 2006 | 2011 |
| 0200 | 4 | 4 | 4 | 4 | 4 | 4 | 2-3 |

Assessment: An unwelcome decline from good to poor ecological quality was noted on the Mihanboy in 2011. A complete paucity of sensitive macroinvertebrates characterised the site (0200).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0200 | Bridge u/s Cross River confl | 199006 | 241147 | 47 | RN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 41 | 16 | 0 | 100 | 84 | 0 | 14 | 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 : **MOUNTAIN (ROSCOMMON)**

26/M/03

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 973 857

Date(s) Surveyed: 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 3-4 | 3-4 |

Assessment: Unsatisfactory ecological conditions were found to persist at this deepwater site on the Mountain, a tributary of Kilglass Lough, in 2011.

| 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: 20/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1981 | 1984 | 1987 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | - | - | - | - | 4 | 4-5 | 3-4 | 4 | 4 | - | - |
| 0100 | - | - | 3 | 2-3 | 3-4 | - | - | - | - | - | - | - | - |
| 0120 | - | - | - | - | - | - | - | 3 | 1/0 | - | - | 2-3 | 3 |
| 0200 | 4 | 3-4 | 4 | 4-5 | 1 | 4 | 4 | 3-4 | 3 | 4-5 | 4 | 3-4* | 3 |
| 0250 | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0300 | - | - | 3-4 | 4 | 3 | - | - | - | - | - | - | 3-4 | 3-4 |
| 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 | 3-4 | 3-4 |

Assessment: Overall, unsatisfactory ecological conditions persisted at all sites on the Mountnugent River when surveyed in 2011. In particular, the dominance of pollution tolerant macroinvertebrate fauna indicated poor ecological status along the Ballyjamesduff branch (0120) and Station 0200. Ecological quality was also unsatisfactory along the Kildorragh branch (0300) and also in the lower reaches (0500). Enhanced weed growth, excessive siltation and low dissolved oxygen concentrations at some of the stations surveyed indicated varying degrees of eutrophication occurring along the Mountnugent River.

| 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: 27/6/2011

Formerly East Branch Of Dungolman River 26D06

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0060 | - | 4 | 4 | 4 | 3-4 | n/s | - | - |
| 0080 | 4-5 | 3-4 | 4 | 4 | 4 | 4 | 3-4* | 4 |

Assessment: The macroinvertebrate fauna were indicative of a return to good ecological condition on the Mullenmeehan when sampled in June 2011.

| 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: 6/9/2011, 8/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2009 | 2011 |
| 0075 | - | - | - | - | - | 4-5 | 4-5 | - | - | 4 |
| 0100 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | n/s | - | 4 | 4 |
| 0200 | 4 | 4 | 5 | 4-5 | 3-4* | - | 4 | 4* | - | 4 |

Assessment: Good ecological conditions were maintained at all sites on the Owengar in 2011, despite upper tributaries being effectively wiped out by severe scouring due to a major flood and a landslide/bog burst that occurred in mid-August 2008, on the watershed between the Owengar and Arigna catchments. Extensive fishery enhancement was being carried out on the upper station (0075) during survey visit.

| 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: 14/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | - | 5 | 4-5 | 4-5 | 5 | 4-5 | 4-5 | 3-4 | 4 |
| 0160 | - | - | - | 4 | - | 4 | - | - | - | - | - |
| 0200 | 5 | 5 | 5 | 5 | - | - | 4-5 | - | - | - | - |
| 0300 | 5 | 5 | 5 | 5 | 4-5 | 5 | 4-5 | 4-5 | 3-4 | 3-4* | 4 |

Assessment: A welcome return to satisfactory ecological quality was noted at both sites on the Owenmore (Glangevlin) in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0100 | Carty's Br | 208465 | 325985 | 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: 5/9/2011, 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 4 |
| 0200 | - | - | - | 4-5 | 4 | 4 | 4-5 | 4 | 4 | 3 |

Assessment: A welcome return to good ecological condition was noted in the upper station (0100) at Bellanagare Bridge in 2011. Downstream, and becoming more inaccessible, station 0200 slipped to unsatisfactory status with no sensitive mayflies observed on this sampling occasion.

| 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: 14/9/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1976 | 1981 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | 5 | 4 | 4 | 4 | 4 | 3-4 | 3-4 | 3-4 |
| 0100 | 4-5 | 4-5 | 5 | 5 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 |

Assessment: There was no change in status on the Owennayle at either site sampled in 2011.

| 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: 9/8/2011, 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4 | 4 | 4 | 3-4 | 3 | 4 | 4 | 4 |
| 0300 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | 4 | 4 | 4 |
| 0500 | 4 | 3-4 | 4 | 3-4 | 3 | 3 | 4 | 4 | 4 | 4 |

Assessment: The Owenur was satisfactory over its length when sampled in 2011.

| 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: 13/7/2011, 27/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1977 | 1981 | 1984 | 1988 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0030 | - | - | - | 4 | 3 | 3-4 | - | 3-4* | 3-4 | 3-4 | 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 | 3-4* | 3-4 |

Assessment: A welcome improvement to satisfactory ecological condition was observed at Washford Bridge (0030) in 2011. The lower site (0300) remains moderately polluted.

| 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: 22/8/2011, 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | - | - | - | - | - | - | - |
| 0400 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| 0700 | 5 | - | 3-4 | 4-5 | 4-5 | 4-5 | - | 4 |
| 0900 | 5 | 4 | 4 | 4 | 4 | 4 | 4* | 4 |

Assessment: The Relagh River remains in satisfactory ecological condition at all three stations sampled in 2011. Some signs of enrichment were evident in the lower reaches with excessive siltation, algal growth and low dissolved oxygen concentrations noted. Cattle access at 0900 is causing problems and fencing is recommended.

| 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: 15/6/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1987 | 1988 | 1989 | 1990 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 2 | 2 | 1 | 2 | 2-3 | 2 | 2 | 2 | 2-3 | 3 | 3 |
| 0300 | 3 | - | 3 | - | 3 | - | - | - | - | - | - |
| 0700 | 4-5 | - | - | - | 3-4 | 3 | 3 | 3 | 4 | 4 | 4 |

Assessment: The complete lack of sensitive macroinvertebrate fauna indicated a return to poor ecological conditions in the upper reaches (0200) of the Rhine River in 2011. In stark contrast, the macroinvertebrate fauna indicated satisfactory ecological conditions in the lower reaches (0700).

| 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: 23/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1978 | 1980 | 1984 | 1986 | 1987 | 1988 | 1990 | 1992 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0060 | - | - | - | 1 | 1 | 1 | 1 | 2 | 1-2 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | n/s | 2-3 |
| 0100 | 3 | 2-3 | 3 | 3 | 2 | 2 | 3 | - | 3 | - | 2-3 | 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 | 3-4 | - |
| 0300 | 4-5 | 3-4 | 4-5 | 4 | 4-5 | 4-5 | - | - | 4 | - | 4-5 | 4 | 4 | 4 | - | 4 |
| 0400 | - | 3-4 | 4-5 | 4 | 4 | 4 | - | - | 3-4 | - | 4 | - | 4 | 4 | 3-4 | 3-4 |

Assessment: The Rinn River was in an unsatisfactory ecological condition upstream of Lough Rinn (0060) in 2011. Low dissolved oxygen concentration (35% saturation) and the dominance of pollution tolerant taxa were features at this site. An improvement to good status was noted at Johnston's Bridge (0300), while the lowermost site (0400) is failing to regain its ecological potential.

| 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: 4/7/2011

Previously reported as South Branch on Hind 26H01

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1987 | 1989 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0250 | 3 | 3 | 4 | 4 | 4 | 4 | 3-4 | 3 | 4 |

Assessment: A very welcome return to good ecological status was noted on the Rocksavage in 2011.

| 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: 9/8/2011, 10/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1981 | 1984 | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |
| 0200 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 |
| 0300 | 3-4 | 4 | 4-5 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0600 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 |
| 0700 | - | - | 5 | 4-5 | 3-4 | 3 | 3-4 | 4 | 3 | 3 | 3 |

Assessment: Little has changed on the Scramoge since the last survey, apart from a deterioration to moderate status at Station 0050, downstream of Lough Conny More. Elsewhere, all sites were satisfactory apart from the last station (0700) upstream of its confluence with the Strokestown and the Mountain River flowing into Kilglass Lough.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | |
|--------------|---------------------------------------|------|------|------|
| | 2002 | 2005 | 2009 | 2011 |
| 0250 | 4 | 3 | 4 | 4 |

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Shad Lough Stream in 2011.

| 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: 16/6/2011, 24/8/2011, 28/6/2011, 29/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1972 | 1976 | 1982 | 1984 | 1985 | 1987 | 1990 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2009 | 2011 |
| 0100 | - | - | - | - | 5 | 5 | - | 4 | 4-5 | 4 | 4 | 4 | 3-4 | - | 4-5 |
| 0200 | - | - | 5 | - | 5 | 5 | - | 5 | 5 | 4-5 | 4-5 | - | 4-5 | - | 4-5 |
| 0300 | - | - | 5 | - | 5 | 5 | - | 5 | 4-5 | 4-5 | 5 | 4 | 4-5 | - | 4-5 |
| 0380 | - | - | - | 4 | - | 4 | - | - | - | - | - | - | - | - | - |
| 0500 | 4-5 | - | - | 4-5 | - | 5 | - | 4 | 4-5 | 4 | 4 | 4 | 4 | - | 4 |
| 1010 | - | - | - | - | - | - | - | 4 | 3-4 | 4 | 3 | 4 | 3 | - | 3 |
| 1190 | 4 | 5 | - | 4-5 | - | - | 3-4 | - | - | - | - | - | - | - | - |
| 1410 | - | - | - | - | - | - | - | - | 3-4 | 4 | 3-4* | 3-4 | 3-4 | - | - |
| 1415 | - | - | - | - | - | - | 3 | 2-3 | 3 | 3-4 | 3-4 | - | - | - | - |
| 1510 | - | - | - | - | - | - | - | 3 | 3-4 | 3-4 | 3-4* | 3-4 | - | 3-4 | 4 |
| 1530 | - | - | - | - | - | - | - | - | - | - | - | - | 3-4 | - | - |
| 1590 | - | - | - | - | - | - | - | 2-3* | 3* | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | - | - | - | - | 3* | 3* | 3 | 3-4* | - | - |
| 1705 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 1720 | - | - | - | - | - | - | 3 | 2-3 | 3 | 3-4 | 3-4 | 3 | 3 | - | 3 |
| 1730 | 4-5 | 4 | - | 3-4 | - | - | 3-4 | - | - | - | - | - | - | - | - |
| 1740 | 4-5 | 4 | - | 3-4 | - | - | 4 | - | - | - | - | - | - | - | - |
| 1800 | - | 5 | - | 4 | - | - | - | - | 4 | 4 | 3-4 | 4 | 3-4 | - | 3-4 |

Assessment: Highly satisfactory ecological conditions were observed in the three uppermost stations (0100, 0200, and 0300) on the Upper Shannon in 2011. Good macroinvertebrate diversity and the presence of a range of sensitive taxa characterised these sites. Ecological condition also remained satisfactory at Battle Bridge (0500). The complete paucity of sensitive macroinvertebrate fauna indicated a continuance of unsatisfactory conditions below Carrick on Shannon at Jamestown Weir (1010). A welcome improvement to good status was noted at Tarmonbarry (1510), for the first time ever in the sampling programme. There was no change in ecological condition at Athlone (1720) where the dominance of pollution tolerant species and enhanced weed and macroalgal growth continued to indicate significant ecological disruption. Lake-like conditions at Clonmacnoise (1800) made sampling difficult, but no change in unsatisfactory status was noted from the last survey.

Hydrometric Area 26 (2011)

| 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 | Bellantry 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 |
| 1530 | 1km d/s Camlin (S limb), S of Lodgetown (LHS) | 204317 | 276208 | 40 | |
| 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: 6/7/2011, 12/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0040 | - | - | 2-3 | 3 | 3 | 3-4 | 2-3 | 4 | 3 | 3 |
| 0100 | 4 | 3-4 | 4 | 4 | 3 | 3 | 3-4 | 4 | 4 | 4 |
| 0200 | 3-4 | 3-4 | 3-4 | 3 | 3 | 4* | 3 | 3 | 3-4 | 4 |
| 0300 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0400 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4-5 | 4-5 |

Assessment: Ecological condition remains good on almost all sites sampled on the Shiven (South) in 2011, except for the uppermost site (0040). Here ecological condition remains unsatisfactory, characterised by a complete lack of sensitive macroinvertebrate species, despite good habitat.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------|------------|-------------|----------------------|-------------|
| 0040 | Br near Fiddaun | 163029 | 253631 | 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 |
| 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 : **SMAGHRAAN**

26/S/04

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 803 646

Date(s) Surveyed: 5/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 3-4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3-4 |
| 0150 | - | 4 | - | - | - | - | - | - | - |
| 0200 | 4 | 4 | 3-4 | 4 | 4 | 4 | 4 | 3 | 4 |
| 0300 | 3-4 | 4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | n/s | - |

Assessment: Overall, a welcome improvement was noted on both sites sampled on the Smaghraan in 2011. Classed as unsatisfactory ecological condition, station 0100 was characterised by excessive siltation and low dissolved oxygen. In a reversal of the 2008 survey result, the lower site 0200 was noted to have returned to good status in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------------|------------|-------------|----------------------|-------------|
| 0100 | Smaghraan Bridge | 182686 | 270766 | 40 | RN |
| 0150 | Bridge N. of Lough Creevin | 182132 | 270227 | 40 | |
| 0200 | Br ESE Rockfield | 181583 | 267994 | 40 | RN |
| 0300 | Bridge SW Emlaghmagree | 179953 | 265717 | 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 | 69 | 22 | 0 | 100 | 78 | 1 | 5 | 0 | 8 | 0 | 8 |
| 0200 | 62 | 87 | 0 | 100 | 84 | 0 | 5 | 0 | 8 | 0 | 3 |
| 0300 | 56 | 98 | 0 | 100 | 84 | 0 | 5 | 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 : **SPRINGFIELD**

26/S/05

Tributary of : 26I03 ISLAND

OS Catchment No: 156

OS Grid Ref of Confluence: M 660 720

Date(s) Surveyed: 13/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1981 | 1984 | 1987 | 1989 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0100 | 4 | 2-3 | 3 | 4 | 3 | 3-4 | 4 | 3 | 3-4 | 4 | 4 |
| 0150 | 4 | 3-4 | 5 | - | 3-4 | 4-5 | 4-5 | 4 | 4 | - | - |
| 0200 | 4 | 4 | 4-5 | - | 4 | 4-5 | 4 | 4 | - | 4 | 4-5 |

Assessment: Satisfactory ecological condition persists on the Springfield Stream in 2011, with a welcome improvement to high status recorded at Ballaghaugeag Bridge, for the first time since 1996.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 0100 | Blacker's Bridge | 165456 | 266414 | 39 | GY |
| 0150 | Ford at Monasterowen | 164347 | 269482 | 39 | GY |
| 0200 | Ballaghaugeag Bridge | 166182 | 270551 | 39 | GY |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 75 | 26 | 0 | 100 | 50 | 1 | 39 | 0 | 6 | 0 | 4 |
| 0150 | 69 | 39 | 0 | 100 | 58 | 1 | 29 | 0 | 6 | 0 | 6 |
| 0200 | 66 | 51 | 0 | 100 | 58 | 1 | 27 | 0 | 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 : **STROKESTOWN**

26/S/08

Tributary of : 26M03 MOUNTAIN (ROSCOMMON)

OS Catchment No: 155

OS Grid Ref of Confluence: M 965 838

Date(s) Surveyed: 9/8/2011, 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2006 | 2008 | 2011 |
| 0050 | - | 3 | 2-3 | 2-3 | 2-3 | 3 | 3-4 | 2-3 | 2-3 |
| 0100 | 3-4 | 3 | 2-3 | 4 | 2-3 | 3 | 3 | 3 | 3 |
| 0200 | 4 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | 4 | 4 |

Assessment: No change in overall status was seen in the Strokestown River in 2011. Station 0050, downstream of the old landfill, and Station 0100, downstream of the town of Strokestown, both remain unsatisfactory. The improvement to good status seen at the lower site (0200), upstream of its confluence with the Scramoge River, in 2008 has been maintained.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0050 | Br at S. end of Strokestown | 193240 | 280596 | 33 | RN |
| 0100 | Br 1.5 km d/s Strokestown | 194259 | 280946 | 33 | RN |
| 0200 | Br SW Toberpatrick | 195605 | 283792 | 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 | 47 | 3 | 0 | 100 | 92 | 0 | 0 | 8 | 0 | 0 | 0 |
| 0100 | 45 | 4 | 0 | 100 | 84 | 0 | 0 | 11 | 0 | 0 | 5 |
| 0200 | 39 | 12 | 0 | 100 | 71 | 0 | 0 | 4 | 10 | 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 : **SUCK**

26/S/07

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 156

OS Grid Ref of Confluence: M 965 249

Date(s) Surveyed: 1/9/2011, 5/7/2011, 6/7/2011, 7/7/2011, 13/7/2011,
14/7/2011, 29/6/2011, 30/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1978 | 1980 | 1983 | 1984 | 1987 | 1992 | 1996 | 1999 | 2000 | 2002 | 2005 | 2008 | 2009 | 2011 |
| 0030 | - | - | - | - | - | - | 3-4 | 4 | 3-4 | 4 | - | 4-5 | 4 | 3 | - | 3-4 |
| 0050 | - | - | - | - | - | - | 4 | 4 | 4 | 4-5 | - | 4-5 | 4-5 | 4-5 | - | 3-4 |
| 0100 | 5 | 5 | 5 | 4-5 | - | 4 | 4-5 | 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 | - | 4-5 | 4 |
| 0400 | - | - | 4 | 4 | - | 4 | 4 | 4 | 3 | 4 | - | 4 | 4 | - | - | 4-5 |
| 0500 | 5 | 4-5 | 4 | 4 | - | 4 | 4-5 | 4-5 | 4 | 4 | - | 4-5 | 4 | 4 | - | 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 | 4 | - | 4-5 |
| 0650 | - | - | - | - | - | - | - | - | 4 | 4 | - | 3-4 | 4 | 4 | - | 4 |
| 0700 | - | - | 4-5 | 5 | - | 4-5 | 4-5 | 4-5 | 4 | 4-5 | - | 4-5 | 4-5 | 4 | - | 4 |
| 0800 | 5 | 4 | 4-5 | 3-4 | - | 3-4 | 3-4 | 4 | 3-4 | 4 | - | 3-4 | 4 | 4 | - | 4 |
| 0870 | - | - | - | - | - | - | - | - | 3 | 3 | - | 3-4 | 4 | 4 | - | - |
| 0900 | 5 | 3-4 | 4-5 | 4-5 | - | 4 | 4-5 | 4 | 3-4 | 4 | - | 3 | 4 | 4 | - | 4-5 |
| 1000 | - | 5 | 4-5 | 5 | - | 4-5 | 4-5 | 4 | 4 | 4 | - | 4-5 | 4-5 | - | - | 4-5 |
| 1100 | 5 | 5 | 4-5 | 4 | - | 4 | 4 | 4 | 4 | 4 | - | 4-5 | 4-5 | 4-5 | - | 4 |
| 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 | 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 | 3-4 | - | 3-4 |
| 1500 | 4-5 | 3-4 | 4-5 | 3-4 | 3-4 | - | 3 | 3-4 | 3 | 3 | - | 3-4 | 3 | 3 | - | 3-4 |

Assessment: There were no major changes on the River Suck in 2011, with satisfactory conditions recorded at twelve out of sixteen stations surveyed. Only the upper two (upstream and downstream of Lough O'Flynn) and last two stations downstream of Ballinasloe were unsatisfactory. A quarter of sites were deemed highly satisfactory, with a diverse range of macroinvertebrate taxa observed. An unwelcome deterioration was noted at station 0050 (d/s Lough O'Flynn) from highly satisfactory in 2008 to unsatisfactory on this sample occasion. This may possibly be attributed to substantial bank collapse which was noted at this location in 2011 and the bottom substrate was heavily silted as a result. The lower reaches (1400, 1500) are impacted by a number of potential pollution sources in Ballinasloe and downstream of the town - at this point the Suck is a large 5th order river. A slight improvement in quality was seen at Correen Ford (Station 1500) compared with 2008.

Hydrometric Area 26 (2011)

| 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 Gorteenclough | 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: 1/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1994 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 4 | 2-3 | 4-5 | 4 | 4-5 | 4 | 4 |

Assessment: Good ecological status has been maintained on the Termon Stream in 2011.

| 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: 7/9/2011, 24/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4 | 5 | 4 | 4-5 | 4 | 3-4* | 4 |
| 0200 | 4 | 4 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4-5 |

Assessment: The macroinvertebrate fauna indicates good ecological conditions exist on the Yellow (Ballinaglera) in 2011. A welcome improvement to good status was noted at the upper site (0100).

| 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: 21/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1984 | 1987 | 1992 | 1996 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0060 | - | - | - | - | 4-5 | 3-4* | 3-4 | 3-4* | 3 |
| 0100 | 4 | 4 | 4 | 4 | 4 | 4 | 3-4 | - | 4 |
| 0200 | 3-4 | 4 | - | - | - | - | - | - | - |
| 0250 | - | 4 | 3-4 | 3-4 | - | 3 | 3-4 | 3-4* | 3-4* |

Assessment: The upper (0060) and lower (0250) reaches of the Yellow (Castlepollard) River remain in an unsatisfactory ecological condition in 2011, characterised by excessive siltation and a lack of sensitive macroinvertebrates. The middle reach fared better with good ecological status recorded and a diverse range of macroinvertebrate taxa present.

| 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.

SHIRBD: HYDROMETRIC AREA NO. 26

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|------------------------------|------|-------|------|------|----------|------|-----|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Aghnashannagh Stream | 2011 | 26A11 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Ahascragh | 2011 | 26A01 | 0.0 | 22.0 | 3.5 | 1.5 | 0.0 | 27.0 |
| Anaderryboy | 2011 | 26A03 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 17.0 |
| Arigna (Roscommon) | 2011 | 26A02 | 0.0 | 16.0 | 2.0 | 0.0 | 0.0 | 18.0 |
| Ballinure | 2011 | 26B01 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 20.0 |
| Ballymore Stream | 2011 | 26B33 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Ballydangan | 2011 | 26B14 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 5.0 |
| Bellavally Stream | 2011 | 26B32 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Black (South Leitrim) | 2011 | 26B04 | 3.2 | 13.8 | 0.0 | 0.0 | 0.0 | 17.0 |
| Black (Westmeath) | 2011 | 26B05 | 0.0 | 3.9 | 9.0 | 2.2 | 0.0 | 15.0 |
| Boleybaun Stream | 2011 | 26B30 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Boor | 2011 | 26B07 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 13.0 |
| Boyle | 2011 | 26B08 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 16.5 |
| Breedoge | 2011 | 26B09 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| Breensford | 2011 | 26B10 | 0.0 | 2.1 | 4.9 | 0.0 | 0.0 | 7.0 |
| Camlin | 2011 | 26C01 | 19.2 | 3.7 | 4.4 | 7.8 | 0.0 | 35.0 |
| Carricknabraher | 2011 | 26C02 | 0.0 | 5.3 | 0.0 | 0.2 | 0.0 | 5.5 |
| Castlegar | 2011 | 26C03 | 0.0 | 8.3 | 1.2 | 3.5 | 0.0 | 13.0 |
| Clogher (Roscommon) | 2011 | 26C18 | 0.0 | 0.0 | 3.5 | 3.5 | 0.0 | 7.0 |
| Clooncoose Stream | 2011 | 26C20 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Cloone | 2011 | 26C05 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 16.5 |
| Clooneigh | 2011 | 26C06 | 0.0 | 5.8 | 0.0 | 2.2 | 0.0 | 8.0 |
| Cloonfower Stream | 2011 | 26C21 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 |
| Comoge | 2011 | 26C12 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Creelaghta | 2011 | 26C22 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 |
| Cross (Roscommon) | 2011 | 26C10 | 0.0 | 15.7 | 0.0 | 0.3 | 0.0 | 16.0 |
| Cuilleen Stream | 2011 | 26C17 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Curraghroe Stream | 2011 | 26C15 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 5.5 |
| Derryhippoo | 2011 | 26D01 | 0.0 | 8.3 | 0.0 | 2.2 | 0.0 | 10.5 |
| Derrymullan Stream | 2011 | 26D07 | 3.8 | 7.8 | 0.0 | 0.0 | 0.0 | 11.5 |
| Derrynananta Stream | 2011 | 26D23 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Diffagher | 2011 | 26D02 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Drumshanbo Stream | 2011 | 26D05 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.5 |
| Dungolman | 2011 | 26D06 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 14.0 |
| Eslin | 2011 | 26E01 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 21.0 |
| Fallan | 2011 | 26F01 | 0.0 | 14.5 | 2.0 | 0.0 | 0.0 | 16.5 |
| Fardrumman Stream | 2011 | 26F06 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| Feorish (Ballyfarnan) | 2011 | 26F02 | 0.0 | 26.5 | 0.0 | 0.0 | 0.0 | 26.5 |
| Feorish (Tarmonbarry) | 2011 | 26F03 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 10.0 |
| Francis | 2011 | 26F05 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 14.0 |
| Gaine | 2011 | 26G01 | 0.0 | 0.0 | 0.0 | 9.5 | 0.0 | 9.5 |
| Glore (Westmeath) | 2011 | 26G02 | 7.3 | 1.0 | 1.4 | 2.3 | 0.0 | 12.0 |
| Hind | 2011 | 26H01 | 0.0 | 0.0 | 3.5 | 7.0 | 0.0 | 10.5 |
| Inny | 2011 | 26I01 | 11.2 | 48.1 | 15.3 | 7.0 | 0.0 | 81.5 |
| Island | 2011 | 26I03 | 9.5 | 9.5 | 0.0 | 0.0 | 0.0 | 19.0 |

Hydrometric Area 26 (2011)

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|---|-----------|-------|--------------|--------------|--------------|--------------|------------|---------------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Jiggy (Hind) | 2011/12 | 26J01 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 |
| Kiltaclare Stream | 2011 | 26K06 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Killadiskert Stream | 2011 | 26K16 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Killeglan | 2011 | 26K04 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Killian | 2011 | 26K01 | 11.5 | 3.6 | 0.0 | 0.0 | 0.0 | 15.0 |
| Killukin | 2011 | 26K02 | 0.0 | 2.7 | 5.4 | 1.0 | 0.0 | 9.0 |
| Kilmacricard | 2011 | 26K17 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Kilmastranny | 2011 | 26K03 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| Kinard | 2011 | 26K07 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 6.0 |
| Laurencetown Stream | 2011/12 | 26L07 | 0.0 | 0.0 | 0.0 | 2.6 | 3.9 | 6.5 |
| Lenamore Stream | 2011 | 26L06 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| Lisdaly Stream | 2011 | 26L02 | 0.0 | 0.0 | 9.0 | 0.0 | 0.0 | 9.0 |
| Lissaphobble | 2011 | 26L04 | 0.0 | 0.0 | 5.6 | 3.4 | 0.0 | 9.0 |
| Lissydaly Stream | 2011 | 26L10 | 0.0 | 15.0 | 0.0 | 0.0 | 0.0 | 15.0 |
| Lung | 2011 | 26L03 | 8.1 | 12.9 | 0.0 | 0.0 | 0.0 | 21.0 |
| Mantua Stream | 2011 | 26M13 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Mihanboy | 2011 | 26M04 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Mountain (Roscommon) | 2011 | 26M03 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| Mountnugent | 2011 | 26M02 | 0.0 | 4.0 | 7.0 | 6.1 | 0.0 | 17.0 |
| Mullenmeehan Stream | 2011 | 26M12 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Owengar (Leitrim) | 2011 | 26O02 | 0.0 | 3.9 | 1.6 | 2.5 | 0.0 | 8.0 |
| Owenmore (Glenglevlin) | 2011 | 26O03 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Owennaforeesha | 2011 | 26O04 | 0.0 | 6.8 | 0.0 | 0.2 | 0.0 | 7.0 |
| Owennayle | 2011 | 26O05 | 0.0 | 3.5 | 5.5 | 0.0 | 0.0 | 9.0 |
| Owenur | 2011 | 26O06 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 16.5 |
| Rath | 2011 | 26R01 | 0.0 | 11.8 | 2.2 | 0.0 | 0.0 | 14.0 |
| Relagh | 2011 | 26R05 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| Rhine | 2011 | 26R04 | 0.0 | 5.0 | 2.0 | 1.5 | 0.0 | 8.5 |
| Rinn | 2011 | 26R02 | 0.0 | 5.6 | 4.4 | 3.5 | 0.0 | 13.5 |
| Rocksavage | 2011 | 26R07 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 |
| Scramoge | 2011 | 26S01 | 0.0 | 14.6 | 3.1 | 2.8 | 0.0 | 20.5 |
| Shad Lough Stream | 2011 | 26S13 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Shannon (Upper) | 2011 | 26S02 | 28.4 | 22.1 | 40.2 | 12.9 | 0.0 | 103.5 |
| Shiven (South) | 2011 | 26S03 | 6.6 | 14.3 | 5.1 | 2.5 | 0.0 | 28.5 |
| Smaghraan | 2011 | 26S04 | 0.0 | 9.0 | 3.0 | 0.0 | 0.0 | 12.0 |
| Springfield | 2011 | 26S05 | 5.3 | 4.7 | 0.0 | 0.0 | 0.0 | 10.0 |
| Strokestown | 2011 | 26S08 | 0.0 | 2.0 | 1.5 | 2.5 | 0.0 | 6.0 |
| Suck | 2011 | 26S07 | 51.9 | 46.3 | 17.8 | 0.0 | 0.0 | 116.0 |
| Termon Stream | 2011 | 26T03 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 |
| Yellow (Ballinaglera) | 2011 | 26Y01 | 4.5 | 7.5 | 0.0 | 0.0 | 0.0 | 12.0 |
| Yellow (Castlepollard) | 2011 | 26Y02 | 0.0 | 5.7 | 3.7 | 1.6 | 0.0 | 11.0 |
| Total Length (km) surveyed this cycle | | | 179.4 | 641.7 | 204.0 | 109.6 | 6.9 | 1141.5 |
| Adjustments (km) (See below)* | | | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Current Length (km) Adjusted | | | 179.4 | 641.7 | 204.0 | 108.6 | 6.9 | 1140.5 |
| Percentages | | | 15.7 | 56.3 | 17.9 | 9.5 | 0.6 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | 2010 -'12 | | | 821.1 | 204.0 | 108.6 | 6.9 | 1140.5 |
| Percentages | | | | 72.0 | 17.9 | 9.5 | 0.6 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | 2007-'09 | | 158.5 | 471.0 | 351.5 | 131.6 | 27.9 | 1140.5 |
| Percentages | | | 13.9 | 41.3 | 30.8 | 11.5 | 2.4 | 100.0 |
| Changes since Previous Survey (km) | | | 20.9 | 170.7 | -147.5 | -23.0 | -21.0 | 0.0 |

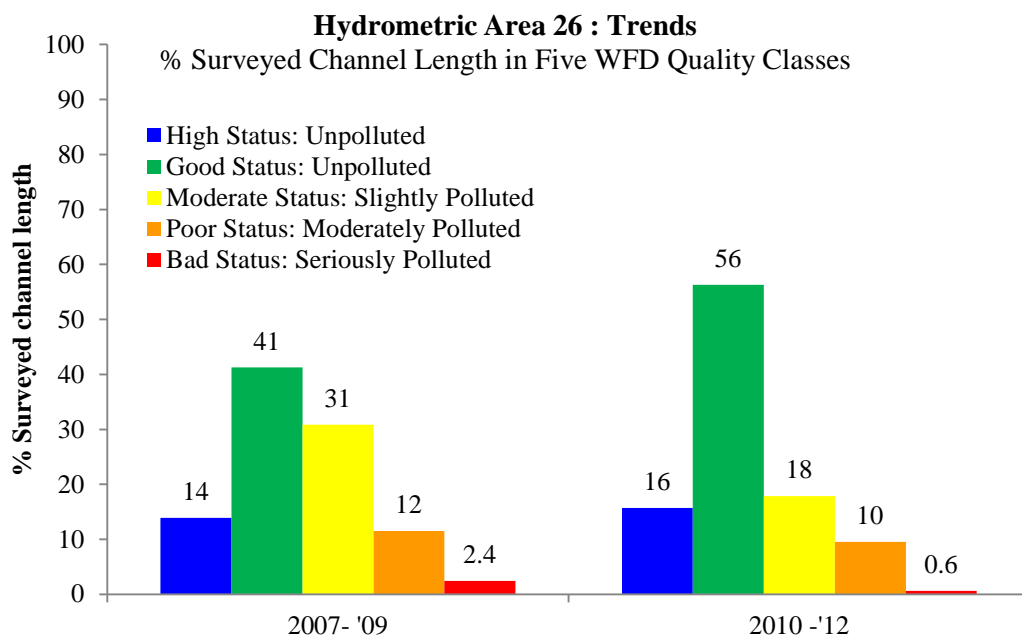
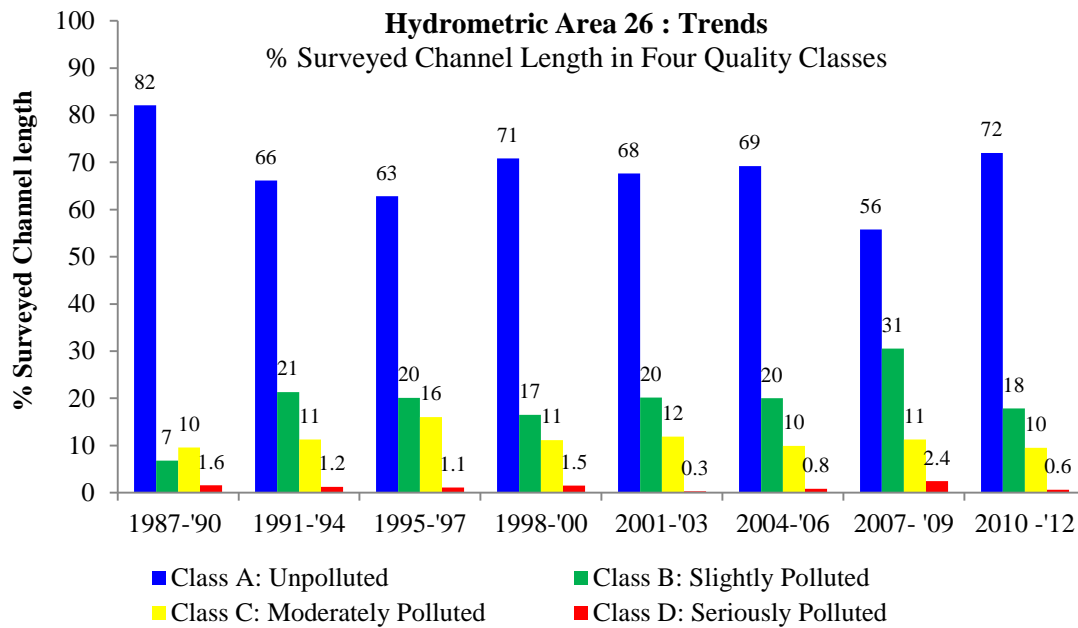
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-): Mihanboy (26M04) was added back into the programme in 2011.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Total number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 17 | 25 |
| Good | 83 | 111 |
| Moderate | 45 | 36 |
| Poor | 35 | 36 |
| Bad | 5 | 2 |
| Total number of sites surveyed | 185 | 210 |
| Total number of sites at unsatisfactory status | 85 | 74 |



HYDROMETRIC AREA 27 (Shannon Estuary North: Balance of Survey)

Partial Survey in 2010, Balance of Survey in 2011

| | |
|-----------------------------|-------|
| BALLYMACOODA LOUGH STREAM * | 27B01 |
| BALLYNACALLY | 27B04 |
| BROADFORD | 27B02 |
| CARROWNANELLY | 27C07 |
| CLAREEN (FERGUS) | 27C06 |
| CLOON (CLARE) | 27C02 |
| CLOVERHILL STREAM | 27C10 |
| CRATLOE | 27C08 |
| CROMPAUN (EAST) | 27C09 |
| CROMPAUN (WEST) | 27C05 |
| CULLAUN | 27C14 |
| DOONAH | 27D01 |
| DRUMINSHIN | 27D02 |
| GOURNA | 27G02 |
| INCH (CLARE) | 27I01 |
| KILBANE STREAM * | 27K05 |
| KILCARROL STREAM * | 27K06 |
| LISSYCASEY STREAM * | 27L04 |
| MOYARTA | 27M01 |
| O'CALLAGHANSMILLS | 27O03 |
| OWENOGARNEY | 27O01 |
| OWENSLIEVE | 27O02 |
| SHALLEE | 27S01 |
| TARMON LOUGH STREAM * | 27T02 |
| WOOD | 27W01 |

* BALLYMACOODA LOUGH STREAM Formerly Ballymacooda Lough Branch of Clareen (Fergus)

* KILBANE STREAM North Branch 0300 just u/s Confl with S Branch .

* KILCARROL STREAM Previously reported as part of the Wood 27W01

* LISSYCASEY STREAM Previously reported as part of the Owenslieve 27O02

* TARMON LOUGH STREAM Previously reported as part of the Crompaun (West) 27C05

River and Code : **BALLYMACOODA LOUGH STREAM** **27/B/01**
 Tributary of : 27C06 CLAREEN (FERGUS) OS Catchment No: 17
 OS Grid Ref of Confluence:
 Date(s) Surveyed: 2/9/2011

Formerly Ballymacooda Lough Branch of Clareen (Fergus)

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1991 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 3 | 3 | - | - | - | - | - |
| 0300 | 3 | 3 | - | - | - | - | - |
| 0500 | 4 | 2-3 | 4 | 3-4 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological condition was recorded on the Ballymacooda Stream in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0100 | Bridge d/s Ballymacooda L | 127804 | 172168 | 0 | CE |
| 0300 | Bridge N.E. of Darragh | 129658 | 172173 | 0 | CE |
| 0500 | Br at Ballyvullaghan | 130699 | 170928 | 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 | 12 | 2 | 0 | 100 | 99 | 0 | 0 | 0 | 1 | 0 | 0 |

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

River and Code : **BALLYNACALLY**

27/B/04

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 295 638

Date(s) Surveyed: 5/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 4 | 4 | 4-5 | 4 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological condition was recorded in the Ballynacally in 2011.

| 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: 24/8/2011, 25/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0500 | 4 | 5 | 2-3 | 3 | 1-2 | 2 | 3-4 | 3 |
| 0600 | 4-5 | 4 | 4 | 4 | 3-4 | 4-5 | 4-5 | 4 |
| 0700 | 4-5 | 5 | - | - | - | - | - | - |
| 0800 | 5 | 4 | 4 | 4 | 4 | 4-5 | 4-5 | 4-5 |

Assessment: Although satisfactory ecological conditions have been maintained in the lower reach of the Broadford (stations 0600 and 0800), there has been a decline from high to good at station 0600, and further pollution recorded at Scott's Bridge (0500).

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------|------------|-------------|----------------------|-------------|
| 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 : **CARROWNANELLY**

27/C/07

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 357 717

Date(s) Surveyed: 26/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0300 | - | - | - | 3 | 3-4 | 3-4 | - | - |
| 0400 | 4 | 2-3 | 3 | 4 | 3 | 4 | 3-4* | 3-4 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Carrownanelly in 2011.

| 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 : **CLAREEN (FERGUS)**

27/C/06

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 323 685

Date(s) Surveyed: 2/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1988 | 1991 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0540 | - | - | - | 4 | 4 | 4 | 3-4 | - | - |
| 0600 | 4 | 4 | 3 | 3 | 3 | 3 | - | 3B | 3 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Clareen in 2011. There is some fairly intensive agriculture in the catchment upstream of the monitoring point and this is seen as the main pressure impacting on the water quality here.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0540 | Br just S Killerk | 129344 | 170141 | 57 | CE |
| 0600 | Clareen Bridge | 131222 | 169578 | 57 | CE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0540 | 33 | 5 | 0 | 100 | 59 | 0 | 20 | 0 | 18 | 0 | 3 |
| 0600 | 3 | 23 | 0 | 100 | 82 | 0 | 5 | 0 | 9 | 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 : **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: 5/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0100 | - | - | 4 | 4-5 | 4 | 4 | 4 | - | - |
| 0200 | 4 | 4 | 3 | 4-5 | 4 | 3-4 | 4 | 4 | 4 |
| 0400 | 4 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 |
| 0800 | - | 4 | - | - | - | - | - | - | - |
| 0900 | - | 4 | - | - | - | - | - | - | - |

Assessment: Satisfactory ecological conditions have been maintained in the Cloon in 2011.

| 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 : **CLOVERHILL STREAM**

27/C/10

Tributary of : 27O01 OWENOGARNEY

OS Catchment No: 155

OS Grid Ref of Confluence: R 456 610

Date(s) Surveyed: 26/8/2011

| Station Nos. | 1988 | 1991 | 1998 | 2001 | Biological Quality Ratings (Q Values) | | |
|--------------|------|------|------|------|---------------------------------------|------|------|
| | | | | | 2005 | 2007 | 2011 |
| 0200 | 3-4 | 3 | - | - | - | - | - |
| 0400 | 3 | - | - | - | - | - | - |
| 0600 | 3-4 | 2-3 | 3 | 3 | 3 | 3 | 2-3 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Cloverhill Stream in 2011, with a dominance of pollution tolerant taxa recorded.

| 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 : **CRATLOE****27/C/08**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 517 585

Date(s) Surveyed: 25/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1991 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4-5 | 5 | - | - | - | - | - |
| 0300 | 4-5 | 3-4 | 4-5 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions have been maintained on the Cratloe in 2011.

| 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: 25/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1991 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0300 | 4-5 | - | 4-5 | 4 | 4-5 | - | - |
| 0400 | - | 5 | - | - | - | - | - |
| 0500 | 5 | - | - | - | - | - | - |
| 0600 | 4-5 | 4-5 | 4-5 | 3-4 | 4 | 4 | 3-4 |
| 0800 | 3 | - | - | - | - | - | - |

Assessment: A disappointing decline to unsatisfactory ecological condition was recorded in the Crompaun (East) in 2011, with a paucity of sensitive macroinvertebrate taxa noted.

| 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: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0500 | 4 | 3 | - | - | - | - | - | - |
| 0700 | 4 | 4 | - | - | - | - | - | - |
| 0900 | - | 4 | - | 3 | 3 | 3 | - | - |
| 1000 | - | - | 3-4 | 3 | 3 | 4 | 3-4* | 3-4 |
| 1100 | 4 | 3-4 | - | - | - | - | - | - |
| 1200 | - | - | 3 | 4 | 4 | 4 | 4 | 4 |
| 1300 | 3-4 | 3-4 | - | - | - | - | - | - |

Assessment: The upper site (1000) of the Crompaun (West) remains in unsatisfactory ecological condition, while good conditions prevail downstream (1200) in 2011. The upper catchment land use is a mix of pasture and forestry.

| 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 | 0 | 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 : **CULLAUN**

27/C/14

Tributary of : 27R01 RINE

OS Catchment No: 155

OS Grid Ref of Confluence: R 446 752

Date(s) Surveyed: 26/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1996 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0100 | 3-4 | 3/0 | 4 | 3-4 | 3-4 | 3-4 | 3-4 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Cullaun in 2011, with a dominance of pollution tolerant taxa recorded. The river is strongly influenced by the lake which has been quite eutrophic in nature.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0100 | Cullaun Bridge | 147755 | 175526 | 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 | 30 | 14 | 0 | 100 | 72 | 2 | 5 | 3 | 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 : **DOONAHA****27/D/01**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 893 533

Date(s) Surveyed: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1985 | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0010 | - | 3 | 3 | 2 | 2-3 | 2 | 2-3 | 3 | 3 | 3 |
| 0050 | 3-4 | 2-3 | 3 | 1 | 3 | 3 | 3 | 3 | - | - |
| 0100 | 4 | 2 | 3 | 1 | 3 | 3 | 3/0 | 3 | 3 | 3 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Doonaha in 2011, with a dominance of pollution tolerant taxa recorded at both sites surveyed.

| 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**

27/D/02

Tributary of : Ballycullinan Lough

OS Catchment No: 158

OS Grid Ref of Confluence: R 284 857

Date(s) Surveyed: 2/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0500 | 3 | 4 | 4 | 3-4 | 4 | 4 | 3-4 | 3-4 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Druminshin in 2011. Cattle access is an issue here.

| 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 : **GOURNA****27/G/02**

Tributary of : 27O01 OWENOGARNEY

OS Catchment No: 155

OS Grid Ref of Confluence: R 481 645

Date(s) Surveyed: 25/8/2011, 26/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1991 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 4-5 | 5 | 4-5 | 4 | 5 | - | 4 |
| 0400 | 5 | 4-5 | - | - | - | - | - |
| 0600 | - | 5 | 5 | 4 | 4-5 | 4* | 4-5 |

Assessment: Satisfactory ecological conditions were recorded at both sites sampled on the Gourná in 2011, a situation unchanged in over twenty years of surveying this Owenogarney tributary.

| 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 : **INCH (CLARE)**

27/I/01

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 333 782

Date(s) Surveyed: 2/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1988 | 1991 | 1997 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0200 | 4-5 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | 4 |
| 0400 | 4 | 4 | 4 | 5 | 4 | 4-5 | 4-5 | - | 4 |
| 0600 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | 4 | 3-4 |
| 0800 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 2-3 |

Assessment: Urban pressures continue to impact the lower reach of the Inch (Clare) in 2011. While good ecological condition persists in the upper reach (0200 and 0400), the lower sites (0600 and 0800) are moderately polluted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 0200 | Kilmaley Bridge | 125256 | 174566 | 57 | CE |
| 0400 | Bridge WSW Rathkerry | 127372 | 173823 | 57 | CE |
| 0600 | Inch Bridge | 130180 | 175368 | 57 | CE |
| 0800 | Claureen Bridge | 132829 | 178109 | 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 | 61 | 27 | 0 | 100 | 28 | 13 | 14 | 0 | 18 | 0 | 27 |
| 0400 | 39 | 41 | 0 | 100 | 39 | 10 | 11 | 0 | 18 | 0 | 22 |
| 0600 | 16 | 47 | 0 | 100 | 44 | 9 | 10 | 0 | 18 | 0 | 19 |
| 0800 | 6 | 55 | 0 | 100 | 49 | 8 | 8 | 3 | 16 | 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 : **KILBANE STREAM****27/K/05**

Tributary of : Broadford

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 24/8/2011

North Branch 0300 just u/s Confl with S Branch.

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1996 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0300 | 5 | 5 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: Highly satisfactory ecological conditions were recorded on the Kilbane Stream in 2011, a situation unchanged in over twenty years of surveying this Broadford River tributary. Previously reported as part of the Broadford River.

| 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 |

River and Code : **KILCARROL STREAM****27/K/06**

Tributary of : 27W01 WOOD

OS Catchment No: 158

OS Grid Ref of Confluence:

Date(s) Surveyed: 6/9/2011

Previously reported as part of the Wood 27W01

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0020 | 3 | 2-3 | - | - | - | - | - | - |
| 0025 | - | - | 2 | 2-3 | 3 | 3 | 3 | 3 |
| 0030 | 3 | 1-2 | - | - | - | - | - | - |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Kilcarrol Stream in 2011, with a paucity of sensitive macroinvertebrate taxa noted.

| 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 : **LISSYCASEY STREAM****27/L/04**

Tributary of : 27O02 OWENSLIEVE

OS Catchment No: 158

OS Grid Ref of Confluence: R 222 663

Date(s) Surveyed: 5/9/2011

Previously reported as part of the Owenslieve 27O02

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2004 | 2007 | 2011 |
| 0300 | - | - | 3-4 | 4 | 4 | 3 | 3 | 3 |
| 0400 | 3-4 | 3-4 | - | - | - | - | - | - |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Lissycasey Stream in 2011, with a paucity of sensitive macroinvertebrate taxa noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--|------------|-------------|----------------------|-------------|
| 0300 | Br NW Gortygeeheen | 120971 | 165743 | 57 | CE |
| 0400 | Just u/s Main Channel SW Coolderror Br | 122575 | 166410 | 0 | CE |

River and Code : **MOYARTA****27/M/01**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 844 517

Date(s) Surveyed: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 1-2 | 1 | 2-3 | 2-3 | 2-3 | 3 | - | - |
| 0150 | 1-2 | 2 | 2-3 | 2-3 | 2-3 | 3 | 3 | 2-3 |

Assessment: A further decline in unsatisfactory ecological conditions was recorded in the Moyarta in 2011. Agricultural pressures are causing eutrophication in the stream.

| 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: 25/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 1998 | 2001 | 2005 | 2011 |
| 0100 | 4 | 4 | - | - | - | - | - |
| 0300 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded in O'Callaghansmills Stream in 2011, a situation unchanged in over twenty years of surveying this river.

| 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: 24/8/2011, 25/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|
| | 1986 | 1988 | 1991 | 1997 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | - | 5 | 5 | - | 5 | 5 | 5 | 4-5 | 5 |
| 0200 | - | 5 | 5 | 5 | - | - | - | - | - |
| 0300 | - | 5 | 5 | 5 | 4 | 4 | 4-5 | 4-5 | 4-5 |
| 0400 | - | 4 | 4 | 4 | 4 | 4 | 4 | - | - |
| 0500 | - | 4 | 4-5 | - | - | - | - | - | - |
| 0600 | 4 | 4 | 4 | - | - | - | - | 4-5 | 4-5 |
| 0700 | - | 4 | 4 | 4 | 4 | 4 | 4-5 | - | 4-5 |
| 0800 | - | - | 4 | - | - | - | - | - | - |
| 0900 | 3-4 | 4 | - | 4 | 4 | 3 | 3-4 | 4 | 4 |
| 1000 | - | 3-4 | 3-4 | 4 | - | - | - | - | - |
| 1100 | 4 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded at all sites sampled on the Owenogarney in 2011. Highly satisfactory conditions was noted in the upper reaches (0100, 0300, 0600 and 0700) while good quality was noted downstream (0900, 1100).

| 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 : **OWENSLIEVE**

27/O/02

Tributary of : Sea - Fergus Estuary

OS Catchment No: 158

OS Grid Ref of Confluence: R 285 657

Date(s) Surveyed: 5/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2004 | 2007 | 2011 |
| 0600 | 4-5 | 4 | 4 | 4-5 | 4 | 4-5 | - | 4-5 |
| 0700 | 4 | - | - | - | - | - | - | - |
| 0800 | - | 4 | 4 | 4 | 4 | - | - | - |
| 0900 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions have been maintained at both sites sampled on the Owenslieve in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------------------|------------|-------------|----------------------|-------------|
| 0600 | Br u/s Coolderron Bridge (main road) | 122541 | 167134 | 57 | CE |
| 0700 | Coolderron Bridge | 0 | 0 | 0 | CE |
| 0800 | Br d/s Coolderron Br | 122841 | 166705 | 57 | CE |
| 0900 | Cloondagad Br | 127191 | 165753 | 57 | CE |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0600 | 72 | 8 | 0 | 100 | 14 | 7 | 36 | 0 | 0 | 0 | 43 |
| 0800 | 61 | 8 | 0 | 100 | 15 | 7 | 35 | 0 | 0 | 0 | 42 |
| 0900 | 12 | 48 | 0 | 100 | 56 | 2 | 23 | 0 | 0 | 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 : **SHALLEE**

27/S/01

Tributary of : 27F01 FERGUS

OS Catchment No: 158

OS Grid Ref of Confluence: R 338 815

Date(s) Surveyed: 2/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1985 | 1988 | 1991 | 1997 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0090 | - | - | 1-2 | - | - | - | - | - | - | - |
| 0100 | 3 | 3 | 1-2 | 3-4 | 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 | 3 | 3-4 |

Assessment: Satisfactory ecological conditions have been maintained on the upper Shallee (0100) in 2011, while despite a slight improvement in the lower site (0500), moderate pollution prevails.

| 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 : **TARMON LOUGH STREAM**

27/T/02

Tributary of : 27C05 CROMPAUN (WEST)

OS Catchment No: 158

OS Grid Ref of Confluence:

Date(s) Surveyed: 6/9/2011

Previously reported as part of the Crompaun (West) 27C05

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0200 | 3-4 | 3-4 | - | - | - | - | - | - |
| 0300 | - | - | 4 | 3-4 | 3-4 | 4 | 3 | 4 |
| 0400 | 3 | 3 | - | - | - | - | - | - |

Assessment: A welcome improvement to satisfactory ecological condition was recorded on the Tarmon Lough Stream in 2011.

| 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: 6/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1975 | 1979 | 1980 | 1985 | 1988 | 1991 | 1997 | 2000 | 2001 | 2005 | 2007 | 2011 |
| 0080 | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | 4 | - | - |
| 0100 | - | 4 | 4-5 | 3 | 3-4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0200 | 1 | 1 | 4 | 3-4 | 3 | 3-4 | 3 | 3 | 4 | 3-4 | 4 | 3 | 4 |

Assessment: While satisfactory ecological conditions were recorded at the downstream station (0200) on the Wood in 2011, the upper reach (0100) remains moderately polluted.

| 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.

SHIRBD: HYDROMETRIC AREA NO. 27

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|------------------------------|------|-------|------|------|----------|------|-----|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Ballymacooda L. Stream | 2011 | 27B01 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 |
| Ballynacally | 2011 | 27B04 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Broadford | 2011 | 27B02 | 2.7 | 4.4 | 0.0 | 1.5 | 0.0 | 8.5 |
| Carrownanelly | 2011 | 27C07 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 5.5 |
| Castlelodge | 2010 | 27C01 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 |
| Clareen (Fergus) | 2011 | 27C06 | 0.0 | 0.0 | 0.0 | 5.5 | 0.0 | 5.5 |
| Cloon (Clare) | 2011 | 27C02 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 13.5 |
| Cloondanagh L. Str | 2010 | 27C13 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Clooneen (Clare) | 2010 | 27C03 | 0.0 | 2.6 | 2.5 | 0.0 | 0.0 | 5.0 |
| Cloverhill Stream | 2011 | 27C10 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 |
| Craggaunboy | 2010 | 27C04 | 0.0 | 3.5 | 3.0 | 0.0 | 0.0 | 6.5 |
| Cratloe | 2011 | 27C08 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 |
| Crompaum (East) | 2011 | 27C09 | 0.0 | 4.0 | 1.0 | 0.0 | 0.0 | 5.0 |
| Crompaum (West) | 2011 | 27C05 | 0.0 | 2.5 | 5.0 | 0.0 | 0.0 | 7.5 |
| Cullaun | 2011 | 27C14 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| Doonaha | 2011 | 27D01 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 |
| Druminshin | 2011 | 27D02 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 2.5 |
| Fergus | 2010 | 27F01 | 0.0 | 22.9 | 5.9 | 6.3 | 0.0 | 35.0 |
| Gourna | 2011 | 27G02 | 3.0 | 2.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Hell | 2010 | 27H01 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 6.5 |
| Inch (Clare) | 2011 | 27I01 | 0.0 | 15.0 | 4.5 | 0.5 | 0.0 | 20.0 |
| Kilbane Stream | 2011 | 27K05 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| Kilcarrol Stream | 2011 | 27K06 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| Kilmore North Str. | 2010 | 27K04 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 |
| Liskenny | 2010 | 27L01 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 |
| Lissycasey Stream | 2011 | 27L04 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| Mill Brook | 2010 | 27M03 | 0.0 | 9.5 | 0.0 | 0.0 | 0.0 | 9.5 |
| Moyarta | 2011 | 27M01 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Moyree | 2010 | 27M02 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 16.0 |
| O'Callaghanmills | 2011 | 27O03 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Owenogarney | 2011 | 27O01 | 19.5 | 5.5 | 0.0 | 0.0 | 0.0 | 25.0 |
| Owenslieve | 2011 | 27O02 | 9.5 | 2.0 | 0.0 | 0.0 | 0.0 | 11.5 |
| Rine | 2010 | 27R01 | 9.0 | 19.0 | 2.5 | 0.0 | 0.0 | 30.5 |
| Shallee | 2011 | 27S01 | 0.0 | 9.0 | 2.0 | 0.0 | 0.0 | 11.0 |
| Spancelhill | 2010 | 27S03 | 0.0 | 4.5 | 0.0 | 2.0 | 0.0 | 6.5 |
| Tarmon Lough Stream | 2011 | 27T02 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Wood | 2011 | 27W01 | 0.0 | 0.7 | 1.2 | 1.7 | 0.0 | 3.5 |

Hydrometric Area 27 (2011)

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|---|----------------|-------------|-------------|--------------|-----------------|-------------|------------|--------------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Total Length (km) surveyed this cycle | | | 46.2 | 158.4 | 36.5 | 55.5 | 0.0 | 296.5 |
| Adjustments (km) (See below)* | | | 0.0 | 4.0 | 0.0 | -1.5 | 0.0 | 2.5 |
| Current Length (km) Adjusted (km) | 2010/11 | | 46.2 | 154.4 | 36.5 | 57.0 | 0.0 | 294.0 |
| Percentages | | | 15.7 | 52.5 | 12.4 | 19.4 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total |
| Baseline : Current Adjusted Status (km) | 2010-'12 | | | 200.6 | 36.5 | 57.0 | 0.0 | 294.0 |
| Percentages | | | | 68.2 | 12.4 | 19.4 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | | | 70.8 | 128.3 | 24.5 | 70.5 | 0.0 | 294.0 |
| Percentages | | | 24.1 | 43.6 | 8.3 | 24.0 | 0.0 | 100.0 |
| Changes since Previous Survey (km) | | | -24.6 | 26.2 | 12.0 | -13.5 | 0.0 | 0.0 |

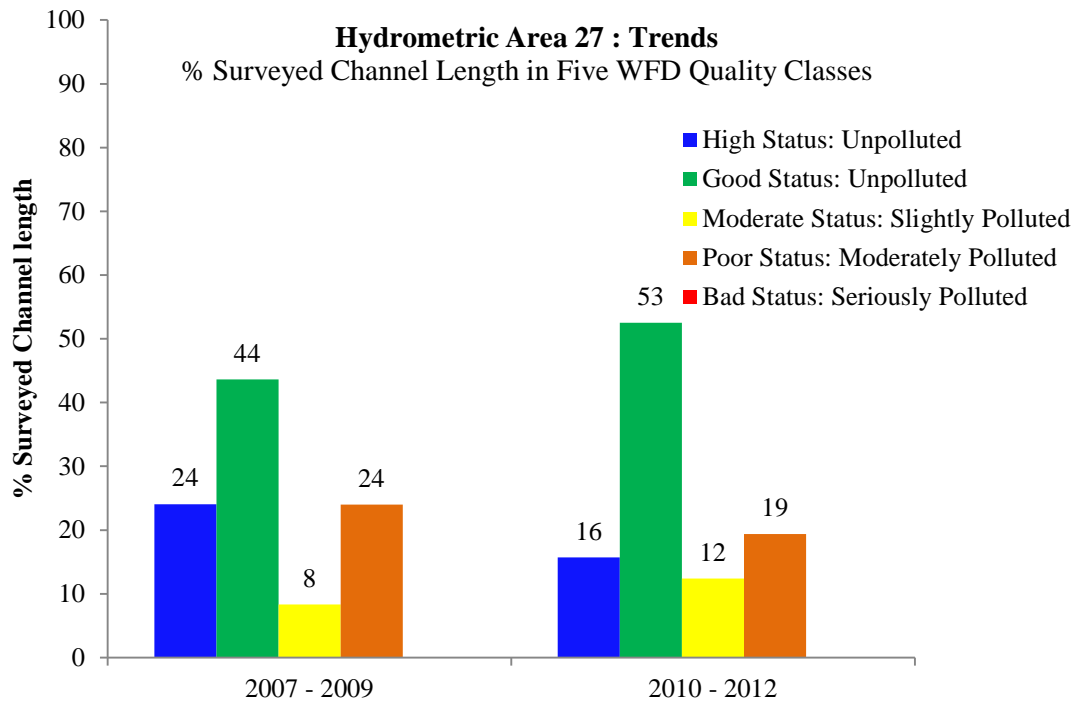
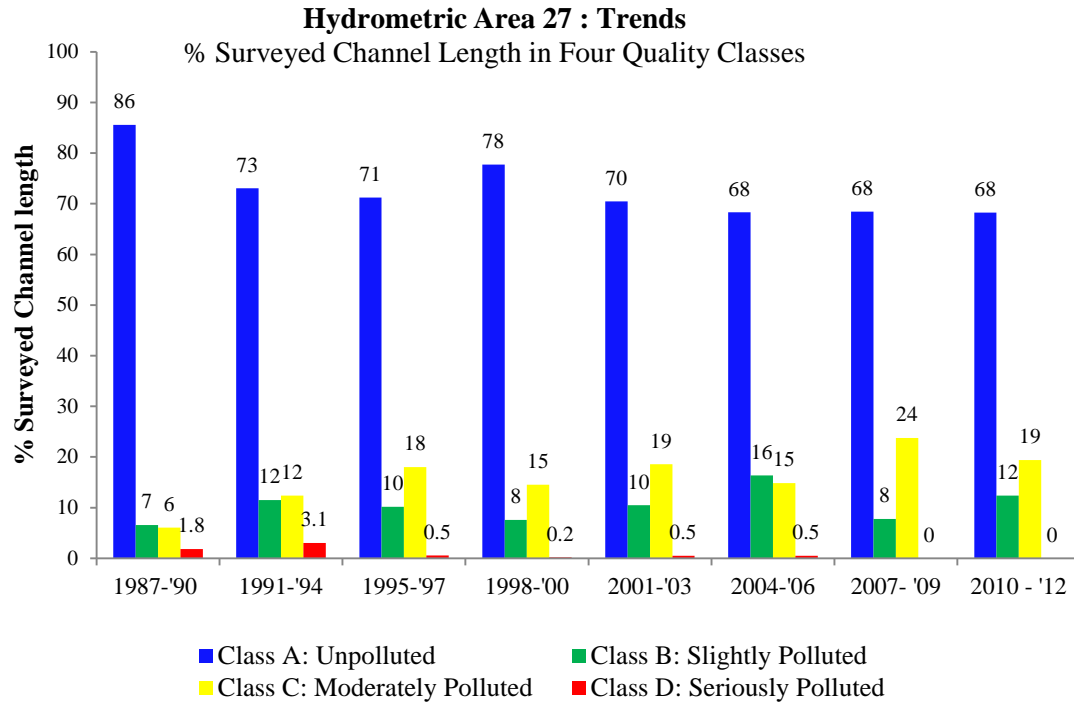
* Adjustments : Deduct the 'extras' (+), add the 'shortages' (-): Laghtyshaugnessy Lough Stream (27L03) was not surveyed while O'Callaghansmill stream (27O03) was added back into the programme in 2011.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|-----------------|-----------------|
| High | 7 | 9 |
| Good | 24 | 33 |
| Moderate | 8 | 12 |
| Poor | 20 | 19 |
| Bad | 0 | 0 |
| Total number of sites surveyed | 59 | 73 |
| Total number of sites at unsatisfactory status | 28 | 31 |



HYDROMETRIC AREA 33 (Blacksod – Broadhaven: Partial Survey)

Partial Survey Only, Balance of Survey in 2012

| | |
|-------------------------|-------|
| BALLINGLEN | 33B01 |
| BELLAGARVAUN | 33B04 |
| BUNANIOO | 33B09 |
| CARTRON | 33C02 |
| DOOEGA | 33D01 |
| DOOLOUGH STREAM | 33D02 |
| GLENCULLIN (NORTH MAYO) | 33G02 |
| GLENCULLIN (WEST MAYO) | 33G03 |
| KEERGLEN | 33K01 |
| 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 : **BALLINGLEN**

33/B/01

Tributary of :

OS Catchment No: 102

OS Grid Ref of Confluence: G 103 393

Date(s) Surveyed: 22/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | 5 | 5 | - | 4-5 | 4-5 | 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 | 4 | 4 |
| 0210 | - | - | - | - | - | - | 3 | - | - | - |

Assessment: Satisfactory ecological conditions have been maintained at both sites sampled on the Ballinglen in 2011.

| 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 : **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: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 3-4 | 3-4 | 3-4 | 3 | 3 | 3 | 4 | 4 |

Assessment: The improvement to satisfactory ecological condition noted on the Bellagarvaun during the last survey was maintained in 2011.

| 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 : **BUNANIOO**

33/B/09

Tributary of : Sea - Achill Sound

OS Catchment No: i5

OS Grid Ref of Confluence: L 735 947

Date(s) Surveyed: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0100 | 5 | 4 | 4-5 | 4 | 4 | 3-4 | 4-5 | 4 |

Assessment: Although satisfactory ecological conditions have been maintained on the Bunanioo in 2011, a slight decline from high to good condition was noted in this Achill Sound tributary.

| 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: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1982 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4-5 | 4-5 | 4 | 4 | 3-4 | 3 | 3 | 3-4 | 4 | 4 |

Assessment: Satisfactory ecological conditions have been maintained in the Cartron in 2011.

| 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 : **DOOEGA**

33/D/01

Tributary of : Sea - Pollbaun Point

OS Catchment No: i5

OS Grid Ref of Confluence: L 671 987

Date(s) Surveyed: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0200 | 4 | 3-4 | 4 | 4 | 4 | 4 | 3 | 4 |

Assessment: A welcome return to satisfactory ecological condition was recorded on the Dooega in 2011.

| 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: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2003 | 2005 | 2008 | 2011 |
| 0100 | 3-4 | 3 | 3 | 3-4 | 3-4 | 3-4 | 3 | 2-3 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Doolough Stream in 2011. 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 : **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: 22/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 3-4 | 4 | 4 | 4 |
| 0200 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | 4-5 |

Assessment: Satisfactory ecological conditions were recorded at both sites on the Glencullin (North Mayo) in 2011, a situation unchanged in thirty years of surveying this river.

| 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: 15/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0025 | - | - | - | - | - | 3-4 | 4 | 4 |
| 0100 | - | - | - | - | 4 | 4 | 4 | 4 |
| 0200 | 4-5 | 5 | 5 | 4-5 | - | - | - | - |

Assessment: Satisfactory ecological conditions have been maintained in the Glencullin (West Mayo) in 2011.

| 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 : **KEERGLEN**

33/K/01

Tributary of : 33B01 BALLINGLEN

OS Catchment No: 102

OS Grid Ref of Confluence: G 105 338

Date(s) Surveyed: 22/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 5 | 5 | 4-5 | 5 | 5 | 5 | 4-5 | 4-5 |

Assessment: Highly satisfactory ecological conditions were in the Keerglen in 2011, a situation unchanged in over twenty years of surveying this Ballinglen tributary.

| 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 : **MUINGNAKEE**

33/M/04

Tributary of : GLENCULLIN (WEST MAYO)

OS Catchment No:

OS Grid Ref of Confluence: F 86700 27

Date(s) Surveyed: 15/7/2011

| | | Biological Quality Ratings (Q Values) |
|--------------|------|---------------------------------------|
| Station Nos. | 2005 | 2011 |
| 0100 | 4-5 | 4 |

Assessment: Satisfactory ecological conditions have been maintained in the Muingnakee in 2011, although a slight decline from high to good condition was noted.

| 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: 8/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4-5 | 4 | 4 | - | - | - | - | - | - | - |
| 0200 | 4 | 4-5 | 4-5 | 4 | 4 | 4 | 3-4 | 3-4 | 4 | 4 |

Assessment: Satisfactory ecological conditions have been maintained in the Munhin in 2011.

| 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: 7/7/2011, 15/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | 5 | 4 | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4-5 |
| 0020 | - | 5 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4 | 4 | 4 |
| 0030 | - | 5 | 4-5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0050 | 4-5 | 5 | 4-5 | - | - | - | - | - | - | - |
| 0090 | - | - | - | - | - | - | - | - | - | 4-5 |
| 0100 | 4 | 5 | 4 | 4 | 4 | 4-5 | 4 | 4 | 4 | - |

Assessment: Satisfactory ecological conditions were recorded at all four sites sampled on the Owenduff in 2011, a situation unchanged in thirty years of surveying this river.

| 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 |
| 0090 | 0.5 km u/s Srahnamanragh Bridge | 80635 | 314750 | 22 | |
| 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: 6/7/2011, 7/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1980 | 1981 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | - | 4-5 | 5 | 4-5 | 4 | 4-5 | 4 | 4 | 4-5 | 4 |
| 0090 | 5 | - | - | 4-5 | - | - | - | - | - | - | - |
| 0100 | 4 | - | 4-5 | 5 | - | - | - | - | - | - | - |
| 0250 | - | - | 4-5 | 4 | - | - | - | - | 4 | 4-5 | 4-5 |
| 0270 | - | - | - | 4 | 4 | 4-5 | 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 | 4 | 4 |
| 0301 | - | - | - | 3 | 2-3 | 4 | - | - | - | - | - |
| 0325 | - | - | - | - | - | - | - | - | - | 4 | 4-5 |
| 0400 | - | - | - | 5 | - | - | 4-5 | 4 | 4-5 | - | - |
| 0450 | - | - | - | 4 | - | - | - | - | - | - | - |
| 0500 | - | - | - | 4 | 4 | 4-5 | 4 | 4-5 | 4-5 | 4 | 4-5 |

Assessment: Satisfactory ecological conditions were recorded at all sites surveyed on the Owenmore in 2011.

| 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 |
| 0325 | D/s Bangor WWT plant. | 85334 | 322667 | 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: 6/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0150 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 |

Assessment: The Sheskin remained at high status for the macroinvertebrates. Siltation is still evident, however, and too much filamentous algae was noted; indicating some residual impact from the extensive peat workings (now closed).

| 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: 7/7/2011

Formerly S Branch of Owenduff

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0005 | 3-4 | 4 | 4 | 4 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions have been maintained in the Srahduggan in 2011.

| 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 |

Hydrometric Area 33 (2011)

River and Code : **TARSAGHAUNMORE**

33/T/01

Tributary of : 33O01 OWENDUFF (BLACKSOD)

OS Catchment No: 106

OS Grid Ref of Confluence: F 832 144

Date(s) Surveyed: 15/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | 4 |

Assessment: Good status. Significant growth of filamentous algae was noted, however, where sampled just upstream of the Owenduff River (q.v.).

| 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: Balance of Survey)

Partial Survey in 2010, Balance of Survey in 2011

| | |
|---------------------------|-------|
| BURREN STREAM (CLYDAGH) * | 34B13 |
| CARROWARD | 34C09 |
| CASTLEBAR | 34C01 |
| CLYDAGH (CASTLEBAR) | 34C05 |
| LOUGH MUCK STREAM | 34L05 |
| LOUGHNAMINOO STREAM | 34L04 |
| MANULLA | 34M01 |
| MEANDER | 34M05 |
| STRADE | 34S04 |

* BURREN STREAM (CLYDAGH) Previously reported as part of the Clydagh (Castlebar)
34C05

River and Code : **BURREN STREAM (CLYDAGH)****34/B/13**

Tributary of : 34C05 CLYDAGH (CASTLEBAR)

OS Catchment No: 110

OS Grid Ref of Confluence:

Date(s) Surveyed: 13/7/2011

Previously reported as part of the Clydagh (Castlebar) 34C05

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1995 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0015 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 5 | 4-5 |

Assessment: A slight decline from high to good ecological condition was recorded in the Burren Stream in 2011. Satisfactory ecological conditions have been recorded in this Clydagh tributary for over twenty years.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------|------------|-------------|----------------------|-------------|
| 0015 | Br W Derrylahan | 114531 | 297212 | 31 | MO |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0015 | 100 | 7 | 100 | 0 | 0 | 0 | 71 | 0 | 0 | 0 | 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 : **CARROWARD****34/C/09**

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: M 290 985

Date(s) Surveyed: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1995 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0300 | 4-5 | 4-5 | 4 | 4 | 4 | 4 | - | 3-4 |
| 0600 | 4-5 | 4-5 | - | - | - | - | - | - |
| 0700 | - | 3* | 4 | 4-5 | 4 | 4-5 | 4 | 4 |

Assessment: Satisfactory but signs of eutrophication are evident in this small tributary of the River Moy.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|---------------------------|------------|-------------|----------------------|-------------|
| 0300 | Bridge N.W. of Bohola | 130068 | 295648 | 31 | MO |
| 0600 | Bridge E. of Ardacarha | 130122 | 296864 | 0 | MO |
| 0700 | Br 0.5 km u/s Moy R confl | 128945 | 298316 | 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 | 32 | 5 | 0 | 100 | 0 | 4 | 24 | 0 | 72 | 0 | 0 |
| 0700 | 15 | 11 | 0 | 100 | 20 | 2 | 10 | 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 : **CASTLEBAR**

34/C/01

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: M 234 963

Date(s) Surveyed: 20/7/2011

Biological Quality Ratings (Q Values)

| Station Nos. | 1971 | 1973 | 1975 | 1977 | 1979 | 1980 | 1981 | 1983 | 1984 | 1986 | 1989 | 1993 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0010 | - | - | - | - | - | 4-5 | - | 4 | - | - | 4 | 3-4 | 4 | - | - | - | - | - |
| 0020 | - | - | - | - | - | 4-5 | - | 5 | - | - | 4-5 | 4 | 5 | 4-5 | 4-5 | 4-5 | 5 | 4-5 |
| 0030 | - | - | - | - | - | 4-5 | - | 5 | - | - | 4 | 4-5 | 4 | 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 | - | - | - | - | 3 | 3 |
| 0200 | 1 | 1-2 | 1 | 1 | 1 | 1 | 2-3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2-3 | 2-3 | 2-3 | 3 |
| 0300 | 3 | 3 | 1-2 | 2-3 | 2-3 | 2 | 3 | 3 | 3 | - | 3 | 3 | 3 | 3 | 3 | 3-4 | 3 | - |
| 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 | 3 | - |
| 0500 | 4-5 | - | - | - | - | 4 | - | 4-5 | - | - | 4 | 4 | 3-4 | 4-5 | 4 | 4-5 | 4 | - |

Assessment: Ecological condition remains good in the upper reaches of the Castlebar in 2011, while the lower reach is still moderately polluted.

| 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 | 111261 | 290494 | 31 | MO |
| 0030 | Br u/s Islandeady L | 110048 | 289381 | 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 : **CLYDAGH (CASTLEBAR)**

34/C/05

Tributary of : 34C01 CASTLEBAR

OS Catchment No: 110

OS Grid Ref of Confluence: G 229 004

Date(s) Surveyed: 12/7/2011, 13/7/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1981 | 1986 | 1987 | 1989 | 1993 | 1995 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0020 | - | - | - | - | 5 | - | - | - | - | - | - |
| 0030 | - | - | - | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 5 | 4-5 |
| 0040 | - | - | - | - | 5 | - | - | - | - | - | - |
| 0050 | 5 | 5 | - | 5 | 5 | - | - | - | - | - | - |
| 0070 | - | - | - | - | - | 4-5 | 4 | 4-5 | 4 | - | 4-5 |
| 0100 | 5 | 4-5 | - | 5 | 4 | - | - | - | - | 4-5 | 4-5 |
| 0120 | - | - | - | 5 | 4 | - | - | - | 4-5 | - | - |
| 0125 | - | - | - | 4-5 | - | - | - | - | - | - | - |
| 0140 | - | - | - | 3-4 | 4-5 | 4 | 4-5 | - | 3-4 | 4-5 | 4 |
| 0150 | 4-5 | 5 | - | - | - | - | - | 4-5 | - | n/s | - |
| 0200 | 5 | 5 | 4 | 3 | 4-5 | 4 | - | 5 | 4 | 4-5 | 4-5 |

Assessment: The Clydagh River's high status was maintained at the majority of sites surveyed in July 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------------|------------|-------------|----------------------|-------------|
| 0020 | Br S of Lenanea | 111350 | 297410 | 31 | MO |
| 0030 | Br NW Ardvarney | 114243 | 296525 | 31 | MO |
| 0040 | Ford NW L. Naspleenagh | 115300 | 295100 | 31 | MO |
| 0050 | Bridge N.W. of Naspleenagh L | 115580 | 295175 | 31 | MO |
| 0070 | Br SW Sranalee | 116980 | 295765 | 31 | MO |
| 0100 | Clydagh Bridge | 117220 | 294430 | 31 | MO |
| 0120 | Footbridge SE Cloonkesh | 118779 | 294075 | 31 | MO |
| 0125 | D/s Footbr S.E. of Cloonkesh | 118845 | 294095 | 31 | MO |
| 0140 | Br SW Ballyguin | 119571 | 294692 | 31 | MO |
| 0150 | Bridge E. of Ballyguin | 120910 | 294140 | 31 | MO |
| 0200 | Br NE Ballyart | 122211 | 296142 | 31 | MO |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0030 | 104 | 6 | 100 | 0 | 0 | 9 | 80 | 0 | 0 | 0 | 11 |
| 0070 | 64 | 34 | 100 | 0 | 0 | 12 | 67 | 0 | 2 | 0 | 20 |
| 0100 | 58 | 35 | 100 | 0 | 0 | 12 | 66 | 0 | 2 | 0 | 20 |
| 0140 | 32 | 48 | 93 | 7 | 3 | 11 | 62 | 0 | 6 | 0 | 18 |
| 0200 | 15 | 53 | 88 | 12 | 6 | 10 | 57 | 0 | 10 | 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 : **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: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1995 | 1999 | 2002 | 2005 | 2007 | 2011 |
| 0400 | - | 4-5 | - | - | - | - | - | - |
| 0600 | 3-4 | 4 | 4 | 3-4 | 4 | 3-4 | 3-4 | 3-4 |

Assessment: Macroinvertebrate fauna continue to indicate unsatisfactory ecological conditions on the Lough Muck Stream in 2011, with excessive algal growth noted. Cattle access is an issue.

| 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 | 128681 | 299809 | 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: 12/7/2011, 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1986 | 1989 | 1990 | 1991 | 1993 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 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 | 3-4 | 3-4 |
| 0300 | 3-4 | 3 | 3 | 2-3 | - | - | 3-4 | - | - | - | - | - | - |
| 0400 | - | - | - | 3-4 | - | - | 4 | 3-4 | - | - | - | - | - |
| 0500 | - | - | - | - | - | - | - | - | - | - | 4 | - | 4 |

Assessment: Moderate status was recorded downstream of the Balla wastewater treatment plant. A fish kill occurred on the river at this point in 2010 and quality was better than expected. Good status was recorded at station 0200 upstream of the confluence with the Manulla River (q.v.).

| 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: 5/7/2011, 12/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1984 | 1989 | 1993 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0100 | 5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0150 | 5 | 4-5 | 4 | 4 | - | - | - | - | - | - |
| 0200 | - | 4 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | - | - |
| 0225 | - | - | - | - | - | - | - | 4 | 4 | 4 |
| 0300 | 5 | 3-4 | 4-5 | 3-4 | 4 | 4 | 4 | 4 | 3-4 | 3-4 |
| 0400 | 5 | 3-4 | 3-4 | 4 | - | - | - | - | - | - |
| 0500 | 5 | 3-4 | 4 | 3-4 | 3 | 4 | 4 | 3-4 | 3-4 | 3-4 |

Assessment: No change in condition was recorded in the Manulla in 2011, with the upper and middle reach (0100 and 0225) in good ecological condition, while the lower reach (0300 and 0500) is unsatisfactory.

| 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: 5/7/2011

| Station Nos. | | | | | | Biological Quality Ratings (Q Values) | | | |
|--------------|------|------|------|------|------|---------------------------------------|------|------|------|
| | 1986 | 1989 | 1993 | 1995 | 1998 | 2001 | 2005 | 2007 | 2011 |
| 0200 | - | - | 4 | - | - | - | - | - | - |
| 0300 | - | 3 | 4 | 4 | 4 | 3 | 3-4 | - | - |
| 0400 | 3-4 | 3-4 | 4-5 | 3 | 4 | 4 | 4-5 | 4 | 4 |

Assessment: Satisfactory.

| 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 : **STRADE**

34/S/04

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: M 267 995

Date(s) Surveyed: 14/7/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1989 | 1993 | 1995 | 1998 | 2001 | 2004 | 2007 | 2011 |
| 0400 | 3-4 | 4 | - | - | - | - | - | - |
| 0500 | 4 | - | - | - | - | - | - | - |
| 0600 | - | 4-5 | - | - | - | - | - | - |
| 0800 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |

Assessment: Satisfactory ecological conditions were maintained in the Strade in 2011, a situation virtually unchanged in over twenty years of surveying this Moy River tributary.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0400 | Bridge E. of Ballyvary* | 0 | 0 | 31 | MO |
| 0500 | Bridge S.W. of Redhill House* | 0 | 0 | 31 | MO |
| 0600 | Br NW Stradehill House | 0 | 0 | 31 | MO |
| 0800 | Br at Knockafall | 126154 | 298216 | 31 | MO |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0800 | 15 | 23 | 0 | 100 | 8 | 3 | 35 | 0 | 48 | 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.

WRBD: HYDROMETRIC AREA NO. 34

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total |
|------------------------------|------|-------|------|------|----------|------|-----|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | |
| River Name | Year | Code | | | | | | |
| Addergoole | 2010 | 34A01 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| Bar Deela | 2010 | 34B02 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 5.5 |
| Behy (N. Mayo) | 2010 | 34B08 | 9.3 | 0.7 | 0.0 | 0.0 | 0.0 | 10.0 |
| Bellanamean | 2010 | 34B04 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Bellawaddy | 2010 | 34B05 | 0.0 | 6.8 | 0.0 | 0.2 | 0.0 | 7.0 |
| Black (Sligo) | 2010 | 34B12 | 0.0 | 4.5 | 0.5 | 0.0 | 0.0 | 5.0 |
| Breaghwy | 2010 | 34B06 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| Brusna (N. Mayo) | 2010 | 34B07 | 5.0 | 7.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| Burren Stream (Clydagh) | 2011 | 34B13 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Callow Loughs Stream | 2010 | 34C08 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| Carroward | 2011 | 34C09 | 0.0 | 2.1 | 4.9 | 0.0 | 0.0 | 7.0 |
| Carrowkerribly L. Str. | 2010 | 34C07 | 3.8 | 0.2 | 0.0 | 0.0 | 0.0 | 4.0 |
| Castlebar | 2011 | 34C01 | 5.0 | 4.2 | 1.5 | 11.3 | 0.0 | 22.0 |
| Charlestown Stream | 2010 | 34C28 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Cloonaghmore | 2010 | 34C03 | 0.0 | 23.0 | 0.0 | 0.0 | 0.0 | 23.0 |
| Cloonlavis | 2010 | 34C10 | 4.3 | 2.0 | 1.8 | 0.0 | 0.0 | 8.0 |
| Clydagh (Castlebar) | 2011 | 34C05 | 25.3 | 2.7 | 0.0 | 0.0 | 0.0 | 28.0 |
| Crumlin (L. Cullin) | 2010 | 34C11 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Deel (Crossmolina) | 2010 | 34D01 | 11.3 | 30.8 | 0.0 | 0.0 | 0.0 | 42.0 |
| Duvowen (Cloonaghmore) | 2010 | 34D03 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| Eignagh | 2010 | 34E01 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 |
| Fiddaunatooghaun Stream | 2010 | 34F06 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Glenree | 2010 | 34G01 | 15.5 | 0.5 | 0.0 | 0.0 | 0.0 | 16.0 |
| Glore (Mayo) | 2010 | 34G02 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 20.0 |
| Gweeston | 2010 | 34G03 | 3.2 | 5.9 | 0.0 | 0.0 | 0.0 | 9.0 |
| Leaffony | 2010 | 34L01 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 12.5 |
| Lenyvee | 2010 | 34L06 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Little (Strade) | 2010 | 34L02 | 5.8 | 3.2 | 0.0 | 0.0 | 0.0 | 9.0 |
| Loughanaboll | 2010 | 34L07 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Lough Muck Stream | 2011 | 34L05 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| Loughnaminoe Stream | 2011 | 34L04 | 2.0 | 4.4 | 2.6 | 0.0 | 0.0 | 9.0 |
| Mad | 2010 | 34M04 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 |
| Manulla | 2011 | 34M01 | 3.7 | 8.4 | 7.0 | 0.0 | 0.0 | 19.0 |
| Meander | 2011 | 34M05 | 0.0 | 3.0 | 2.0 | 0.0 | 0.0 | 5.0 |
| Moy | 2010 | 34M02 | 18.6 | 63.0 | 3.5 | 0.0 | 0.0 | 85.0 |
| Mullaghanoe | 2010 | 34M03 | 0.0 | 3.1 | 2.9 | 2.6 | 0.0 | 8.5 |
| Oughtagh | 2010 | 34O05 | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 8.0 |
| Owenaher | 2010 | 34O01 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 14.0 |
| Owengarve (Sligo) | 2010 | 34O03 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 |
| Owenlobnaglaun | 2010 | 34O04 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Pollagh | 2010 | 34P01 | 9.8 | 1.9 | 1.4 | 0.0 | 0.0 | 13.0 |
| Shanvolahan | 2010 | 34S01 | 0.0 | 5.9 | 0.1 | 0.0 | 0.0 | 6.0 |
| Slieveclaur | 2010 | 34S06 | 0.0 | 4.8 | 1.2 | 0.0 | 0.0 | 6.0 |
| Sonnagh (Moy) | 2010 | 34S02 | 5.1 | 3.9 | 0.5 | 1.6 | 0.0 | 11.0 |
| Spaddagh | 2010 | 34S03 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Swinford | 2010 | 34S05 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 |

| Channel Length (km) in Class | | | A | A | B | C | D | Total | |
|---|----------|-------|----------|-------|----------|------|------|-------|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | | |
| River Name | Year | Code | | | | | | | |
| Strade | 2011 | 34S04 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 | |
| Tubbercurry | 2010 | 34T02 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | |
| Trimoge | 2010 | 34T01 | 5.2 | 11.8 | 3.1 | 0.0 | 0.0 | 20.0 | |
| Yellow (Foxford) | 2010 | 34Y01 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | |
| Yellow (Knock) | 2010 | 34Y02 | 0.0 | 14.8 | 2.2 | 0.0 | 0.0 | 17.0 | |
| Total Length (km) surveyed this cycle | | | 206.6 | 328.2 | 46.0 | 25.2 | 2.5 | 608.5 | |
| Adjustments (km) (See below)* | | | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | |
| Current adjusted (km) | 2010/11 | | 201.6 | 328.2 | 46.0 | 25.2 | 2.5 | 603.5 | |
| Percentages | | | 33.4 | 54.4 | 7.6 | 4.2 | 0.4 | 100.0 | |
| Channel Length (km) in Class | | | | A | B | C | D | Total | |
| Baseline : Current Adjusted Status (km) | 2010-‘12 | | | 529.8 | 46.0 | 25.2 | 2.5 | 603.5 | |
| Percentages | | | | 87.8 | 7.6 | 4.2 | 0.4 | 100.0 | |
| Baseline: Previous Unadjusted Status (km)** | | | 247.6 | 260.8 | 46.0 | 46.7 | 2.5 | 603.5 | |
| Percentages | | | 2007-‘09 | 41.0 | 43.2 | 7.6 | 7.7 | 0.4 | 100.0 |
| Changes since Previous Survey (km) | | | | -46.0 | 67.5 | 0.1 | 21.5 | 0.0 | 0.0 |

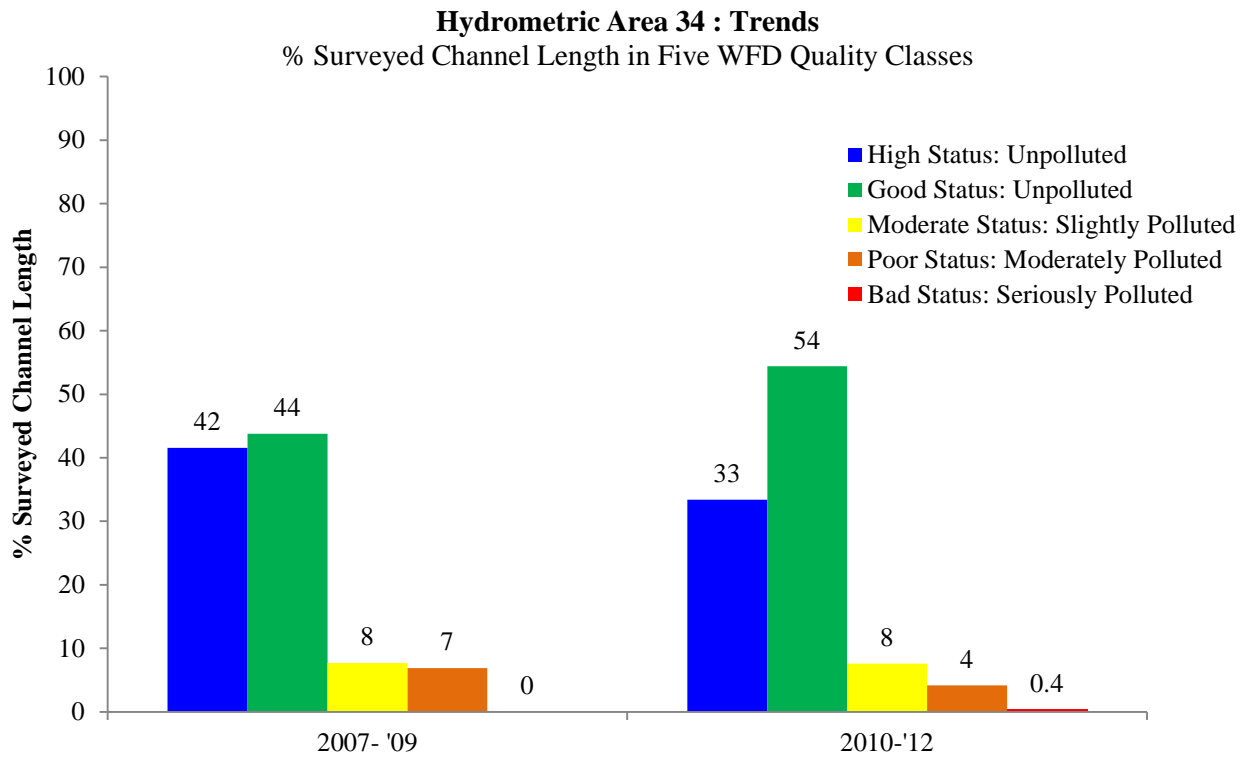
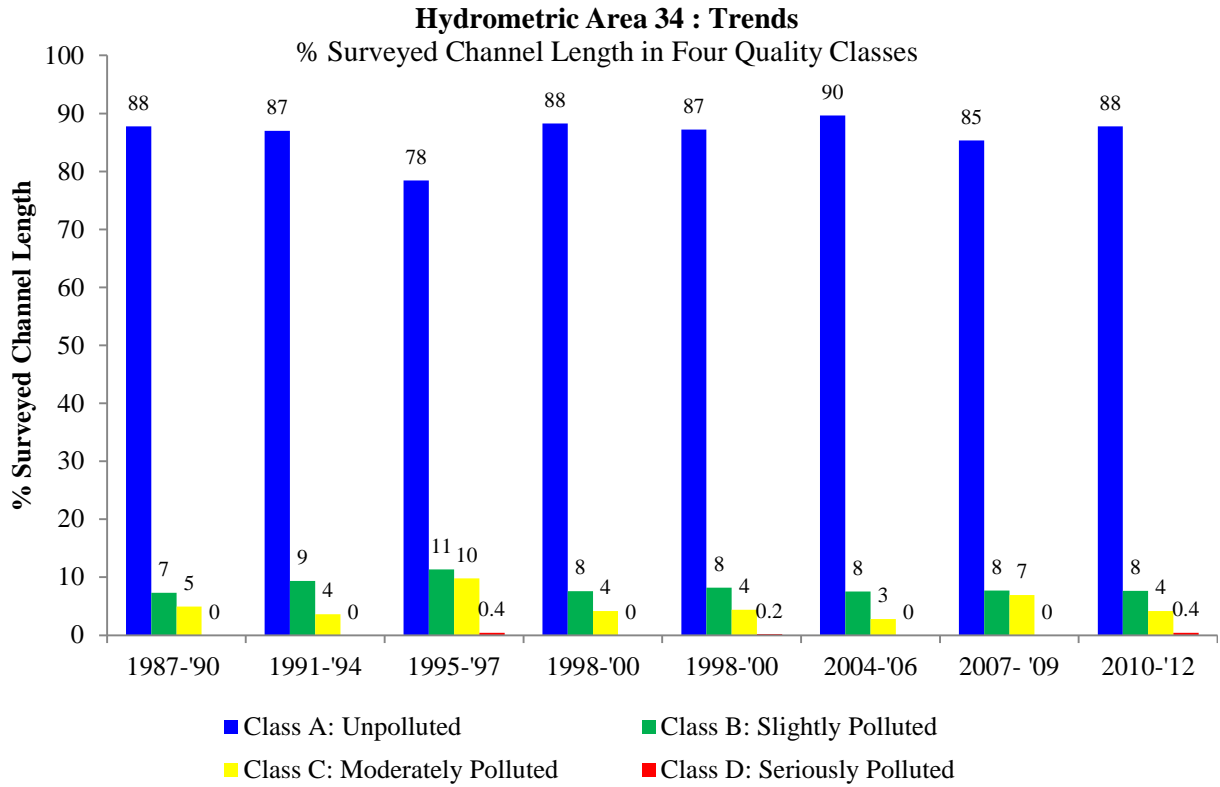
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Loughanaboll (34L07) was added back into the programme in 2010.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 38 | 40 |
| Good | 44 | 65 |
| Moderate | 8 | 14 |
| Poor | 14 | 8 |
| Bad | 2 | 2 |
| Total number of sites surveyed | 106 | 129 |
| Total number of sites at unsatisfactory status | 24 | 24 |



HYDROMETRIC AREA 37 (Donegal Bay North: Balance of Survey)

Partial Survey in 2010, Balance of Survey in 2011

| | |
|----------------------|-------|
| 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 |
| GLEN (CARRICK) | 37G01 |
| LAGHY STREAM | 37L02 |
| LOWERYMORE | 37L01 |
| OILY | 37O01 |
| OWENTESKINY | 37O02 |
| OWENWEE (CARRICK) | 37O03 |
| STRAGAR | 37S02 |
| TULLINTEANE | 37T01 |

River and Code : **BALLINTRA**
 Tributary of : Sea - Donegal Bay
 OS Grid Ref of Confluence: G 904 726
 Date(s) Surveyed: 3/8/2011

37/B/02

OS Catchment No: 60

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0007 | - | - | - | 4-5 | 5 | 4-5 | 4 | 4 | 4 | 4 |
| 0010 | - | 5 | 4-5 | - | - | - | - | - | - | - |
| 0050 | - | 4-5 | 4 | 5 | 4-5 | 4-5 | 4 | 3-4 | - | 4 |
| 0060 | - | - | 5 | - | - | - | - | - | - | - |
| 0100 | 5 | 5 | 5 | - | - | - | - | - | - | - |
| 0200 | 5 | 4 | 4 | 4-5 | 3 | 4 | 4 | 3 | 3 | 3-4 |

Assessment: Satisfactory ecological conditions have been maintained in the upper Ballintra in 2011 (stations 0007 and 0050). Although a slight improvement was noted in the lower reach (0200), it remains moderately polluted.

| 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: 3/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1973 | 1980 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | 5 | 5 | 4 | 4 | 4 | 4 | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | 4-5 | 4-5 | 4-5 | 4-5 |
| 0050 | 5 | 4-5 | 4-5 | 4-5 | - | - | - | - | - | - | - |
| 0080 | - | - | - | - | 4-5 | - | - | - | - | - | - |
| 0090 | - | - | - | - | - | 4 | 4-5 | 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 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded along the length of the Bridgetown in 2011, a situation unchanged in almost thirty years of surveying this Ballintra tributary.

| 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: 5/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2011 |
| 0200 | 5 | 4 | 4-5 | 4 | 4-5 | 4 | 4-5 |
| 0300 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |

Assessment: Highly satisfactory ecological conditions were recorded along the length of the Bunlacky in 2011, a situation unchanged in over twenty years of surveying this river.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | - | - | - | - | - | - | 3 |
| 0200 | 4-5 | 4 | 4-5 | 4-5 | 4 | 3 | 3 | 3 |

Assessment: Following the unexpected drop in ecological condition noted on the Cloughanmore in September 2005, and on-going moderate pollution observed since then, an investigative monitoring site (0100) was added upstream in 2011 in order to shed some light on the situation. Unsatisfactory ecological conditions were also recorded at this site in 2011, and no obvious point source of pollution was discovered. Pressures in the catchment include turf cutting, forestry and sheep farming.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|------------------------|------------|-------------|----------------------|-------------|
| 0100 | Br 2.5km u/s Malin Bay | 152065 | 382525 | 0 | |
| 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: 11/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 5 | - | - | - | - | - | - | - |
| 0400 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 | 3-4 | 4-5 |

Assessment: A welcome return to highly satisfactory ecological condition was recorded on Clogher in 2011, suggesting the effects of the N15 road building are elapsed.

| 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: 21/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4-5 | 4-5 | 5 | 4-5 | 4-5 | 4 | 4-5 | 4-5 |

Assessment: Highly satisfactory ecological conditions were recorded on the Corabber in 2011, a situation unchanged in over twenty years of surveying this Lough Eske tributary.

| 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | - | 3-4 | 3-4 | 3-4 | 3 | 4 | 4* | 3 |
| 0700 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4-5 | 4 | 4 |

Assessment: An unwelcome decline to unsatisfactory ecological condition was recorded on the upper Crow (0200) in 2011, with a paucity of sensitive macroinvertebrate taxa noted. It is possible that there are lingering effects of the landslide on Crocknpeast contributing to the decline. The lower section of the Crow (Station 0700) was in satisfactory condition.

| 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: 10/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 4 | 4-5 | 4-5 | - | - | - | - |
| 0400 | 5 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded in the Cunlin in 2011, a situation unchanged in over twenty years of surveying this river.

| 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****37/D/01**

Tributary of : 37E05 ESKE

OS Catchment No: 58

OS Grid Ref of Confluence: G 937 788

Date(s) Surveyed: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | - | - | - | - | - | - | - | 4-5 |
| 0300 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | - | 3 |
| 0400 | 4 | 3-4 | 4 | 4-5 | 3-4 | 4 | 4 | 4 |

Assessment: Despite satisfactory ecological conditions recorded in both the upper and lower Drummeny in 2011, moderate pollution was noted in the middle reach (0300), causing a decline in quality.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0200 | Aghlem Br | 198712 | 378797 | 0 | |
| 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: 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|
| | 1980 | 1984 | 1986 | 1990 | 1999 | 2005 | 2011 |
| 0300 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded in the Eany Water in 2011, a situation unchanged in over thirty years of surveying this river.

| 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: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 5 | 4 | 5 | 4-5 | 4-5 | 4 | - | 4-5 |
| 0500 | 4-5 | - | - | - | - | - | - | - |
| 0700 | 4-5 | 4-5 | 4 | 4-5 | 4 | 4 | 3-4 | 4 |

Assessment: A welcome return to satisfactory ecological conditions was recorded in the Eanybeg in 2011, with high quality restored in the upper reach (0200).

| 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: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1980 | 1984 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0050 | - | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0100 | - | 5 | 5 | 5 | - | - | - | - | - | - | - | - |
| 0150 | - | - | - | - | 5 | 4-5 | 4-5 | 5 | 5 | 3 | - | 3 |
| 0200 | - | 5 | 5 | 5 | - | - | - | - | - | - | - | - |
| 0250 | 4-5 | - | - | - | 5 | 5 | 4-5 | 5 | 4 | 4 | - | 3-4 |

Assessment: Although satisfactory ecological conditions have been maintained on the upper Eanymore in 2011, the lower reaches (0150 and 0250) are moderately polluted. Increased abundance of algae and silt, coupled with a paucity of sensitive macroinvertebrate taxa, are indicative of eutrophication in the catchment.

| 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: 4/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 5 | 4 | 5 | 4 | 4-5 | 4 | 4-5 | 4 |
| 0200 | 4-5 | - | - | - | - | - | - | - |

Assessment: Satisfactory ecological condition was recorded on the EGLISH in 2011, a situation unchanged in over twenty years of surveying this Eanymore River tributary. However a slight decline from high to good condition was noted.

| 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: 30/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1973 | 1982 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 4 | 4 | 4-5 | - | - | - | - | - | - | - |
| 0200 | 5 | 4-5 | 4 | 4 | 4-5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 |
| 0310 | 5 | 4-5 | - | 4-5 | - | - | - | - | - | - | - |
| 0400 | - | 4-5 | 4-5 | 4 | 4 | 4 | 3-4 | 3-4* | n/s | 3-4 | 4 |

Assessment: Satisfactory ecological conditions were recorded at both sites sampled on the Eske in 2011, with welcome improvement noted in Donegal town (0400).

| 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 : **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: 21/10/2011, 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1973 | 1977 | 1980 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0010 | - | - | - | - | - | - | - | - | - | 4 | - | - | - |
| 0040 | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 0045 | - | - | - | - | - | - | 4-5 | 4-5 | 4-5 | - | 3 | 4 | 4 |
| 0050 | - | 5 | 5 | 4-5 | 5 | 5 | - | - | - | - | - | - | - |
| 0070 | - | - | - | - | - | 4-5 | 3-4 | 4-5 | 3 | 3-4* | 3 | 4 | 3-4 |
| 0100 | - | 5 | - | 5 | 5 | 4-5 | - | - | - | - | - | - | - |
| 0200 | 5 | 5 | 4 | 4 | 5 | 4 | 4-5 | 4-5 | 4 | 4 | 3 | 4 | 3-4 |
| 0210 | - | - | - | - | - | - | - | - | - | 3-4 | - | - | - |

Assessment: Although satisfactory ecological conditions were recorded in the upper Glen (0045) in 2011, a very disappointing return to moderately polluted was noted in the lower reach. The mid reach station (0070) is downstream of a large fish processing factory and the lower site (0200) is downstream of Carrick and both lacked the pollution-sensitive invertebrates present during the last survey.

| 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 : **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: 3/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|-------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | - | 4 | 4-5 | 4-5 | 4 | 4 | - | 4-5 |
| 0300 | 4 | - | - | - | 4 | 4-5 | 4 | 4 |
| 0400 | 4 | 4-5 | - | 4 | - | - | - | - |
| 0600 | 5 | - | 4 | - | 4-5 | 4 | 3-4/0 | 4 |

Assessment: Satisfactory ecological conditions were recorded at all sites sampled on the Laghy in 2011, with a welcome improvement in the lower station (0600) noted.

| 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 : **LOWERYMORE**

37/L/01

Tributary of : Lough Eske

OS Catchment No: 58

OS Grid Ref of Confluence: G 978 822

Date(s) Surveyed: 8/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0100 | 4 | 4 | 4-5 | 4 | 4-5 | 4 | 4 | 4 |
| 0300 | 3-4 | 4-5 | 5 | - | 4-5 | 4-5 | - | 4-5 |
| 0400 | 5 | 5 | 5 | 4 | 4-5 | 4-5 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded along the length of the Lowerymore in 2011, a situation virtually unchanged in over twenty years of surveying this Lough Eske tributary.

| 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: 5/8/2011

| Station Nos. | | | | | | | Biological Quality Ratings (Q Values) | | | | |
|--------------|------|------|------|------|------|------|---------------------------------------|------|------|------|------|
| | 1973 | 1980 | 1986 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0020 | - | - | - | 5 | 4 | 4-5 | - | 4 | 4-5 | 5 | 4-5 |
| 0050 | - | 5 | 5 | 5 | 5 | 5 | 4-5 | 4-5 | 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 | 4 | 4 |

Assessment: Satisfactory ecological conditions were recorded along the length of the Oily in 2011, a situation virtually unchanged in almost thirty years of surveying this river.

| 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: 9/8/2011

37/O/02

OS Catchment No: 52

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0300 | 4 | 4-5 | 4 | 4 | 3-4 | 4-5 | 4-5 | 4-5 |
| 0400 | 4-5 | 4-5 | 4-5 | 4 | 4 | 4 | - | 4 |
| 0500 | 4-5 | 4 | 4 | 4-5 | 5 | - | - | - |
| 0600 | - | - | - | - | - | - | 4-5 | 4-5 |

Assessment: Satisfactory ecological conditions were recorded at all sites sampled on the Owenteskiny in 2011, a situation virtually unchanged in over twenty years of surveying this Glen River tributary.

| 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 |
| 0600 | 1 km u/s confl with Glen River | 161870 | 385355 | 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: 9/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4 | - | - | - | - | - | - | - |
| 0400 | 4-5 | 4 | 5 | 5 | 5 | 4 | - | 3-4 |
| 0500 | 4-5 | 5 | 4-5 | 4-5 | 4-5 | 4 | 4 | 3-4 |

Assessment: Macroinvertebrate fauna indicated an unwelcome decline to unsatisfactory ecological conditions at both stations on the Owenwee in 2011, with a lack of pollution sensitive taxa noted.

| 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 : **STRAGAR**

37/S/02

Tributary of :

OS Catchment No: 54

OS Grid Ref of Confluence: G 728 780

Date(s) Surveyed: 30/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1985 | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2010 | 2011 |
| 0100 | 5 | 5 | 5 | 4 | 4-5 | 4-5 | 4 | 3-4 | 4-5 | 3-4 | - |
| 0180 | - | - | - | - | - | - | 3 | 3 | 4 | - | 3-4 |
| 0200 | 5 | 4 | 5 | 5 | - | - | - | - | - | - | - |
| 0300 | - | - | - | - | 4-5 | 4-5 | - | 3 | 4 | - | 3-4 |
| 0400 | - | - | - | - | - | - | - | - | - | - | - |

Assessment: Macroinvertebrate fauna indicated an unwelcome decline to unsatisfactory ecological conditions at both stations on the Stragar in 2011, with a lack of pollution sensitive taxa noted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|--------------------------|------------|-------------|----------------------|-------------|
| 0100 | Meentullynagarn Br | 174211 | 382791 | 10 | DL |
| 0180 | E Faiafannan | 172765 | 379440 | 0 | DL |
| 0200 | Br W Five Points | 172910 | 379005 | 10 | DL |
| 0300 | Br SW of Tullagha | 172945 | 378576 | 10 | DL |
| 0400 | Br u/s Killybegs Harbour | 172940 | 378145 | 10 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0100 | 83 | 10 | 100 | 0 | 0 | 7 | 67 | 0 | 7 | 0 | 19 |
| 0300 | 9 | 36 | 100 | 0 | 0 | 11 | 66 | 0 | 14 | 1 | 8 |

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

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: 5/8/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 1999 | 2002 | 2005 | 2008 | 2011 |
| 0200 | 4 | - | - | - | - | - | - | - |
| 0300 | - | - | - | 4 | - | - | - | - |
| 0400 | 4-5 | 4-5 | 4 | 2/0 | 2/0 | 4 | 4-5 | 4-5 |

Assessment: Highly satisfactory ecological conditions have been maintained in the Tullinteane in 2011.

| 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.

NWRBD: HYDROMETRIC AREA NO. 37

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

| Channel Length (km) in Class | | | A | A | B | C | D | Total | |
|---|---------|-------|----------|-------|----------|------|------|-------|-------|
| WFD Quality Class | | | High | Good | Moderate | Poor | Bad | | |
| River Name | Year | Code | | | | | | | |
| Ballaghdoe | 2010 | 37B01 | 0.0 | 0.0 | 1.2 | 4.8 | 0.0 | 6.0 | |
| Ballintra | 2011 | 37B02 | 0.0 | 11.3 | 4.2 | 0.0 | 0.0 | 15.5 | |
| Bridgetown (Donegal) | 2011 | 37B03 | 12.4 | 1.6 | 0.0 | 0.0 | 0.0 | 14.0 | |
| Bunlacky | 2011 | 37B04 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | |
| Cloghanmore | 2011 | 37C05 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | |
| Clogher (Donegal) | 2011 | 37C06 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | |
| Corabber | 2011 | 37C01 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | |
| Crow | 2011 | 37C03 | 0.0 | 1.2 | 2.2 | 3.6 | 0.0 | 7.0 | |
| Cunlin Lough Stream | 2011 | 37C08 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | 4.5 | |
| Drummenny | 2011 | 37D01 | 5.2 | 1.3 | 2.4 | 1.2 | 0.0 | 10.0 | |
| Eany Water | 2011 | 37E03 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 | |
| Eanybeg Water | 2011 | 37E01 | 13.0 | 1.0 | 0.0 | 0.0 | 0.0 | 14.0 | |
| Eanymore Water | 2011 | 37E02 | 0.0 | 11.6 | 2.9 | 2.5 | 0.0 | 17.0 | |
| Eglish | 2011 | 37E04 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 5.0 | |
| Eske | 2011 | 37E05 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 | |
| Fintragh | 2010 | 37F01 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | |
| Glen (Carrick) | 2011 | 37G01 | 0.0 | 7.7 | 5.3 | 0.0 | 0.0 | 13.0 | |
| Glenaddragh | 2010 | 37G02 | 0.0 | 0.0 | 0.0 | 9.0 | 0.0 | 9.0 | |
| Laghy Stream | 2011 | 37L02 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 9.5 | |
| Loughaderry (37L03) | 2010 | 37L03 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 | |
| Lowerymore | 2011 | 37L01 | 6.2 | 4.9 | 0.0 | 0.0 | 0.0 | 11.0 | |
| Oily | 2011 | 37O01 | 15.0 | 1.0 | 0.0 | 0.0 | 0.0 | 16.0 | |
| Owenteskiny | 2011 | 37O02 | 6.5 | 2.5 | 0.0 | 0.0 | 0.0 | 9.0 | |
| Owenwee (Carrick) | 2011 | 37O03 | 0.0 | 0.0 | 4.5 | 0.0 | 0.0 | 4.5 | |
| Roechrow | 2010 | 37R01 | 0.0 | 1.5 | 1.0 | 0.5 | 0.0 | 3.0 | |
| Stragar | 2010/11 | 37S02 | 0.0 | 0.0 | 9.0 | 0.0 | 0.0 | 9.0 | |
| Tullinteane | 2011 | 37T01 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | |
| Total Length (km) surveyed this cycle | | | 86.6 | 71.2 | 32.7 | 23.6 | 0.0 | 214.0 | |
| Adjustments (km) (See below)* | | | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 12.0 | |
| Current Length (km) Adjusted | | | 2010/11 | 78.6 | 67.2 | 32.7 | 23.6 | 0.0 | 202.0 |
| Percentages | | | | 38.9 | 33.3 | 16.2 | 11.7 | 0.0 | 100.0 |
| Channel Length (km) in Class | | | | A | B | C | D | Total | |
| Baseline : Current Adjusted Status (km) | | | 2010-'12 | 145.8 | 32.7 | 23.6 | 0.0 | 202.0 | |
| Percentages | | | | 72.2 | 16.2 | 11.7 | 0.0 | 100.0 | |
| Baseline: Previous Unadjusted Status (km)** | | | 2007-'09 | 59.8 | 104.3 | 20.8 | 13.6 | 3.6 | 202.0 |
| Percentages | | | | 29.6 | 51.6 | 10.3 | 6.7 | 1.8 | 100.0 |
| Changes since Previous Survey (km) | | | | 18.8 | -37.0 | 11.9 | 10.0 | -3.6 | 0.0 |

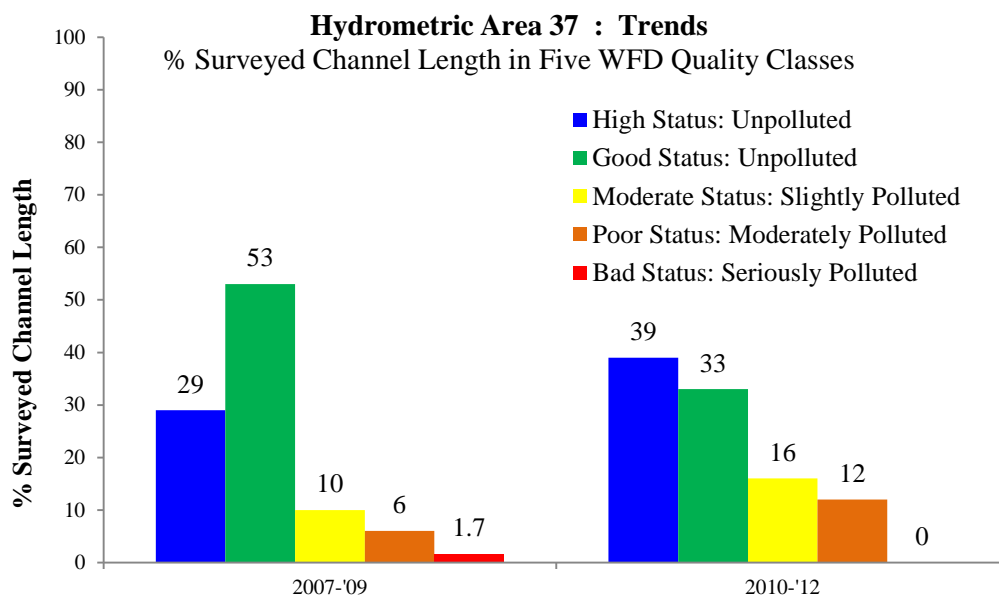
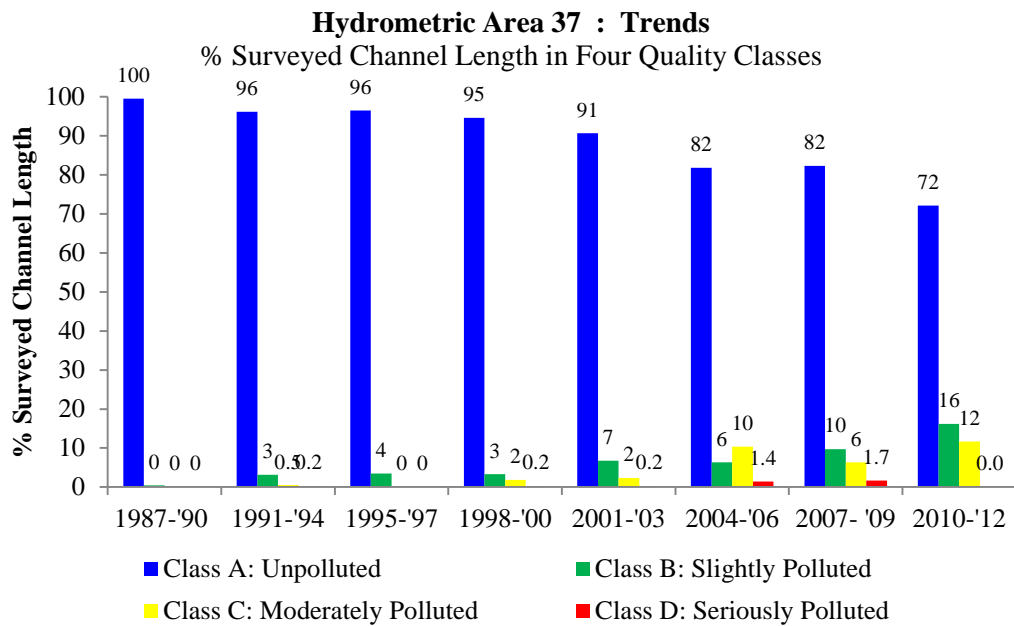
* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Bunlacky (37B04) and Eany Water (37E03) were added back into the programme in 2011.

** Clabby *et al.*, 2008

¹ Rivers not previously included in the National Statistics

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

| Number of sites at WFD status | 2007-'09 | 2010-'12 |
|--|----------|----------|
| High | 10 | 16 |
| Good | 19 | 22 |
| Moderate | 6 | 9 |
| Poor | 10 | 13 |
| Bad | 2 | 0 |
| Total number of sites surveyed | 47 | 60 |
| Total number of sites at unsatisfactory status | 18 | 22 |



ADDITIONAL SURVEYS 2011

Seriously Polluted and Investigative Sites

HYDROMETRIC AREA 10 (Avoca)

AVOCA

10A03

River and Code : **AVOCA**

10/A/03

Tributary of :

OS Catchment No: 171

OS Grid Ref of Confluence: T 256 729

Date(s) Surveyed: 9/9/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1971 | 1974 | 1977 | 1981 | 1986 | 1990 | 1994 | 1997 | 2000 | 2003 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| 0650 | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 0680 | - | - | - | - | - | 4-5 | 5 | 4 | 4 | 3-4 | - | - | - | - | - | - |
| 0700 | 1/0 | 1/0 | 1/0 | 1/0 | 1/0 | 1/0 | 1/0 | - | 1/0 | - | 4 | 1/0 | 2/0 | 2/0 | 4 | 3/0 |
| 0800 | 1/0 | 1/0 | 1/0 | - | 1/0 | 1/0 | - | - | - | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | 2/0 | 2/0 | 1/0 | - | - | - | - | - | - | - | - | - |
| 1000 | 1/0 | 1/0 | 1/0 | - | 2/0 | - | - | - | - | - | - | - | - | - | - | - |
| 1200 | - | - | - | - | 1/0 | 1/0 | - | - | - | - | - | - | - | - | - | - |

Assessment: The paucity of macroinvertebrate fauna continues to indicate poor ecological conditions with continuing toxic affects due to acid mine drainage effluent at Avoca Bridge in September 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0650 | 0.1km d/s Avonbeg R confl | 0 | 0 | 62 | WW |
| 0680 | 1km d/s Avonbeg R confl | 319661 | 182146 | 62 | WW |
| 0700 | Avoca Br | 320337 | 179825 | 62 | WW |
| 0800 | At Woodenbridge Golf Club | 319290 | 177220 | 62 | WW |
| 0900 | Footbr 0.5km d/s Aughrim R | 320245 | 176469 | 62 | WW |
| 1000 | At Shelton Abbey (u/s I.F.I.) | 321810 | 175230 | 62 | WW |
| 1200 | Arklow Br | 324720 | 173530 | 62 | WW |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0680 | 29 | 362 | 100 | 0 | 17 | 18 | 40 | 0 | 12 | 1 | 13 |
| 0700 | 22 | 378 | 100 | 0 | 19 | 17 | 38 | 1 | 12 | 1 | 12 |
| 0900 | 2 | 615 | 100 | 0 | 27 | 17 | 30 | 1 | 12 | 0 | 13 |

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

HYDROMETRIC AREA 18 (Brogeen)

BROGEEN

18B06

River and Code : **BROGEEN**

18/B/06

Tributary of : 18A02 ALLOW

OS Catchment No: 190

OS Grid Ref of Confluence: R 385 018

Date(s) Surveyed: 13/6/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|
| | 1990 | 1994 | 1997 | 2000 | 2003 | 2006 | 2009 | 2011 |
| 0100 | 3 | 3 | 4 | 3 | 2 | 4 | 2 | 4 |
| 0200 | 3-4 | 3-4 | 3-4 | 3-4 | 4 | - | - | - |
| 0300 | 3-4 | 3-4 | 3-4 | 4 | 3 | 4 | 4 | - |
| 0600 | 3-4 | 4 | 4 | 4 | 4 | - | - | - |
| 0800 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - |

Assessment: Good ecological quality where previously seriously polluted.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|----------------------|------------|-------------|----------------------|-------------|
| 0100 | Br N of Islandav | 125361 | 102072 | 72 | CK |
| 0200 | Brogeen Br | 128741 | 102764 | 72 | CK |
| 0300 | Br NW of Derrygalun | 132721 | 102407 | 72 | CK |
| 0600 | Br nr millview Cross | 136070 | 102325 | 72 | CK |
| 0800 | Br u/s Allow R confl | 138346 | 101842 | 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 | 167 | 7 | 0 | 100 | 83 | 0 | 15 | 0 | 2 | 0 | 0 |
| 0200 | 132 | 17 | 0 | 100 | 80 | 1 | 7 | 1 | 10 | 0 | 0 |
| 0300 | 109 | 24 | 0 | 100 | 85 | 1 | 5 | 1 | 7 | 0 | 0 |
| 0600 | 88 | 35 | 0 | 100 | 85 | 1 | 4 | 1 | 9 | 0 | 0 |
| 0800 | 79 | 38 | 0 | 100 | 84 | 1 | 3 | 1 | 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.

HYDROMETRIC AREA 36 (Cavan)

CAVAN

36C02

River and Code : **CAVAN**

36/C/02

Tributary of : 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of Confluence: H 475 112

Date(s) Surveyed: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1978 | 1980 | 1984 | 1986 | 1987 | 1989 | 1990 | 1993 | 1997 | 1998 | 2001 | 2004 | 2007 | 2010 | 2011 |
| 0040 | - | - | - | - | - | 3 | - | 3-4 | 3 | 4 | 3 | 3 | 3 | 3 | - |
| 0085 | - | - | - | - | - | - | - | 3-4 | 4-5 | 4 | 4 | 4 | 4 | 4 | - |
| 0100 | - | 4-5 | 3-4 | 3-4 | - | 3 | - | - | - | - | - | - | - | - | - |
| 0200 | 1 | 1 | 1 | 2 | 2-3 | 2 | 2-3 | 3 | - | - | - | - | - | - | - |
| 0300 | - | - | - | 2 | 2 | 2-3 | 2-3 | 3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2 | 2-3 |
| 0400 | 2 | 2 | 2 | 2-3 | 2-3 | 2-3 | - | 3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | - |

Assessment: Unsatisfactory ecological conditions persisted on the Cavan River downstream of Cavan Town (0300) when sampled in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------------|------------|-------------|----------------------|-------------|
| 0040 | Br nr Breffni Park | 242062 | 303637 | 34 | CN |
| 0085 | Br E of Thomascourt/Drumroosk | 241582 | 301090 | 34 | CN |
| 0100 | In Royal School Grounds | 0 | 0 | 0 | CN |
| 0200 | Br d/s Cavan (Lisdarn) | 0 | 0 | 0 | CN |
| 0300 | Br d/s St 0200 | 241294 | 306933 | 34 | CN |
| 0400 | Br u/s Annalee R confl | 240121 | 310116 | 27 | CN |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0040 | 62 | 58 | 90 | 10 | 92 | 1 | 1 | 3 | 2 | 0 | 0 |
| 0085 | 86 | 10 | 100 | 0 | 93 | 0 | 5 | 0 | 2 | 0 | 0 |
| 0300 | 50 | 67 | 87 | 13 | 90 | 1 | 1 | 6 | 2 | 0 | 0 |
| 0400 | 50 | 85 | 74 | 26 | 89 | 2 | 1 | 6 | 1 | 1 | 0 |

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

HYDROMETRIC AREA 39 (Maggy's Burn)

MAGGY'S BURN

39M01

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

River and Code : **MAGGY'S BURN**

39/M/01

Tributary of : Lough Fern

OS Catchment No: 31

OS Grid Ref of Confluence: C 184 247

Date(s) Surveyed: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1979 | 1981 | 1985 | 1988 | 1989 | 1990 | 1991 | 1996 | 1998 | 2001 | 2004 | 2007 | 2008 | 2010 | 2011 |
| 0080 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 0100 | 4-5 | 4 | 3 | 3-4 | 4 | 2/0 | 3/0 | 3 | 3 | - | - | - | - | - | - | - | - |
| 0150 | - | - | - | - | - | 1/0 | 1-2 | 2 | 2 | - | - | - | - | - | - | - | - |
| 0200 | 1 | 1 | 1 | 2 | 2 | 1/0 | 1 | 1 | 1-2 | - | - | - | - | - | - | - | - |
| 0300 | 2 | 1 | 1 | 3 | 2-3 | 1 | 2 | - | 2 | 2 | 3 | 2 | 2 | 2 | 2-3 | 2 | 2 |

Assessment: Low macroinvertebrate diversity, excessive siltation and complete paucity of sensitive taxa indicate serious pollution is ongoing at Maggy's Burn in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-----------------------------|------------|-------------|----------------------|-------------|
| 0080 | 200 m u/s Br in Milford | 219460 | 426791 | 2 | DL |
| 0100 | Bridge in Milford | 219500 | 426700 | 0 | DL |
| 0150 | D/s Br in Milford (u/s STW) | 219252 | 426489 | 2 | DL |
| 0200 | D/s Milford (d/s STW) | 218956 | 426314 | 2 | DL |
| 0300 | Br Just u/s Lough Fern | 218592 | 424904 | 2 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0080 | 34 | 3 | 100 | 0 | 47 | 0 | 31 | 2 | 0 | 0 | 20 |
| 0150 | 29 | 4 | 100 | 0 | 49 | 0 | 27 | 7 | 0 | 0 | 17 |
| 0200 | 27 | 4 | 100 | 0 | 52 | 0 | 23 | 7 | 2 | 0 | 15 |
| 0300 | 20 | 9 | 100 | 0 | 51 | 0 | 16 | 4 | 15 | 0 | 14 |

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

HYDROMETRIC AREA 40 (Bredagh)

BREDAGH

40B02

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

River and Code : **BREDAGH**

40/B/02

Tributary of : Sea - Lough Foyle

OS Catchment No: 13

OS Grid Ref of Confluence: C 611 382

Date(s) Surveyed: 5/10/2011

| Station Nos. | Biological Quality Ratings (Q Values) | | | | | | | | | | | | | |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1973 | 1977 | 1987 | 1988 | 1989 | 1993 | 1996 | 1998 | 2001 | 2004 | 2007 | 2008 | 2010 | 2011 |
| 0200 | 5 | 5 | 4-5 | - | - | 3 | 4-5 | 4 | 4-5 | 4-5 | 4-5 | - | 4-5 | - |
| 0300 | 5 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - |
| 0400 | - | - | 2 | 1 | 1 | 1 | 1 | 1-2 | 2 | 2 | 2 | 2 | 2 | 2 |

Assessment: The macroinvertebrate fauna continues to indicate serious pollution due to municipal discharges in Moville (0400) in 2011.

| Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
|-------------|-------------------------|------------|-------------|----------------------|-------------|
| 0200 | Moglass Bridge | 258225 | 442594 | 3 | DL |
| 0300 | 1 km u/s Moville Bridge | 260530 | 439000 | 4 | DL |
| 0400 | Br in Moville | 261059 | 438427 | 4 | DL |

Site Altitude and Upstream Catchment Characteristics (where available):

| Site No. | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
|----------|-----|------|-----|-----|---------|----------|------|-------|----------|-------|-------|
| 0200 | 108 | 6 | 100 | 0 | 11 | 0 | 83 | 0 | 2 | 0 | 4 |
| 0400 | 7 | 18 | 100 | 0 | 40 | 0 | 49 | 1 | 8 | 0 | 1 |

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

AN GHNÍOMHAIREACHT UM CHAOMHNÚ COMHSHAOIL
Tá an Gníomhaireacht um Chaomhnú Comhshaoil (GCC) freagrach as an gcomhshaol a chaomhnú agus a fheabhsú mar shócmhainn luachmhar do mhuintir na hÉireann. Táimid tiomanta do dhaoine agus don chomhshaol 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 comhshaol atá glan, táirgiúil agus cosanta go maith, agus le hiompar a chuirfidh le comhshaol inbhuanaithe.

Ár bhFreagrachtaí

Ceadúnú

Déanaimid na gníomhaíochtaí seo a leanas a rialú ionas nach ndéanann siad dochar do shláinte an phobail ná don chomhshaol:

- 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 chomhshaol.

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 gComhshaol

- 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 Chomhshaol 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 gcomhshaol 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 tairmí núicléacha.
- Monatóireacht a dhéanamh ar fhorbairtí thar lear a bhaineann le saoráidí núicléacha agus leis an tsábháilteacht raideolaíochta.
- Sainseirbhísí cosanta ar an radaíocht a sholáthar, nó maoirsiú a dhéanamh ar sholáthar na seirbhísí sin.

Treoir, Faisnéis Inrochtana agus Oideachas

- Comhairle agus treoir a chur ar fáil d’earnáil na tionsclaíochta agus don phobal maidir le hábhair a bhaineann le caomhnú an chomhshaoil agus leis an gcosaint raideolaíoch.
- Faisnéis thráthúil ar an gcomhshaol ar a bhfuil fáil éasca a chur ar fáil chun rannpháirtíocht an phobail a spreagadh sa chinnteoireacht i ndáil leis an gcomhshaol (*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 chos 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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