Interim Report on the Biological Survey of River Quality

Results of the 2012 Investigations
ENVIRONMENTAL PROTECTION AGENCY
The Environmental Protection Agency (EPA) is responsible for protecting and improving the environment as a valuable asset for the people of Ireland. We are committed to protecting people and the environment from the harmful effects of radiation and pollution.

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

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

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

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

Our Responsibilities

Licensing
We regulate the following activities so that they do not endanger human health or harm the environment:
• waste facilities (e.g. landfills, incinerators, waste transfer stations);
• large scale industrial activities (e.g. pharmaceutical, cement manufacturing, power plants);
• intensive agriculture (e.g. pigs, poultry);
• the contained use and controlled release of Genetically Modified Organisms (GMOs);
• sources of ionising radiation (e.g. x-ray and radiotherapy equipment, industrial sources);
• large petrol storage facilities;
• waste water discharges;
• dumping at sea activities.

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

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

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

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

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

Strategic Environmental Assessment
• Assessing the impact of proposed plans and programmes on the Irish environment (e.g. major development plans).

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

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

Management and structure of the EPA
The EPA is managed by a full time Board, consisting of a Director General and five Directors. The work is carried out across five Offices:
• Office of Environmental Sustainability
• Office of Environmental Enforcement
• Office of Evidence and Assessment
• Office of Radiological Protection
• Office of Communications and Corporate Services
The EPA is assisted by an Advisory Committee of twelve members who meet regularly to discuss issues of concern and provide advice to the Board.
Interim Report on the Biological Survey of River Quality

Results of the 2012 Macroinvertebrate Investigations

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Interim Report on the Biological Survey of River Quality
Results of the 2012 Macroinvertebrate Investigations

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INTRODUCTION.................................................................................................................... 1
2012 INTERIM BIOLOGICAL (MACROINVERTEBRATE) REPORTS ......................... 6
HYDROMETRIC AREA 06 (Newry, Fane, Glyde & Dee: Balance of Survey) ............. 7
HYDROMETRIC AREA 07 (Boyne) .............................................................................. 29
HYDROMETRIC AREA 10 (Avoca - Vartry) ............................................................ 64
HYDROMETRIC AREA 16 (Suir: Balance of Survey) ................................................ 98
HYDROMETRIC AREA 18 (Blackwater (Munster)) ............................................. 110
HYDROMETRIC AREA 20 (Bandon – Ilen) ............................................................ 176
HYDROMETRIC AREA 21 (Dunmanus – Bantry – Kenmare) .............................. 211
HYDROMETRIC AREA 22 (Laune – Maine – Dingle Bay: Balance of Survey) ....... 254
HYDROMETRIC AREA 24 (Shannon Estuary South: Balance of Survey) ............... 273
HYDROMETRIC AREA 25 (Shannon Lower: Balance of Survey) ....................... 284
HYDROMETRIC AREA 28 (Mal Bay) ......................................................................... 345
HYDROMETRIC AREA 29 (Galway Bay South East) ............................................. 368
HYDROMETRIC AREA 30 (Corrib) ........................................................................... 383
HYDROMETRIC AREA 31 (Galway Bay North) .................................................... 429
HYDROMETRIC AREA 32 (Errif – Clew Bay) .......................................................... 449
HYDROMETRIC AREA 33 (Blacksod – Blackhaven: Balance of Survey) ............... 485
HYDROMETRIC AREA 35 (Sligo Bay & Drowse) .................................................... 501
HYDROMETRIC AREA 38 (Gweebarra - Sheephaven) ........................................... 541
ADDITIONAL SURVEYS 2012 .................................................................................. 593
  HYDROMETRIC AREA 13 (Cleristown Stream & Tintern Abbey Stream) .......... 594
  HYDROMETRIC AREA 26 (Jiggy (Hind) & Laurencetown Stream) .................... 597
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 silting (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 1026 survey visits were carried out on 501 rivers and streams in 2012. A total of 12 hydrometric areas were surveyed in full while six hydrometric areas were partially surveyed.

The 2012 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 2012 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/.

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

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

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

References


Principal Hydrometric Areas Surveyed

2012 Surveys
- Northern Irish Boundary
- Surveyed
- Partial Survey
- Not Surveyed
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 06 (Newry, Fane, Glyde &amp; Dee: Balance of Survey)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Partial survey in 2011, Balance of Survey in 2012</strong></td>
</tr>
<tr>
<td>BALLYMASCANLAN 06B02</td>
</tr>
<tr>
<td>CARRICKASLANE LOUGH STREAM * 06C04</td>
</tr>
<tr>
<td>CASTLETOWN 06C01</td>
</tr>
<tr>
<td>COUNTY WATER 06C03</td>
</tr>
<tr>
<td>CULLY WATER 06C02</td>
</tr>
<tr>
<td>DEE 06D01</td>
</tr>
<tr>
<td>DRUMSALLAGH STREAM * 06D07</td>
</tr>
<tr>
<td>FANE 06F01</td>
</tr>
<tr>
<td>GENTLE OWEN'S LAKE STREAM * 06G04</td>
</tr>
<tr>
<td>GLYDE 06G02</td>
</tr>
<tr>
<td>KILCARRY 06K02</td>
</tr>
<tr>
<td>KILLARY WATER 06K01</td>
</tr>
<tr>
<td>KILMAINHAM * 06K04</td>
</tr>
<tr>
<td>MAGHERACLOONE STREAM * 06M01</td>
</tr>
<tr>
<td>PROULES 06P01</td>
</tr>
<tr>
<td>WHITE (LOUTH) 06W01</td>
</tr>
</tbody>
</table>

*CARRICKASLANE LOUGH STREAM Formerly Carrickaslane Lough Branch of Fane River*
*DRUMSALLAGH STREAM Formerly: 06G02 Glyde Drumsallagh Branch*
*GENTLE OWEN’S LAKE STREAM Formerly: 06F01 Fane East Branch*
*KILMAINHAM Formerly 06D01: Dee Kilmainham Wood Branch*
*MAGHERACLOONE STREAM Formerly Magheracloone Branch of the Glyde River 06G02*
River and Code: BALLYMASCANLAN
Tributary of: 06F02 FLURRY
OS Grid Ref of Confluence: J 081 100
Date(s) Surveyed: 6/9/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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</table>

Assessment: The improvement to moderate ecological condition recorded at Jonesborough Bridge in 2009 and 2010 was maintained in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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 (06)

River and Code: CARRICKASLANE LOUGH STREAM 06/C/04
Tributary of: 06F01 FANE OS Catchment No: 94
OS Grid Ref of Confluence: H 815 214
Date(s) Surveyed: 4/9/2012

Formerly Carrickaslane Lough Branch of Fane River

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
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<tbody>
<tr>
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<td>4</td>
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</tbody>
</table>

Assessment: Just upstream of Carrickaslane Lough the stream continues to be of unsatisfactory ecological condition, with no change of status in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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<td>0115</td>
<td>Br u/s Carrickaslane L</td>
<td>280540</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Bogs</th>
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<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Continuing unsatisfactory conditions were observed at Ballybinaby Bridge. At Ford’s Bridge, which was last assessed in 2006, a slight decline from moderate to poor ecological condition was recorded. At the Weir downstream of John’s Bridge, a slight decline from good to moderate ecological condition was recorded, reversing the improvement recorded at this site between 2006 and 2009.
**Assessment:** Good ecological condition was again recorded at County Bridge (0050). At the Bridge upstream of Wallace’s Bridge (0170) the moderate ecological condition recorded in 2009 was maintained in September 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CULLY WATER**  
Tributary of: 06K02 KILCURRY  
OS Grid Ref of Confluence: J 025 109  
Date(s) Surveyed: 6/9/2012  

**Biological Quality Ratings (Q Values)**

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**Assessment:** The macroinvertebrate fauna indicated continuing good ecological conditions on the Cully Water just upstream of the Kilcurry River confluence in September 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Area</th>
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<th>Pasture</th>
<th>Forestry</th>
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Alt is in metres, Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrate fauna indicated unsatisfactory conditions at all sites assessed on the River Dee in September 2012, with the exception of Rockfield Bridge (0360) where satisfactory ecological condition was recorded.
## Hydrometric Area (06)

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<th>Station No.</th>
<th>Stations Location</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **DRUMSALLAGH STREAM**
Tributary of: 06G02 GLYDE
OS Grid Ref of Confluence: N 803 981
Date(s) Surveyed: 2/9/2012, 31/8/2012
OS Catchment No: 95

**Formerly: 06G02 Glyde Drumsallagh Branch**

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**Assessment:** The macroinvertebrate fauna indicated continuing good ecological condition at the upper site west of Drumsallagh (0056). However there has been a very disappointing deterioration in ecological status at County Bridge (0070) from high in 2009 to moderate in September 2012. Cattle access is an issue at this location.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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**Hydrometric Area (06)**

**River and Code:** FANE 06/F/01

**Tributary of:** DUNDALK BAY

**OS Grid Ref of Confluence:** J 064 018

**OS Catchment No:** 94

**Date(s) Surveyed:** 4/9/2012, 6/9/2012, 8/9/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** The Fane River continued to be in generally unsatisfactory ecological condition in its upper section in September 2012, with poor ecological condition recorded at South Bridge at Dunfelimy (0155), Derrycreevy Bridge (0200) and Ballynacarry Bridge (0400). The lower section of the river retained its good ecological condition at Inniskeen Bridge (0650) and at Stephenstown Bridge (0900).
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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 (06)

River and Code: **GENTLE OWEN'S LAKE STREAM**
Tributary of: 06F01 FANE
OS Grid Ref of Confluence: H 829 206
Date(s) Surveyed: 4/9/2012

Formerly: 06F01 Fane East Branch

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Assessment: Ecological condition of Gentle Owen's Lake Stream remains good at the bridge in Creaghanroe (0040) in 2012, while moderate conditions prevail at the bridge downstream of Muckno Mill Lough (0100).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>283430</td>
<td>321440</td>
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<td>MN</td>
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Assessment: Macroinvertebrate fauna indicated a general overall deterioration in the condition of the Glyde since 2009. Despite satisfactory ecological conditions recorded at all sites assessed in 2009, currently only the middle reaches of the river (0400, 0500, 0600) merited good ecological condition in 2012. Disappointingly, the other five sites were downgraded to moderate ecological condition.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Hydrometric Area (06)**

*Site Altitude and Upstream Catchment Characteristics (where available):*

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<th>Alt</th>
<th>Area</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **KILCURRY**

Tributary of : 06C01 CASTLETOWN

OS Grid Ref of Confluence: J 028 098

Date(s) Surveyed: 6/9/2012

**Assessment:**  Macroinvertebrate fauna indicated continuing good ecological conditions in the Kilcurry River in 2012.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 (06)**

River and Code : **KILLARY WATER**  
Tributary of : 06D01 DEE  
OS Grid Ref of Confluence: N 884 760  
Date(s) Surveyed: 31/8/2012

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<tr>
<td>0500</td>
<td>3-4</td>
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</table>

**Assessment:** Ecological condition remains poor and unchanged upstream of the Dee river confluence (0500) in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations</th>
<th>Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KILMAINHAM** 06/K/04
Tributary of: 06D01 DEE
OS Grid Ref of Confluence: N 792 885
Date(s) Surveyed: 31/8/2012

**Formerly 06D01: Dee Kilmainham Wood Branch**

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<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Assessment:** A disappointing decline in ecological condition from good to moderate was recorded at both sites assessed on the Kilmainham in September 2012.
Hydrometric Area (06)

River and Code: MAGHERACLOONE STREAM
Tributary of: 06G02 GLYDE
OS Grid Ref of Confluence: N 803 981
Date(s) Surveyed: 2/9/2012

Formerly Magheracloone Branch of the Glyde River 06G02

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Assessment: Macrónvertebrate fauna indicate continuing good ecological condition in the Magheracloone Stream in 2012.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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Hydrometric Area (06)

River and Code: PROULES 06/P/01
Tributary of: 06G02 GLYDE
OS Grid Ref of Confluence: N 912 993
Date(s) Surveyed: 2/9/2012

Biological Quality Ratings (Q Values)

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Assessment: The Proules River had good ecological status at both sites assessed upstream of Carrickmacross in 2012. Downstream of Carrickmacross (0300) the macroinvertebrate fauna indicated poor ecological status, unchanged since last assessed in 2006. In the lower section of the river, moderate ecological status was recorded at Ballymackey Bridge (0500) and at the bridge near Killanny (0600).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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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 (06)

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:  8/9/2012

### Biological Quality Ratings (Q Values)

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</tbody>
</table>

**Assessment:** Satisfactory ecological conditions were maintained in the upper reaches of the White River (0100) in 2012. However, the lower reaches remain unsatisfactory, downstream of Dunleer Railway Bridge (0400).

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
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.

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<th>Year</th>
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<th>A High</th>
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<th>B Moderate</th>
<th>C Poor</th>
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Total Length (km) surveyed this cycle

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<th>B Moderate</th>
<th>C Poor</th>
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Channel Length (km) in Class

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* 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).

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<th>Number of sites at WFD status</th>
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<th>2010-'12</th>
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<td>Bad</td>
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Total number of sites surveyed

| Total number of sites at unsatisfactory status | 21 | 38 |
Hydrometric Area 06: Trends

% Surveyed Channel in Four Quality Classes

Class A: Unpolluted
Class B: Slightly Polluted
Class C: Moderately Polluted
Class D: Seriously Polluted

Hydrometric Area 06: Trends

% Surveyed Channel Length in Five WFD Quality Classes

High Status: Unpolluted
Good Status: Unpolluted
Moderate Status: Slightly Polluted
Poor Status: Moderately Polluted
Bad Status: Seriously Polluted
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<th>HYDROMETRIC AREA 07 (Boyne)</th>
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<td>BLACKWATER (LONGWOOD)</td>
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<td>CLADY (MEATH)</td>
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<tr>
<td>D'ARCY'S CROSSROADS STREAM *</td>
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<td>07Y01</td>
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<td>YELLOW (CASTLEJORDAN)</td>
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* CROSSKEYS STREAM Formerly Stonyford 07S02 West Branch
* D'ARCY'S CROSSROADS STREAM Formerly Stonyford 07S02 East Branch
* MULLAGH LOUGH STREAM Formerly Mullagh Branch of Moynalty 07M03
River and Code: **ATHBOY**
Tributary of: 07B04 BOYNE
OS Grid Ref of Confluence: N 774 566
Date(s) Surveyed: 19/9/2012, 20/9/2012, 29/8/2012

### Biological Quality Ratings (Q Values)

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<th>Discovery Series</th>
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### Assessment:
The macroinvertebrate fauna indicated that only two (0020, 0100) of the seven stations surveyed on the Athboy River were in a satisfactory good ecological condition in 2012. Enriched conditions were however evident at these two stations with enhanced algal and/or plant growth, excessive siltation, calcification and compaction of the river bed substratum observed. The paucity of sensitive macroinvertebrate taxa and dominance of pollution tolerant taxa indicated moderate ecological conditions near Kilskeer (0050), Johnsbrook (0070), downstream of Athboy (0300), at Tremblestown (0400) and at Kilnagross Bridge (0500) just upstream of its confluence with the Boyne River.

### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Cal</th>
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<th>Forestry</th>
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Alt is 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 (KELLS)**

Tributary of: 07B04 BOYNE

OS Grid Ref of Confluence: N 872 680

Date(s) Surveyed: 10/10/2012, 20/9/2012, 21/9/2012, 26/6/2012, 27/6/2012, 29/8/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** The Blackwater (Kells) River was in a generally unsatisfactory ecological condition at nine of the thirteen stations surveyed in 2012. A slight improvement to moderate ecological condition was noted at station 0170 (Lear Br) downstream of Baileboro. The macroinvertebrate fauna indicated an unwelcome decline from good to moderate ecological conditions at Donaghpattick Bridge (1500) downstream of Kells & the Moynalty River confluence. The dominance of pollution tolerant macroinvertebrate taxa continues to indicate unsatisfactory ecological conditions in the Baileboro area (0170) and downstream (0200, 0280, 0420), downstream of Lough Ramor (1000, 1100, 1200) and downstream of Kells (1500) and at Navan (1790).
### Site Altitude and Upstream Catchment Characteristics (where available):

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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The dominance of pollution tolerant and paucity of pollution sensitive macroinvertebrate taxa indicated unsatisfactory ecological conditions at all sites surveyed on the Blackwater (Longwood) River in September 2012. Enriched conditions were evident with enhanced macrophyte growth noted downstream of Johnstown at Longwood (0300) and in the lower reaches (0600).
**River and Code**: BOYCETOWN

**Tributary of**: 07B04 BOYNE

**OS Grid Ref of Confluence**: N 833 564

**Date(s) Surveyed**: 6/6/2012

**Biological Quality Ratings (Q Values)**

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**Assessment**: The Boycetown River was in an unsatisfactory ecological condition when surveyed in 2012. The complete lack of sensitive macroinvertebrate fauna indicated unsatisfactory poor ecological conditions at Derrypatrick Bridge (0100) and at Boycetown Bridge (0200). Excessive siltation was noted at both stations. Enriched conditions were also evident at Scurlockstown (0300), where the macroinvertebrate fauna indicated unsatisfactory moderate ecological conditions.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
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**Assessment:** The majority of the fifteen stations surveyed on the Boyne River remain in an unsatisfactory ecological condition in 2012. The macroinvertebrate fauna indicated satisfactory ecological conditions at six of the stations examined. An unwelcome decline in ecological condition was noted at three stations. The macroinvertebrate fauna indicated a decline from good to moderate ecological conditions in the upper reaches at Boyne Bridge (0200) and at Scarriff Bridge (0900) and a decline from high to good ecological conditions at Inchamore Bridge (0800). A welcome improvement from moderate to good ecological conditions was noted downstream of Broadboyne Bridge (2010). Unsatisfactory ecological conditions continue downstream of Edenderry (0300), at Ashfield Bridge downstream of the Glash River confluence (0600), downstream of the Blackwater (Longwood) confluence (0900), at Trim and downstream (1200, 1400), at Bective Bridge downstream of the Knightsbrook and Boycetown confluences (1500), Kilcarn Old Bridge, downstream of the Clady and Skane river confluences (1700) and at Obelisk Bridge, upstream of Drogheda (2200).
### Hydrometric Area 07 (2012)

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

Tributary of:  07Y02 YELLOW (CASTLEJORDAN)

OS Grid Ref of Confluence:  N 592 378

Date(s) Surveyed:  13/9/2012, 14/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** The complete lack of sensitive macroinvertebrate fauna, dominance of pollution tolerant species, abundant instream macrophyte growth and excessive siltation indicated unsatisfactory poor ecological conditions in the upper reaches (0040) of the Castlejordan river in September 2012. The dominance of pollution tolerant macroinvertebrate species and abundant macrophyte growth continues to indicate moderate ecological conditions at Baltinoran Bridge (0100). Good ecological conditions persist in the lower reaches (0190) however calcification and compaction of the substratum was noted.

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<td>240809</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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 07 (2012)**

**River and Code**: CHAPEL LAKE STREAM 07/C/05

**Tributary of**: 07B01 BLACKWATER (KELLS)

**OS Grid Ref of Confluence**: N 614 945

**Date(s) Surveyed**: 27/6/2012

**Biological Quality Ratings (Q Values)**

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<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
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</table>

**Assessment**: The macroinvertebrate fauna indicated high ecological conditions in the lower reaches (0700) of the Chapel lake stream in June 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CLADY (MEATH)**
Tributary of: 07B04 BOYNE
OS Grid Ref of Confluence: N 858 609
Date(s) Surveyed: 12/6/2012

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</table>

**Assessment:** The dominance of pollution tolerant macroinvertebrate taxa and complete lack of pollution sensitive taxa indicated poor ecological conditions on the Clady (Meath) River in June 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Dunderry Br</td>
<td>281225</td>
<td>262610</td>
<td>42</td>
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<td>0200</td>
<td>Br nr Ballybrigh Ho</td>
<td>284033</td>
<td>260265</td>
<td>42</td>
<td>MH</td>
</tr>
<tr>
<td>0300</td>
<td>Br u/s Boyne R confl</td>
<td>285600</td>
<td>260800</td>
<td>42</td>
<td>MH</td>
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Hydrometric Area 07 (2012)

River and Code: CROSS WATER 07/C/02
Tributary of: 07B01 BLACKWATER (KELLS)
OS Grid Ref of Confluence: N 617 665
Date(s) Surveyed: 29/8/2012

OS Catchment No: 159

Biological Quality Ratings (Q Values)

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<tbody>
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</tbody>
</table>

Assessment: The dominance of pollution tolerant macroinvertebrate fauna, excessive instream siltation and enhanced algal growth indicated unsatisfactory moderate ecological conditions on the lower reaches of the Cross Water River in August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>Br u/s Blackwater (Kells) rv conflu</td>
<td>263644</td>
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<td>35</td>
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</tbody>
</table>
River and Code: **CROSSKEYS STREAM**
Tributary of: 07S02 STONYFORD
OS Grid Ref of Confluence:
Date(s) Surveyed: 6/9/2012

**Formerly Stonyford 07S02 West Branch**

<table>
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<tr>
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<tr>
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<tr>
<td>0055</td>
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<td>4</td>
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</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** The paucity of pollution sensitive macroinvertebrate taxa indicated unsatisfactory moderate ecological conditions at Graulty's Bridge (0055) on the Crosskeys Stream in September 2012. Enriched conditions were observed with abundant macrophyte and algal growth and excessive siltation of the instream substratum noted.
**Formerly Stonyford 07S02 East Branch**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>270330</td>
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<tr>
<td>0030</td>
<td>Snipe's Br</td>
<td>262370</td>
<td>267300</td>
<td>42</td>
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</tr>
</tbody>
</table>

**Assessment:** The complete lack of pollution sensitive macroinvertebrate species, abundant instream macrophyte growth and excessive instream siltation indicated poor ecological conditions at Snipe Bridge (0030) in September 2012.

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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</table>
Assessment: The Deel (Raharney) River was in an unsatisfactory ecological condition at five of the six stations surveyed in 2012. The macroinvertebrate fauna indicated satisfactory ecological conditions near Mabestown (0070) and just upstream of the Boyne River confluence (0600) however signs of enrichment were evident with abundant algal & plant growth. The lack of sensitive macroinvertebrate fauna and dominance of pollution tolerant taxa, abundant plant and or algal growth coupled with compaction and calcification of the substratum and excessive siltation indicated moderate ecological conditions at the remaining five stations.

<table>
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</table>

Site and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tr>
</tbody>
</table>

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 07 (2012)

River and Code: **DEVLIN'S**
Tributary of: 07M01 MATTOCK
OS Grid Ref of Confluence: O 001 763
Date(s) Surveyed: 13/6/2012

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</tbody>
</table>

**Biological Quality Ratings (Q Values)**

Assessment: The macroinvertebrate fauna indicated a slight improvement in the upper reaches (0140) of the Devlins River in June 2012 however unsatisfactory moderate ecological conditions persist. The macroinvertebrate fauna indicated good ecological conditions in the lower reaches however signs of some enrichment were still evident with excessive siltation and the presence of algae noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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<tbody>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : GLASH 07/G/02
Tributary of : 07B04 BOYNE
OS Grid Ref of Confluence:  N 667 423
OS Catchment No:  159
Date(s) Surveyed:  4/9/2012, 14/8/2012, 15/8/2012

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</tbody>
</table>

**Assessment:** The dominance of pollution tolerant macroinvertebrate taxa, complete lack of pollution sensitive taxa and excessive instream siltation continues to indicate unsatisfactory poor ecological conditions at all stations surveyed on the Glash River in 2012. Excessive peat siltation of the instream substratum was noted in particular near Calfstown (0200) and at Clonuff Bridge (0400).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tr>
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</tr>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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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 07 (2012)**

**River and Code**: KINNEGAD

**Tributary of**: 07B04 BOYNE

**OS Grid Ref of Confluence**: N 678 446

**Date(s) Surveyed**: 13/9/2012, 14/9/2012

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment**: The dominance of pollution tolerant macroinvertebrate fauna and paucity of sensitive species indicated moderate ecological conditions at three of the four stations surveyed on the Kinnegad River in 2012. Enriched conditions were evident with luxuriant instream plant growth observed. The macroinvertebrate fauna indicated good ecological conditions at Clonard Bridge (0300) although abundant plant growth was also noted.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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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 07 (2012)**

**River and Code**: KNIGHTSBROOK

**Tributary of**: 07B04 BOYNE

**OS Grid Ref of Confluence**: N 829 564

**Date(s) Surveyed**: 12/6/2012, 20/9/2012

**Biological Quality Ratings (Q Values)**

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<td>3-4</td>
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</tr>
<tr>
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<td>4</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
<td>-</td>
<td>3</td>
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</tbody>
</table>

**Assessment**: The dominance of pollution tolerant macroinvertebrate fauna indicated poor ecological conditions at Dangan Bridge (0300) and upstream of the Boyne River confluence (0500), excessive siltation and abundant algal growth was also observed. The macroinvertebrate fauna indicated good ecological conditions near Laracor (0400).

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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 07 (2012)

River and Code: **LISLEA**
Tributary of: 
OS Grid Ref of Confluence: N 622 862
Date(s) Surveyed: 29/8/2012

<table>
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<tbody>
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</tbody>
</table>

Assessment: Continuing satisfactory in 2012, although some signs of enrichment were evident with enhanced macroalgal growth noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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</table>

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 07 (2012)**

River and Code: MATTOCK 07/M/01

Tributary of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of Confluence: O 037 757

Date(s) Surveyed: 13/6/2012

Biological Quality Ratings (Q Values)

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</tbody>
</table>

**Assessment:** Satisfactory ecological conditions were noted at three of the five sites surveyed on the Mattock River in June 2012. The high diversity of pollution sensitive macroinvertebrate taxa indicated high ecological conditions in the upper reaches at Phoenixtown Bridge (0020) while good ecological conditions persist at Boyd's Bridge (0100) however excessive siltation was evident. Unsatisfactory moderate ecological conditions were noted at Collon (0050) and at Woodmill Bridge (0200). Good ecological conditions were noted in the lower reaches just downstream of the Devlin’s river confluence (0220) however signs of enrichment were evident with excessive siltation and algal growth noted.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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</table>

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 07 (2012)

River and Code: MILLTOWNPASS
Tributary of: 07C04 CASTLEJORDAN
OS Grid Ref of Confluence: N 530 420
Date(s) Surveyed: 13/9/2012

OS Catchment No: 159

Biological Quality Ratings (Q Values)

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</tbody>
</table>

Assessment: The complete lack of pollution sensitive macroinvertebrate taxa and dominance of pollution tolerant taxa indicated poor ecological conditions in Milltownpass (0400) in September 2012.

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
<thead>
<tr>
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<td>243724</td>
<td>48</td>
<td>MH</td>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>84</td>
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<td>0</td>
<td>100</td>
<td>93</td>
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<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Moynalty River was in an unsatisfactory ecological condition when surveyed in 2012. Good ecological conditions persist in the upper reaches (0070) however some signs of enrichment were evident with enhanced macrophyte and algal growth. The paucity of sensitive macroinvertebrate fauna continues to indicate moderate ecological conditions at Mullagh Bridge (0300). The complete lack of any sensitive macroinvertebrate species coupled with dominance of pollution tolerant leeches and worms indicated a significant decline to poor ecological conditions at Moynalty Bridge (0600), Carlanstown Bridge (0800) and at Fyanstown Bridge (0900).
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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<td>91</td>
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<td>5</td>
</tr>
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<td>93</td>
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<td>1</td>
<td>3</td>
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<tr>
<td>0800</td>
<td>57</td>
<td>121</td>
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<td>0900</td>
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<td>0</td>
<td>14</td>
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</tr>
</tbody>
</table>

Alt is in metres, Area is km² and Sil, Cal are % siliceous and calcareous bedrock. Pasture, Forestry, etc., are % of catchment area.
River and Code: **MULLAGH LOUGH STREAM** 07/M/06
Tributary of: 07M03 MOYNALTY
OS Grid Ref of Confluence: N 710 840
Date(s) Surveyed: 30/8/2012

_Formerly Mullagh Branch of Moynalty 07M03_

<table>
<thead>
<tr>
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</table>

**Assessment:** The lack of sensitive macroinvertebrate taxa indicated continuing unsatisfactory moderate ecological conditions on the lower reaches of Mullagh Lough Stream in August 2012. Excessive siltation of the instream river bed was also noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
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<td>MH</td>
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_**Site Altitude and Upstream Catchment Characteristics (where available):**_

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
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<tr>
<td>0400</td>
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<td>3</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** The macroinvertebrate fauna indicated good ecological conditions at the two stations surveyed on the Nadreegeel Lough Stream in June 2012 however some signs of enrichment were evident with excessive siltation noted at both stations.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0100</td>
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<td>87</td>
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<td>1</td>
<td>0</td>
<td>9</td>
<td>1</td>
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</tbody>
</table>

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 07 (2012)

River and Code: **RIVERSTOWN**  
Tributary of: 07D01 DEEL (RAHARNEY)  
OS Grid Ref of Confluence: N 607 515  
Date(s) Surveyed: 5/9/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<td>0090</td>
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<td>0100</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The dominance of pollution tolerant macroinvertebrate taxa continues to indicate unsatisfactory ecological conditions at the two stations surveyed on the Riverstown stream in September 2012. Signs of enrichment were evident with enhanced instream plant growth and excessive siltation observed.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>WH</td>
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<td>250360</td>
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<td>0100</td>
<td>Riverstown Br</td>
<td>259120</td>
<td>250823</td>
<td>42</td>
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<td>0200</td>
<td>Br u/s Deel R confl</td>
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<td>250609</td>
<td>42</td>
<td>MH</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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<td>71</td>
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</tbody>
</table>

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 07 (2012)

River and Code: ROCHFORTBRIDGE STREAM 07/R/04
Tributary of: 07C04 CASTLEJORDAN OS Catchment No: 159
OS Grid Ref of Confluence: N 470 404
Date(s) Surveyed: 13/9/2012

Biological Quality Ratings (Q Values)

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<tbody>
<tr>
<td>0300</td>
<td>3</td>
<td>4</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
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</tbody>
</table>

Assessment: The paucity of pollution sensitive macroinvertebrate taxa indicated moderate ecological conditions on the Rochfortbridge Stream in September 2012.

Station No. Stations Location National X Grid Ref. Y Discovery Series No. County Code
0300 Br SE of Derry 246414 241558 48 MH

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>81</td>
<td>15</td>
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<td>100</td>
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</tbody>
</table>

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 07 (2012)

River and Code : SKANE
Tributary of : 07B04 BOYNE
OS Grid Ref of Confluence : N 871 613
Date(s) Surveyed: 12/6/2012

Biological Quality Ratings (Q Values)

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<td>3-4</td>
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</tr>
</tbody>
</table>

Assessment: The macroinvertebrate communities at all three stations surveyed on the River Skane indicated continuing unsatisfactory ecological conditions in June 2012. Poor ecological conditions persist in the upper reaches at Athronan Bridge (0300) while a slight improvement to moderate ecological conditions was noted downstream of Kilnessan (0510) and at Dowdstown Bridge (0600).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

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 07 (2012)

River and Code: STONYFORD
Tributary of: 07B04 BOYNE
OS Grid Ref of Confluence: N 737 531
Date(s) Surveyed: 6/9/2012, 7/9/2012, 30/8/2012

Biological Quality Ratings (Q Values)

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</tbody>
</table>

Assessment: The Stonyford River was in an unsatisfactory ecological condition at three of the four stations surveyed in 2012. Good ecological conditions persist in the upper reaches (0065) however signs of enrichment were evident with enhanced algal growth noted. The paucity of pollution sensitive macroinvertebrate fauna indicated moderate ecological conditions in the lower reaches (0075, 0100, 0400). Enriched conditions were evident at all stations with excessive siltation and enhanced macrophyte and or algal growth observed.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
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<td>149</td>
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<td>100</td>
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<td>9</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is 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 (BLACKWATER) 07/Y/01
Tributary of: 07B01 BLACKWATER (KELLS) OS Catchment No: 159
OS Grid Ref of Confluence: N 834 710
Date(s) Surveyed: 27/9/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<tbody>
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</tr>
</tbody>
</table>

Assessment: The absence of pollution sensitive macroinvertebrate taxa indicated continuing unsatisfactory ecological conditions on the lower reaches (1100) of the Yellow (Blackwater) River in September 2012.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>0900</td>
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<td>284400</td>
<td>274600</td>
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<td>MH</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>1</td>
<td>49</td>
<td>1</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Yellow (Castlejordan) River was in a satisfactory ecological condition in the upper (0070) and lower reaches (0300) in September 2012, however the dominance of pollution tolerant macroinvertebrate species indicated continuing unsatisfactory ecological conditions at Garr Bridge (0100).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
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<td>0060</td>
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<td>236210</td>
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<td>OF</td>
</tr>
<tr>
<td>0070</td>
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<td>OF</td>
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<tr>
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<td>Garr Br</td>
<td>253177</td>
<td>236902</td>
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<tr>
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<td>Sheep Br</td>
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<td>0</td>
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<td>OF</td>
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<td>0300</td>
<td>Clongall Br</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
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<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<tr>
<td>0100</td>
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<td>0300</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
ERBD: HYDROMETRIC AREA NO. 07

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>WFD Quality Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athboy</td>
<td>2012</td>
<td>07A01</td>
<td>0.0</td>
<td>15.1</td>
<td>14.9</td>
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<tr>
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<tr>
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<td>07B02</td>
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<td>Boyne</td>
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<tr>
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<td>Drumkeery Lough Stream</td>
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<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Total Length (km) surveyed this cycle: 6.5 172.3 223.2 93.1 0.0 495.0
Adjustments (See below)*: 6.0 0.0 8.5 4.0 0.0 18.5

Current Length (km) Adjusted

<table>
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<th>172.3</th>
<th>214.7</th>
<th>89.1</th>
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<td>100.0</td>
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</tbody>
</table>

Channel Length (km) in Class

Baseline: Current Adjusted Status (km) 2012

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Percentages</td>
<td>36.3</td>
<td>45.0</td>
<td>18.7</td>
<td>0.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Baseline: Previous Unadjusted Status (km)** 2007-09

|                      | 15.8      | 188.5   | 207.0   | 65.3    | 0.0     | 476.5  |
| Percentages          | 3.3       | 39.5    | 43.4    | 13.7    | 0.0     | 100.0  |

Changes since Previous Survey (km)

|                      | -15.3     | -16.2   | -7.7    | 23.8    | 0.0     | 0.0    |

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Chapel Lake Stream 07C05), Cross Water (07C02), Milltownpass Stream (07M04) and Rochfortbridge Stream (07R04) added into the programme in 2012.

**Clabby et al., 2008

1 Rivers not previously included in the National Statistics

62
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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
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</thead>
<tbody>
<tr>
<td>High</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Good</td>
<td>24</td>
<td>26</td>
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<tr>
<td>Moderate</td>
<td>42</td>
<td>50</td>
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<td>Poor</td>
<td>13</td>
<td>22</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Total number of sites surveyed: 80 (2007-'09) & 100 (2010-'12)
Total number of sites at unsatisfactory status: 55 (2007-'09) & 72 (2010-'12)
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 10 (Avoca - Vartry)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASKANAGAP STREAM 10A06</td>
</tr>
<tr>
<td>AUGHRIM (WICKLOW) 10A02</td>
</tr>
<tr>
<td>AVOCA 10A03</td>
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<td>AVONBEG 10A04</td>
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<td>AVONMORE 10A05</td>
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<tr>
<td>BALLYCREEN BROOK 10B02</td>
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<tr>
<td>BALLYDUFF STREAM (WICKLOW) 10B01</td>
</tr>
<tr>
<td>BALLYMACAHARA 10B98</td>
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<tr>
<td>CARRICKMINES STREAM * 10C04</td>
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<td>CLOGHOGE BROOK 10C01</td>
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<td>COOLALUG STREAM 10C02</td>
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<td>DERRY WATER 10D02</td>
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<td>GLENDASAN 10G06</td>
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<td>GOLD MINE 10G04</td>
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<tr>
<td>KILL OF THE GRANGE STREAM 10K02</td>
</tr>
<tr>
<td>KILMACANOGE 10K03</td>
</tr>
<tr>
<td>NEWCASTLE (WICKLOW) 10N01</td>
</tr>
<tr>
<td>NEWTOWNMOUNTKENNEDY 10N02</td>
</tr>
<tr>
<td>OW 10O01</td>
</tr>
<tr>
<td>POTTER'S 10P01</td>
</tr>
<tr>
<td>RATHNEW STREAM 10R02</td>
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<td>REDCROSS 10R01</td>
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<tr>
<td>SHANGANAGH 10S01</td>
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<tr>
<td>TEMPLERAINY STREAM 10T04</td>
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<tr>
<td>THREE MILE WATER 10T01</td>
</tr>
<tr>
<td>VARTRY 10V01</td>
</tr>
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* CARRICKMINES STREAM Previously reported as Shanganagh, Carrickmines Branch
Hydrometric Area 10 (2012)

River and Code: **ASKANAGAP STREAM**
Tributary of: 10D02 DERRY WATER
OS Grid Ref of Confluence: T 057 766
Date(s) Surveyed: 5/7/2012

OS Catchment No: 171

Biological Quality Ratings (Q Values)

<table>
<thead>
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<tbody>
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Assessment: Continuing high ecological conditions upstream of the Derry River confluence (0400) in 2012.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tr>
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<td>Br u/s Derry R confl</td>
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<td>WW</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
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<tr>
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<td>0</td>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: AUGHRIM (WICKLOW)

Tributary of: 10A03 AVOCA

OS Grid Ref of Confluence: T 196 768

Date(s) Surveyed: 9/10/2012

Hydrometric Area 10 (2012)

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</table>

Assessment: The macroinvertebrate fauna indicated good ecological conditions at Coat’s Bridge (0200) in October 2012 although some filamentous algal growth and siltation was noted. The paucity of sensitive macroinvertebrate species and enhanced algal growth indicated unsatisfactory moderate ecological conditions at Woodenbridge (0400).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>Coat's Br</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: AVOCA
Tributary of: OS Catchment No: 171
OS Grid Ref of Confluence: T 256 729
Date(s) Surveyed: 9/10/2012

Biological Quality Ratings (Q Values)

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</table>

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 October 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>30</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** Satisfactory ecological conditions were evident at three of the four stations surveyed in October 2012. The macroinvertebrate fauna and enhanced algal growth indicated an unwelcome decline from high to good ecological condition in the upper reaches at Barravore (0100) while the macroinvertebrate fauna indicated high ecological conditions at Drumgoff Bridge (0400). The paucity of pollution sensitive macroinvertebrate fauna continues to indicate unsatisfactory moderate ecological conditions at Greenane Bridge (0600). A welcome improvement to good ecological condition was noted in the lower reaches at the Meetings Bridge (0800).
Assessment: The Avonmore River was in a highly satisfactory ecological condition in October 2012. The dominance and diversity of sensitive macroinvertebrate fauna indicated high ecological conditions at six of the seven stations surveyed. Good ecological conditions continue in the lower reaches at Lion's Bridge (0500).
Hydrometric Area 10 (2012)

River and Code: BALLYCREEN BROOK
Tributary of: 10A02 AUGHRIM (WICKLOW)
OS Grid Ref of Confluence: T 130 796
Date(s) Surveyed: 4/7/2012

OS Catchment No: 171

Biological Quality Ratings (Q Values)

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<tbody>
<tr>
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<td>4-5</td>
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<tr>
<td>0700</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4</td>
<td>3-4</td>
<td>4-5</td>
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</tbody>
</table>

Assessment: The Ballycreen Brook was in a satisfactory ecological condition when surveyed in early July 2012. The macroinvertebrate fauna indicated a welcome improvement to high ecological conditions at Tinnakilly Bridge (0700) however excessive siltation and compaction of the river bed was evident.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>Tinnakilly Br</td>
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<td>179756</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLYDUFF STREAM (WICKLOW)** 10/B/01
Tributary of: 10A03 AVOCA
OS Grid Ref of Confluence: T 224 748
Date(s) Surveyed: 24/5/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<tbody>
<tr>
<td>0200</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The complete lack of sensitive macroinvertebrate fauna and dominance of pollution tolerant species indicated an unsatisfactory decline to poor ecological conditions at Ballyduff Bridge (0200) in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>322229</td>
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<td>WW</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLYMACAHARA**

Tributary of: 10V01 VARTRY

OS Grid Ref of Confluence: O271 971

Date(s) Surveyed: 30/5/2012

**10/B/98**

OS Catchment No: 170

<table>
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</table>

**Assessment:** The macroinvertebrate fauna indicated good ecological conditions on the Ballymacahara Stream in May 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Hydrometric Area 10 (2012)**

River and Code: **CARRICKMINES STREAM** 10/C/04
Tributary of: 10S01 SHANGANAGH
OS Grid Ref of Confluence: O 245 230
Date(s) Surveyed: 11/6/2012

*Previously reported as Shanganagh, Carrickmines Branch*

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment:** Unsatisfactory moderate ecological conditions continue on the Carrickmines Stream in June 2012.

**Station Stations Location**

<table>
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<tr>
<th>No.</th>
<th>Station</th>
<th>National X</th>
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<th>Discovery Series No.</th>
<th>County Code</th>
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<td>50</td>
<td>DN</td>
</tr>
<tr>
<td>0400</td>
<td>Br at Loughlinstown</td>
<td>324614</td>
<td>223251</td>
<td>50</td>
<td>DN</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>16</td>
<td>32</td>
<td>100</td>
<td>0</td>
<td>30</td>
<td>7</td>
<td>1</td>
<td>32</td>
<td>22</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: CLOGHOGE BROOK 10/C/01
Tributary of: 10A05 AVONMORE
OS Grid Ref of Confluence: O 161 059
Date(s) Surveyed: 23/10/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Continuing high ecological conditions on the Cloghoge Brook (0100) in October 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>220</td>
<td>11</td>
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<td>0</td>
<td>0</td>
<td>96</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **COOLALUG STREAM**
Tributary of : 10D02 DERRY WATER
OS Grid Ref of Confluence: T 070 747
Date(s) Surveyed: 5/7/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0280</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>3/0</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0500</td>
<td>3-4</td>
<td>3-4</td>
<td>4-5</td>
<td>3*</td>
<td>4</td>
<td>3-4</td>
<td>4*</td>
<td>4*</td>
</tr>
</tbody>
</table>

**Assessment:** The Coolalug Stream was in a satisfactory ecological condition at the two stations surveyed in July 2012. The macroinvertebrate fauna indicated high ecological conditions in the upper reaches at Toberpatrick Bridge (0280) although some signs of enrichment were evident with algal growth and excessive siltation noted. Excessive siltation of the riverbed substratum was more pronounced at the downstream station (0500) and dissolved oxygen (119% saturation) was elevated.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0280</td>
<td>Toberpatrick Br</td>
<td>308074</td>
<td>172505</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0300</td>
<td>Coolalug Br</td>
<td>307571</td>
<td>172974</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0500</td>
<td>Br d/s Killaveny Br</td>
<td>307456</td>
<td>174944</td>
<td>62</td>
<td>WW</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0280</td>
<td>N/A</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>0300</td>
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<td>12</td>
<td>100</td>
<td>0</td>
<td>46</td>
<td>19</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>30</td>
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<tr>
<td>0500</td>
<td>82</td>
<td>20</td>
<td>100</td>
<td>0</td>
<td>49</td>
<td>11</td>
<td>1</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>28</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** The Dargle River was in a satisfactory ecological condition at all three stations surveyed in June 2012. The macroinvertebrate fauna indicated an unwelcome decline from high to good ecological conditions at Ballinagee Bridge (0010) where excessive siltation of the river bed was noted. Good ecological conditions persist at Dargle Bridge (0100). Major flood relief works had commenced at Rivervale therefore the biological sampling station was moved downstream to the upstream end of the People’s Park in 2012. The dominance of pollution sensitive macroinvertebrate fauna indicated good ecological conditions at this location in mid June 2012.
River and Code: **DERRY WATER**

Tributary of: 10A02 AUGHRIM (WICKLOW)

OS Grid Ref of Confluence: T 118 788

Date(s) Surveyed: 4/7/2012, 5/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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</thead>
<tbody>
<tr>
<td>0300</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>5</td>
</tr>
<tr>
<td>0600</td>
<td>5</td>
</tr>
<tr>
<td>0800</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The Derry water was in a satisfactory ecological condition in July 2012. The macroinvertebrate fauna indicated an unwelcome decline from high to good ecological conditions near Moyne (0300) while high ecological conditions persist downstream at Ballinglen Bridge (0600). The macroinvertebrate fauna indicated a satisfactory improvement to good ecological conditions at Annacurragh Bridge (0800) however signs of enrichment were still evident with luxuriant instream plant growth.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Br NW of Moyne</td>
<td>303136</td>
<td>180247</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0400</td>
<td>Sandy Ford</td>
<td>0</td>
<td>0</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0600</td>
<td>Ballinglen Br</td>
<td>306598</td>
<td>175861</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0800</td>
<td>Annacurragh Br</td>
<td>310876</td>
<td>177853</td>
<td>62</td>
<td>WW</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>157</td>
<td>12</td>
<td>100</td>
<td>0</td>
<td>39</td>
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<td>35</td>
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<td>0</td>
<td>0</td>
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<td>0600</td>
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<td>100</td>
<td>0</td>
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<td>0</td>
<td>12</td>
</tr>
<tr>
<td>0800</td>
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<td>17</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrate fauna indicated a welcome improvement from moderate to good ecological conditions on the Glencree River at Onagh Bridge (0200) in 2012.
River and Code: **GLENCULLEN**
Tributary of: 10D01 DARGLE
OS Grid Ref of Confluence: O 246 174
Date(s) Surveyed: 14/6/2012, 19/6/2012

**Tributary:** 10D01 DARGLE

**OS Catchment No:** 169

**Date(s) Surveyed:** 14/6/2012, 19/6/2012

**Assessment:** The Glencullen River was in a satisfactory ecological condition at all four stations surveyed in June 2012. The dominance of pollution sensitive macroinvertebrate species indicated a welcome return to high ecological conditions at Boranaraltry Bridge (0050) however signs of some enrichment were still evident with continuing filamentous algal growth noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Station Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Boranaraltry Bridge</td>
<td>316866</td>
<td>220605</td>
<td>50</td>
<td>DN</td>
</tr>
<tr>
<td>0100</td>
<td>Glencullen Br</td>
<td>319222</td>
<td>219343</td>
<td>56</td>
<td>WW</td>
</tr>
<tr>
<td>0300</td>
<td>2km u/s Knocksink Br (Nat. Env. Centre)</td>
<td>321877</td>
<td>217913</td>
<td>56</td>
<td>WW</td>
</tr>
<tr>
<td>0400</td>
<td>1.5km d/s Enniskerry Br</td>
<td>0</td>
<td>0</td>
<td>56</td>
<td>WW</td>
</tr>
<tr>
<td>0500</td>
<td>Just u/s Dargle R confl</td>
<td>324264</td>
<td>217183</td>
<td>56</td>
<td>WW</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>189</td>
<td>15</td>
<td>100</td>
<td>0</td>
<td>4</td>
<td>10</td>
<td>47</td>
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<td>7</td>
<td>0</td>
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<td>0300</td>
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<td>100</td>
<td>0</td>
<td>17</td>
<td>11</td>
<td>33</td>
<td>2</td>
<td>11</td>
<td>0</td>
<td>27</td>
</tr>
<tr>
<td>0500</td>
<td>19</td>
<td>26</td>
<td>100</td>
<td>0</td>
<td>22</td>
<td>11</td>
<td>27</td>
<td>7</td>
<td>13</td>
<td>0</td>
<td>22</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENDASAN**
Tributary of: 10G05 GLENEALO
OS Grid Ref of Confluence: T 124 963
Date(s) Surveyed: 11/10/2012, 23/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>3</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0150</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>5</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The Glendasan River was in a satisfactory ecological condition in October 2012. Although there was a low diversity of macroinvertebrate species, the dominance of pollution sensitive species indicated highly satisfactory ecological conditions in the upper reaches (0100). Good ecological conditions persist in the lower reaches (0200).

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>280</td>
<td>10</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>94</td>
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<td>0</td>
<td>0</td>
<td>6</td>
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<td>8</td>
<td>85</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The upper reaches of the Glenealo River (0100) continues to indicate high ecological conditions in October 2012. The paucity of pollution sensitive macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions downstream of the upper lake (0200) in Glendalough. The macroinvertebrate fauna indicated an unwelcome decline from high to good ecological conditions in the lower reaches (0400).
Assessment: The paucity of pollution sensitive macroinvertebrate fauna indicated an unwelcome decline from good to moderate ecological conditions at the upper station (0190) and from high to good ecological conditions in the lower reaches (0600) of the Glenmacnass River in October 2012.
**Hydrometric Area 10 (2012)**

River and Code : **GOLD MINE**

Tributary of : 10A02 AUGHRIM (WICKLOW)

OS Grid Ref of Confluence: T 190 770

Date(s) Surveyed: 5/7/2012

**OS Catchment No:** 171

### Biological Quality Ratings (Q Values)

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<th></th>
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<tbody>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>0500</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>3</td>
<td>3-4</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Good ecological conditions persist on the Goldmine River in July 2012. Excessive siltation of the river bed was noted.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Agric Br u/s confl with Main Chan</td>
<td>318119</td>
<td>176145</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0290</td>
<td>u/s Clonwilliam Branch</td>
<td>318178</td>
<td>176145</td>
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<td>WW</td>
</tr>
<tr>
<td>0500</td>
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<td>WW</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0050</td>
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<td>8</td>
<td>100</td>
<td>0</td>
<td>54</td>
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<td>8</td>
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<td>8</td>
<td>0</td>
<td>11</td>
</tr>
<tr>
<td>0500</td>
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<td>100</td>
<td>0</td>
<td>52</td>
<td>16</td>
<td>5</td>
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<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 10 (2012)**

River and Code: **KILL OF THE GRANGE STREAM** 10/K/02

Tributary of: OS Catchment No: x1

OS Grid Ref of Confluence: O 237 260

Date(s) Surveyed: 11/6/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
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<td>1-2</td>
<td>1-2</td>
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</tr>
<tr>
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<td>2-3</td>
<td>2-3</td>
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<td>-</td>
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</tr>
<tr>
<td>0500</td>
<td>2</td>
<td>2</td>
<td>2-3</td>
<td>3</td>
<td>3</td>
<td>2-3</td>
<td>3/0</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Assessment:** Poor ecological conditions persist at the two stations (0200, 0500) surveyed on the Kill of the Grange Stream in 2012. Sewage discharges are the suspected source of pollution.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Nr Kill Lane National Sch</td>
<td>322677</td>
<td>226782</td>
<td>50</td>
<td>DN</td>
</tr>
<tr>
<td>0200</td>
<td>Footbridge Meadowvale</td>
<td>323150</td>
<td>226070</td>
<td>50</td>
<td>DN</td>
</tr>
<tr>
<td>0280</td>
<td>Br on Johnstown Rd</td>
<td>323602</td>
<td>225497</td>
<td>50</td>
<td>DN</td>
</tr>
<tr>
<td>0500</td>
<td>Killiney Hill Rd Br</td>
<td>325548</td>
<td>223298</td>
<td>50</td>
<td>DN</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>37</td>
<td>0</td>
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</tr>
<tr>
<td>0280</td>
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<td>100</td>
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<td>0</td>
<td>100</td>
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<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The paucity of pollution sensitive macroinvertebrate species and continued dominance of pollution tolerant macroinvertebrates continues to indicate unsatisfactory moderate ecological conditions at the two stations surveyed on the Kilmacanoge Stream in June 2012.
Hydrometric Area 10 (2012)

River and Code: **NEWCASTLE (WICKLOW)**
Tributary of: OS Catchment No: y1
OS Grid Ref of Confluence: O 317 032
Date(s) Surveyed: 30/5/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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</thead>
<tbody>
<tr>
<td>0400</td>
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</tr>
<tr>
<td>0600</td>
<td>3</td>
</tr>
</tbody>
</table>

**Assessment:** The increased diversity of macroinvertebrate fauna indicated a satisfactory improvement to good ecological conditions on the Newcastle stream (0600) although luxuriant algal growth continues to indicate some enrichment.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>Br S of Bloomfield</td>
<td>329088</td>
<td>204028</td>
<td>56</td>
<td>WW</td>
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<tr>
<td>0600</td>
<td>0.5km d/s Newcastle Br</td>
<td>330370</td>
<td>204111</td>
<td>56</td>
<td>WW</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>25</td>
<td>13</td>
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<td>0</td>
<td>60</td>
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<td>0</td>
<td>13</td>
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<tr>
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<td>15</td>
<td>100</td>
<td>0</td>
<td>60</td>
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<td>2</td>
<td>0</td>
<td>21</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Newtownmountkennedy Stream remains in a satisfactory ecological condition in the upper reaches (0100, 0150, 0400) in 2012. The dominance of pollution sensitive macroinvertebrate fauna indicated high ecological conditions near Hermitage (0100) while good ecological conditions were evident at Cooladoyle (0150) and in Newtownmountkennedy (0400). Some signs of enrichment were evident with excessive siltation and some algal growth noted at both stations. Although macroinvertebrate diversity has improved in the lower reaches, the continued dominance of pollution tolerant macroinvertebrate species indicates unsatisfactory moderate ecological conditions downstream of Newtownmountkennedy village (0500, 0600).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 10 (2012)**

River and Code: **OW**

Tributary of: 10A02 AUGHRIM (WICKLOW)

OS Grid Ref of Confluence: T 118 788

Date(s) Surveyed: 4/7/2012

<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td>3-4</td>
</tr>
<tr>
<td>0300</td>
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<td>5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
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<tr>
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<td>4</td>
<td>4</td>
<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The lack of sensitive macroinvertebrate species and abundant filamentous algal growth continues to indicate unsatisfactory moderate ecological conditions at Aghavannagh Bridge (0100) on the River Ow in July 2012. The macroinvertebrate fauna indicated good ecological conditions at Ballymanus Bridge (0300) and Roddenagh Bridge (0400) although enhanced algal growth was noted at Ballymanus Bridge.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Aghavannagh Br</td>
<td>305566</td>
<td>186103</td>
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<tr>
<td>0300</td>
<td>Ballymanus Br</td>
<td>309307</td>
<td>181515</td>
<td>62</td>
<td>WW</td>
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<td>0400</td>
<td>Roddenagh Br</td>
<td>311673</td>
<td>179166</td>
<td>62</td>
<td>WW</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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<td>21</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: POTTER'S 10/P/01
Tributary of: OS Catchment No: 173
OS Grid Ref of Confluence: T 319 847
Date(s) Surveyed: 3/7/2012

Biological Quality Ratings (Q Values)

<table>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
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<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4*</td>
<td>4</td>
<td>3*</td>
<td>3-4*</td>
</tr>
<tr>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0500</td>
<td>4</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: A welcome improvement was noted at both stations on the Potter's River in July 2012. The macroinvertebrate fauna indicated unsatisfactory moderate ecological conditions in the upper reaches at Kilboy Bridge (0300) while good ecological conditions were evident at Castletimon Bridge (0500).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Kilboy Br</td>
<td>326892</td>
<td>187590</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0400</td>
<td>Kilbride Br</td>
<td>0</td>
<td>0</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0500</td>
<td>Castletimon Br</td>
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<td>185202</td>
<td>62</td>
<td>WW</td>
</tr>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>29</td>
<td>25</td>
<td>100</td>
<td>0</td>
<td>60</td>
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<td>17</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>0500</td>
<td>14</td>
<td>39</td>
<td>100</td>
<td>0</td>
<td>61</td>
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<td>0</td>
<td>0</td>
<td>22</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **RATHNEW STREAM**
Tributary of: OS Catchment No:
OS Grid Ref of Confluence: T306 964
Date(s) Surveyed: 30/5/2012

**Assessment:** The dominance of pollution tolerant macroinvertebrate species indicated unsatisfactory moderate ecological conditions on the lower reaches (0600) of the Rathnew Stream in May 2012. Enriched conditions were evident with excessive siltation of the river bed substrata and abundant algal growth noted. Significant amount of household rubbish dumped instream.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600</td>
<td>Br in Rathnew Village</td>
<td>328793</td>
<td>195549</td>
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</tbody>
</table>
Hydrometric Area 10 (2012)

River and Code: **REDCROSS**
Tributary of: OS Catchment No: 174
OS Grid Ref of Confluence: T 279 785
Date(s) Surveyed: 3/7/2012, 24/5/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>0400</td>
<td>4</td>
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</tbody>
</table>

**Assessment:** The Redcross River was in a good ecological condition at the two stations surveyed in 2012. Excessive siltation of the riverbed substrata was noted at both Redcross Bridge (0100) and at Kilpatrick Bridge (0300).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br in Redcross</td>
<td>325175</td>
<td>183881</td>
<td>62</td>
<td>WW</td>
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<tr>
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<td>0</td>
<td>62</td>
<td>WW</td>
</tr>
<tr>
<td>0300</td>
<td>Kilpatrick Br</td>
<td>326516</td>
<td>181008</td>
<td>62</td>
<td>WW</td>
</tr>
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<td>0400</td>
<td>Scratenagh Br</td>
<td>327800</td>
<td>180300</td>
<td>62</td>
<td>WW</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>28</td>
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</tr>
<tr>
<td>0300</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 10 (2012)

River and Code : **SHANGANAGH**
Tributary of : **OS Catchment No:** x1
OS Grid Ref of Confluence: **O 261 236**
Date(s) Surveyed: **11/6/2012**

**Biological Quality Ratings (Q Values)**

<table>
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</thead>
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<td>4</td>
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<tr>
<td>0500</td>
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<td>4</td>
<td>3-4</td>
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<td>-</td>
<td>-</td>
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<td>3</td>
<td>4</td>
<td>3-4</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated good ecological conditions at the two stations examined on the Shanganagh river in June 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
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<th>Cal</th>
<th>Pasture</th>
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<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Templerainy Stream (2012)**

**River and Code:** TEMPLERAINY STREAM  
**Tributary of:** OS Catchment No: c2  
**OS Grid Ref of Confluence:** T 261 748  
**Date(s) Surveyed:** 24/5/2012

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**Assessment:** The macroinvertebrate fauna indicated good ecological conditions at Porter's Bridge on the Templerainy Stream in May 2012.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Good ecological conditions continue on the Three Mile Water in July 2012 although excessive siltation of the riverbed was evident.

Site Altitude and Upstream Catchment Characteristics (where available):

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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 10 (2012)

River and Code: VARTRY 10/V/01
Tributary of: OS Catchment No: 170
OS Grid Ref of Confluence: T 321 942
Date(s) Surveyed: 19/6/2012, 30/5/2012

Biological Quality Ratings (Q Values)

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Assessment: The Vartry River was in a satisfactory ecological condition at all stations surveyed in late May - mid June 2012. The diversity of pollution sensitive macroinvertebrate species indicated a welcome return to high ecological conditions in the upper reaches (0050) although the enhanced plant and algal growth indicated some enrichment. Good ecological conditions were evident at Annagolan Bridge (0100) however the abundant plant and algal growth and excessive siltation indicated enriched conditions downstream of Vartry Reservoir. The macroinvertebrate fauna indicated good ecological conditions at Nun's Cross Bridge (0150). A welcome improvement was noted downstream of Ashford at Newrath Bridge (0300) however signs of enrichment were still evident with luxuriant plant and algal growth and excessive siltation observed.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
ERBD: HYDROMETRIC AREA NO. 10

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.

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Total Length (km) surveyed this cycle: 89.8 123.6 42.2 18.5 0.0 274.0
Adjustments (See below)*: 0.0 5.5 0.0 0.0 0.0 5.5
** Current Length (km) Adjusted **: 2012 89.8 118.1 42.2 18.5 0.0 268.5

Percentages: 33.4 44.0 15.7 6.9 0.0 100.0

Channel Length (km) in Class

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<th>Baseline: Current Adjusted Status (km)</th>
<th>Year</th>
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<th>B</th>
<th>C</th>
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<td>18.5</td>
<td>0.0</td>
<td>268.5</td>
<td></td>
</tr>
</tbody>
</table>

Percentages: 77.4 15.7 6.9 0.0 100.0

Baseline: Previous Unadjusted Status (km)**: 2007-09 75.9 103.1 60.6 29.0 0.0 268.5

Percentages: 28.3 38.4 22.6 10.8 0.0 100.0

Changes since Previous Survey (km): 13.9 15.0 -18.4 -10.5 0.0 0.0

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Ballymacahara (10B98) added into the programme in 2012.
** Clabby et al., 2008
1 Rivers not previously included in the National Statistics

96
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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>14</td>
<td>18</td>
</tr>
<tr>
<td>Good</td>
<td>23</td>
<td>35</td>
</tr>
<tr>
<td>Moderate</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Poor</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Bad</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total number of sites surveyed</strong></td>
<td><strong>60</strong></td>
<td><strong>67</strong></td>
</tr>
<tr>
<td><strong>Total number of sites at unsatisfactory status</strong></td>
<td><strong>23</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### Hydrometric Area 10 : Trends

% Surveyed Channel Length in Four Water Quality Classes

<table>
<thead>
<tr>
<th>Year</th>
<th>Class A: Unpolluted</th>
<th>Class B: Slightly Polluted</th>
<th>Class C: Moderately Polluted</th>
<th>Class D: Seriously Polluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987-'90</td>
<td>85</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>1991-'94</td>
<td>77</td>
<td>11</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>1995-'97</td>
<td>81</td>
<td>10</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>1998-'00</td>
<td>74</td>
<td>9</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2001-'03</td>
<td>68</td>
<td>13</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2004-'06</td>
<td>81</td>
<td>17</td>
<td>4</td>
<td>0</td>
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<tr>
<td>2007-'09</td>
<td>67</td>
<td>16</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>2010-'12</td>
<td>77</td>
<td>16</td>
<td>7</td>
<td>0</td>
</tr>
</tbody>
</table>

### Hydrometric Area 10 : Trends

% Surveyed Channel Length in Five WFD Water Quality Classes

- High Status: Unpolluted
- Good Status: Unpolluted
- Moderate Status: Slightly Polluted
- Poor Status: Moderately Polluted
- Bad Status: Seriously Polluted

<table>
<thead>
<tr>
<th>Year</th>
<th>High Status</th>
<th>Good Status</th>
<th>Moderate Status</th>
<th>Poor Status</th>
<th>Bad Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007-09</td>
<td>28</td>
<td>39</td>
<td>22</td>
<td>6</td>
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<tr>
<td>2007-09</td>
<td>33</td>
<td>44</td>
<td>16</td>
<td>7</td>
<td>0</td>
</tr>
</tbody>
</table>
HYDROMETRIC AREA 16 (Suir: Balance of Survey)

Partial Survey in 2011, Balance of Survey in 2012

<table>
<thead>
<tr>
<th>River Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACKWATER (KILMACOW)</td>
<td>16B02</td>
</tr>
<tr>
<td>GLASHA (WATERFORD)</td>
<td>16G01</td>
</tr>
<tr>
<td>GLENBOY</td>
<td>16G03</td>
</tr>
<tr>
<td>GLENGALLA</td>
<td>16G05</td>
</tr>
<tr>
<td>OUTERAGH STREAM</td>
<td>16O01</td>
</tr>
<tr>
<td>POLLANASSA</td>
<td>16P02</td>
</tr>
<tr>
<td>SMARTSCASTLE STREAM</td>
<td>16S07</td>
</tr>
<tr>
<td># ST JOHN'S</td>
<td>16S03</td>
</tr>
</tbody>
</table>

# indicates rivers having seriously polluted stretches at time of this survey.
River and Code: **BLACKWATER (KILMACOW)** 16/B/02  
Tributary of: 16S02 SUIR  
OS Grid Ref of Confluence: S 586 141  
Date(s) Surveyed: 1/10/2012  

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0060</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>0080</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0100</td>
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<td>3-4</td>
<td>4</td>
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<td>-</td>
</tr>
<tr>
<td>0200</td>
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<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
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<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
<td>5</td>
<td>3-4</td>
<td>3</td>
<td>3-4</td>
<td>4</td>
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<td>4</td>
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<tr>
<td>0400</td>
<td>-</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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<td>-</td>
</tr>
<tr>
<td>0450</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory except for downstream of Kilmacow (0450) where again only moderate ecological quality was recorded.

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

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0060</td>
<td>79</td>
<td>20</td>
<td>100</td>
<td>0</td>
<td>57</td>
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</tr>
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<td>0080</td>
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<td>70</td>
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<td>0200</td>
<td>45</td>
<td>106</td>
<td>100</td>
<td>0</td>
<td>72</td>
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<td>0</td>
<td>5</td>
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<tr>
<td>0300</td>
<td>31</td>
<td>110</td>
<td>99</td>
<td>1</td>
<td>72</td>
<td>12</td>
<td>4</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>0450</td>
<td>8</td>
<td>123</td>
<td>90</td>
<td>10</td>
<td>74</td>
<td>11</td>
<td>3</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

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 16 (2012)

River and Code : GLASHA (WATERFORD) 16/G/01
Tributary of : 16S02 SUIR OS Catchment No: 182
OS Grid Ref of Confluence: S 298 232
Date(s) Surveyed: 5/10/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Continuing satisfactory with high ecological quality.

Station No. Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
--- | --- | --- | --- | --- |
0200 Boola Br | 227654 | 119980 | 75 | WD |
0300 Glenpatrick Br | 0 | 0 | 0 | WD |
0400 Glen Br | 230312 | 122670 | 75 | WD |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>204</td>
<td>5</td>
<td>100</td>
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<td>2</td>
<td>13</td>
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<td>0</td>
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<td>0</td>
<td>35</td>
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<td>19</td>
<td>39</td>
<td>25</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>15</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENBOY**
Tributary of: 16T01 TAR
OS Grid Ref of Confluence: S 113 139
Date(s) Surveyed: 2/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Glenboy Br</td>
<td>211635</td>
<td>113607</td>
<td>74</td>
<td>TY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>27</td>
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<td>17</td>
<td>0</td>
<td>31</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENGALLA**
Tributary of: 16T01 TAR
OS Grid Ref of Confluence: S 071 138
Date(s) Surveyed: 2/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>5</td>
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<td>5</td>
<td>4-5</td>
<td>4-5</td>
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<td>4</td>
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</tbody>
</table>

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>Glengalla Br</td>
<td>207215</td>
<td>112962</td>
<td>74</td>
<td>TY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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 16 (2012)

River and Code: OUTERAGH STREAM 16/O/01
Tributary of: 16S02 SUIR
OS Grid Ref of Confluence: S 054 267
Date(s) Surveyed: 5/10/2012

OS Catchment No: 182

Biological Quality Ratings (Q Values)

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<td>-</td>
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<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
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</tbody>
</table>

Assessment: Continuing only moderate ecological quality in this spring-influenced stream.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
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<td>Br W of Outeragh</td>
<td>207004</td>
<td>129597</td>
<td>74</td>
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<tr>
<td>0200</td>
<td>Br u/s Suir R confl</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>52</td>
<td>20</td>
<td>0</td>
<td>100</td>
<td>74</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>22</td>
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<td>0</td>
</tr>
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</table>

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 16 (2012)

River and Code: POLLANASSA

Tributary of: 16B02 BLACKWATER (KILMACOW)  OS Catchment No: 182

Date(s) Surveyed: 1/10/2012

<table>
<thead>
<tr>
<th></th>
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**Biological Quality Ratings (Q Values)**

Assessment: Satisfactory, with good ecological quality, following an improvement at the final location (0500).

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<tr>
<th>Station No.</th>
<th>Stations Location</th>
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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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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 16 (2012)

River and Code: SMARTSCASTLE STREAM 16/S/07
Tributary of: 16B02 BLACKWATER (KILMACOW) OS Catchment No: 182
OS Grid Ref of Confluence: S 586 146
Date(s) Surveyed: 2/10/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory at upper location but deterioration, to moderate ecological quality, at the bridge South West of Smartscastle.

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<th>Stations Location</th>
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<th>Grid Ref. Y</th>
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<th>County Code</th>
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<td>Br d/s Catsrock Br</td>
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<td>Br SW of Smartcastle (Main flow)</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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Alt is 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**
Tributary of : 16S02 SUIR
OS Grid Ref of Confluence: S 614 121
Date(s) Surveyed: 2/10/2012

**Biological Quality Ratings (Q Values)**

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**Assessment**: Continuing unsatisfactory with bad ecological quality.

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SERBD: HYDROMETRIC AREA NO. 16

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.

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<th>Code</th>
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<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
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## Channel Length (km) in Class

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<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
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<tr>
<td>Total Length (km) surveyed this cycle</td>
<td></td>
<td></td>
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<td>151.0</td>
<td>396.4</td>
<td>91.7</td>
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<td>7.5</td>
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<td>91.7</td>
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* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Mullinahone Stream (16M09) previously not added into the statistics.

**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).

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<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
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<td>22</td>
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<td>Bad</td>
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Total number of sites surveyed: 129 (2007-'09) 139 (2010-'12)

Total number of sites at unsatisfactory status: 52 (2007-'09) 42 (2010-'12)
Hydrometric Area 16: Trends
% Surveyed Channel Length in Four Quality Classes

- **Class A: Unpolluted**
- **Class B: Slightly Polluted**
- **Class C: Moderately Polluted**
- **Class D: Seriously Polluted**

Hydrometric Area 16: Trends
% Surveyed Channel Length in Five WFD Quality Classes

- **High Status: Unpolluted**
- **Good Status: Unpolluted**
- **Moderate Status: Slightly Polluted**
- **Poor Status: Moderately Polluted**
- **Bad Status: Seriously Polluted**
## HYDROMETRIC AREA 18 (Blackwater (Munster))

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## HYDROMETRIC AREA 18 (Blackwater (Munster))

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* **AWBEG (BUTTEVANT) (EAST) Formerly reported as the East Branch of the Awbeg (Buttevant)**

* **AWBEG (BUTTEVANT) (WEST) Formerly reported as the West Branch of the Awbeg (Buttevant)**

* **WATERGRASSHILL STREAM Formerly reported as the South Branch of the Flesk (Bride)**

18F04
Hydrometric Area 18 (2012)

River and Code: ALLOW
Tributary of: 18B02 BLACKWATER (MUNSTER)
OS Grid Ref of Confluence: W 385 988
Date(s) Surveyed: 14/8/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high and good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Alt</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **ARAGLIN (BLACKWATER)**
Tributary of : 18B02 BLACKWATER (MUNSTER)
OS Grid Ref of Confluence:  R 845 006
Date(s) Surveyed:  9/8/2012

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**Assessment:** Continuing satisfactory with good and high ecological quality.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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 (2012)

River and Code: **AWBEG (BUTTEVANT)**
Tributary of: **18B02 BLACKWATER (MUNSTER)**
OS Grid Ref of Confluence: R 693 001
OS Catchment No: 190
Date(s) Surveyed: 11/7/2012, 27/6/2012

Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Satisfactory, with good and high ecological quality, apart from at Buttevant and Cahermee where respectively poor and moderate. No crayfish were recorded in the 2009 survey but this protected species was found at four of the five locations sampled in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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 (2012)

River and Code: **AWBEG (BUTTEVANT) (EAST)** 18/A/08
Tributary of: 18A05 AWBEG (BUTTEVANT) OS Catchment No: 190
Date(s) Surveyed: 26/6/2012

**Formerly reported as the East Branch of the Awbeg (Buttevant)**

Biological Quality Ratings (Q Values)

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**Assessment:** Maintaining Good ecological quality at both locations.

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<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
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<th>Other</th>
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</table>

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 (2012)

River and Code: **AWBEG (BUTTEVANT) (WEST)**

Tributary of: 18A05 AWBEG (BUTTEVANT)

OS Grid Ref of Confluence: R 522 150

Date(s) Surveyed: 26/6/2012

**Formerly reported as the West Branch of the Awbeg (Buttevant)**

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**Biological Quality Ratings (Q Values)**

**Assessment:** Good and poor ecological quality representing deterioration at Annagh Bridge (0400) since previous survey.

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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 (2012)

River and Code: **AWNASKIRTAUN** 18/A/07
Tributary of: **18B02 BLACKWATER (MUNSTER)** OS Catchment No: 190
OS Grid Ref of Confluence: W 188 929
Date(s) Surveyed: 31/7/2012

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<td>0300</td>
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Assessment: Again good ecological quality where formerly high.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Alt</th>
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<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLARD STREAM** 18/B/10
Tributary of: 18A03 ARAGLIN (BLACKWATER) OS Catchment No: 190
OS Grid Ref of Confluence: R 887 048
Date(s) Surveyed: 2/8/2012

<table>
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**Assessment:** Deterioration to moderate ecological quality, since previous survey, with some siltation effects.

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
<th>Bogs</th>
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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 (2012)

River and Code: **BALLYCLOGH STREAM**  
Tributary of: 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: W 508 980  
Date(s) Surveyed: 13/9/2012

OS Catchment No: 190

**River and Code:** BALLYCLOGH STREAM  
**Tributary of:** 18B02 BLACKWATER (MUNSTER)  
**Date(s) Surveyed:** 13/9/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** No change with poor and moderate ecological quality.

### Stations Location

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<th>Stations Location</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
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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 (2012)

River and Code: **BEHANAGH**
Tributary of: 18F05 FUNSHION
OS Grid Ref of Confluence: R 856 158
Date(s) Surveyed: 9/7/2012

**OS Catchment No:** 190

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality again recorded.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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Alt is 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 (MUNSTER)** 18/B/02
Tributary of: OS Catchment No: 190
OS Grid Ref of Confluence: X 098 997
Date(s) Surveyed: 10/9/2012, 11/9/2012, 12/9/2012, 13/9/2012

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**Assessment:** Satisfactory throughout, with high and good ecological quality, following improvement at Mallow and Fermoy. With the recent colonisation by crayfish, the Blackwater is now home to the two protected aquatic invertebrates - the other being the pearl mussel.
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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 (2012)**

River and Code : **BREGOGUE**

Tributary of : **18A05 AWBEG (BUTTEVANT)**

OS Grid Ref of Confluence : R 595 079

Date(s) Surveyed : 27/6/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory, with good ecological quality, at the only sampling location.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
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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 (2012)

River and Code : BRIDE (WATERFORD) 18/B/05
Tributary of : 18B02 BLACKWATER (MUNSTER) OS Catchment No: 190
OS Grid Ref of Confluence: X 088 912
Date(s) Surveyed: 9/8/2012, 10/8/2012

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Assessment: Continuing satisfactory with good ecological quality.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
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Site Altitude and Upstream Catchment Characteristics (where available):

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

Tributary of: **18A02 ALLOW**

OS Grid Ref of Confluence: **R 385 018**

Date(s) Surveyed: **13/8/2012**

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**Assessment:** Good ecological quality throughout.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Alt</th>
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<th>Sil</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CLYDA**
Tributary of: 18B02 BLACKWATER (MUNSTER)
OS Grid Ref of Confluence: W 533 977
Date(s) Surveyed: 12/7/2012

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</tr>
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</table>

**Assessment:** Continuing satisfactory with high and good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
<td>0050</td>
<td>177</td>
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<td>7</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: **COOM**

Tributary of: 18B05 BRIDE (WATERFORD)

OS Grid Ref of Confluence: W 684 901

Date(s) Surveyed: 18/7/2012

**Biological Quality Ratings (Q Values)**

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<thead>
<tr>
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</thead>
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**Assessment:** Deterioration, from good to moderate ecological quality, since previous survey.

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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>CK</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tr>
</tbody>
</table>

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

Tributary of: 18A03 ARAGLIN (BLACKWATER)

OS Catchment No: 190

OS Grid Ref of Confluence: R 905 055

Date(s) Surveyed: 2/8/2012

0300  4   4  4-5  4   4   3   4   4

Biological Quality Ratings (Q Values)

Assessment: Satisfactory with good ecological quality.

Station No.  Stations Location  National X  Grid Ref. Y  Discovery Series No.  County Code
0300  Br at Araglin R confl  190697  105461  74  CK

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.  Alt  Area  Sil  Cal  Pasture  Forestry  Bogs  Urban  Misc Ag.  Water  Other
0300  76  12  84  16  66  15  0  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.
Hydrometric Area 18 (2012)

River and Code: **CULLAVAW STREAM** 18/C/04
Tributary of: 18B02 BLACKWATER (MUNSTER)  OS Catchment No: 190
OS Grid Ref of Confluence: W 176 935
Date(s) Surveyed: 31/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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</table>

**Assessment:** Moderate ecological quality again recorded.

<table>
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<th>Grid Ref. Y</th>
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<th>County Code</th>
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<tbody>
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<td>Cullavaw Br(Lower)</td>
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<td>KY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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<td>125</td>
<td>116</td>
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<td>17</td>
<td>1</td>
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<td>10</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: CURRAHEEN (CORK) 18/C/06

Tributary of: 18B05 BRIDE (WATERFORD) OS Catchment No: 190
OS Grid Ref of Confluence: W 948 940
Date(s) Surveyed: 18/7/2012

<table>
<thead>
<tr>
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<tbody>
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<td></td>
<td>4     4     4     4     4     4     4     4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory, with good ecological quality, at the only location sampled on this river which is also known as Shanakill.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</table>

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

Tributary of: **18A02 ALLOW**

OS Grid Ref of Confluence: **R 382 032**

OS Catchment No: **190**

Date(s) Surveyed: **13/8/2012, 14/8/2012, 20/8/2012**

### Biological Quality Ratings (Q Values)

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</table>

### Assessment:
Continuing satisfactory with good and high ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<td>7</td>
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</tbody>
</table>

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 (2012)

River and Code: **DOUGLAS (ARAGLIN)**
Tributary of: 18A03 ARAGLIN (BLACKWATER)
OS Grid Ref of Confluence: R 849 018
Date(s) Surveyed: 2/8/2012

**OS Catchment No:** 190

**Biological Quality Ratings (Q Values)**

<table>
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**Assessment:** Continuing satisfactory with high and good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</tbody>
</table>

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 (2012)

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

Tributary of: 18B05 BRIDE (WATERFORD)

OS Grid Ref of Confluence: W 883 917

Date(s) Surveyed: 18/7/2012

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**Assessment:** Improved with good ecological quality upstream of confluence with River Bride.

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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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Alt is in metres, Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **FARAHY**  
Tributary of : 18F05 FUNSHION  
OS Grid Ref of Confluence: R 720 084  
Date(s) Surveyed: 10/7/2012

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**Assessment:** Satisfactory, with good ecological quality, apart from final location where there was a reversion to unsatisfactory conditions with only moderate quality recorded.

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<th>Station No.</th>
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<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: FARNANE  18/F/06
Tributary of: 18F02 FINISK
OS Grid Ref of Confluence: S 170 013
Date(s) Surveyed: 7/8/2012
OS Catchment No: 190

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**Assessment:** Satisfactory again with good ecological quality where previously high.

<table>
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<th>Station No.</th>
<th>Stations Location</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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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 (2012)**

**River and Code:** FINISK 18/F/02

**Tributary of:** 18B02 BLACKWATER (MUNSTER)  OS Catchment No: 190

**OS Grid Ref of Confluence:** X 107 968

**Date(s) Surveyed:** 7/8/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good and high ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Sil</th>
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<th>Pasture</th>
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</table>

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 (2012)**

River and Code: **FINNOW (BLACKWATER)** 18/F/03

Tributary of: 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: W 284 925

Date(s) Surveyed: 31/7/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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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 (2012)

River and Code: **FLESK (BRIDE)**
Tributary of: 18B05 BRIDE (WATERFORD)
OS Grid Ref of Confluence: W 824 912
Date(s) Surveyed: 19/7/2012
OS Catchment No: 190

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Biological Quality Ratings (Q Values)

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
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<th>Site No.</th>
<th>Stations Location</th>
<th>National X</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
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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 (2012)**

River and Code  : **FUNSHION**

Tributary of  : 18B02 BLACKWATER (MUNSTER)  

OS Grid Ref of Confluence:  W 837 002  

Date(s) Surveyed:  9/7/2012, 10/7/2012, 11/7/2012  

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**Assessment:**  Satisfactory throughout with high and good ecological quality.
## Hydrometric Area 18 (2012)

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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 (2012)

River and Code: **GLASHANABRACK** 18/G/02
Tributary of: 18B05 BRIDE (WATERFORD) OS Catchment No: 190
OS Grid Ref of Confluence: W 720 887
Date(s) Surveyed: 18/7/2012

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**Assessment:** Continuing satisfactory, with good ecological quality, despite recent bank and instream clearance.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLASHAWEE (ALLOW)**
Tributary of: 18A02 ALLOW
OS Grid Ref of Confluence: R 322 165
Date(s) Surveyed: 14/8/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory, with good ecological quality, at the only location assessed which is upstream of Allow River confluence.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 (2012)**

River and Code: **GLEN (BANTEER)** 18/G/04

Tributary of: 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: W 392 985  
OS Catchment No: 190  
Date(s) Surveyed: 1/8/2012

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**Assessment:** Continuing satisfactory with high ecological quality recorded at all locations surveyed.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
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<th>Forestry</th>
<th>Bogs</th>
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</table>

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 (2012)

River and Code: **GLENABOY**
Tributary of: 18B05 BRIDE (WATERFORD)
OS Grid Ref of Confluence: W 995 943
Date(s) Surveyed: 17/7/2012

Biological Quality Ratings (Q Values)

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Assessment: No change with good and moderate ecological quality.

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<th>National X</th>
<th>Grid Ref. Y</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<tr>
<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENAKEEFE**
Tributary of: 18O08 OWENNASHAD
OS Grid Ref of Confluence: S 050 017
Date(s) Surveyed: 8/8/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality again recorded.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
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<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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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 (2012)

River and Code: **GLENCORRA STREAM**
Tributary of: 18F05 FUNSHION
OS Grid Ref of Confluence: R 812 030
Date(s) Surveyed: 11/7/2012

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**Assessment:** Improved to good ecological quality. This site which is immediately upstream of a wooded 'Area of Ecological Constraint' had been in 2009 affected by work to facilitate supports for motorway bridge.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 (2012)**

River and Code: **GLENDINE (BLACKWATER)**  
Tributary of: 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: X 077 824  
Date(s) Surveyed: 17/7/2012

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</table>

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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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 (2012)

River and Code : **GLENLARA** 18/G/08
Tributary of : 18D01 DALUA
OS Grid Ref of Confluence: R 308 073
Date(s) Surveyed: 20/8/2012, 21/8/2012

Biological Quality Ratings (Q Values)

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**Assessment:** No change - continuing with moderate and good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
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</table>

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

Tributary of: 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: X 097 992

Date(s) Surveyed: 8/8/2012

**Biological Quality Ratings (Q Values)**

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<tbody>
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<td>3-4</td>
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<td>3-4</td>
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</tbody>
</table>

**Assessment:** Continuing satisfactory with high and good ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc. Ag.</th>
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</table>

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 (2012)

River and Code: **GLENSHELANE**
Tributary of: 18G10 GLENNAFALLIA
OS Grid Ref of Confluence: S 115 009
Date(s) Surveyed: 8/8/2012

OS Catchment No: 190

**Biological Quality Ratings (Q Values)**

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</tbody>
</table>

**Assessment:** Satisfactory with high ecological quality again recorded at the only location sampled.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
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</table>

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 (2012)**

River and Code: **GOISH**

Tributary of: 18B02 BLACKWATER (MUNSTER)

OS Grid Ref of Confluence: X 096 920

Date(s) Surveyed: 16/7/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Satisfactory, with good ecological quality, following improvement at the upper location since previous survey.

<table>
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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>89274</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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</table>

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 (2012)

River and Code : GRADOGGE
Tributary of : 18F05 FUNSHION
OS Grid Ref of Confluence: R 797 137
Date(s) Surveyed: 9/7/2012

OS Catchment No: 190

Biological Quality Ratings (Q Values)

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</table>

Assessment: Slightly polluted since 2003 where seriously and moderately polluted previously. Not shown on OS Catchment Map (Not a baseline river).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KNOPPOGE** 18/K/02
Tributary of: 18O03 OWENAGEERAGH OS Catchment No: 190
OS Grid Ref of Confluence: W 826 892
Date(s) Surveyed: 18/7/2012

<table>
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<th>Station Nos.</th>
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<tr>
<td>0500</td>
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**Assessment:** Satisfactory with good ecological quality again recorded.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>89133</td>
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<td>CK</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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</table>

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 (2012)

River and Code: **LICKY**  18/L/01
Tributary of: 18B02 BLACKWATER (MUNSTER)  OS Catchment No: 190
OS Grid Ref of Confluence: X 103 844
Date(s) Surveyed: 17/7/2012

<table>
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<td>0150</td>
<td>4-5</td>
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<tr>
<td>0200</td>
<td>4</td>
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Assessment: Satisfactory with good ecological quality again recorded at both locations.

<table>
<thead>
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<th>Grid Ref. Y</th>
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<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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

Tributary of: 18C02 CLYDA

OS Grid Ref of Confluence: W 558 934

Date(s) Surveyed: 12/7/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** With reversion to good ecological quality at Atkinson's Bridge since previous survey, both locations were satisfactory.

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<thead>
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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>1100</td>
<td>Atkinson's Br</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</table>

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 (2012)

River and Code: **MONAVUGGA**
Tributary of: 18G10 GLENNAFALLIA
OS Grid Ref of Confluence: S 104 022
Date(s) Surveyed: 8/8/2012

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**Assessment:** Satisfactory with improvement to high ecological quality.

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<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **NAD**
Tributary of: 18G04 GLEN (BANTEER)
OS Grid Ref of Confluence: W 437 913
Date(s) Surveyed: 1/8/2012

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<td>4-5</td>
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</table>

**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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

Tributary of: 18A05 AWBEG (BUTTEVANT)

OS Grid Ref of Confluence: W 635 074

Date(s) Surveyed: 27/6/2012

**Assessment:** Continuing satisfactory with high ecological quality recorded at both locations.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
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<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
<th>Forestry Bogs</th>
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<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: OWBEG (WATERFORD) 18/O/02
Tributary of: 18B02 BLACKWATER (MUNSTER) OS Catchment No: 190
OS Grid Ref of Confluence: X 090 952
Date(s) Surveyed: 8/8/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Good ecological quality following improvement at upstream location.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENAGEERAGH**
Tributary of: 18F04 FLESK (BRIDE)
OS Grid Ref of Confluence: W 818 897
Date(s) Surveyed: 18/7/2012

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**Assessment:** Continuing satisfactory with good ecological quality.
River and Code : **OWENANARE**
Tributary of : 18D01 DALUA
OS Grid Ref of Confluence: R 366 045
Date(s) Surveyed: 14/8/2012, 20/8/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Continuing satisfactory with good ecological quality.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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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 (2012)

River and Code: **OWENBAUN (RATHCOOL)**

Tributary of: **18R01 RATHCOOL**

OS Grid Ref of Confluence: **W 336 937**

Date(s) Surveyed: 1/8/2012, 31/7/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with good and high ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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 (2012)

River and Code: **OWENKEAL**
Tributary of: 18D01 DALUA
OS Grid Ref of Confluence: R 307 050
Date(s) Surveyed: 21/8/2012

Biological Quality Ratings (Q Values)

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

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENNAGLOO**

Tributary of: 18F03 FINNOW (BLACKWATER)

OS Grid Ref of Confluence: W 263 918

Date(s) Surveyed: 31/7/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with good and high ecological quality.

**Station Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
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<td>14</td>
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</table>

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 (2012)

River and Code : **OWENNASHAD**

Tributary of : 18B02 BLACKWATER (MUNSTER)

OS Grid Ref of Confluence: X 048 989

Date(s) Surveyed: 8/8/2012, 10/8/2012

<table>
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<td>Drumber Br</td>
</tr>
<tr>
<td>0200</td>
<td>Br u/s Blackwater R confl</td>
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</table>

**Assessment:** Satisfactory with high ecological quality.

| Site Altitude and Upstream Catchment Characteristics (where available): |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Site No.                    | Alt | Area | Sil | Cal | Pasture | Forestry | Bogs | Urban | Misc Ag. | Water | Other |
| 0060                        | 120 | 18   | 100 | 0   | 12      | 17      | 61   | 0     | 0       | 0     | 10    |
| 0100                        | 95  | 24   | 100 | 0   | 21      | 17      | 53   | 0     | 0       | 0     | 8     |
| 0140                        | 58  | 45   | 100 | 0   | 27      | 11      | 47   | 0     | 0       | 6     | 9     |
| 0200                        | 7   | 53   | 100 | 0   | 32      | 12      | 41   | 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.
**Hydrometric Area 18 (2012)**

**River and Code:** OWENTARAGLIN 18/O/09

**Tributary of:** 18B02 BLACKWATER (MUNSTER)  
**OS Grid Ref of Confluence:** W 223 935  
**Date(s) Surveyed:** 30/7/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Mostly satisfactory, with high and good ecological quality, but deterioration, to moderate quality, at uppermost location which is downstream of a farm and forestry.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** Satisfactory with good and high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>Br nr Killeen</td>
<td>135056</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

Alt is in metres Area is km² and Sil and Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 18 (2012)

River and Code: ROSS (KILLAVULLEN) 18/R/02
Tributary of: 18B02 BLACKWATER (MUNSTER) OS Catchment No: 190
OS Grid Ref of Confluence: W 655 993
Date(s) Surveyed: 13/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with good ecological quality.

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
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<thead>
<tr>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **SHEEP**  
Tributary of : 18F05 FUNSHION  
OS Grid Ref of Confluence: W 737 116  
Date(s) Surveyed: 10/7/2012

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**Biological Quality Ratings (Q Values)**  

**Assessment:** Continuing satisfactory with good ecological quality again recorded at the three locations.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **TOURIG**
Tributary of : 18B02 BLACKWATER (MUNSTER)  
OS Grid Ref of Confluence: X 093 804  
Date(s) Surveyed: 17/7/2012

### Biological Quality Ratings (Q Values)

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<tr>
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</table>

**Assessment:** Continuing satisfactory, with good ecological quality at both locations but with some localized siltation due to a cattle watering area at the upper sample site.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **WATERGRASSHILL STREAM**
Tributary of: 18F04 FLESK (BRIDE)
OS Grid Ref of Confluence: 
Date(s) Surveyed: 19/7/2012

Formerly reported as the South Branch of the Flesk (Bride) 18F04

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**Assessment:** Continuing unsatisfactory with poor ecological quality.

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>85682</td>
<td>80</td>
<td>CK</td>
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**SWRBD: HYDROMETRIC AREA NO. 18**

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.

<table>
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<th>WFD Quality Class</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
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## Hydrometric Area 18 (2012)

### Channel Length (km) in Class

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<th>C</th>
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#### Adjustments (km) (See below)*

| Total Length (km) surveyed this cycle | 280.5 | 474.2 | 48.4 | 14.0 | 0.0 | 817.0 |
| Adjustments (km)                     | 0.0   | 0.0   | 0.0  | 0.0  | 0.0 | 0.0   |
| **Current Length (km) Adjusted**     | 2012  | 754.7 | 48.4 | 14.0 | 0.0 | 817.0 |
| **Percentages**                      | 34.3  | 58.0  | 5.9  | 1.7  | 0.0 | 100.0 |

#### Baseline: Current Adjusted Status (km)

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<th>B</th>
<th>C</th>
<th>D</th>
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#### Baseline: Previous Unadjusted Status (km)**

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#### Changes since Previous Survey (km)

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* 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).

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<th>2010-'12</th>
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<td>Poor</td>
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Hydrometric Area 18 (2012)

Hydrometric Area 18: Trends
% Surveyed Channel Length in Four Quality Classes

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<th>Class C: Moderately Polluted</th>
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Hydrometric Area 18: Trends
% Surveyed Channel Length in Five WFD Quality Classes

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Hydrometric Area 20 (2012)

River and Code : **ARGIDEEN**  
Tributary of : Sea - at Courtmacsherry  
OS Grid Ref of Confluence: W 473 437  
Date(s) Surveyed: 25/9/2012, 26/9/2012

OS Catchment No: 232

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with good ecological quality.

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<th>Cal</th>
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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 20 (2012)

River and Code: **BALLINSPITTLE**
Tributary of: Sea - Kinsale Harbour
OS Grid Ref of Confluence: W 568 510
Date(s) Surveyed: 26/9/2012

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**Assessment:** Continuing satisfactory, with good ecological quality, despite some enrichment.

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<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Pasture</th>
<th>Forestry</th>
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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 20 (2012)

River and Code: **BALLYMAHANE** 20/B/01
Tributary of: 20S02 SALL
OS Grid Ref of Confluence: W 493 586
Date(s) Surveyed: 25/7/2012, 26/7/2012

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**Assessment:** Continuing satisfactory with high and good ecological quality.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
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<th>Sil</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 20 (2012)

River and Code: BANDON
Tributary of: Sea - Kinsale Harbour
OS Grid Ref of Confluence: W 653 474
Date(s) Surveyed: 24/7/2012, 25/7/2012

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Assessment: Mostly satisfactory, with good ecological quality, but only moderate downstream of Dunmanway and Ballineen (at Enniskeen) with improvement since previous survey below Enniskeen.

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<th>Grid Ref. Y</th>
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### Hydrometric Area 20 (2012)

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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<td>514</td>
<td>100</td>
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<td>7</td>
<td>1</td>
<td>16</td>
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<td>5</td>
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</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock, and Pasture, Forestry, etc., are % of catchment area.
River and Code : **BAWNACKNOCKANE**
Tributary of : Sea - Roaring Water Bay
OS Grid Ref of Confluence:  V 989 358
Date(s) Surveyed:  29/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
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<tbody>
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<td>0200</td>
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</table>

**Assessment:** Continuing satisfactory with good ecological quality.

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<tr>
<th>Station No.</th>
<th>Stations Location</th>
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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **BEALANASCARTANE**
Tributary of : 20B02 BANDON
OS Grid Ref of Confluence: W 267 517
Date(s) Surveyed: 24/7/2012

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</table>

**Assessment:** Mostly satisfactory, with good ecological quality, but deterioration since previous survey to moderate quality at West Bridge upstream of Bandon River confluence (0800).

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is 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 (BANDON)**  
Tributary of: 20B02 BANDON  
OS Grid Ref of Confluence: W 319 535  
Date(s) Surveyed: 24/7/2012  

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment:** Good ecological quality at both locations which represents loss in high quality at the lowermost location where a tributary stream was seriously polluted in July 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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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 20 (2012)

River and Code: **BRINNY**
Tributary of: 20B02 BANDON
OS Grid Ref of Confluence: W 532 573
Date(s) Surveyed: 26/7/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Continuing satisfactory with good and high ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: BURRANE  
Tributary of: Argideen Estuary  
OS Grid Ref of Confluence: W 473 455  
Date(s) Surveyed: 26/9/2012  

OS Catchment No: 232

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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 20 (2012)

River and Code: CAHA
Tributary of: 20B02 BANDON
OS Grid Ref of Confluence: W 241 558
Date(s) Surveyed: 23/7/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high ecological quality.

Station No.  | Stations Location       | National X | Grid Ref. Y | Discovery Series No. | County Code |
-------------|-------------------------|------------|-------------|----------------------|-------------|
0100         | Br N of Coolcaum        | 118397     | 61836       | 85                   | CK          |
0400         | Poulnaberry Br          | 121926     | 59246       | 85                   | CK          |
0500         | Br SW of Aultagreagh    | 0          | 0           | 0                    | CK          |
0700         | Caha Br                 | 124342     | 56018       | 86                   | CK          |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<td>23</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: CARHOO
Tributary of: Sea - Clonakilty Bay
OS Grid Ref of Confluence: W 377 397
Date(s) Surveyed: 25/9/2012

OS Catchment No: x2

Biological Quality Ratings (Q Values)

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<td>4</td>
<td>4</td>
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</table>

Assessment: Satisfactory, with good ecological quality, despite physical modifications.

Station No.  Stations Location  National X  Grid Ref. Y  Discovery Series No.  County Code
0300  Br SE of Carhoo  137048  39547  89  CK

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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</table>

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 20 (2012)

River and Code: CASHEL (CORK) 20/C/02
Tributary of: 20R02 ROURY
OS Grid Ref of Confluence: W 242 386
Date(s) Surveyed: 25/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Area</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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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 20 (2012)

River and Code: **CLODAGH**  
Tributary of: 20I01 ILEN  
OS Grid Ref of Confluence: W 126 473  
Date(s) Surveyed: 19/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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</table>

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 20 (2012)

River and Code: **CLONAKILTY STREAM** 20/C/05
Tributary of: Sea - Clonakilty Bay
OS Grid Ref of Confluence: W 387 413
Date(s) Surveyed: 26/9/2012

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<td>0300</td>
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**Assessment:** Continuing satisfactory, with good ecological quality, despite some enrichment.

<table>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National Grid Ref.</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>Br in Clonakilty</td>
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<td>Y 41310</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CULLENAGH LAKE STREAM**

Tributary of: 20B02 BANDON

OS Grid Ref of Confluence: W 168 558

Date(s) Surveyed: 23/7/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with good ecological quality but with some slight siltation.

<table>
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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

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 20 (2012)**

**River and Code**: DIRTY  
**Tributary of**: 20B02 BANDON  
**OS Grid Ref of Confluence**: W 240 523  
**Date(s) Surveyed**: 24/7/2012  
**OS Catchment No**: 229

**Biological Quality Ratings (Q Values)**

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**Assessment**: Unsatisfactory following slight deterioration to moderate ecological quality since previous survey.

<table>
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<th>National X</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock, and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLASHAGLORAGH (CORK)**

Tributary of: 20A02 ARGIDEEN

OS Grid Ref of Confluence: W 293 443

Date(s) Surveyed: 25/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
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</table>

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 20 (2012)

River and Code: ILEN
Tributary of: Sea - Baltimore Bay
OS Grid Ref of Confluence: W 073 315
OS Catchment No: 233
Date(s) Surveyed: 19/9/2012, 20/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high and good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
<th>Forestry</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **KILBRITTAIN** 20/K/01
Tributary of : Sea - Courtmacsherry
OS Grid Ref of Confluence: W 532 468
Date(s) Surveyed: 26/9/2012

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**Biological Quality Ratings (Q Values)**

**Assessment:** Continuing satisfactory with good ecological quality.

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<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 20 (2012)

River and Code: **LEAMAWADDRA**
Tributary of: Sea - Roaring Water Bay
OS Grid Ref of Confluence: W 019 342
Date(s) Surveyed: 29/8/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **LEAP STREAM**
Tributary of: Glandore Harbour
OS Grid Ref of Confluence: W 207 368
Date(s) Surveyed: 30/8/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **MINANE**
Tributary of: Sea - Ringabella Bay
OS Grid Ref of Confluence: W 760 569
Date(s) Surveyed: 27/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Improved with good ecological quality.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **OWENKEAGH**
Tributary of : 20A02 ARGIDEEN
OS Grid Ref of Confluence:  W 452 457
Date(s) Surveyed:  26/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Good ecological quality again at both locations.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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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 20 (2012)

River and Code: OWENNASHINGAUN

Tributary of: 20I01 ILEN

OS Grid Ref of Confluence: W 095 445

Date(s) Surveyed: 20/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):    

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<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWNAHINCHY**
Tributary of: Sea - Rosscarbery Bay
OS Grid Ref of Confluence: W 307 353
Date(s) Surveyed: 25/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Good ecological quality at both locations.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
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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 20 (2012)

River and Code: **RATHRUANE**

Tributary of: 20B03 BAWNAKNOCKANE

OS Grid Ref of Confluence: V 989 358

Date(s) Surveyed: 29/8/2012

**Rainfall Type:**

**OS Catchment No:** 236

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**Biological Quality Ratings (Q Values)**

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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<td>33</td>
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<td>8</td>
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<td>3</td>
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</tbody>
</table>

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 20 (2012)

River and Code: ROURY  
Tributary of: Sea - Mill Cove  
OS Grid Ref of Confluence: W 267 348  
Date(s) Surveyed: 24/9/2012, 25/9/2012

OS Catchment No: 234

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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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 20 (2012)

River and Code: **SAIVNOSE**

Tributary of: 20101 ILEN

OS Grid Ref of Confluence: W 121 400

Date(s) Surveyed: 24/9/2012

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**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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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 20 (2012)

River and Code: **SALL**
Tributary of: 20B07 BRINNY
OS Grid Ref of Confluence: W 513 519
Date(s) Surveyed: 25/7/2012

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<td>3-4</td>
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**Biological Quality Ratings (Q Values)**

**Assessment**: Continuing satisfactory with good ecological quality at both locations.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 20 (2012)

River and Code: STICK  
Tributary of: Sea - Oyster Haven  
OS Grid Ref of Confluence: W 687 493  
Date(s) Surveyed: 27/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory, with good ecological quality, despite some siltation and enrichment respectively in the Ballymartle Branch and main channel.

<table>
<thead>
<tr>
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<th>Stations Location</th>
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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: TINNEEL STREAM 20/T/02
Tributary of: Sea at Rosscarbery Bay
OS Grid Ref of Confluence: W 289 370
Date(s) Surveyed: 30/8/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing unsatisfactory with only moderate ecological quality - siltation and enrichment noted.

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<tr>
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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>0</td>
<td>0</td>
<td>CK</td>
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</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0050</td>
<td>26</td>
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<td>0</td>
<td>85</td>
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<td>15</td>
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</tbody>
</table>

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. 20**

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>WFD Quality Class</th>
<th>Year</th>
<th>Code</th>
<th>Channel Length (km) in Class</th>
<th>A High</th>
<th>A Good</th>
<th>A Moderate</th>
<th>A Poor</th>
<th>A Total</th>
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<tbody>
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<td>Argideen</td>
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<td>0.0</td>
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<td>0.0</td>
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<tr>
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<td>20S02</td>
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<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

| Total Length (km) surveyed this cycle | 76.2 | 202.6 | 15.3 | 0.0 | 0.0 | 294.0 |
| Adjustments (km) (See below)* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Current Length (km) Adjusted | 76.2 | 202.6 | 15.3 | 0.0 | 0.0 | 294.0 |

| Percentages | 25.9 | 68.9 | 5.2 | 0.0 | 0.0 | 100.0 |

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline: Current Adjusted Status (km)</td>
<td>2010-12</td>
<td>278.8</td>
<td>15.3</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

| Percentages | 94.8 | 5.2 | 0.0 | 0.0 | 100.0 |

| Baseline: Previous Unadjusted Status (km)** | 2007-09 | 56.3 | 220.6 | 12.2 | 5.0 | 294.0 |

| Percentages | 19.1 | 75.0 | 4.1 | 1.7 | 0.0 | 100.0 |

| Changes since Previous Survey (km) | 19.9 | -18.0 | 3.1 | -5.0 | 0.0 | 0.0 |

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-):
** Clabby *et al.*, 2008

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).

<table>
<thead>
<tr>
<th>WFD Status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Good</td>
<td>46</td>
<td>43</td>
</tr>
<tr>
<td>Moderate</td>
<td>4</td>
<td>6</td>
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<tr>
<td>Poor</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Total number of sites surveyed: 60, 60
Total number of sites at unsatisfactory status: 5, 6
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 21 (Dunmanus – Bantry – Kenmare)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADRIGOLE</td>
</tr>
<tr>
<td>ARDSHEELHANE</td>
</tr>
<tr>
<td>BLACKWATER (KERRY)</td>
</tr>
<tr>
<td>CLEARY</td>
</tr>
<tr>
<td>CLOSHANE</td>
</tr>
<tr>
<td>CLOONEE (KERRY)</td>
</tr>
<tr>
<td>COOMEELAN STREAM</td>
</tr>
<tr>
<td>COOMHOLA</td>
</tr>
<tr>
<td>CROANSHAGH</td>
</tr>
<tr>
<td>CUMMERAGH</td>
</tr>
<tr>
<td>DERREENDARRAGH</td>
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<tr>
<td>DRIMMINBOY</td>
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<td>DRUMOGHTY</td>
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<tr>
<td>EMLAGHMORE</td>
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<tr>
<td>FINNIHY</td>
</tr>
<tr>
<td>FOUR MILE WATER</td>
</tr>
<tr>
<td>GLAN STREAM</td>
</tr>
<tr>
<td>GLENGARRIFF</td>
</tr>
<tr>
<td>INNY (KERRY)</td>
</tr>
<tr>
<td>ISKNAGAHINY LOUGH STREAM</td>
</tr>
<tr>
<td>KEALDUFF</td>
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<td>KEALINCHA</td>
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<tr>
<td>LOUGH FADDA STREAM</td>
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<tr>
<td>MAGANNAGAN STREAM</td>
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<td>MEALAGH</td>
</tr>
<tr>
<td>OWBEG (ROUGHTY)</td>
</tr>
<tr>
<td>OWENBEG (OWVANE)</td>
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<tr>
<td>OWENSHAGH</td>
</tr>
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<td>OWNAGAPPUL</td>
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<tr>
<td>ONGAR (CORK)</td>
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<td>OWREAGH</td>
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<td>OWROE</td>
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<td>OWVANE (CORK)</td>
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<td>SHEEN</td>
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<td>SLAHENY</td>
</tr>
<tr>
<td>SNEEM</td>
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<td>TAHILLA</td>
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<tr>
<td>TRAFRASK STREAM</td>
</tr>
</tbody>
</table>
River and Code: **ADRIGOLE**  
Tributary of: Sea - Adrigole Harbour  
OS Grid Ref of Confluence: V 807 502  
Date(s) Surveyed: 19/9/2012  

**Biological Quality Ratings (Q Values)**

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<thead>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0200</td>
<td>Adrigole Br</td>
<td>81180</td>
<td>50719</td>
<td>84</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: ARDSHEELHANE 21/A/02
Tributary of: 21S03 SNEEM OS Catchment No: 214
OS Grid Ref of Confluence: V 688 673
Date(s) Surveyed: 5/9/2012

Biological Quality Ratings (Q Values)

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<td>4</td>
<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

Assessment: High ecological quality.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
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<tr>
<th></th>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>59</td>
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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 21 (2012) 21/B/03

River and Code: BLACKWATER (KERRY) 21/B/03
Tributary of: Kenmare River OS Catchment No: 215
OS Grid Ref of Confluence: V 797 684
Date(s) Surveyed: 5/9/2012

Biological Quality Ratings (Q Values)

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<tr>
<td>0100</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Continuing satisfactory with high ecological quality.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
--------|-------------------|------------|-------------|----------------------|-------------|
0100    | Gearha Br         | 78267      | 72126       | 78                   | KY          |
0200    | 1.5 km u/s Blackwater Bridge | 79380 | 69461       | 84                   | KY          |

Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>35</td>
<td>48</td>
<td>100</td>
<td>0</td>
<td>2</td>
<td>6</td>
<td>59</td>
<td>0</td>
<td>12</td>
<td>1</td>
<td>21</td>
</tr>
<tr>
<td>0200</td>
<td>21</td>
<td>85</td>
<td>100</td>
<td>0</td>
<td>7</td>
<td>8</td>
<td>60</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

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 21 (2012)**

River and Code: **CLEADY**
Tributary of: **21R01 ROUGHTY**
OS Grid Ref of Confluence: **V 942 719**
Date(s) Surveyed: **6/9/2012**

OS Catchment No: **217**

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Cleady Br</td>
<td>94319</td>
<td>72220</td>
<td>78</td>
<td>KY</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>10</td>
<td>16</td>
<td>96</td>
<td>4</td>
<td>28</td>
<td>8</td>
<td>35</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>29</td>
</tr>
</tbody>
</table>

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 21 (2012)**

River and Code: **CLOGHANE**  
Tributary of: Sea-at Allihies (W of Bear Is)  
OS Grid Ref of Confluence: V 584 407  
Date(s) Surveyed: 19/9/2012  

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
</table>

**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Knockroe Br</td>
<td>60150</td>
<td>41259</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0300</td>
<td>28</td>
<td>6</td>
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<td>0</td>
<td>12</td>
<td>4</td>
<td>60</td>
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<td>0</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km$^2$ and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **CLOONEE (KERRY)**
Tributary of : Sea - Kenmare River
OS Grid Ref of Confluence:  V 775 628
Date(s) Surveyed:  18/9/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0200</td>
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<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory at the uppermost location (upstream of Inchiquin Lough). The lowermost location again exhibited lake effects, i.e. suppressed but enriched type faunal response.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>93</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0200</td>
<td>39</td>
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<td>41</td>
<td>0</td>
<td>31</td>
<td>0</td>
<td>28</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 21 (2012)

River and Code : **COOMEELAN STREAM**

Tributary of : 21S01 SHEEN

OS Grid Ref of Confluence: V 950 644

Date(s) Surveyed: 7/9/2012

OS Catchment No: 218

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br u/s Sheen R confl</td>
<td>95777</td>
<td>63913</td>
<td>85</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>80</td>
<td>25</td>
<td>100</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>83</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

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 21 (2012)

River and Code: **COOMHOLA**
Tributary of: Sea - Bantry Bay
OS Grid Ref of Confluence: V 998 545
Date(s) Surveyed: 27/8/2012

**Biological Quality Ratings (Q Values)**

<table>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0500</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory with consistent high ecological conditions recorded since surveys began on the river in 1990.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br nr Knockaneosduff</td>
<td>103911</td>
<td>60037</td>
<td>85</td>
<td>CK</td>
</tr>
<tr>
<td>0300</td>
<td>Br NE of Coorloum</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>CK</td>
</tr>
<tr>
<td>0500</td>
<td>Coomhola Br</td>
<td>99448</td>
<td>55526</td>
<td>85</td>
<td>CK</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>55</td>
<td>27</td>
<td>100</td>
<td>0</td>
<td>13</td>
<td>5</td>
<td>80</td>
<td>0</td>
<td>2</td>
<td>0</td>
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<td>0500</td>
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<td>100</td>
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</tbody>
</table>

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 21 (2012)

River and Code: CROANSHAGH 21/C/05
Tributary of: Sea - Kilmackilloge Harbour
OS Grid Ref of Confluence: V 770 572
Date(s) Surveyed: 18/9/2012

OS Catchment No: 222

Biological Quality Ratings (Q Values)

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0180</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Continuing satisfactory with high and good ecological quality.

Station No. | Stations Location          | National X | Grid Ref. Y | Discovery Series No. | County Code |
-------------|----------------------------|------------|-------------|----------------------|-------------|
0100         | Glanmore Br                | 77343      | 53628       | 84                   | KY          |
0180         | 0.6 km u/s Croanshagh Br   | 77028      | 56798       | 84                   | KY          |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>65</td>
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<td>7</td>
<td>2</td>
<td>21</td>
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</tbody>
</table>

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 21 (2012)

River and Code : **CUMMERAGH** 21/C/04
Tributary of : Sea - Ballinskelligs Bay
OS Grid Ref of Confluence: V 500 650
Date(s) Surveyed: 4/9/2012

OS Catchment No: 213

Biological Quality Ratings (Q Values)

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
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<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0600</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

**Assessment:** Satisfactory with good and high ecological quality. The upper site had some enrichment due to lake effects.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Just d/s Derriana Lough</td>
<td>59939</td>
<td>72696</td>
<td>83</td>
<td>KY</td>
</tr>
<tr>
<td>0400</td>
<td>Fords d/s Cummeragh Br</td>
<td>58008</td>
<td>71420</td>
<td>83</td>
<td>KY</td>
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<tr>
<td>0600</td>
<td>Dromkeare Br</td>
<td>54537</td>
<td>68551</td>
<td>84</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>12</td>
<td>8</td>
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<td>62</td>
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<td>10</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: DERREENDARRAGH 21/D/03
Tributary of: 21B03 BLACKWATER (KERRY)
OS Grid Ref of Confluence: V 791 714
Date(s) Surveyed: 5/9/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
<th></th>
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<tbody>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuously satisfactory with high ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>45</td>
<td>23</td>
<td>100</td>
<td>0</td>
<td>9</td>
<td>13</td>
<td>62</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>8</td>
</tr>
</tbody>
</table>

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 21 (2012)**

River and Code: **DRIMMINBOY**
Tributary of: 21C05 CROANSHAGH
OS Grid Ref of Confluence: V 767 562
Date(s) Surveyed: 18/9/2012

**OS Catchment No:** 222

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory with good ecological quality and naturally poor faunal response.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br SE of Shronebirrane</td>
<td>75477</td>
<td>55306</td>
<td>84</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0100</td>
<td>6</td>
<td>6</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>58</td>
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<td>0</td>
<td>42</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **DRUMOGHTY** 21/D/04
Tributary of: Sea - Kenmare River
OS Grid Ref of Confluence: V 875 680
Date(s) Surveyed: 17/9/2012

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</thead>
<tbody>
<tr>
<td>0400</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory with good ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>Dawros Br</td>
<td>87776</td>
<td>67666</td>
<td>85</td>
<td>KY</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
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<td>17</td>
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<td>0</td>
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<td>4</td>
<td>54</td>
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<td>19</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

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 21 (2012)

River and Code: **EMLAGHMORE**
Tributary of: Sea - Ballinskelligs Bay
OS Grid Ref of Confluence: V 453 682
Date(s) Surveyed: 4/9/2012

<table>
<thead>
<tr>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
</tr>
</tbody>
</table>

**Assessment:** Only moderate ecological quality with enriched conditions. Farm waste was also reaching the river, from right-hand side, immediately upstream of the bridge.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>Emlaghmore Br</td>
<td>44588</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
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</table>

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 21 (2012)

River and Code: **FINNIHY**
Tributary of: Sea - Kenmare River
OS Grid Ref of Confluence: V 903 707
Date(s) Surveyed: 5/9/2012, 6/9/2012

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</thead>
<tbody>
<tr>
<td>0200</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>0300</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0500</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0510</td>
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<td>3-4</td>
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</table>

**Assessment:** Satisfactory with good ecological quality at both locations.

<table>
<thead>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>0300</td>
<td>Sahaleen Br</td>
<td>90013</td>
<td>73375</td>
<td>78</td>
<td>KY</td>
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<tr>
<td>0500</td>
<td>Kenmare: Finnihy Br (RHS)</td>
<td>90885</td>
<td>71012</td>
<td>78</td>
<td>KY</td>
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<tr>
<td>0510</td>
<td>Kenmare: Finnihy Br (LHS)</td>
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<td>71012</td>
<td>78</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
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<td>17</td>
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</tbody>
</table>

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 21 (2012)

River and Code: **FOUR MILE WATER**
Tributary of: Sea - Dunmanus Bay
OS Grid Ref of Confluence: V 944 419
Date(s) Surveyed: 29/8/2012

Biological Quality Ratings (Q Values)

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<th></th>
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<tbody>
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<td>0200</td>
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<td>4</td>
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<td>4</td>
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<td>4</td>
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<tr>
<td>0210</td>
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<td>3</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
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<td>4-5</td>
<td>4-5</td>
<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory with good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>100</td>
<td>0</td>
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<td>26</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>0210</td>
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<td>8</td>
<td>100</td>
<td>0</td>
<td>69</td>
<td>5</td>
<td>26</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0500</td>
<td>8</td>
<td>27</td>
<td>100</td>
<td>0</td>
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<td>24</td>
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</tbody>
</table>

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 21 (2012)**

River and Code: **GLAN STREAM**

Tributary of: Dunmanus Harbour

OS Grid Ref of Confluence: V 855 336

Date(s) Surveyed: 29/8/2012

<table>
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</tr>
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<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
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</tbody>
</table>

**Assessment:** Deterioration to moderate ecological quality in this once pearl mussel stream.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>Br SE of Knockeens</td>
<td>86572</td>
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<td>88</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
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<td>8</td>
<td>8</td>
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</tr>
</tbody>
</table>

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 21 (2012)

River and Code: **GLENGARRIFF**

Tributary of: Sea - Glengarriff Harbour

OS Grid Ref of Confluence: V 932 561

Date(s) Surveyed: 28/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<td>4-5</td>
</tr>
<tr>
<td>0300</td>
<td>4-5</td>
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</tbody>
</table>

Assessment: Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br W of Skehil</td>
<td>89720</td>
<td>58306</td>
<td>85</td>
<td>CK</td>
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<td>Foot-bridge NW of Glengarriff</td>
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<td>56879</td>
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<td>CK</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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<td>67</td>
<td>0</td>
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<td>2</td>
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</tbody>
</table>

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 21 (2012)**

River and Code : **INNY (KERRY)**

Tributary of : Sea - Ballinskelligs Bay

OS Grid Ref of Confluence:  V 496 692

Date(s) Surveyed:  3/9/2012, 4/9/2012

<table>
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<tr>
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<tr>
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<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0900</td>
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<td>4</td>
<td>4</td>
<td>4</td>
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<td>4</td>
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<td>4</td>
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</tbody>
</table>

**Assessment:** Continuing satisfactory with good ecological quality at all locations.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>55719</td>
<td>72847</td>
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<td>0900</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **ISKNAGAHINY LOUGH STREAM** 21/I/03
Tributary of: Lough Currane
OS Grid Ref of Confluence: V 564 655
Date(s) Surveyed: 4/9/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Satisfactory with high ecological quality.

### Station Locations

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Sil</th>
<th>Cal</th>
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<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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</table>

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 21 (2012)

River and Code: KEALDUFF 21/K/01
Tributary of: 21B03 BLACKWATER (KERRY)
OS Grid Ref of Confluence: V 772 728
Date(s) Surveyed: 5/9/2012

OS Catchment No: 215

Biological Quality Ratings (Q Values)

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Assessment: Return to high ecological quality but with slight enrichment.

<table>
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<th>Grid Ref. Y</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KEALINCHA**
Tributary of: Sea - Coulagh Bay
OS Grid Ref of Confluence: V 637 502
Date(s) Surveyed: 19/9/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good ecological quality.

### Station Locations

<table>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<tr>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is 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 FADD A STREAM** 21/L/03
Tributary of: 21O09 OWNAGAPPUL
OS Grid Ref of Confluence: V 684 555
Date(s) Surveyed: 18/9/2012
OS Catchment No: h3

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good ecological quality.

### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **MAGANNAGAN STREAM**
Tributary of: Sea - Glengarriff Harbour
OS Grid Ref of Confluence: V 923 545
Date(s) Surveyed: 28/8/2012

<table>
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**Assessment:** Continuing satisfactory with high ecological quality.

<table>
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<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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*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 21 (2012)

River and Code: **MEALAGH** 21/M/01
Tributary of: Sea - Bantry Bay
OS Grid Ref of Confluence: W 005 501
Date(s) Surveyed: 28/8/2012, 29/8/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high and good ecological quality.

Station Numbers Location

<table>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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 21 (2012)

River and Code: **OWBEG (ROUGHTY)**
Tributary of: 21R01 ROUGHTY
OS Grid Ref of Confluence: V 986 729
Date(s) Surveyed: 6/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality.

### Station Sites

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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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 21 (2012)

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

Tributary of : 21007 OWVANE (CORK)

OS Grid Ref of Confluence : W 032 556

Date(s) Surveyed : 28/8/2012

**OS Catchment No:** 226

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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 21 (2012)**

<table>
<thead>
<tr>
<th>River and Code</th>
<th>OWENSHAGH</th>
<th>21/O/08</th>
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<tbody>
<tr>
<td>Tributary of</td>
<td>Sea - Kilmackilloge Harbour</td>
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<tr>
<td>OS Grid Ref of Confluence</td>
<td>V 774 584</td>
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<td>Date(s) Surveyed</td>
<td>18/9/2012</td>
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**OS Catchment No:** 221

<table>
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<tr>
<th>Biological Quality Ratings (Q Values)</th>
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<tbody>
<tr>
<td>0100 4 4-5 4 4 4 4 4-5 4-5</td>
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</table>

**Assessment:** Continuing satisfactory with high ecological quality.

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<tr>
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<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWNAGAPPUL**
Tributary of: Sea - Ardgroom Harbour
OS Grid Ref of Confluence: V 689 557
Date(s) Surveyed: 18/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory with high ecological quality.

<table>
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<th>Station No.</th>
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<th>National X</th>
<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWNGAR (CORK)**
Tributary of: 21O07 OWVANE (CORK)
OS Grid Ref of Confluence: W 063 571
Date(s) Surveyed: 28/8/2012

**Biological Quality Ratings (Q Values)**

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<tbody>
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**Assessment:** Continuing satisfactory with high ecological quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWREAGH**
Tributary of: Sea - Sneem Estuary
OS Grid Ref of Confluence: V 686 663
Date(s) Surveyed: 4/9/2012

**Assessment:** Satisfactory with high ecological quality.

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<tr>
<td>0300</td>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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<tbody>
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<td>Br W of Sneem</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tr>
</tbody>
</table>

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 21 (2012)

River and Code: **OWROE**  
Tributary of: 21I01 INNY (KERRY)  
OS Grid Ref of Confluence: V 612 770  
Date(s) Surveyed: 3/9/2012  
OS Catchment No: 212

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**Assessment:** Only moderate ecological quality with signs of enrichment.

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<th>Grid Ref. Y</th>
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<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</tr>
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</table>

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 21 (2012)**

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

Tributary of: Sea - Bantry Bay

OS Grid Ref of Confluence: W 006 533

Date(s) Surveyed: 28/8/2012

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**Assessment:** Satisfactory with high ecological quality.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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<th>County Code</th>
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<td>104832</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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<th>Water</th>
<th>Other</th>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **ROUGHTY**  
Tributary of : Sea - Kenmare Bay  
OS Grid Ref of Confluence:  V 910 700  
Date(s) Surveyed:  6/9/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Continuing satisfactory with high ecological quality at the three locations.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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*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 21 (2012)

River and Code : SHEEN

OS Grid Ref of Confluence: V 924 702

Date(s) Surveyed: 6/9/2012, 7/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Satisfactory with high ecological quality at both locations.

Site Altitude and Upstream Catchment Characteristics (where available):

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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 21 (2012)

River and Code : **SLAHENY**
Tributary of : 21R01 ROUGHTY
OS Grid Ref of Confluence:  W 004 730
Date(s) Surveyed:  6/9/2012

**Assessment:** Continuing satisfactory with high ecological quality.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: SNEEM
Tributary of: Kenmare River
OS Grid Ref of Confluence: V 690 667
Date(s) Surveyed: 4/9/2012, 5/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Continuing satisfactory with high ecological conditions at both locations.

### Site Altitude and Upstream Catchment Characteristics (where available):

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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 21 (2012)

River and Code: TAHILLA
Tributary of: Sea - Coongar Harbour
OS Grid Ref of Confluence: V 743 655
Date(s) Surveyed: 5/9/2012

OS Catchment No: 13

Biological Quality Ratings (Q Values)

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Assessment: Satisfactory with good ecological quality.

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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
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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 21 (2012)

River and Code: **TRAFRASK STREAM**
Tributary of: Sea - East of Adrigole Harbour
OS Grid Ref of Confluence: V 848 494
Date(s) Surveyed: 19/9/2012

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**Assessment:** Continuing satisfactory with high ecological quality.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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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. 21**

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.

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<th>Code</th>
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<th>A Good</th>
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<td>21O09</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td></td>
<td>Owreagh</td>
<td>2012</td>
<td>21O05</td>
<td>3.0</td>
<td>4.0</td>
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<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td></td>
<td>Owroe</td>
<td>2012</td>
<td>21O06</td>
<td>0.0</td>
<td>4.5</td>
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<td>0.0</td>
<td>0.0</td>
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<tr>
<td></td>
<td>Owvane (Cork)</td>
<td>2012</td>
<td>21O07</td>
<td>17.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td></td>
<td>Roughty</td>
<td>2012</td>
<td>21R01</td>
<td>27.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>27.0</td>
</tr>
<tr>
<td></td>
<td>Sheen</td>
<td>2012</td>
<td>21S01</td>
<td>20.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
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<tr>
<td></td>
<td>Slaheny</td>
<td>2012</td>
<td>21S02</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>12.0</td>
</tr>
<tr>
<td></td>
<td>Sneem</td>
<td>2012</td>
<td>21S03</td>
<td>9.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>9.0</td>
</tr>
<tr>
<td></td>
<td>Tahilla</td>
<td>2012</td>
<td>21T01</td>
<td>0.0</td>
<td>1.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Trafirsk Stream</td>
<td>2012</td>
<td>21T03</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
</tbody>
</table>

251
Hydrometric Area 21 (2012)

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Length (km) surveyed this cycle</td>
<td>2012</td>
<td></td>
<td>236.2</td>
<td>85.8</td>
<td>16.0</td>
<td>0.0</td>
<td>0.0</td>
<td>338.0</td>
</tr>
<tr>
<td>Adjustments (km) (See below)*</td>
<td></td>
<td></td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Current Length (km) Adjusted</strong></td>
<td></td>
<td></td>
<td>236.2</td>
<td>85.8</td>
<td>16.0</td>
<td>0.0</td>
<td>0.0</td>
<td>338.0</td>
</tr>
<tr>
<td><strong>Percentages</strong></td>
<td></td>
<td></td>
<td>69.9</td>
<td>25.4</td>
<td>4.7</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>Year</th>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline : Current Adjusted Status (km)</td>
<td>2010-'12</td>
<td></td>
<td>322.0</td>
<td>16.0</td>
<td>0.0</td>
<td>0.0</td>
<td>338.0</td>
</tr>
<tr>
<td>Percentages</td>
<td></td>
<td></td>
<td>95.3</td>
<td>4.7</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Baseline: Previous Unadjusted Status (km)**</td>
<td>2007-'09</td>
<td></td>
<td>223.5</td>
<td>109.5</td>
<td>5.0</td>
<td>0.0</td>
<td>338.0</td>
</tr>
<tr>
<td>Percentages</td>
<td></td>
<td></td>
<td>66.1</td>
<td>32.4</td>
<td>1.5</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Changes since Previous Survey (km )</td>
<td></td>
<td></td>
<td>12.7</td>
<td>-23.7</td>
<td>11.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

* 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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2009</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>Good</td>
<td>23</td>
<td>18</td>
</tr>
<tr>
<td>Moderate</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total number of sites surveyed</td>
<td>58</td>
<td>55</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>
Hydrometric Area 21 : Trends

% Surveyed Channel Length in Four Quality Classes

Class A: Unpolluted
Class B: Slightly Polluted
Class C: Moderately Polluted
Class D: Seriously Polluted

Hydrometric Area 21 : Trends

% Surveyed Channel Length in Five WFD Quality Classes

High Status: Unpolluted
Good Status: Unpolluted
Moderate Status: Slightly Polluted
Poor Status: Moderately Polluted
Bad Status: Seriously Polluted
HYDROMETRIC AREA 22 (Laune – Maine – Dingle Bay: Balance of Survey)

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

BEHY (KERRY) 22B02
CAHERLEHILLAN STREAM * 22C20
CARHAN 22C03
COOMAGLASLAW LOUGH STREAM * 22C19
COOMNACRONIA LOUGH STREAM * 22C18
DEENAGH 22D01
DERREEN (KERRY) 22D02
EMLAGH 22E01
FERTA 22F01
GEARHAMEEN 22G03
GROIN 22G08
OWENALONDUG 22O01
OWENASCAUL 22O02
OWENREAGH 22O03
TEEROMOYLE STREAM * 22T04

* CAHERLEHILLAN STREAM Formerly North Branch of Ferta River 22F01
* COOMAGLASLAW LOUGH STREAM Formerly Coomaglaslaw Branch of Behy (Kerry) 22B02
* COOMNACRONIA LOUGH STREAM Formerly Coomnacronia Lake Branch of Behy (Kerry) 22B02
* TEEROMOYLE STREAM Formerly South Branch of Ferta River 22F01
River and Code: **BEHY (KERRY)**  
Tributary of: Sea - Dingle Bay  
OS Grid Ref of Confluence: V 657 920  
Date(s) Surveyed: 21/8/2012  

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0800</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>1000</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>1200</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1300</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** While the good ecological conditions recorded in the Behy at stations 0800 and 1300 in 2007 have been maintained, there has been a decline from high to good quality at Station 1000.
River and Code: **CAHERLEHILLAN STREAM** 22/C/20
Tributary of: 22F01 FERTA
OS Grid Ref of Confluence:
Date(s) Surveyed: 22/8/2012

**Formerly North Branch of Ferta River 22F01**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>1990</th>
<th>1994</th>
<th>1996</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>1998: 4-5 2007: 4-5 2012: 4-5</td>
</tr>
</tbody>
</table>

Assessment: High ecological quality is maintained.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br WSW of Coulagh</td>
<td>57037</td>
<td>83300</td>
<td>83</td>
<td>KY</td>
</tr>
</tbody>
</table>
Hydrometric Area 22 (2012)

River and Code: **CARHAN**

Tributary of: Valentine River

OS Grid Ref of Confluence: V 484 798

Date(s) Surveyed: 22/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0100</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** There has been a slight improvement in the Carhan, from moderate ecological quality in 2007, to good quality in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>Br u/s Br N of Canburrin</td>
<td>50563</td>
<td>76617</td>
<td>83</td>
<td>KY</td>
</tr>
<tr>
<td>0100</td>
<td>Br N of Canburrin</td>
<td>51037</td>
<td>77143</td>
<td>83</td>
<td>KY</td>
</tr>
<tr>
<td>0200</td>
<td>Foot-bridge E of Inchimacteige</td>
<td>51260</td>
<td>79050</td>
<td>83</td>
<td>KY</td>
</tr>
<tr>
<td>0300</td>
<td>Br WSW of Carhan Ho</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>70</td>
<td>2</td>
<td>100</td>
<td>0</td>
<td>2</td>
<td>56</td>
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</tr>
<tr>
<td>0100</td>
<td>59</td>
<td>4</td>
<td>100</td>
<td>0</td>
<td>5</td>
<td>43</td>
<td>50</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>0200</td>
<td>25</td>
<td>15</td>
<td>100</td>
<td>0</td>
<td>10</td>
<td>11</td>
<td>77</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **COOMAGLASLAW LOUGH STREAM** 22/C/19
Tributary of: 22B02 BEHY (KERRY)  OS Catchment No: 209
OS Grid Ref of Confluence:
Date(s) Surveyed: 22/8/2012

Formerly Coomaglaslaw Branch of Behy (Kerry) 22B02

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** There has been a slight decline in ecological quality, from high in 2007 to good in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
<tr>
<td>0400</td>
<td>First Br d/s Coomaglaslaw L</td>
<td>62455</td>
<td>86766</td>
<td>83</td>
<td>KY</td>
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</tbody>
</table>
Hydrometric Area 22 (2012)

River and Code: COOMNACRONIA LOUGH STREAM 22/C/18
Tributary of: 22B02 BEHY (KERRY) OS Catchment No: 209
OS Grid Ref of Confluence:
Date(s) Surveyed: 22/8/2012

Formerly Coomnacronia Lake Branch of Behy (Kerry) 22B02

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
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<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Continuing satisfactory but with change to good quality where previously high.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Br W of Ballynakilly Br</td>
<td>64299</td>
<td>87740</td>
<td>83</td>
<td>KY</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>60</td>
<td>14</td>
<td>100</td>
<td>0</td>
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<td>50</td>
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<td>2</td>
<td>6</td>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 22 (2012)

River and Code: DEENAGH
Tributary of: Lough Leane
OS Grid Ref of Confluence: V 945 902
Date(s) Surveyed: 21/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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</tr>
<tr>
<td>0100</td>
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<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
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<td>-</td>
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</tr>
<tr>
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<td>5</td>
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<td>4</td>
<td>4-5</td>
<td>4</td>
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<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

Assessment: The upper Deenagh (0045) was polluted in 2011 with faunal response indicating poor ecological quality - the two lower survey sites (0100, 0200) were sampled in 2012 and were at good and high quality respectively.

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

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0045</td>
<td>149</td>
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<td>93</td>
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<td>0</td>
<td>100</td>
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<td>20</td>
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<td>74</td>
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<td>14</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **DERREEN (KERRY)**

Tributary of: Sea at Portmagee

OS Grid Ref of Confluence: V 451 742

Date(s) Surveyed: 22/8/2012

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Good ecological quality maintained.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Dereen Br</td>
<td>46623</td>
<td>72388</td>
<td>83</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>11</td>
<td>13</td>
<td>100</td>
<td>0</td>
<td>42</td>
<td>0</td>
<td>35</td>
<td>0</td>
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<td>0</td>
<td>23</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 22 (2012)

River and Code: **EMLAGH**
Tributary of: Sea - Castlemaine Harbour
OS Grid Ref of Confluence: Q 660 006
Date(s) Surveyed: 23/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5 4-5 4-5 4-5 4-5 4-5 4-5 4-5 4-5</td>
</tr>
<tr>
<td>0400</td>
<td>4-5 4-5 4-5 4-5 4-5 4-5 4-5 4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The ecological status of the Emlagh has improved to high quality at both stations assessed in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br W of Emlagh</td>
<td>64845</td>
<td>103310</td>
<td>71</td>
<td>KY</td>
</tr>
<tr>
<td>0400</td>
<td>Br at Inch</td>
<td>65606</td>
<td>101289</td>
<td>71</td>
<td>KY</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>75</td>
<td>18</td>
<td>100</td>
<td>0</td>
<td>25</td>
<td>8</td>
<td>52</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>11</td>
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<td>22</td>
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<td>25</td>
<td>6</td>
<td>53</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>12</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 22 (2012)

River and Code : **FERTA**
Tributary of : Valentia River
OS Grid Ref of Confluence: V 500 801
Date(s) Surveyed: 22/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>0700</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1000</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The Ferta is still in unsatisfactory condition, with moderate ecological quality recorded.

**Station Locations and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700</td>
<td>Br ENE of Derreenmoria</td>
<td>54882</td>
<td>82239</td>
<td>83</td>
<td>KY</td>
</tr>
<tr>
<td>0900</td>
<td>Foilmore Br</td>
<td>52145</td>
<td>82358</td>
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<tr>
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<td>Deelis Br</td>
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<td>81601</td>
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<td>KY</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>0</td>
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<td>31</td>
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<td>0</td>
<td>52</td>
</tr>
<tr>
<td>1000</td>
<td>2</td>
<td>53</td>
<td>100</td>
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<td>45</td>
<td>0</td>
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<td>0</td>
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</tbody>
</table>

Alt is in metres, Area is km2, Sil, Cal are % siliceous and calcareous bedrock, Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 22 (2012)

River and Code: **GEARHAMEEN**
Tributary of: 22O03 OWENREAGH
OS Grid Ref of Confluence: V 877 819
Date(s) Surveyed: 10/11/2012, 21/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
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<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0200</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** High ecological quality was maintained at both stations assessed on the Gearhameen in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>65</td>
<td>13</td>
<td>100</td>
<td>0</td>
<td>0</td>
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<td>3</td>
<td>77</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>14</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **GROIN**
Tributary of : Castlemaine Harbour
OS Grid Ref of Confluence: Q 794 023
Date(s) Surveyed: 23/8/2012

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory but with slight deterioration from high ecological quality in 2007 to good in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Br E of White Gate Crossroads</td>
<td>78907</td>
<td>103917</td>
<td>71</td>
<td>KY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
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<td>94</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENALONDRI**G  
Tributary of: Sea - Dingle Bay  
OS Grid Ref of Confluence: Q 490 004  
Date(s) Surveyed: 23/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>0200</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<td>4</td>
<td>3</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Good ecological quality maintained.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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<td>32</td>
<td>0</td>
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<td>0</td>
<td>24</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Owenascaul has improved significantly, from moderate ecological quality in 2007 to high in 2012.
Hydrometric Area 22 (2012)

River and Code: **OWENREAGH**

Tributary of: Upper Lake Killarney

OS Grid Ref of Confluence: V 892 819

Date(s) Surveyed: 21/8/2012

OS Catchment No: 207

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
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<tr>
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<td>4-5</td>
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<tr>
<td>0400</td>
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<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Assessment: High ecological quality has been maintained at the two locations sampled in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br E of Graignagreana</td>
<td>84009</td>
<td>78588</td>
<td>78</td>
<td>KY</td>
</tr>
<tr>
<td>0200</td>
<td>Just u/s trib from Looscaunagh Lough</td>
<td>87629</td>
<td>79496</td>
<td>78</td>
<td>KY</td>
</tr>
<tr>
<td>0400</td>
<td>Br u/s Upper Lake</td>
<td>88404</td>
<td>82103</td>
<td>78</td>
<td>KY</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>100</td>
<td>0</td>
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<td>61</td>
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<td>9</td>
<td>0</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 22 (2012)

River and Code: **TEEROMOYLE STREAM**
Tributary of: 22F01 FERTA
OS Grid Ref of Confluence:
Date(s) Surveyed: 22/8/2012

**Formerly South Branch of Ferta River 22F01**

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**Assessment**: High ecological quality is maintained.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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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. 22

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.

<table>
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<th>River Name</th>
<th>Year</th>
<th>Code</th>
<th>A</th>
<th>A</th>
<th>B</th>
<th>C</th>
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### Channel Length (km) in Class

<table>
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<tr>
<th>WFD Quality Class</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
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<tr>
<td>Total Length (km) surveyed this cycle</td>
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<td>182.6</td>
<td>193.3</td>
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<td>Adjustments (km) (See below)*</td>
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<td><strong>Current adjusted Length (km)</strong></td>
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<td>193.3</td>
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<td><strong>Percentages</strong></td>
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### Channel Length (km) in Class

| Basis: Current Adjusted Status (km) | 2010-'12 | | 375.9 | 9.9 | 8.3 | 0.0 | 394.0 |
| Percentages | | | 95.4 | 2.5 | 2.1 | 0.0 | 100.0 |
| Baseline: Previous Unadjusted Status (km)** | 2007-'09 | | 144.0 | 213.0 | 32.5 | 4.5 | 0.0 | 394.0 |
| Percentages | | | 36.6 | 54.1 | 8.3 | 1.14 | 0 | 100 |
| Changes since Previous Survey (km) | | | 38.6 | -19.7 | -22.7 | 3.8 | 0.0 | 0.0 |

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-):
**Clabby et al., 2008

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).

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<th>2007-'09</th>
<th>2010-'12</th>
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</thead>
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<tr>
<td>Bad</td>
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</table>

| Total number of sites surveyed | 76 | 82 |
| Total number of sites at unsatisfactory status | 13 | 11 |
Hydrometric Area 22 : Trends
% Surveyed Channel Length in Four Quality Classes

Class A: Unpolluted  Class B: Slightly Polluted  Class C: Moderately Polluted  Class D: Seriously Polluted

Hydrometric Area 22 : Trends
% Surveyed Channel Length in Five WFD Quality Classes

High Status: Unpolluted  Good Status: Unpolluted  Moderate Status: Slightly Polluted  Poor Status: Moderately Polluted  Bad Status: Seriously Polluted
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Hydrometric Area 24 (2012)

River and Code : CAMOGE
Tributary of : 24M01 MAIGUE
OS Grid Ref of Confluence: R 522 394
Date(s) Surveyed: 3/10/2012

Biological Quality Ratings (Q Values)

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Assessment: Mostly eutrophic (moderate ecological quality) with only the final location in satisfactory condition.

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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **CLONSHIRE**  
Tributary of : 24G05 GREANAGH  
OS Grid Ref of Confluence: R 440 454  
Date(s) Surveyed: 3/10/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing unsatisfactory with poor ecological quality at the three locations.

### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **FLEMINGSTOWN STREAM** 24/F/03
Tributary of: 24L01 LOOBAGH
OS Grid Ref of Confluence: R 638 263
Date(s) Surveyed: 21/8/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** Continuing satisfactory with good ecological quality.

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **GREANAGH**
Tributary of : 24M01 MAIGUE
OS Grid Ref of Confluence: R 463 477
Date(s) Surveyed: 3/10/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing unsatisfactory, with poor ecological quality, at this site which is subject to tidal push-back.

**Station No.**

<table>
<thead>
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<th>Station</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Forestry</th>
<th>Bogs</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 24 (2012)

River and Code: **LOOBAGH**

Tributary of: 24M01 MAIGUE

OS Grid Ref of Confluence: R 545 278

Date(s) Surveyed: 21/8/2012

OS Catchment No: 155

**Biological Quality Ratings (Q Values)**

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Assessment: Satisfactory, with good ecological quality, apart from Kilmallock where quality was poor.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 24 (2012)

River and Code : **MAHORE**

Tributary of : 24C01 CAMOGE

OS Grid Ref of Confluence : R 688 385

Date(s) Surveyed: 4/10/2012

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**Biological Quality Ratings (Q Values)**

**Assessment:** Deterioration to poor ecological quality at both locations.

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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 24 (2012)

River and Code : **MORNINGSTAR**
Tributary of : 24M01 MAIGUE
OS Grid Ref of Confluence: R 538 334
Date(s) Surveyed: 22/8/2012

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Assessment: Satisfactory, with good ecological quality throughout, following improvement downstream of Bruff since previous survey.

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<th>Grid Ref. Y</th>
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## Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**SHIRBD: HYDROMETRIC AREA NO. 24**

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.

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<th>Channel Length (km) in Class</th>
<th>Year</th>
<th>Code</th>
<th>A (High)</th>
<th>A (Good)</th>
<th>B (Moderate)</th>
<th>C (Poor)</th>
<th>D (Bad)</th>
<th>Total (km)</th>
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**Percentages**

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</table>

| Channel Length (km) in Class | Baseline: Previous Unadjusted Status (km)** | 2007-09 | 0.0 | 154.0 | 75.5 | 83.5 | 1.0 | 314.0 |
|------------------------------|---------------------------------------------|---------|-----|-------|------|------|-----|-----|------|
| **Percentages**               |                                            | 0.0     | 49.0 | 24.0  | 26.6 | 0.3  | 100.0 |
| Changes since Previous Survey (km ) | 3.4 | 3.2 | -13.1 | 6.5 | 0.0 | 0.0 |

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-):
**Clabby et al., 2008

1. Rivers not previously included in the National Statistics
The number of sites at satisfactory (High & Good) & unsatisfactory (Moderate, Poor, Bad) status in the last two macroinvertebrate survey cycles (2007-'09 and 2010-'12).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'08</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Good</td>
<td>29</td>
<td>33</td>
</tr>
<tr>
<td>Moderate</td>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>Poor</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>Bad</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total number of sites surveyed</td>
<td>63</td>
<td>67</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>34</td>
<td>33</td>
</tr>
</tbody>
</table>

**Hydrometric Area 24 : Trends**

% Surveyed Channel Length in Four Quality Classes

<table>
<thead>
<tr>
<th>Year</th>
<th>Class A: Unpolluted</th>
<th>Class B: Slightly Polluted</th>
<th>Class C: Moderately Polluted</th>
<th>Class D: Seriously Polluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987-'90</td>
<td>15</td>
<td>2.5</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>1991-'94</td>
<td>28</td>
<td>39</td>
<td>44</td>
<td>46</td>
</tr>
<tr>
<td>1995-'97</td>
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<td>0.0</td>
<td>1.6</td>
<td>44</td>
</tr>
<tr>
<td>1998-'00</td>
<td>30</td>
<td>0.8</td>
<td>0.8</td>
<td>40</td>
</tr>
<tr>
<td>2001-'03</td>
<td>26</td>
<td>1.0</td>
<td>0.8</td>
<td>37</td>
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<tr>
<td>2004-'06</td>
<td>30</td>
<td>1.0</td>
<td>0.3</td>
<td>39</td>
</tr>
<tr>
<td>2007-'09</td>
<td>49</td>
<td>0.3</td>
<td>0.3</td>
<td>49</td>
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<tr>
<td>2010-'12</td>
<td>51</td>
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**Hydrometric Area 24: Trends**

% Surveyed Channel Length in Five WFD Quality Classes

<table>
<thead>
<tr>
<th>Year</th>
<th>High Status: Unpolluted</th>
<th>Good Status: Unpolluted</th>
<th>Moderate Status: Slightly Polluted</th>
<th>Poor Status: Moderately Polluted</th>
<th>Bad Status: Seriously Polluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007-'09</td>
<td>0</td>
<td>49</td>
<td>24</td>
<td>26</td>
<td>0.8</td>
</tr>
<tr>
<td>2010-'12</td>
<td>1</td>
<td>50</td>
<td>20</td>
<td>28</td>
<td>0.8</td>
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</table>
## HYDROMETRIC AREA 25 (Shannon Lower: Balance of Survey)

**Partial Survey in 2011, Balance of Survey 2012**

<table>
<thead>
<tr>
<th>Location</th>
<th>Code</th>
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<tbody>
<tr>
<td>ANNAGH (TIPPERARY)</td>
<td>25A02</td>
</tr>
<tr>
<td>ARDCLOONY</td>
<td>25A03</td>
</tr>
<tr>
<td>ARDGREGANE STREAM</td>
<td>25A04</td>
</tr>
<tr>
<td>AYLE</td>
<td>25A07</td>
</tr>
<tr>
<td>BALLINLOUGH STREAM</td>
<td>25B15</td>
</tr>
<tr>
<td>BALLINTOTTY</td>
<td>25B01</td>
</tr>
<tr>
<td>BALLYQUIVEEN STREAM</td>
<td>25B30</td>
</tr>
<tr>
<td>BARNACULLIA STREAM</td>
<td>25B14</td>
</tr>
<tr>
<td>BILBOA</td>
<td>25B03</td>
</tr>
<tr>
<td>BLACKWATER (CLARE)</td>
<td>25B06</td>
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<tr>
<td>BLEACH</td>
<td>25B07</td>
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<tr>
<td>BOW</td>
<td>25B10</td>
</tr>
<tr>
<td>CAHERNAHALLIA</td>
<td>25C01</td>
</tr>
<tr>
<td>CAPPAGH (GALWAY)</td>
<td>25C03</td>
</tr>
<tr>
<td>CAPPAWHITE STREAM</td>
<td>25C10</td>
</tr>
<tr>
<td>CAUTEEN</td>
<td>25C04</td>
</tr>
<tr>
<td>CLOGHAUN</td>
<td>25C07</td>
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<tr>
<td>COOS</td>
<td>25C08</td>
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<td>CORRA</td>
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<td>DEAD</td>
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<td>DERRAINY</td>
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<td>DOLLA</td>
<td>25D08</td>
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<tr>
<td>DOON STREAM</td>
<td>25D03</td>
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<tr>
<td>DOONANE</td>
<td>25D04</td>
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<tr>
<td>DRUMANDOORA</td>
<td>25D06</td>
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<tr>
<td>DRUMKEARY STREAM</td>
<td>25D11</td>
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<tr>
<td>DUNIRY</td>
<td>25D07</td>
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<td>EYRECOURT STREAM</td>
<td>25E01</td>
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<tr>
<td>GLENOMRA WOOD STREAM</td>
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<tr>
<td>GORTNAGOWNA</td>
<td>25G13</td>
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<tr>
<td>GRANEY (SHANNON)</td>
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<td>GROODY</td>
<td>25G05</td>
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<tr>
<td>INCH (BILBOA) *</td>
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<tr>
<td>KILCROW</td>
<td>25K01</td>
</tr>
<tr>
<td>KILLEENGARRIFF</td>
<td>25K02</td>
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<tr>
<td>KILMASTULLA</td>
<td>25K04</td>
</tr>
<tr>
<td>LISDUFF (KILCROW)</td>
<td>25L06</td>
</tr>
<tr>
<td>LISDUFF STREAM (SHANNON)</td>
<td>25L07</td>
</tr>
<tr>
<td>MOUNTRICE</td>
<td>25M03</td>
</tr>
<tr>
<td>MULKEAR (LIMERICK)</td>
<td>25M04</td>
</tr>
<tr>
<td>NENAGH</td>
<td>25N01</td>
</tr>
<tr>
<td>NEWPORT (TIPPERARY)</td>
<td>25N02</td>
</tr>
<tr>
<td>NEWTOWN</td>
<td>25N03</td>
</tr>
<tr>
<td>OLLATRIM</td>
<td>25O01</td>
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</table>
**HYDROMETRIC AREA 25 (Shannon Lower: Balance of Survey)**

*Partial Survey in 2011, Balance of Survey 2012*

<table>
<thead>
<tr>
<th>Stream Name</th>
<th>HYDROMETRIC NUMBER</th>
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</thead>
<tbody>
<tr>
<td>SCARRIFF STREAM</td>
<td>25S08</td>
</tr>
<tr>
<td>SHANNON (Lower)</td>
<td>25S01</td>
</tr>
<tr>
<td>SILVERMINES VILLAGE STREAM *</td>
<td>25S10</td>
</tr>
<tr>
<td>SMALL (TIPPERARY)</td>
<td>25S05</td>
</tr>
<tr>
<td>TOEM STREAM</td>
<td>25T05</td>
</tr>
<tr>
<td>WOODFORD (GALWAY)</td>
<td>25W01</td>
</tr>
<tr>
<td>YELLOW (KILMASTULLA)</td>
<td>25Y01</td>
</tr>
<tr>
<td>YOUGHAL (TIPPERARY)</td>
<td>25Y02</td>
</tr>
</tbody>
</table>

* I N C H (B I L B O A) F o r m e r l y I n c h B r a n c h o f B i l b o a R i v e r 2 5 B 0 3
* S I L V E R M I N E S V I L L A G E S T R E A M K i l m a s t u l l a 0 0 4 0 t o 0 1 0 0 i n c l.
River and Code: **ANNAGH (TIPPERARY)**

Tributary of: 25K02 KILLEENGARRIFF

OS Grid Ref of Confluence: R 685 578

Date(s) Surveyed: 1/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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<tbody>
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<td>4.5</td>
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<td>4.5</td>
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<tr>
<td>0500</td>
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<td>4</td>
<td>4.5</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** The Annagh (Tipperary) River remains in a satisfactory ecological condition when surveyed in August 2012. The macroinvertebrate fauna indicated good ecological conditions in the upper reaches (0040, 0100). A decline in the pollution sensitive macroinvertebrate faunal diversity indicated a decline from high to good ecological conditions at Charlotte's Bridge (0200) while an increase in the diversity of pollution sensitive species indicated an increase to high ecological conditions downstream at Ahacrossan Bridge (0300).

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0040</td>
<td>244</td>
<td>4</td>
<td>100</td>
<td>0</td>
<td>8</td>
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<td>24</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>0100</td>
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<td>22</td>
<td>100</td>
<td>0</td>
<td>39</td>
<td>19</td>
<td>21</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>0200</td>
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<td>100</td>
<td>0</td>
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<td>23</td>
<td>19</td>
<td>0</td>
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<td>0</td>
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<td>15</td>
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<td>22</td>
</tr>
</tbody>
</table>

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

Tributary of: Parteen Reservoir

OS Grid Ref of Confluence: R 674 674

Date(s) Surveyed: 30/8/2012

### Biological Quality Ratings (Q Values)

<table>
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<tr>
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<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>5</td>
<td>5</td>
<td>5</td>
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<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** The Ardcloony is still at the highest biological water quality rating of the Q-value scale and as such deserves special protection.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>170671</td>
<td>58</td>
<td>CE</td>
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<tr>
<td>0200</td>
<td>Ardcloony Br</td>
<td></td>
<td></td>
<td></td>
<td>CE</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **ARDGREGANE STREAM** 25/A/04
Tributary of : Lough Derg
OS Grid Ref of Confluence: R 826 794
Date(s) Surveyed: 17/7/2012

**Biological Quality Ratings (Q Values)**

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<tbody>
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<td>3-4</td>
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<td>3-4*</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4*</td>
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</tbody>
</table>

**Assessment:** The paucity of sensitive macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions at the two stations surveyed on the Ardgregane Stream in July 2012. Enriched conditions were evident with luxuriant instream plant and algal growth and excessive siltation noted in the lower reaches (0400).

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>67</td>
<td>83</td>
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<td>0</td>
<td>1</td>
<td>13</td>
<td>0</td>
<td>3</td>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **AYLE**
Tributary of: 25C07 CLOGHAUN
OS Grid Ref of Confluence: R 543 827
Date(s) Surveyed: 30/8/2012

**Biological Quality Ratings (Q Values)**

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<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** High ecological conditions have been maintained in the Ayle in 2012.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

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 (2012)

River and Code: BALLINLOUGH STREAM 25/B/15
Tributary of: 25C03 CAPPAGH (GALWAY) OS Catchment No: 155
OS Grid Ref of Confluence: M 775 051
Date(s) Surveyed: 5/10/2012, 6/10/2012

Biological Quality Ratings (Q Values)

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<tr>
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<tbody>
<tr>
<td>0050</td>
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<td>4-5</td>
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</table>

Assessment: High ecological conditions continue at the three stations assessed on the Ballinlough Stream in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
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</tbody>
</table>

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 (2012)

River and Code: **BALLINTOTTY**

Tributary of: 25001 OLLATRIM

OS Grid Ref of Confluence: R 895 790

Date(s) Surveyed: 10/7/2012

OS Catchment No: 155

Biological Quality Ratings (Q Values)

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<tbody>
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<td>0040</td>
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<tr>
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<td>3-4</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate community indicated a welcome improvement to satisfactory good ecological conditions at all three stations examined in July 2012. Such conditions have not been observed at the majority of these sites for over twenty five years however excessive algal growth and excessive siltation continues to indicate some nutrient enrichment particularly in the upper reaches (0100, 0240) which will need addressing in order to maintain this improvement.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Phillabeen Br</td>
<td>197074</td>
<td>177638</td>
<td>59</td>
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<td>0110</td>
<td>Br 0.1km d/s Phillabeen Br</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>0200</td>
<td>Br NE of Coolderry</td>
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<td>0</td>
<td>59</td>
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</tr>
<tr>
<td>0240</td>
<td>Br SE of Norwood</td>
<td>192720</td>
<td>177850</td>
<td>59</td>
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<tr>
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<td>Consedine Br (u/s Ollatrim R Confl)</td>
<td>189463</td>
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</tr>
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</table>
River and Code: **BALLYQUIVEEN STREAM**
Tributary of: 25N01 NENAGH
OS Grid Ref of Confluence: R 915 740
Date(s) Surveyed: 11/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
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<tbody>
<tr>
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</tbody>
</table>

Assessment: The macroinvertebrate fauna indicated satisfactory good ecological conditions in July 2012 however some signs of enrichment were evident with excessive siltation and luxuriant plant and algal growth noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0300</td>
<td>81</td>
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<td>11</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BARNACULLIA STREAM**  
Tributary of: 25L06 LISDUFF (KILCROW)  
OS Grid Ref of Confluence: M 766 138  
Date(s) Surveyed: 1/9/2012  

**Biological Quality Ratings (Q Values)**

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<td>3/0</td>
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<td>3/0</td>
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<td>3-4/0</td>
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</tbody>
</table>

**Assessment:** At Station 0100, while mayfly and stonefly nymphs are plentiful, overall diversity is low and mollusca and crustaceans are absent. Evidence of toxicity still remains at this Barnacullia Stream site adjacent to the old Tynagh mine tailing, indicated by poor faunal density and diversity in September 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Bilboa River was in a satisfactory ecological condition in 2012. The macroinvertebrate fauna indicated an unwelcome decline from high to good ecological conditions at Kilcommon (0010). Signs of enrichment were evident with enhanced instream plant and algal growth and excessive siltation of the substratum observed. The increased diversity of sensitive macroinvertebrate species indicated a welcome improvement from moderate to good ecological conditions in the lower reaches (0500).
Hydrometric Area 25 (2012)

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

Tributary of : 25S01 SHANNON (Lower)

OS Grid Ref of Confluence: R 609 587

Date(s) Surveyed: 30/8/2012

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<tr>
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<td>4</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated continuing high ecological conditions in the upper reaches (0120) while a decline to good ecological conditions was noted at the lower station (0250) in late August 2012.

<table>
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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>19</td>
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</table>

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

Tributary of: Lough Graney

OS Grid Ref of Confluence: R 556 949

Date(s) Surveyed: 31/8/2012

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<td>4-5</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated a decline from high to good ecological conditions in the upper reaches (0100) since last surveyed in 2003. The dominance of pollution sensitive macroinvertebrate species indicated high ecological conditions in the lower reaches (0190, 0200) in late August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **BOW**
Tributary of : Lough Derg
OS Grid Ref of Confluence: R 678 847
Date(s) Surveyed: 30/8/2012

### Biological Quality Ratings (Q Values)

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<tbody>
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<td>0100</td>
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<td>0200</td>
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<td>4-5</td>
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</tbody>
</table>

**Assessment:** While high ecological conditions were recorded at both stations assessed on the Bow River in 2012, the slight improvement in Q-value at Station 0100 is balanced by a slight drop in Q-value at Station 0200, where the highest water quality was recorded in 2009.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bow River Br</td>
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<td>58</td>
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<td>Cloontymweenagh Br</td>
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<td>58</td>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CAHERNAHALLIA**  
Tributary of: 25D01 DEAD  
OS Grid Ref of Confluence: R 814 468  
Date(s) Surveyed: 8/8/2012, 9/8/2012  

### Biological Quality Ratings (Q Values)

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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna continues to indicate good ecological conditions at Glengar Bridge however abundant instream macrophyte growth indicates some enrichment. The macroinvertebrate fauna indicated a welcome improvement to good ecological conditions in the lower reaches (0100) when surveyed in August 2012.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
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<tr>
<td>0025</td>
<td>Glengar Br WNW of Leugh</td>
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<tr>
<td>0060</td>
<td>Cahernahallia Br</td>
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<td>Br u/s Dead R confl</td>
<td>182788</td>
<td>148245</td>
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</tr>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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</tbody>
</table>

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 (2012)

River and Code : CAPPAGH (GALWAY)  25/C/03
Tributary of : 25K01 KILCROW  OS Catchment No: 155
OS Grid Ref of Confluence: M 795 042
Date(s) Surveyed: 5/10/2012

Biological Quality Ratings (Q Values)

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<tr>
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<td>4</td>
<td>4</td>
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</tr>
</tbody>
</table>

Assessment: The macroinvertebrate fauna indicated an unwelcome decline from high to good ecological conditions in the upper reaches (0100) of the Cappagh (Galway) River while a satisfactory improvement from moderate to good ecological conditions was noted downstream at Cappagh Bridge (0400) in October 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
<tr>
<td>0070</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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</tbody>
</table>

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 (2012)

River and Code: **CAPPAWHITE STREAM** 25/C/10
Tributary of: 25D01 DEAD
OS Grid Ref of Confluence: R 841 456
Date(s) Surveyed: 8/8/2012, 9/8/2012

**Biological Quality Ratings (Q Values)**

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</thead>
<tbody>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated a slight improvement to moderate ecological conditions at Gortandrum Bridge (0200) however continuing enrichment was noted with abundant algal growth and excessive siltation observed. Good ecological conditions were noted downstream at Ayle Bridge (0300) however some enrichment was evident with siltation and algal growth noted.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>0300</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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</table>

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 (2012)

River and Code : CAUTEEN
Tributary of : 25D01 DEAD
OS Grid Ref of Confluence: R 840 457
Date(s) Surveyed: 9/8/2012

Biological Quality Ratings (Q Values)

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</table>

Assessment: The paucity of sensitive macroinvertebrate fauna continues to indicate unsatisfactory moderate ecological conditions at Cauteen Bridge (0500) when surveyed in August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Over the past decade, there has been a general improvement in the biological water quality of the Cloghaun, with the upper two stations exhibiting high ecological conditions and the lowermost station at good ecological quality in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>0500</td>
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<td>0600</td>
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<td>10</td>
<td>1</td>
<td>13</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: COOS 25/C/08
Tributary of: Lough Derg
OS Grid Ref of Confluence: R 763 946
Date(s) Surveyed: 1/9/2012, 31/8/2012

OS Catchment No: 155

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0010</td>
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<td>-</td>
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<td>4-5</td>
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<td>4</td>
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<td>0180</td>
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<td>-</td>
<td>4-5</td>
<td>3</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>3-4</td>
<td>5</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>2-3</td>
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<td>1</td>
<td>3</td>
<td>4</td>
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</table>

Assessment: Good ecological conditions maintained at both stations assessed in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>147</td>
<td>8</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>59</td>
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<td>0180</td>
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<td>7</td>
<td>67</td>
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<td>15</td>
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<tr>
<td>0200</td>
<td>36</td>
<td>15</td>
<td>100</td>
<td>0</td>
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<td>6</td>
<td>67</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>15</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrate fauna indicated a significant decline in ecological conditions at Station 0100 since it was last assessed in 2003. The drop here from high in 2003 to the current moderate ecological conditions is seen with a complete absence of pollution sensitive invertebrates and dominance of pollution tolerant species. Recent clear-felling noted in the catchment.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>0400</td>
<td>49</td>
<td>19</td>
<td>100</td>
<td>0</td>
<td>33</td>
<td>23</td>
<td>33</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: **DEAD**

Tributary of: 25M04 MULKEAR (LIMERICK)

OS Grid Ref of Confluence: R 763 478

Date(s) Surveyed: 9/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tr>
</tbody>
</table>

**Assessment:** The paucity of sensitive macroinvertebrate species, enhanced plant and algal growth, excessive siltation and calcification of the substrate indicate significantly enriched conditions at both locations surveyed in August 2012. Unsatisfactory ecological conditions overall persist.

**Station Stations Location**

<table>
<thead>
<tr>
<th>No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>185579</td>
<td>143753</td>
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<td>TY</td>
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<tr>
<td>0150</td>
<td>Longford Br</td>
<td>0</td>
<td>0</td>
<td>66</td>
<td>LK</td>
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<tr>
<td>0200</td>
<td>Derraun Br</td>
<td>182500</td>
<td>146327</td>
<td>66</td>
<td>LK</td>
</tr>
<tr>
<td>0300</td>
<td>0.2km d/s Br S of Pullagh u/s Bilboa R confl</td>
<td>0</td>
<td>0</td>
<td>65</td>
<td>LK</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>59</td>
<td>51</td>
<td>49</td>
<td>95</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0200</td>
<td>50</td>
<td>108</td>
<td>47</td>
<td>53</td>
<td>91</td>
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<td>0</td>
<td>3</td>
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<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The low diversity and abundance of macroinvertebrate species indicated an unwelcome decline from high to moderate ecological conditions on the Derrainy in September 2012. The interstitial spaces between stones were heavily filled with fine peaty silt at the station assessed.
River and Code : **DOLLA**  
Tributary of : 25N01 NENAGH  
OS Grid Ref of Confluence: R 882 742  
Date(s) Surveyed: 11/7/2012

**Hydrometric Area 25 (2012)**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<tbody>
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<td>0300</td>
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</tr>
<tr>
<td>0400</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory in 2012.

<table>
<thead>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Br at Dolla</td>
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<td>0</td>
<td>59</td>
<td>TY</td>
</tr>
<tr>
<td>0400</td>
<td>Br u/s Nenagh R confl</td>
<td>187894</td>
<td>173610</td>
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<td>TY</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>67</td>
<td>23</td>
<td>90</td>
<td>10</td>
<td>77</td>
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<td>5</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **DOON STREAM**
Tributary of : 25D01 DEAD
OS Grid Ref of Confluence:
Date(s) Surveyed: 9/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
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<td>2008 3-4*</td>
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<tr>
<td></td>
<td>2012 3-4*</td>
</tr>
</tbody>
</table>

**Assessment:** The paucity of pollution sensitive macroinvertebrate species indicated unsatisfactory ecological conditions on the Doon stream in August 2012.
Assessment: The diversity of pollution sensitive macroinvertebrate fauna indicated high ecological conditions at the two stations surveyed on the Doonane River in August 2012. Some signs of enrichment were evident with enhanced algal growth noted at both stations.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>29</td>
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<td>0</td>
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<td>44</td>
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</table>

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 (2012)

River and Code: DRUMANDOORA
Tributary of: Lough Graney
OS Grid Ref of Confluence: R 551 951
Date(s) Surveyed: 31/8/2012

OS Catchment No: 155

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
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<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
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<tr>
<td>0600</td>
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<td>4-5</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Assessment: The macroinvertebrate fauna indicated continuing high ecological conditions in the upper reaches (0200) however a decline from high to good ecological conditions was indicated at the lower station (0500) in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
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<td>19</td>
<td>0</td>
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<td>0</td>
<td>36</td>
</tr>
</tbody>
</table>

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 (2012)**

**River and Code**: DRUMKEARY STREAM  
**Tributary of**: 25D07 DUNIRY  
**OS Grid Ref of Confluence**: M 698 088  
**Date(s) Surveyed**: 5/10/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<td>0350</td>
<td>4-5</td>
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<tr>
<td>0500</td>
<td>-</td>
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</tbody>
</table>

**Assessment**: The macroinvertebrate fauna indicated high ecological conditions at both sites assessed on the Drumkeary Stream in October 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
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<td>0300</td>
<td>Bridge N.W. of Drumkeary</td>
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<td>206490</td>
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<td>GY</td>
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<td>Second Br u/s Duniry River</td>
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<td>GY</td>
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<tr>
<td>0500</td>
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<td>GY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: DUNIRY  
Tributary of: 25C03 CAPPAGH (GALWAY)  
OS Grid Ref of Confluence: M723090  
Date(s) Surveyed: 5/10/2012

Biological Quality Ratings (Q Values)

<table>
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<tbody>
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<td>0100</td>
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<td>4-5</td>
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<tr>
<td>0300</td>
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<td>0400</td>
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<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: The good ecological conditions at Station 0100 and the high ecological conditions at Stations 0200 and 0400, recorded in the Duniry in 2009 have been maintained in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>100</td>
<td>0</td>
<td>0</td>
<td>41</td>
<td>22</td>
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<td>0</td>
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<td>3</td>
<td>51</td>
<td>13</td>
<td>0</td>
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<td>25</td>
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<td>0400</td>
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<td>56</td>
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<td>0</td>
<td>12</td>
</tr>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **EYRECOURT STREAM**

Tributary of: 25S01 SHANNON (Lower)

OS Grid Ref of Confluence: M 957 152

Date(s) Surveyed: 5/9/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
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<tr>
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<td>3-4</td>
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<td>2-3</td>
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<td>2-3</td>
<td>3</td>
</tr>
<tr>
<td>0200</td>
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<td>0300</td>
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</table>

Assessment: The complete lack of sensitive macroinvertebrate species and dominance of pollution tolerant species continues to indicate poor ecological conditions at the two stations surveyed on the Eyrecourt Stream in September 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>1</td>
<td>2</td>
<td>8</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLASHACLOONARAVEELA** 25/G/02
Tributary of: 25B03 BILBOA
OS Grid Ref of Confluence: R 795 519
Date(s) Surveyed: 8/8/2012

**Assessment:** The macroinvertebrate fauna indicated high ecological conditions in the upper reaches (0100) of the Glashacloonaraveela River in August 2012. The macroinvertebrate fauna indicated continuing good ecological conditions at Glasha Bridge (0500) although enhanced macroalgal growth and excessive siltation of the substratum was evident.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref.</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br E of Crehaun</td>
<td>182196</td>
<td>155473</td>
<td>66</td>
<td>LK</td>
</tr>
<tr>
<td>0500</td>
<td>Glasha Br u/s Bilboa R confl</td>
<td>180075</td>
<td>153503</td>
<td>66</td>
<td>LK</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
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<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>40</td>
<td>14</td>
<td>7</td>
<td>0</td>
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<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENOMRA WOOD STREAM** 25/G/12
Tributary of: 25B06 BLACKWATER (CLARE)
OS Grid Ref of Confluence: R 598 646
Date(s) Surveyed: 30/8/2012

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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Good ecological conditions maintained in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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<td>0100</td>
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</tr>
</tbody>
</table>

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 (2012)

River and Code: **GORTNAGERAGH**  25/G/03
Tributary of: 25B03 BILBOA
OS Grid Ref of Confluence: R 826 526
Date(s) Surveyed: 7/8/2012, 8/8/2012

OS Catchment No: 155

<table>
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<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<tr>
<td>0300</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated good ecological conditions on the Gortnageragh River in 2012 although excessive siltation was noted at both locations examined.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
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<td>187105</td>
<td>154882</td>
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<td>TY</td>
</tr>
<tr>
<td>0300</td>
<td>Br u/s Bilboa R confl</td>
<td>182653</td>
<td>152685</td>
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<td>LK</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
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<td>0</td>
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<tr>
<td>0300</td>
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<td>100</td>
<td>0</td>
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<td>6</td>
<td>0</td>
<td>16</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrate fauna indicated high ecological conditions on the Gortnagowna stream in July 2012 although some signs of enrichment were apparent with increased siltation and the occurrence of instream algae noted.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: While the high ecological conditions of the uppermost two stations (0010, 0025) and Station 0200 have been maintained, there has been an unwelcome decline from high to good ecological conditions at Station 0100 in 2012. The lowermost two stations remain in an unsatisfactory condition, with moderate ecological conditions noted at station 0300 and poor ecological conditions noted at station 0400 downstream of Scarriff town.
Hydrometric Area 25 (2012)

River and Code: **GROODY**

Tributary of: 25S01 SHANNON (Lower)

OS Grid Ref of Confluence: R 604 577

Date(s) Surveyed: 10/8/2012

Biological Quality Ratings (Q Values)

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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>3-4</td>
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</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated a welcome improvement at Killonan Bridge (0150) from poor to good ecological conditions in August 2012 although some signs of enrichment were still evident. The macroinvertebrate fauna indicated an improvement also downstream at Ballysimon (0200) however the abundant instream algal growth and calcification and compaction of the river bed substrata indicated continuing enriched conditions on the Groody River.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
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<td>151663</td>
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<tr>
<td>0150</td>
<td>Killonan Br</td>
<td>163587</td>
<td>154302</td>
<td>65</td>
<td>LK</td>
</tr>
<tr>
<td>0200</td>
<td>Br in Ballysimon</td>
<td>161539</td>
<td>155168</td>
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<td>Groody Br</td>
<td>160593</td>
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<td>LK</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>33</td>
<td>7</td>
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<td>100</td>
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<td>0</td>
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<td>0</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** The paucity of sensitive macroinvertebrate species and excessively abundant instream macrophyte growth continues to indicate unsatisfactory moderate ecological conditions in the upper reaches (0004) of the Inch (Bilboa) River. Good ecological conditions continue on the lower reaches (0008) when surveyed in August 2012.

### Biological Quality Ratings (Q Values)

<table>
<thead>
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<th></th>
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<th></th>
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<th></th>
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</thead>
<tbody>
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</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>100</td>
<td>0</td>
<td>66</td>
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<td>16</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>11</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: **KILCROW**
Tributary of: Lough Derg
OS Grid Ref of Confluence: M 801 031
Date(s) Surveyed: 1/9/2012, 6/10/2012, 7/9/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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**Assessment:** There was an overall general decline noted in the Kilcrow River in 2012 where six of the seven stations surveyed indicated unsatisfactory moderate ecological conditions. The paucity of sensitive macroinvertebrate species and dominance of pollution tolerant species indicated an unwelcome decline at Killoran Bridge (0020), Ahanageleery Bridge (0100), downstream of Killmor at Hearnesbrook Bridge (0300) and downstream of the Lisduff (Kilcrow) river confluence at West Bridge (0360). Good ecological conditions continue in the lower reaches at Ballyshrule Bridge (0700).
### Site Altitude and Upstream Catchment Characteristics (where available):

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: KILLEENGARRIFF 25/K/02
Tributary of: 25M04 MULKEAR (LIMERICK) OS Catchment No: 155
OS Grid Ref of Confluence: R 678 539
Date(s) Surveyed: 2/8/2012

Biological Quality Ratings (Q Values)

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Assessment: Good ecological conditions continue on the Killeengarriff River (0150) in August 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 (2012)

River and Code: KILMASTULLA 25/K/04
Tributary of: 25S01 SHANNON (Lower)
OS Grid Ref of Confluence: R 697 697
OS Catchment No: 155
Date(s) Surveyed: 18/7/2012, 30/7/2012

Biological Quality Ratings (Q Values)

0120      -    -    -    -    -    -    -    -   3    3-4   3-4   3-4   3-4   3-4   3-4
0150      -    -    -    -    -    -    -    4-5  3-4   -    -    -    -    -    -
0300      -    3    2/0  1/0  3/0  3    -    3   -    -    -    -    3    -    -
0700      -    2    1/0  1/0  2/0  3    -    3-4  -    -    -    -    -    -    -
0800      -    2    2-3  1/0  3/0  3-4  3/0  3-4  3/0  3/0  3*   3    3-4   3-4   3-4
0900      3-4  3-4  3/0  3/0  3/0  3-4  4    4    4/0  3-4  -    -    -    -    -
0910      -    -    -    -    -    -    -    -   -    -    -    3-4   3-4   3-4   3-4
0950      -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
1000      5    4-5  4    3-4  4    4    4    4-5  4-5  3/0  3-4  4    3-4   4    3-4

Assessment: The paucity of sensitive macroinvertebrate fauna and dominance of pollution tolerant macroinvertebrate species coupled with enhanced instream plant and algal growth indicated continuing unsatisfactory moderate ecological conditions at Carrow's Bridge (0120), Cranna Bridge (0800) and near Cappadine (0910) on the Kilmastulla River in July 2012. A welcome improvement in the diversity of pollution sensitive macroinvertebrate species indicated a return to good ecological conditions in the lower reaches at Cool Bridge (1000) although compaction and siltation of the river bed was pronounced.

Site Altitude and Upstream Catchment Characteristics (where available):

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

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 25 (2012)**

**River and Code:** LISDUFF (KILCROW)  
**Tributary of:** 25K01 KILCROW  
**OS Grid Ref of Confluence:** M 793 124  
**Date(s) Surveyed:** 1/9/2012  

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**Assessment:** The Lisduff (Kilcrow) River drains the region of the old Tynagh Mines and toxic effects have been noted in past surveys. The macroinvertebrate fauna continues to indicate unsatisfactory moderate ecological conditions in 2012. Signs of enrichment were evident with abundant instream filamentous algal growth noted in the lower station (0400).

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Biological Quality Ratings (Q Values)

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</tbody>
</table>

**Assessment:** The Lisduff Stream has been historically impacted by the Tynagh Mines lake outflow (the lake covers what was an open cast section of the mine), which contains relatively high heavy metal concentrations. The paucity of macroinvertebrate fauna and low dissolved oxygen (48% saturation) indicated continuing poor ecological conditions in the upper station again in 2012. The paucity of sensitive macroinvertebrate species indicated an unwelcome decline from moderate to poor ecological conditions at the lower station (0200).

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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</tbody>
</table>

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 (2012)

River and Code: **MOUNTRICE**
Tributary of: 25B06 BLACKWATER (CLARE)
OS Grid Ref of Confluence: R 585 654
Date(s) Surveyed: 30/8/2012
OS Catchment No: 155

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**Assessment:** High ecological conditions maintained in 2012.

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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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<td>0</td>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Mulkear (Limerick) River was in a satisfactory ecological condition at the three stations surveyed in September 2012. Good ecological conditions continue at Brittas Bridge (0200) while the macroinvertebrate fauna indicated a decline from high to good ecological conditions downstream near Boher (0400). The diversity of pollution sensitive macroinvertebrate species indicated an increase from good to high ecological conditions at Annacotty Bridge (0590).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
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<th>Area</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
### Biological Quality Ratings (Q Values)

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</tr>
</tbody>
</table>

**Assessment:** Of the seven stations surveyed in July 2012, five were in a satisfactory ecological condition. The macroinvertebrate fauna indicated high ecological conditions in the upper reaches near Ballyhane Cross (0050), Lacken bridge (0200) and at Ballysoilshaun Bridge (0300). Good ecological conditions were again noted at Cloghinch (0100). The macroinvertebrate fauna indicated a welcome improvement at Tyone Bridge (0500) from moderate to good ecological conditions. However unsatisfactory moderate ecological conditions continue in the lower reaches downstream of Nenagh town (0700, 0800).

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Newport (Tipperary) River was in a highly satisfactory ecological condition when surveyed in late July/early August 2012. Such conditions have not been evident in nearly twenty years. The abundance and diversity of sensitive macroinvertebrate species indicated high ecological conditions at all five stations surveyed although increased siltation and or compaction of the river bed substrata was noted in the upper reaches near Coolrantha (0080), upstream of the Doonane River confluence (0100), at Rockvale (0200) and downstream of Newport (0330).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Good ecological conditions were noted at the two stations surveyed on the Newtown River in July 2012 however a decline from high ecological conditions was noted at Carrigmadden Bridge (0100) when compared to the previous survey in 2005. Some signs of nutrient enrichment were evident with enhanced plant and algal growth noted.
Hydrometric Area 25 (2012)

River and Code : OLLATRIM 25/O/01
Tributary of : 25N01 NENAGH
OS Grid Ref of Confluence: R 873 804
Date(s) Surveyed: 9/7/2012, 10/7/2012

OS Catchment No: 155

Biological Quality Ratings (Q Values)

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</table>

Assessment: Of the six stations surveyed on the Ollatrim River in July 2012, three were in a satisfactory ecological condition while the other three stations were deemed unsatisfactory (0040, 0080, 0600). The macroinvertebrate fauna indicated moderate ecological conditions in the upper reaches near Ballybeg and Aghnameadle. Excessive siltation and abundant macrophyte or algal growth indicated enriched conditions. The dominance of sensitive macroinvertebrate fauna indicated high ecological conditions at station 0150 and downstream at station 0250. The macroinvertebrate fauna indicated a welcome improvement from moderate to good ecological conditions at Rathurles bridge (0400) however excessive siltation and some algal growth continues to indicate some enrichment.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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</tr>
<tr>
<td>0150</td>
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<td>0250</td>
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<td>68</td>
<td>82</td>
<td>18</td>
<td>77</td>
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<td>0</td>
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<td>5</td>
</tr>
<tr>
<td>0400</td>
<td>68</td>
<td>81</td>
<td>69</td>
<td>31</td>
<td>75</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>13</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>0600</td>
<td>49</td>
<td>120</td>
<td>56</td>
<td>44</td>
<td>74</td>
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<td>1</td>
<td>1</td>
<td>17</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code: **SCARRIFF STREAM** 25/S/08
Tributary of: 25G04 GRANEY (SHANNON)
OS Grid Ref of Confluence: R 641 844
Date(s) Surveyed: 30/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The Scarriff Stream remains in an unsatisfactory moderate ecological condition in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>West Br Scarriff</td>
<td>164100</td>
<td>184608</td>
<td>58</td>
<td>CE</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>36</td>
<td>8</td>
<td>59</td>
<td>41</td>
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<td>2</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>31</td>
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</tbody>
</table>

Alt is in metres. Area is km². Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 25 (2012)

River and Code: **SHANNON (Lower)** 25/S/01
Tributary of: Sea Shannon Estuary
OS Grid Ref of Confluence: R 580 600
Date(s) Surveyed: 2/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2060</td>
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<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>2500</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>-</td>
<td>3-4</td>
</tr>
<tr>
<td>2600</td>
<td>-</td>
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<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated good ecological conditions at Incherky Quay (2060) in August 2011 while the dominance of pollution tolerant macroinvertebrate species and excessive instream plant and filamentous algal growth indicated unsatisfactory ecological conditions at Castleconnell (2500) in August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2060</td>
<td>Incherky Quay (RHS)</td>
<td>195210</td>
<td>214290</td>
<td>53</td>
<td>OF</td>
</tr>
<tr>
<td>2500</td>
<td>Castleconnell: World's End</td>
<td>165836</td>
<td>163576</td>
<td>58</td>
<td>LK</td>
</tr>
<tr>
<td>2600</td>
<td>Athlunkard Br (d/s LHS)</td>
<td>158805</td>
<td>159031</td>
<td>65</td>
<td>CE</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>2060</td>
<td>N/A</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2500</td>
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<td>4119</td>
<td>25</td>
<td>75</td>
<td>63</td>
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<td>10</td>
<td>1</td>
<td>10</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>2600</td>
<td>1</td>
<td>4933</td>
<td>30</td>
<td>70</td>
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<td>9</td>
<td>2</td>
<td>10</td>
<td>3</td>
<td>8</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SILVERMINES VILLAGE STREAM** 25/S/10
Tributary of: 25K04 KILMASTULLA
OS Grid Ref of Confluence: R 807 717
Date(s) Surveyed: 16/7/2012

**Kilmastulla 0040 to 0100 incl.**

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>-</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>-</td>
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<td>3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated high ecological conditions at Silvermines Bridge (0050) in July 2012 however the paucity of sensitive macroinvertebrate fauna indicated unsatisfactory moderate ecological conditions downstream of Silvermines village at Kilmore Bridge (0100).

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
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<td>11</td>
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<td>0</td>
<td>45</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code : SMALL (TIPPERARY) 25/S/05
Tributary of : 25N02 NEWPORT (TIPPERARY) OS Catchment No: 155
OS Grid Ref of Confluence: R 726 623
Date(s) Surveyed: 1/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>4-5</td>
<td>4-5</td>
<td>3-4*</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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</tbody>
</table>

Assessment: Continuing satisfactory in August 2012.

Station Locations

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br 1.9km u/s Newport</td>
<td>174289</td>
<td>162494</td>
<td>59</td>
<td>TY</td>
</tr>
<tr>
<td>0200</td>
<td>Br u/s Newport R confl</td>
<td>174195</td>
<td>162594</td>
<td>59</td>
<td>TY</td>
</tr>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>91</td>
<td>8</td>
<td>100</td>
<td>0</td>
<td>14</td>
<td>5</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>75</td>
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<tr>
<td>0200</td>
<td>88</td>
<td>9</td>
<td>100</td>
<td>0</td>
<td>16</td>
<td>5</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>73</td>
</tr>
</tbody>
</table>

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 (2012)

River and Code : TOEM STREAM
Tributary of : 25D01 DEAD
OS Grid Ref of Confluence: R 840 455
Date(s) Surveyed: 8/8/2012, 9/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4*</td>
</tr>
<tr>
<td>0600</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4*</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: The macroinvertebrate fauna indicated good ecological conditions at the two stations surveyed in August 2012 although the impacts of excessive instream siltation were evident in the upper reaches (0300).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>93</td>
<td>3</td>
<td>100</td>
<td>0</td>
<td>41</td>
<td>4</td>
<td>3</td>
<td>0</td>
<td>51</td>
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<td>0</td>
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<tr>
<td>0600</td>
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<td>104</td>
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<td>51</td>
<td>92</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrate fauna indicated a general decline in ecological conditions at all three stations surveyed in 2012. The paucity of macroinvertebrate fauna and complete lack of any pollution sensitive species indicated poor ecological conditions in the upper reaches (0040). Heavy instream siltation was also noted. The macroinvertebrate fauna indicated an unwelcome decline from good to unsatisfactory moderate ecological conditions at Bolag Bridge and an unwelcome decline from high to good ecological conditions at Rossmore Bridge.
River and Code: **YELLOW (KILMASTULLA)**
Tributary of: 25K04 KILMASTULLA
OS Grid Ref of Confluence: R 800 200
Date(s) Surveyed: 31/7/2012

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3-4</td>
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<td>3-4</td>
</tr>
<tr>
<td>0300</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The Yellow (Kilmastulla) Stream was in a satisfactory ecological condition upstream of the Garryard Stream confluence (0200). The relative scarcity of macroinvertebrate fauna and paucity of pollution sensitive species indicated moderate ecological conditions downstream of the Garryard stream confluence (0300). Lead and zinc levels are known to be high at this location. Note: Station 0200 is reported by Kilkenny Regional laboratory as Kilmastulla Station 0500, Station 0300 (above) as Kilmastulla 0600 and the Garryard Stream (qv) is reported as Kilmastulla Station 0400.
Hydrometric Area 25 (2012)

River and Code : **YOUGHAL (TIPPERARY)** 25/Y/02
Tributary of : Lough Derg
OS Grid Ref of Confluence:  R 798 827
Date(s) Surveyed:  17/7/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Br N of Curragh</td>
<td>176193</td>
<td>180089</td>
<td>59</td>
<td>TY</td>
<td></td>
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<tr>
<td>0100</td>
<td>Ballycartridge Br</td>
<td>0</td>
<td>0</td>
<td>59</td>
<td>TY</td>
<td></td>
</tr>
<tr>
<td>0200</td>
<td>Br at Youghal</td>
<td>179077</td>
<td>182068</td>
<td>59</td>
<td>TY</td>
<td></td>
</tr>
</tbody>
</table>

Assessment: The complete lack of pollution sensitive macroinvertebrate species, abundant instream algal growth and excessive siltation of the river bed substratum continues to indicate unsatisfactory moderate ecological conditions in the upper reaches of the Youghal River (0050) in August 2012. The increased diversity and abundance of pollution sensitive macroinvertebrate species indicated high ecological conditions at Youghal (0200).

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>111</td>
<td>7</td>
<td>100</td>
<td>0</td>
<td>59</td>
<td>13</td>
<td>15</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td>5</td>
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<tr>
<td>0200</td>
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<td>75</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

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. 25

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>WFD Quality Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2012</td>
<td>7.3</td>
<td>19.3</td>
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<td>0.0</td>
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<tr>
<td>Ardloony</td>
<td>2012</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Arderon Stream</td>
<td>2011</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
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<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>7.0</td>
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<tr>
<td>Ayle</td>
<td>2012</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5.5</td>
</tr>
<tr>
<td>Ballinlough Stream</td>
<td>2012</td>
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<td>0.0</td>
<td>0.0</td>
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### Hydrometric Area 25 (2012)

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>Year</th>
<th>Code</th>
<th>Total</th>
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<tbody>
<tr>
<td>WFD Quality Class</td>
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<tr>
<td>Total Length (km) surveyed this cycle</td>
<td>2011/12</td>
<td>270.7</td>
<td>493.5</td>
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<tr>
<td>Adjustments (km) (See below)*</td>
<td>2011/12</td>
<td>24.7</td>
<td>45.0</td>
</tr>
<tr>
<td>Current Length (km) Adjusted</td>
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<tr>
<td>Percentages</td>
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**Baseline: Current Adjusted Status (km)**

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>2010-'12</th>
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</thead>
<tbody>
<tr>
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<td>A High</td>
<td>B Good</td>
<td>C Moderate</td>
<td>D Poor</td>
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<td>504.5</td>
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<tr>
<td>Current Length (km) Adjusted</td>
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<td>493.5</td>
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<td>26.5</td>
<td>3.9</td>
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**Baseline: Previous Unadjusted Status (km)**

<table>
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<tr>
<th>Changes since Previous Survey (km)</th>
<th>2007-'09</th>
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</thead>
<tbody>
<tr>
<td>WFD Quality Class</td>
<td>A High</td>
<td>B Good</td>
<td>C Moderate</td>
<td>D Poor</td>
<td>Total</td>
<td></td>
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<tr>
<td>Total</td>
<td>222.1</td>
<td>368.9</td>
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<td>33.6</td>
<td>39.5</td>
<td>6.4</td>
<td>0.2</td>
<td>100.0</td>
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<tr>
<td>Changes since Previous Survey (km)</td>
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<td>124.6</td>
<td>-143.3</td>
<td>-27.4</td>
<td>-2.5</td>
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</tbody>
</table>

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Black (Ballyboy) 25B04, County (25C21), Durrow Abbey Stream (25D12), Lisduff (Shannon) (25L07) and Rock (Birr) (25R02) were added into the survey in 2011-2012.

**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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
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<td>52</td>
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<tr>
<td>Good</td>
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<tr>
<td>Moderate</td>
<td>80</td>
<td>70</td>
</tr>
<tr>
<td>Poor</td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>Total number of sites surveyed</td>
<td>191</td>
<td>239</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
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<td>86</td>
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**HYDROMETRIC AREA 28 (Mal Bay)**

<table>
<thead>
<tr>
<th>Location</th>
<th>Code</th>
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<tbody>
<tr>
<td>AILLE (CLARE)</td>
<td>28A01</td>
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<tr>
<td>ANNAGEERAGH</td>
<td>28A02</td>
</tr>
<tr>
<td>ANNAGH (CLARE)</td>
<td>28A03</td>
</tr>
<tr>
<td>AUGHAGLANNA</td>
<td>28A06</td>
</tr>
<tr>
<td>AUGHAVEEMA</td>
<td>28A04</td>
</tr>
<tr>
<td>BALLINPHONTA</td>
<td>28B03</td>
</tr>
<tr>
<td>BALLYMACRAVAN</td>
<td>28B02</td>
</tr>
<tr>
<td>CAHER (CLARE)</td>
<td>28C01</td>
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<tr>
<td>CASTLE PARK STREAM</td>
<td>28C09</td>
</tr>
<tr>
<td>CLOONEENAGH STREAM *</td>
<td>28C08</td>
</tr>
<tr>
<td>COOLEEN</td>
<td>28C05</td>
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<tr>
<td>CREEGH</td>
<td>28C02</td>
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<tr>
<td>DEALAGH</td>
<td>28D01</td>
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<tr>
<td>DOONBEG</td>
<td>28D02</td>
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<tr>
<td>FREAGH</td>
<td>28F01</td>
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<td>GLENDINE (CLARE)</td>
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<td>INAGH (ENNISTYMON)</td>
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<tr>
<td>KILDEEMA</td>
<td>28K01</td>
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<tr>
<td>KILMIHIL STREAM</td>
<td>28K02</td>
</tr>
<tr>
<td>SRUAHUNAKIT STREAM *</td>
<td>28S04</td>
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</table>

*CASTLE PARK STREAM Previously reported as part of the Creegh 28C02*
*CLOONEENAGH STREAM Previously reported as part of the Creegh 28C02*
*SRUAHUNAKIT STREAM Previously reported as part of the Annageeragh 28A02*
River and Code: **AILLE (CLARE)**  
Tributary of: 28A02 ANNAGEERAGH  
OS Grid Ref of Confluence: R 065 964  
Date(s) Surveyed: 4/9/2012

**Biological Quality Ratings (Q Values)**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>-</td>
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<td>5</td>
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<td>3-4</td>
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<tr>
<td>0300</td>
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<td>3-4</td>
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<td>3-4</td>
<td>3</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
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</tbody>
</table>

**Assessment:** The upper site surveyed (0200 Spectacle Bridge) remained at good ecological condition but a drop in quality was noted downstream of the Lisdoonvarna wastewater treatment plant (0300) in comparison with 2009. A slight improvement was noted, however, in Doolin (0400).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
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<tbody>
<tr>
<td>0100</td>
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<td>115189</td>
<td>198079</td>
<td>51</td>
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<td>0190</td>
<td>U/s Spectacle Bridge</td>
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<td>Spectacle Bridge</td>
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<td>197834</td>
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<td>Drehidnalacken Bridge</td>
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<td>197120</td>
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<td>0400</td>
<td>Bridge in Roadford</td>
<td>107993</td>
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</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<tr>
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<td>7</td>
<td>1</td>
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</table>

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 28 (2012)

River and Code : ANNAGEERAGH

Tributary of : 28A02 ANNAGEERAGH

OS Grid Ref of Confluence : R 005 710

Date(s) Surveyed: 11/12/2012

Biological Quality Ratings (Q Values)

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<tbody>
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<td>4-5</td>
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</tbody>
</table>

Assessment: The upper Annageeragh site (0010) which is upstream of Doo Lough is impacted, apparently by forestry, and it still lacks certain acid-sensitive mayflies. Downstream of Doo Lough and downstream of the Water Treatment Plant, the first station monitored (0100) showed a decline in quality from Q4-5 to Q4 compared with September 2009 when it was last surveyed biologically. Musty organic mats were noted. Salmonids were noted at this point possibly spawning. No change in quality was noted at Annageeragh Bridge (0300).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
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<td>0050</td>
<td>Bridge u/s moyglass bridge</td>
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<td>Annageeragh Br</td>
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<td>170908</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasteur</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>27</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: A continuing problem was noted in the upper Annagh (0200) with toxicity effects being a possibility. The upper catchment is afforested. The lower site surveyed (0900) was in satisfactory condition in September 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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</tbody>
</table>

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 28 (2012)

River and Code : **AUGHAGLANNA**
Tributary of : 28I01 INAGH (ENNISTYMON)
OS Grid Ref of Confluence:  R 218 775
Date(s) Surveyed:  5/9/2012

**Biological Quality Ratings (Q Values)**

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<td>4-5</td>
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</tbody>
</table>

**Assessment:** No change noted in comparison with 2009. Satisfactory.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0200</td>
<td>Bridge N.W. of Reanaglisha</td>
<td>118908</td>
<td>174801</td>
<td>57</td>
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<td>Aughaglanna Bridge</td>
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<td>0</td>
<td>0</td>
<td>CE</td>
</tr>
<tr>
<td>0700</td>
<td>Bridge u/s Inagh river confl</td>
<td>121286</td>
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<td>CE</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>21</td>
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</tbody>
</table>

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 28 (2012)

River and Code: AUGHAVEEMA
Tributary of: OS Catchment No: 151
OS Grid Ref of Confluence: Q 998 724
Date(s) Surveyed: 11/12/2012

Biological Quality Ratings (Q Values)

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<td>3-4</td>
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</table>

Assessment: The improvement in quality noted in the Aughaveema River at Station 0600 in 2009 was maintained in 2012.

Station No. | Stations Location          | National X | Grid Ref. Y | Discovery Series No. | County Code |
-------------|---------------------------|------------|-------------|----------------------|-------------|
0300         | Drehidnacarriga           | 105257     | 173195      | 57                   | CE          |
0500         | Kilmurry Bridge           | 0          | 0           | 0                    | CE          |
0600         | Ballynabean Bridge        | 101359     | 173612      | 57                   | CE          |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>2</td>
<td>0</td>
<td>25</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLINPHONTA**
Tributary of:  
OS Grid Ref of Confluence:  
Date(s) Surveyed:  

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<th></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>0300</td>
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**Assessment:** Satisfactory.

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<tr>
<th>Station No.</th>
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<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0300</td>
<td>Bridge S.W. of Ballinphonta</td>
<td>105904</td>
<td>180269</td>
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<td>CE</td>
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<tr>
<td>0500</td>
<td>Cleedagh Bridge</td>
<td>103865</td>
<td>179758</td>
<td>57</td>
<td>CE</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
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<td>100</td>
<td>47</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>37</td>
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<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The upper Ballymacravan was flowing when surveyed in September 2012. Frequently this river runs dry due in part at least to the abstraction of water from Lickeen Lough which is its source. Quality was slightly impaired at this location (0100) while the lower section (downstream of the water works) maintained the improvement noted in 2006.
**Hydrometric Area 28 (2012)**

**River and Code:** CAHER (CLARE)  
**Tributary of:**  
**Tributary of:**  
**OS Grid Ref of Confluence:** M 137 083  
**Date(s) Surveyed:** 4/9/2012  
**Biological Quality Ratings (Q Values)**

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<tbody>
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</tbody>
</table>

**Assessment:** This is a high status river of particular importance and scientific interest located in the Burren area. Water quality remained very good but the algal communities which were fairly abundant give an indication of the nutrient pressure on the system in this karst area. Surface-groundwater flows of water allow easy transport of nutrients from sources such as septic tanks or agricultural application of animal slurries or fertiliser.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
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<td>117331</td>
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<tr>
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<td>Carha Br</td>
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<td>208235</td>
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<td>Fanore Br</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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<td>7</td>
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<td>79</td>
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</table>

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 28 (2012)

River and Code: **CASTLEPARK STREAM** 28/C/09
Tributary of: 28C02 CREEGH
OS Grid Ref of Confluence: R 091 667
Date(s) Surveyed: 11/12/2012

Previously reported as part of the Creegh 28C02

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Biological Quality Ratings (Q Values)

Assessment: Satisfactory.

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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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</table>

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 28 (2012)

River and Code : CLOONEENAGH STREAM 28/C/08
Tributary of : 28C02 CREEGH
OS Grid Ref of Confluence: R 048 668
Date(s) Surveyed: 10/12/2012

Previously reported as part of the Creegh 28C02

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<td>4-5</td>
<td>4-5</td>
<td>4</td>
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Biological Quality Ratings (Q Values)

Assessment: A disappointing very definite drop in quality was noted in the Clooneenagh Stream when sampled late in 2012. Investigation of the cause of this decline is required.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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 28 (2012)

River and Code: COOLEEN
Tributary of: OS Catchment No: 149
OS Grid Ref of Confluence: R 129 924
Date(s) Surveyed: 5/9/2012

<table>
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<th>Biological Quality Ratings (Q Values)</th>
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Assessment: Satisfactory conditions continued in the Cooleen.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
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<td>Cooleen Br</td>
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<td>193323</td>
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<td>CE</td>
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<tr>
<td>0500</td>
<td>400 m u/s Carrowkeel River</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

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 28 (2012)

River and Code : **CREEGH**

Tributary of : **OS Catchment No: 153**

OS Grid Ref of Confluence: **Q 984 672**

Date(s) Surveyed: **10/12/2012, 14/9/2012**

Biological Quality Ratings (Q Values)

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Assessment: All sites surveyed on the Creegh were satisfactory in 2012 - no change in comparison with 2009.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **DEALAGH**

Tributary of: 28/D/01

OS Grid Ref of Confluence: R 092 895

Date(s) Surveyed: 5/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** A significant drop in quality was noted at the upper Dealagh site (0040). The lower survey site (0350) showed no change on the previous recent surveys.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
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<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
### Biological Quality Ratings (Q Values)

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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Area</th>
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<th>Pasture</th>
<th>Forestry</th>
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</table>

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 28 (2012)

River and Code : **FREAGH**  28/F/01
Tributary of : OS Catchment No:  g4
OS Grid Ref of Confluence:  R 035 814
Date(s) Surveyed:  6/9/2012

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**Assessment:**  No improvement noted in this small coastal stream in comparison with previous surveys.

<table>
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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

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 28 (2012)

River and Code : **GLENDINE (CLARE)**
Tributary of : 28A03 ANNAGH (CLARE)  OS Catchment No: 150
OS Grid Ref of Confluence : R 047 371
Date(s) Surveyed: 11/12/2012

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**Assessment:** Satisfactory.

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<th>Grid Ref. Y</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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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 28 (2012)**

River and Code: **INAGH (ENNISTYMON)** 28/I/01

Tributary of: OS Catchment No: 149

OS Grid Ref of Confluence: R 085 888

Date(s) Surveyed: 5/9/2012, 6/9/2012

**Biological Quality Ratings (Q Values)**

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</tr>
</tbody>
</table>

**Assessment:** All stations surveyed in September 2012 were in good ecological condition - no significant change compared with 2009.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>18</td>
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<td>0400</td>
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<td>0</td>
<td>17</td>
</tr>
</tbody>
</table>

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 28 (2012)

River and Code : KILDEEMA
Tributary of : 28A03 ANNAGH (CLARE)
OS Grid Ref of Confluence: R 050 762
Date(s) Surveyed: 11/12/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td>4</td>
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<td>3-4</td>
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<td>0600</td>
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<td>5</td>
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<td>-</td>
</tr>
<tr>
<td>0800</td>
<td>4-5</td>
<td>4-5</td>
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<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Satisfactory up stream of the confluence with the Annagh River (qv).

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>Doonsallagh Bridge</td>
<td>109363</td>
<td>176752</td>
<td>57</td>
<td>CE</td>
</tr>
<tr>
<td>0600</td>
<td>Bridge d/s Doonsallagh Br</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>CE</td>
</tr>
<tr>
<td>0800</td>
<td>Bridge u/s Annagh River</td>
<td>105048</td>
<td>176101</td>
<td>57</td>
<td>CE</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>89</td>
<td>6</td>
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<td>100</td>
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<td>20</td>
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<td>38</td>
<td>0</td>
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<td>10</td>
<td>0</td>
<td>35</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KILMIHIL STREAM**
Tributary of: 28D02 DOONBEG
OS Grid Ref of Confluence: R 061 621
Date(s) Surveyed: 14/9/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Poor conditions downstream of Kilmihil village. This small stream is impacted by the wastewater treatment plant.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Second Br u/s Doonbeg River</td>
<td>110035</td>
<td>162510</td>
<td>57</td>
<td>CE</td>
</tr>
</tbody>
</table>
Hydrometric Area 28 (2012)

River and Code: **SRUHAUNAKIT STREAM**  28/S/04
Tributary of: 28A02 ANNAGEERAGH
OS Grid Ref of Confluence: 28A02  OS Catchment No: 152
Date(s) Surveyed: 11/12/2012

*Previously reported as part of the Annageeragh 28A02*

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>0500</td>
<td>5</td>
<td>-</td>
<td>3</td>
<td>-</td>
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<tr>
<td>0600</td>
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<td>4</td>
<td>-</td>
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</tbody>
</table>

**Assessment:** No change observed compared with the previous two surveys - good condition maintained.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0500</td>
<td>Sruhaunakit Bridge</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</table>

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. 28

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>Year</th>
<th>Code</th>
<th>WFD Quality Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
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<tbody>
<tr>
<td>Aille (Clare)</td>
<td>2012</td>
<td>28A01</td>
<td></td>
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<td>8.2</td>
<td>1.9</td>
<td>1.0</td>
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<tr>
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<td>2.5</td>
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<tr>
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<tr>
<td>Aughaglanna</td>
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<td></td>
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<td>1.7</td>
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<td>11.0</td>
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<tr>
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<td>0.0</td>
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<td>3.0</td>
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<td>0.0</td>
<td>5.5</td>
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<td>0.0</td>
<td>7.5</td>
</tr>
<tr>
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<tr>
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<td>1.0</td>
</tr>
</tbody>
</table>

Total Length (km) surveyed this cycle: 6.1

Adjustments (km) (See below)*: 0.0

Current Length (km) Adjusted: 2012

<table>
<thead>
<tr>
<th>Percentages</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3</td>
<td>81.6</td>
<td>8.0</td>
<td>7.1</td>
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<td>100.0</td>
</tr>
</tbody>
</table>

Channel Length (km) in Class

Baseline : Current Adjusted Status (km): 2010-'12

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
<td>156.2</td>
<td>14.8</td>
<td>13.0</td>
<td>0.0</td>
<td>184.0</td>
</tr>
<tr>
<td>Percentages</td>
<td>84.9</td>
<td>8.0</td>
<td>7.1</td>
<td>0.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Baseline: Previous Unadjusted Status (km)**: 2007-'09

<table>
<thead>
<tr>
<th>Percentages</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.8</td>
<td>144.1</td>
<td>14.3</td>
<td>10.8</td>
<td>0.0</td>
<td>184.0</td>
</tr>
<tr>
<td>Changes since Previous Survey (km)</td>
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<td>6.0</td>
<td>0.4</td>
<td>2.3</td>
<td>0.0</td>
</tr>
</tbody>
</table>

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Freagh (28F01) was added into the survey in 2011-2012.

** 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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Good</td>
<td>25</td>
<td>28</td>
</tr>
<tr>
<td>Moderate</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Poor</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total number of sites surveyed</td>
<td>35</td>
<td>38</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

Hydrometric Area 28 : Trends

% Surveyed Channel Length in Four Quality Classes

Class A: Unpolluted
Class B: Slightly Polluted
Class C: Moderately Polluted
Class D: Seriously Polluted
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 29 (Galway Bay South East)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BALLYMABILLA</strong></td>
</tr>
<tr>
<td><strong>BEAGH</strong></td>
</tr>
<tr>
<td><strong>BOLEYNEENDORRISH</strong></td>
</tr>
<tr>
<td><strong>CANNAHOWNA</strong></td>
</tr>
<tr>
<td><strong>CARRA STREAM</strong></td>
</tr>
<tr>
<td><strong>CLARINBRIDGE</strong></td>
</tr>
<tr>
<td><strong>KILCOLGAN</strong></td>
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<tr>
<td><strong>KNOCKNAREBANA</strong></td>
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<td><strong>LECARROW STREAM</strong></td>
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<td><strong>OWENDALULLEEGH</strong></td>
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<tr>
<td><strong>RAFORD</strong></td>
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<tr>
<td><strong>TOBERDONEY</strong></td>
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*LECARROW STREAM Previously reported as part of the Carra (29C03)*
**River and Code:** BALLYMABILLA

**Tributary of:** 29R01 RAFFORD

**OS Grid Ref of Confluence:** M 649 274

**Date(s) Surveyed:** 21/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Good ecological condition again recorded in this Raford River (qv) tributary.

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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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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 29 (2012)

River and Code: BEAGH
Tributary of: Goes underground - Cannahowna
OS Grid Ref of Confluence: M 455 001
Date(s) Surveyed: 20/9/2012

OS Catchment No: 146

Biological Quality Ratings (Q Values)

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Assessment: A slight drop in quality was noted in the Beagh River compared with 2009. Good ecological condition was recorded.

Station No. Stations Location National X Grid Ref. Y Discovery Series No. County Code
0100 S Cloghnakeava 146728 200612 52 GY

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Very good ecological conditions were noted in the upper Boleyneeddorrish River in 2012. The lower site retained its good ecological quality.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CANNAHOWNA**

Tributary of: (Goes underground)

OS Grid Ref of Confluence: M 452 018

Date(s) Surveyed: 21/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** The Cannahowna is sampled downstream of Gort just before it goes underground. Good ecological conditions were maintained in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
<th>Forestry</th>
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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 29 (2012)

River and Code : **CARRA STREAM**

Tributary of : 29T01 TOBERDONEY

OS Grid Ref of Confluence: M 553 214

Date(s) Surveyed: 2/10/2012, 21/9/2012

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</table>

**Assessment:** The upper station (0900) remained at moderate condition for macroinvertebrates but an improvement was noted at Carra Bridge. The lower section at Dunsandle and Ballynahivnia was satisfactory in 2012 with no change compared with 2009.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
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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 29 (2012)

River and Code: CLARINBRIDGE
Tributary of: Sea - Galway Bay
OS Grid Ref of Confluence: M 413 200
Date(s) Surveyed: 13/9/2012

Biological Quality Ratings (Q Values)

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Assessment: The section upstream of Athenry was in satisfactory condition in September 2012 showing no change on 2009. A definite improvement was noted downstream of Athenry near Mulpit (0300) with the condition improving from bad to poor ecological condition (based on combined quality elements). Moderate ecological conditions were noted at Whistle Bridge (0400) which was similar to the 2009 results. Overall a welcome improvement due to the ongoing programmes of measures at the Athenry wastewater treatment plant. Further improvement is required, however, to achieve the objectives for the Clarinbridge River under the Water Framework Directive.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KILCOLGAN**
Tributary of: Sea - Dunbulvaun Bay
OS Grid Ref of Confluence: M 417 184
Date(s) Surveyed: 2/10/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** A further decline was noted at the upper site (0200) on the Kilcolgan or Dunkellin River. The mid section remained in good ecological condition.

### Stations Location

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>219743</td>
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<td>0280</td>
<td>Br just u/s Toberdoney at Caherkin</td>
<td>153850</td>
<td>220611</td>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KNOCKNAREBANA**
Tributary of: 29O01 OWENDALULLEEGH
OS Grid Ref of Confluence: R 556 990
Date(s) Surveyed: 7/9/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** No change with a high quality response noted in this Owendalulleegh (qv) tributary.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Misc Ag.</th>
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River and Code: **LECARROW STREAM**  
Tributary of: 29C03 CARRA STREAM  
OS Grid Ref of Confluence: R 625 217  
Date(s) Surveyed: 21/9/2012

*Previously reported as part of the Carra (29C03)*

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**Assessment:** No change in this tributary of the Carra Stream - good ecological condition maintained.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **OWENDALULLEEGH** 29/O/01
Tributary of : Lough Cutra
OS Grid Ref of Confluence: R 478 976
OS Catchment No: 146
Date(s) Surveyed: 7/9/2012, 21/9/2012

### Biological Quality Ratings (Q Values)

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### Assessment:

The Owendalulleegh was in a highly satisfactory condition over its surveyed length in 2013. It is a tributary of Lough Cutra and was impacted by the Derrybrien landslide in 2003. The recovery has been maintained although a slight drop in quality was noted at Station 0800. In overall terms this is one of the best quality mid-sized rivers in the region. The catchment is heavily afforested and care will be needed in harvesting and replanting of trees in order to protect the river's ecology.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock, and Pasture, Forestry, etc., are % of catchment area.

378
Hydrometric Area 29 (2012)

River and Code: RAFORD 29/R/01
Tributary of: 29K01 KILCOLGAN
OS Grid Ref of Confluence: M 522 200
Date(s) Surveyed: 1/10/2012

Biological Quality Ratings (Q Values)

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Assessment: While the upper site (0100) retained its satisfactory condition the middle Raford Bridge (0200) reverted to unsatisfactory quality (Q3-4). The lower site is subject to regular summer drying out due to the karst nature of the catchment geology - water was flowing again when sampled in early October 2012 albeit with a more limited macroinvertebrate fauna due to its temporary nature.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **TOBERDONEY**  
Tributary of: 29K01 KILCOLGAN  
OS Grid Ref of Confluence: M 553 215  
Date(s) Surveyed: 1/10/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Satisfactory at both sites surveyed. A significant improvement in quality was noted at the upper site at Ballykeeran Bridge.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
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.

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>WFD Quality Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
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Total Length (km) surveyed this cycle 42.5 96.9 16.8 18.9 0.0 175.0
Adjustments (km) (See below)* 0.0 0.0 0.0 0.0 0.0 0.0
Current Length (km) Adjusted 2012 42.5 96.9 16.8 18.9 0.0 175.0
Percentages 24.3 55.3 9.6 10.8 0.0 100.0

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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
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<td>Bad</td>
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Total number of sites surveyed 28 28
Total number of sites at unsatisfactory status 8 5

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-):
** Clabby et al., 2008
1 Rivers not previously included in the National Statistics
Hydrometric Area 29: Trends

% Surveyed Channel Length in Four Quality Classes

- **Class A:** Unpolluted
- **Class B:** Slightly Polluted
- **Class C:** Moderately Polluted
- **Class D:** Seriously Polluted

Hydrometric Area 29: 2007-'09

% Surveyed Channel Length in Five WFD Quality Classes

- **High Status:** Unpolluted
- **Good Status:** Unpolluted
- **Moderate Status:** Slightly Polluted
- **Poor Status:** Moderately Polluted
- **Bad Status:** Seriously Polluted
**HYDROMETRIC AREA 30 (Corrib)**

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<tr>
<td>BALLINDINE</td>
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<td>BALLYCUIRKE</td>
<td>30B14</td>
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<td>BEALANABRACK</td>
<td>30B01</td>
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* A G H I N I S H  .
* G L E N N A M U C K A  S T R E A M  P r e v i o u s l y  r e p o r t e d  a s  p a r t  o f  t h e  A b b e r t  3 0 A 0 1
* G O R T G A R R O W  S T R E A M  P r e v i o u s l y  r e p o r t e d  a s  p a r t  o f  t h e  S i n k i n g  3 0 S 0 1
* L E V A L L Y  S T R E A M  P r e v i o u s l y  r e p o r t e d  a s  p a r t  o f  t h e  G r a n g e  ( G Y )  3 0 G 0 2
* Y E L L O W  ( S I N K I N G )  P r e v i o u s l y  r e p o r t e d  a s  p a r t  o f  t h e  S i n k i n g  3 0 S 0 1
Hydrometric Area 30 (2012)

River and Code : ABBERT 30/A/01
Tributary of : 30C01 CLARE (GALWAY) OS Catchment No: 143
OS Grid Ref of Confluence : M 415 483
Date(s) Surveyed: 2/8/2012, 3/8/2012

Biological Quality Ratings (Q Values)

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Assessment: Good ecological condition was recorded at all but one of the five sites surveyed on the Abbert in 2012. Moderate conditions continued at Station 0300.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **AGHINISH**  30/A/03
Tributary of: Lough Mask
OS Grid Ref of Confluence: M 155 672
Date(s) Surveyed: 6/12/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing good ecological quality in this Lough Carra outflow connecting to Lough Mask.

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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
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<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **AILLE (MAYO)** 30/A/02

Tributary of: Lough Mask

OS Grid Ref of Confluence: M 136 727

Date(s) Surveyed: 7/12/2012, 21/8/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** The upper Aille (0010) at Croaghrimbeg was again at moderate condition. A big improvement in quality was noted at 0100 South of Killawallaun. Flooding prevented the rest of the river being surveyed in 2012 with the exception of the lowermost site (0400).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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<td>Bridge u/s Cloon Lough</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLINDINE**
Tributary of: 30R01 ROBE
OS Grid Ref of Confluence: M 349 709
Date(s) Surveyed: 7/12/2012, 17/9/2012

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</table>

**Assessment:** Poor ecological conditions were again recorded at both the upper site in Ballindine (0100) and the lower site downstream of Ballindine wastewater treatment plant.

<table>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** The outflow from Ballycuirke was again at poor quality apparently due to the eutrophic condition of the lake. Investigative monitoring to assess the source of the problem is ongoing.

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: BEALANABRACK
Tributary of: Lough Corrib
OS Grid Ref of Confluence: L 975 522
Date(s) Surveyed: 4/10/2012, 11/9/2012

OS Catchment No: 143

Biological Quality Ratings (Q Values)

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</table>

Assessment: Both sites surveyed were in good ecological condition with no major change since 2009.

Station
No.
0050
0100
0200

Stations Location
Footbridge N Knockaunbaun
Bridge u/s Joyce's River
Maam Bridge

National X
90248
92031
96497

Grid Ref. Y
255014
254742
252808

Discovery Series No.
38
38
38

County Code
GY
GY
GY

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 30 (2012)**

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

Tributary of : Lough Corrib

OS Grid Ref of Confluence: M 198 578

Date(s) Surveyed: 6/12/2012, 19/9/2012

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</table>

**Assessment:** The Black River is in satisfactory condition generally, apart from significant signs of eutrophication in the middle reaches at Station 0300 (Moyne Bridge).

<table>
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<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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<td>14</td>
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<td>28</td>
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<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The Bunowen was in satisfactory condition when surveyed in September 2012.
Hydrometric Area 30 (2012)

River and Code: **CAMMANAGH**
Tributary of: Lough Mask
OS Grid Ref of Confluence: L 996 568
Date(s) Surveyed: 5/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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**Assessment:** A high Q-Value was recorded again in the Cammanagh. Some dislodging of bank reinforcements was noted at the sampling site.

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<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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<tr>
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Alt is in metres Area is km$^2$ and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: CLARE (GALWAY) 30/C/01
Tributary of: Lough Corrib
OS Grid Ref of Confluence: M 303 314
Date(s) Surveyed: 10/8/2012, 13/9/2012
OS Catchment No: 143

Assessment: The upper Clare from upstream of Milltown (0100) to Tuam (0500) was unchanged compared with the 2009 survey. An improvement was noted in the reaches downstream of Tuam (0650 and 0700) with good ecological conditions restored. Conditions at Corofin were unchanged, however, and some investigative monitoring has been undertaken in an attempt to determine the cause of pollution in this reach. A deterioration was noted at Cregmore (1100) in comparison with the 2009 survey. Due to flood conditions it was not possible to complete the survey downstream of Claregalway in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **CLAUREEN (MAYO)** 30/C/12
Tributary of: 30A02 AILLE (MAYO) OS Catchment No: 143
OS Grid Ref of Confluence: M 134 794
Date(s) Surveyed: 20/8/2012, 21/8/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Moderate ecological condition was seen again at the upper station (0400) of the Claureen in Ballyheane village. A drop in quality was noted at the lower site (0700) surveyed in 2012 vis à vis 2009.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<td>31</td>
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<td>46</td>
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<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: CLOONDAVER STREAM (NORTH) 30/C/09
Tributary of: Lough Carra
OS Grid Ref of Confluence: M 200 727
Date(s) Surveyed: 7/12/2012

Biological Quality Ratings (Q Values)

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</table>

Assessment: In 2012 the Cloondaver North Stream at Mullingar Bridge exhibited unsatisfactory ecological conditions once again. This is an important tributary of Lough Carra.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
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Alt is in metres, Area is km2, Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CLOONFAD**
Tributary of: 30D01 DALGAN
OS Grid Ref of Confluence: M 477 721
Date(s) Surveyed: 16/7/2012

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment:** The Cloonfad was unsatisfactory in terms of ecological condition where surveyed in 2012 with significant evidence of siltation and a lack of sensitive taxa.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
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<th>Pasture</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CONG CANAL** 30/C/06
Tributary of: Lough Corrib
OS Grid Ref of Confluence: M 149 545
Date(s) Surveyed: 6/12/2012

Biological Quality Ratings (Q Values)

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**Assessment:** The Cong Canal continued to be in satisfactory condition in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Site No.</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 30 (2012)**

River and Code: **DALGAN**  
Tributary of: **30C01 CLARE (GALWAY)**  
OS Grid Ref of Confluence: **M 432 638**  
Date(s) Surveyed: **17/7/2012**  
OS Catchment No: **143**

### Biological Quality Ratings (Q Values)

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<td>3-4</td>
</tr>
<tr>
<td>0400</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
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<td>2-3</td>
<td>3</td>
<td>3-4</td>
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<td>-</td>
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<td>3</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
</tr>
<tr>
<td>0500</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
<tr>
<td>0600</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3</td>
<td>3-4</td>
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<td>-</td>
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<td>3-4</td>
<td>3</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** On balance the Dalgan River exhibited an improvement in quality in 2012 compared to the 2009 survey. Stations 0200 and 0300 downstream of Ballyhaunis (where there are a number of point source discharges) improved, although they still have not yet achieved good ecological conditions. A slight decline in quality was, however, noted at station 0400 and quality remained unchanged at the last two sites surveyed (0500, 0600).

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>75</td>
<td>21</td>
<td>0</td>
<td>100</td>
<td>66</td>
<td>0</td>
<td>26</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>5</td>
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<td>0200</td>
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<td>68</td>
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<td>22</td>
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<td>3</td>
<td>0</td>
<td>4</td>
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<tr>
<td>0300</td>
<td>59</td>
<td>42</td>
<td>0</td>
<td>100</td>
<td>70</td>
<td>0</td>
<td>19</td>
<td>2</td>
<td>5</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>0400</td>
<td>57</td>
<td>102</td>
<td>0</td>
<td>100</td>
<td>61</td>
<td>2</td>
<td>15</td>
<td>1</td>
<td>14</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>0500</td>
<td>53</td>
<td>146</td>
<td>0</td>
<td>100</td>
<td>56</td>
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<td>6</td>
</tr>
<tr>
<td>0600</td>
<td>48</td>
<td>168</td>
<td>0</td>
<td>100</td>
<td>56</td>
<td>2</td>
<td>19</td>
<td>1</td>
<td>18</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

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

Tributary of : Lough Corrib

OS Grid Ref of Confluence: M 057 520

Date(s) Surveyed: 5/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>0100</td>
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<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4</td>
</tr>
<tr>
<td>0200</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** A serious decline in quality was noted in the Dooghta Station (0100), dropping from high to moderate ecological condition compared with 2009 with the loss of some key sensitive species. A new site was examined upstream (0050) which was of better quality than Station 0100 albeit with signs of impact also. The source of the problem wasn't immediately obvious but extensive drainage, ploughing and reseeding at the top of the catchment was noted as a potential source although not located between the two sites examined. Slurry spreading and wash off in the wet summer of 2012 in the intervening area may be another suspected cause. Further investigative monitoring is needed.

**Station Locations and Characteristics:**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Locations</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Br S Crumlin East</td>
<td>100058</td>
<td>253720</td>
<td>47</td>
<td></td>
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<tr>
<td>0100</td>
<td>Ford to W. of Dooghta</td>
<td>101405</td>
<td>253056</td>
<td>38</td>
<td>GY</td>
</tr>
<tr>
<td>0200</td>
<td>Bridge u/s Lough Corrib</td>
<td>103977</td>
<td>252588</td>
<td>38</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>19</td>
<td>12</td>
<td>100</td>
<td>0</td>
<td>0</td>
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<tr>
<td>0200</td>
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<td>24</td>
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<td>0</td>
<td>0</td>
<td>57</td>
<td>0</td>
<td>39</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **FAILMORE**
Tributary of: 30B01 BEALANABRACK
OS Grid Ref of Confluence: L 974 522
Date(s) Surveyed: 11/9/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** A significant decline in status was noted in 2012 compared with all previous surveys. Oil was noted on the water surface and the macroinvertebrate community had declined in quality with large numbers of the snail Lymnaea. Significant quantities of filamentous algae were also noted as an indication of disturbed ecological conditions.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Teernakill Bridge</td>
<td>96247</td>
<td>252111</td>
<td>38</td>
<td>GY</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>7</td>
<td>26</td>
<td>77</td>
<td>23</td>
<td>1</td>
<td>0</td>
<td>85</td>
<td>0</td>
<td>5</td>
<td>0</td>
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</tbody>
</table>

Alt is in metres, Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 30 (2012)**

River and Code: **FINNY**
Tributary of: Lough Mask
OS Grid Ref of Confluence: M 018 582
Date(s) Surveyed: 5/10/2012

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>5</td>
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<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<td>4</td>
<td>4-5</td>
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<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Continuing high quality observed in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>S.W. of Finny</td>
<td>101024</td>
<td>258646</td>
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<td>GY</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0100</td>
<td>19</td>
<td>39</td>
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<td>6</td>
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<td>28</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **FOOEY**
Tributary of: Lough Nafooey
OS Grid Ref of Confluence: L 953 596
Date(s) Surveyed: 30/7/2012

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4.5</td>
<td>3-4</td>
<td>4</td>
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<td>4</td>
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</tbody>
</table>

**Assessment:** Satisfactory ecological conditions were maintained in this Lough Nafooey tributary in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Lough Nafooey</td>
<td>94714</td>
<td>260050</td>
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<td>GY</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>22</td>
<td>10</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>75</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The macroinvertebrates in this important Owenriff River (qv) tributary were satisfactory with a slight improvement compared with 2009. Condition is lower than it should be, however, in this energetic river with significant algal growth still observed. Forestry impacts in this acid area are noticeable.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s L. Agraaffard</td>
<td>106773</td>
<td>241601</td>
<td>45</td>
<td>GY</td>
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</tbody>
</table>
Hydrometric Area 30 (2012)

River and Code: **GLENNAMUCKA STREAM** 30/G/04
Tributary of: 30A01 ABBERT
OS Grid Ref of Confluence:
Date(s) Surveyed: 2/8/2012

*Previously reported as part of the Abbert 30A01*

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>0015</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Diffuse eutrophication impacts were again noted in this upper Abbert River (qv) tributary in August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0015</td>
<td>Br at Ballyglass</td>
<td>160526</td>
<td>234877</td>
<td>46</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0015</td>
<td>76</td>
<td>8</td>
<td>0</td>
<td>100</td>
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<td>0</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **GLENSAUL**  30/G/01
Tributary of: Lough Mask
OS Grid Ref of Confluence:  M 106 678
Date(s) Surveyed:  21/8/2012

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>0010</td>
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<td>3-4</td>
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<td>4</td>
<td>4</td>
<td>4</td>
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<td>-</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

**Assessment:** No change in comparison with 2009 - satisfactory conditions.

### Station Details

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>S of Garaanagerra (roadside)</td>
<td>105317</td>
<td>265869</td>
<td>38</td>
<td>MO</td>
</tr>
<tr>
<td>0250</td>
<td>0.25 km d/s Br in Tourmakeady</td>
<td>109936</td>
<td>267975</td>
<td>38</td>
<td>MO</td>
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</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0010</td>
<td>101</td>
<td>5</td>
<td>91</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>67</td>
<td>0</td>
<td>33</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GORTGARROW STREAM**
Tributary of: 30S01 SINKING
OS Grid Ref of Confluence:
Date(s) Surveyed: 16/7/2012

Previously reported as part of the Sinking 30S01

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>- 3-4  2-3  2-3  3  3 - -</td>
</tr>
<tr>
<td>0025</td>
<td>3-4  3-4  3  4  3-4  4  3-4  3</td>
</tr>
</tbody>
</table>

**Assessment:** A further deterioration in quality as indicated by the macroinvertebrates was noted in the Gortgarrow in the upper stretches of the Sinking River (qv) system.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>Br at Gortgarrow*</td>
<td>157514</td>
<td>259081</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0025</td>
<td>Bridge W. of Parkbaun</td>
<td>158766</td>
<td>260999</td>
<td>39</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>15</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **GRANGE (GALWAY)**
Tributary of: 30C01 CLARE (GALWAY) OS Grid Ref of Confluence: M 430 450
OS Catchment No: 143
Date(s) Surveyed: 2/8/2012, 31/7/2012

Biological Quality Ratings (Q Values)

<table>
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<tr>
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<tbody>
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</tr>
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<td>-</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3</td>
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</tbody>
</table>

Assessment: An improvement was noted at a number of stations on the Grange River and it is now satisfactory over its length. This is very welcome particularly at the lowermost site (0700) upstream of its confluence with the Clare River (qv). The river had been targeted for investigative monitoring by Galway County Council and the EPA under WFD programmes of measures with a view to improving its overall status.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>159204</td>
<td>251985</td>
<td>39</td>
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<td>Bridge near Cloondahamper</td>
<td>155263</td>
<td>251505</td>
<td>39</td>
<td>GY</td>
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<tr>
<td>0300</td>
<td>Ford N.N.W. of Cornacartan</td>
<td>150944</td>
<td>251664</td>
<td>39</td>
<td>GY</td>
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<tr>
<td>0400</td>
<td>Grange Bridge</td>
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<td>249890</td>
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<td>0500</td>
<td>Cahergal Bridge</td>
<td>147702</td>
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<td>0700</td>
<td>Mahanagh Bridge (lower)</td>
<td>144075</td>
<td>246125</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **JOYCE'S**
Tributary of: **30B01 BEALANABRACK**
OS Grid Ref of Confluence: **L 930 548**
Date(s) Surveyed: **11/9/2012**

**Hydrometric Area 30 (2012)**

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<tbody>
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<tr>
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</tbody>
</table>

**Assessment:** Ecological quality was maintained in the Joyce’s River in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Ford W.N.W. of Griggins</td>
<td>91573</td>
<td>257044</td>
<td>37</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0100</td>
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<td>0</td>
<td>2</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: KNOCKAUNRANNY STREAM
Tributary of: Ross Lake
OS Grid Ref of Confluence: M 197 357
Date(s) Surveyed: 29/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
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</thead>
<tbody>
<tr>
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<td>4-5</td>
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<td>4</td>
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</tr>
</tbody>
</table>

Assessment: Ecological conditions remained satisfactory in this Ross Lake tributary.

Station

<table>
<thead>
<tr>
<th>No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br u/s Ross Lake (side road)</td>
<td>119208</td>
<td>235788</td>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0200</td>
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<td>11</td>
<td>96</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **LEVALLY STREAM**  
Tributary of: 30G02 GRANGE (GALWAY)  
OS Grid Ref of Confluence:  
Date(s) Surveyed: 31/7/2012  

Previously reported as part of the Grange (GY) 30G02

<table>
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<tbody>
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<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Assessment: A drop to moderate ecological condition for macroinvertebrates was noted in late July 2012 in this Grange (qv) tributary. Diffuse agricultural pollution is suspected as the main cause.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge near Levally</td>
<td>154636</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Site No.</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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<td>0</td>
<td>13</td>
</tr>
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</table>

Alt is 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 NACORRALEA STREAM**
Tributary of: 30A02 AILLE (MAYO)
OS Grid Ref of Confluence: M 139 737
Date(s) Surveyed: 21/8/2012

### Biological Quality Ratings (Q Values)

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</table>

**Assessment:** Satisfactory.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>
River and Code : **LOUGHKIP**
Tributary of : Ballycuirke Lough
OS Grid Ref of Confluence: M 241 333
Date(s) Surveyed: 29/8/2012

**Biological Quality Ratings (Q Values)**

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</tbody>
</table>

**Assessment:** The Loughkip is an important tributary of Ballycuirke Lake and it continues to be in satisfactory condition as indicated by the macroinvertebrate community.

**Stations Location**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>45</td>
<td>GY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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<tbody>
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<td>73</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: NANNY (TUAM)  
Tributary of: 30C01 CLARE (GALWAY)  
OS Grid Ref of Confluence: M 418 529  
Date(s) Surveyed: 3/8/2012, 10/8/2012  

Biological Quality Ratings (Q Values)

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</table>

Assessment: Satisfactory. An improvement was noted upstream of the Nanny's confluence with the main River Clare compared with the 2009 survey.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>100</td>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code : **OWENBRIN**
Tributary of : Lough Mask
OS Grid Ref of Confluence: M 058 626
Date(s) Surveyed: 30/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>0200</td>
<td>0200-5 4* 3* 3 3 3 4 4 4</td>
</tr>
</tbody>
</table>

**Assessment:** A welcome return to good ecological conditions after an extended period during which one or both stations regularly surveyed were impacted. Sheep overgrazing and forestry activities had been blamed for the problems in the past. It is to be hoped that good catchment management practices will continue in this important trout-producing tributary of Lough Mask. The Owenbrin produces a relatively large proportion of the brown trout that are caught in Lough Mask and it is thus a critical catchment for the lake as a whole.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>National Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<td>Bridge u/s Lough Mask</td>
<td>105561</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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<tr>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 30 (2012)**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
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<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Biological Quality Ratings (Q Values)**

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**Assessment:** Continuing satisfactory conditions in this Lough Corrib tributary.

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Site No.</th>
<th>Alt</th>
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<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: ROBE 30/R/01
Tributary of: Lough Mask
OS Grid Ref of Confluence: M 153 658
Date(s) Surveyed: 3/9/2012, 10/9/2012, 17/9/2012

Biological Quality Ratings (Q Values)

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Assessment: Diffuse agricultural pollution (especially in the upper reaches) is the main suspected cause of pollution in the Robe. At Station 0030 Kilnock Bridge serious mechanical damage to the river banks was observed - severe clearance and bank scraping with consequential siltation and turbidity. This aggressive approach to bank clearance and dredging has been observed in the past too and greater care is needed in this area if the river is to achieve good ecological condition. The Hollybrook, Hollymount stretch is also less than good quality. Here the combination of wastewater discharges and diffuse agricultural losses is suspected. The lower reaches upstream and downstream of Ballinrobe remain satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</table>
### Hydrometric Area 30 (2012)

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

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

Tributary of: 30R01 ROBE

OS Grid Ref of Confluence: M 322 704

Date(s) Surveyed: 7/12/2012

**Hydrometric Area 30 (2012)**

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment:** The Scardaun was satisfactory at Station 0100. It was not possible to sample the lower site due to flooding.

**Station No.**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code : **SINKING**  
Tributary of : **30C01 CLARE (GALWAY)**  
OS Grid Ref of Confluence: M 432 638  
Date(s) Surveyed: 16/7/2012, 31/7/2012

**Biological Quality Ratings (Q Values)**

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</tbody>
</table>

**Assessment:** The upper Sinking River maintained good ecological condition in July 2012. The lower reaches were unsatisfactory from downstream of Dunmore to Cloonagh Bridge upstream of the confluence with the Dalgan (qv) to form the Clare (qv). A new DBO wastewater treatment plant with phosphorus removal has been in operation in Dunmore since 2009 and appears to be operating to its licence conditions. The cause of the problem in the river downstream of Dunmore requires investigative monitoring to pinpoint the precise cause of the problem.

**Station Locations and Catchment Characteristics**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>Br SSW of Ballinlass</td>
<td>153497</td>
<td>262008</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0100</td>
<td>Br 3 km u/s Dunmore Bridge</td>
<td>152528</td>
<td>262094</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0200</td>
<td>Dunmore Bridge</td>
<td>150920</td>
<td>263507</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0300</td>
<td>Br at Dunmore Castle</td>
<td>150201</td>
<td>263985</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0320</td>
<td>Ballymoney Br</td>
<td>148329</td>
<td>263237</td>
<td>39</td>
<td>GY</td>
</tr>
<tr>
<td>0400</td>
<td>Cloonagh Br</td>
<td>144296</td>
<td>263500</td>
<td>39</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
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<td>84</td>
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<td>100</td>
<td>58</td>
<td>0</td>
<td>29</td>
<td>0</td>
<td>9</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>0100</td>
<td>56</td>
<td>86</td>
<td>0</td>
<td>100</td>
<td>58</td>
<td>0</td>
<td>30</td>
<td>0</td>
<td>9</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>0200</td>
<td>52</td>
<td>108</td>
<td>0</td>
<td>100</td>
<td>59</td>
<td>0</td>
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<td>1</td>
<td>3</td>
</tr>
<tr>
<td>0300</td>
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<td>132</td>
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<td>100</td>
<td>61</td>
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<td>24</td>
<td>0</td>
<td>8</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>0320</td>
<td>49</td>
<td>143</td>
<td>0</td>
<td>100</td>
<td>60</td>
<td>1</td>
<td>24</td>
<td>0</td>
<td>9</td>
<td>1</td>
<td>6</td>
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<td>60</td>
<td>0</td>
<td>23</td>
<td>0</td>
<td>10</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **SRAH STREAM**
Tributary of: Lough Mask
OS Grid Ref of Confluence: M 123 718
Date(s) Surveyed: 7/12/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
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<td>4</td>
<td>5</td>
<td>3</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>3-4*</td>
</tr>
</tbody>
</table>

**Assessment:** A deterioration was noted in this Lough Mask tributary. Notably absent were some of the common stoneflies which would be expected particularly in early December - unusual sand deposits indicated potential erosion issues in the upper catchment.

**Station Locations**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>Br u/s Lough Mask</td>
<td>111845</td>
<td>272439</td>
<td>38</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>21</td>
<td>14</td>
<td>87</td>
<td>13</td>
<td>33</td>
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<td>62</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SRAHNALONG**
Tributary of: Lough Mask
OS Grid Ref of Confluence: M 019 613
Date(s) Surveyed: 30/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory ecological conditions were noted in the Srahnalong.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>33</td>
<td>9</td>
<td>99</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>97</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**River and Code**: TERRYLAND 30/T/01  
**Tributary of**: Corrib (Distributary)  
**OS Grid Ref of Confluence**: M 295 265  
**Date(s) Surveyed**: 29/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
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<td>0200</td>
<td>4 4 4 4 3-4 3 3 - 2-3 - - 2-3 2-3 2-3</td>
</tr>
<tr>
<td>0400</td>
<td>1/0 3/0 3 3/0 2-3 2-3 - - - - - -</td>
</tr>
<tr>
<td>0500</td>
<td>- - - - - 2 3 2-3 2-3 2-3 2-3 -</td>
</tr>
</tbody>
</table>

**Assessment**: No change in comparison with recent surveys - poor ecological condition.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge on Galway-Headford Rd</td>
<td>130203</td>
<td>226315</td>
<td>45</td>
<td>GY</td>
</tr>
<tr>
<td>0400</td>
<td>400 m d/s Terryland Bridge</td>
<td>130882</td>
<td>226820</td>
<td>45</td>
<td>GY</td>
</tr>
<tr>
<td>0500</td>
<td>Br d/s Terryland Br on ring road</td>
<td>131333</td>
<td>227263</td>
<td>45</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>7</td>
<td>6</td>
<td>0</td>
<td>100</td>
<td>43</td>
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<td>0</td>
<td>38</td>
<td>0</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>0400</td>
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<td>5</td>
<td>0</td>
<td>100</td>
<td>48</td>
<td>0</td>
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<td>50</td>
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<td>0</td>
<td>25</td>
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<td>25</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: **TULLAGHAUN** (2012)
Tributary of: 30D01 DALGAN
OS Grid Ref of Confluence: M 484 738
Date(s) Surveyed: 16/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 4 4 4 4 4 4 4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory ecological conditions recorded in July 2012 in this Dalgan River (qv) tributary.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Bridge u/s Dalgan River</td>
<td>148698</td>
<td>274092</td>
<td>39</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>60</td>
<td>16</td>
<td>0</td>
<td>100</td>
<td>67</td>
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<td>0</td>
<td>1</td>
<td>0</td>
<td>27</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 30 (2012)

River and Code: YELLOW (SINKING) 30/Y/01
Tributary of: 30S01 SINKING OS Catchment No: 143
OS Grid Ref of Confluence:
Date(s) Surveyed: 16/7/2012

Previously reported as part of the Sinking 30S01

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0045</td>
<td>3-4 4 3-4* 4 3 4 - -</td>
</tr>
<tr>
<td>0055</td>
<td>3-4 3-4 4 4 4 4 4 4</td>
</tr>
</tbody>
</table>

Assessment: This tributary of the Sinking River (qv) maintained its satisfactory ecological condition in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0045</td>
<td>Bridge S. of Cloonkeen</td>
<td>159443</td>
<td>265257</td>
<td>39</td>
<td>GY</td>
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<tr>
<td>0055</td>
<td>Woodfield Br</td>
<td>157151</td>
<td>263736</td>
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<td>GY</td>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0045</td>
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<td>20</td>
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<td>100</td>
<td>23</td>
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<td>20</td>
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<tr>
<td>0055</td>
<td>68</td>
<td>33</td>
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<td>40</td>
<td>0</td>
<td>14</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

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. 30

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbert</td>
<td>2012</td>
<td>30A01</td>
<td>0.0</td>
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<td>7.5</td>
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<tr>
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<td>30A03</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.5</td>
</tr>
<tr>
<td>Aille (Mayo)</td>
<td>2012</td>
<td>30A02</td>
<td>17.2</td>
<td>9.3</td>
<td>5.0</td>
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<td>0.0</td>
<td>31.5</td>
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<td>Ballindine</td>
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<td>30B03</td>
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<tr>
<td>Bealanabrack</td>
<td>2012</td>
<td>30B01</td>
<td>0.0</td>
<td>17.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>17.0</td>
</tr>
<tr>
<td>Black (Shrule)</td>
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<td>3.5</td>
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<td>0.0</td>
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<td>2012</td>
<td>30B08</td>
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<td>0.0</td>
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<tr>
<td>Cammanagh</td>
<td>2012</td>
<td>30C04</td>
<td>4.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>4.0</td>
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<tr>
<td>Clare (Galway)</td>
<td>2012</td>
<td>30C01</td>
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<td>59.0</td>
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<td>2012</td>
<td>30C12</td>
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<tr>
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<td>6.0</td>
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<tr>
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<td>2012</td>
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<td>7.0</td>
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<td>2012</td>
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<td>0.0</td>
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<td>1.0</td>
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<td>Dalgan</td>
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<td>30D01</td>
<td>0.0</td>
<td>5.5</td>
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<td>2.3</td>
<td>0.0</td>
<td>24.0</td>
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<tr>
<td>Dooghta</td>
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<td>30D02</td>
<td>3.6</td>
<td>5.6</td>
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<td>0.0</td>
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<td>10.0</td>
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<tr>
<td>Failmore</td>
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<td>30F01</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>9.0</td>
</tr>
<tr>
<td>Finny</td>
<td>2012</td>
<td>30F03</td>
<td>3.5</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Foeey</td>
<td>2012</td>
<td>30F02</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Glenamucka Stream</td>
<td>2012</td>
<td>30G04</td>
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<tr>
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<td>30G01</td>
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<td>30G05</td>
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<td>Grange (Galway)</td>
<td>2012</td>
<td>30G02</td>
<td>0.0</td>
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<td>0.0</td>
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<td>Joycees</td>
<td>2012</td>
<td>30J01</td>
<td>0.0</td>
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<tr>
<td>Knockaunnranny Stream</td>
<td>2012</td>
<td>30K02</td>
<td>0.0</td>
<td>3.0</td>
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<td>Leavally Stream</td>
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<td>30L07</td>
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<td>Loughkip</td>
<td>2012</td>
<td>30L01</td>
<td>0.0</td>
<td>6.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Lough Nacorralea Stream</td>
<td>2012</td>
<td>30L03</td>
<td>0.0</td>
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<td>0.0</td>
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<td>Nanny (Tuam)</td>
<td>2012</td>
<td>30N01</td>
<td>0.0</td>
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<tr>
<td>Owenwee (Corrib)</td>
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<td>30O03</td>
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<td>18.5</td>
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<td>Sirahalong</td>
<td>2012</td>
<td>30S03</td>
<td>0.0</td>
<td>4.5</td>
<td>0.0</td>
<td>0.0</td>
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<td>Sirah Stream</td>
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<td>30S02</td>
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<td>Tullaghau</td>
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<td>30T03</td>
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<td>0.0</td>
<td>0.0</td>
<td>6.0</td>
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<tr>
<td>Yellow (Sinking)</td>
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<td>30Y01</td>
<td>0.0</td>
<td>9.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>9.0</td>
</tr>
<tr>
<td>Channel Length (km) in Class</td>
<td>Year</td>
<td>Code</td>
<td>A High</td>
<td>A Good</td>
<td>B Moderate</td>
<td>C Poor</td>
<td>D Bad</td>
<td>Total</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------</td>
<td>------</td>
<td>--------</td>
<td>--------</td>
<td>------------</td>
<td>--------</td>
<td>-------</td>
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</tr>
<tr>
<td>Total Length (km) surveyed this cycle</td>
<td></td>
<td></td>
<td>37.4</td>
<td>280.5</td>
<td>92.5</td>
<td>30.6</td>
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<td>441.0</td>
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<tr>
<td>Adjustments (km) (See below)*</td>
<td></td>
<td></td>
<td>-7.0</td>
<td>-17.5</td>
<td>-11.0</td>
<td>0.0</td>
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<td>-35.5</td>
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<tr>
<td>Current Length (km) Adjusted</td>
<td>2012</td>
<td></td>
<td>44.4</td>
<td>298.0</td>
<td>103.5</td>
<td>30.6</td>
<td>0.0</td>
<td>476.5</td>
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<tr>
<td>Percentages</td>
<td></td>
<td></td>
<td>9.3</td>
<td>62.5</td>
<td>21.7</td>
<td>6.4</td>
<td>0.0</td>
<td>100.0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>Year</th>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline: Current Adjusted Status (km)</td>
<td>2010-'12</td>
<td></td>
<td>342.4</td>
<td>103.5</td>
<td>30.6</td>
<td>0.0</td>
<td>476.5</td>
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<tr>
<td>Percentages</td>
<td></td>
<td></td>
<td>71.9</td>
<td>21.7</td>
<td>6.4</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Baseline: Previous Unadjusted Status (km)**</td>
<td>2007-'09</td>
<td></td>
<td>81.8</td>
<td>257.6</td>
<td>114.3</td>
<td>22.8</td>
<td>0.0</td>
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<tr>
<td>Percentages</td>
<td></td>
<td></td>
<td>17.2</td>
<td>54.1</td>
<td>24.0</td>
<td>4.8</td>
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<tr>
<td>Changes since Previous Survey (km )</td>
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<td></td>
<td>-37.4</td>
<td>40.4</td>
<td>-10.8</td>
<td>7.8</td>
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</tr>
</tbody>
</table>

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Corrib (30C02), Cregg (30C03), Drimneen (30D03), Headford Stream (30H01) & Owenriff (Corrib) 30O03) were not surveyed in the 2010-2012 period.

** 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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>11</td>
<td>4</td>
</tr>
<tr>
<td>Good</td>
<td>46</td>
<td>49</td>
</tr>
<tr>
<td>Moderate</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>Poor</td>
<td>10</td>
<td>9</td>
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<tr>
<td>Bad</td>
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<tr>
<td>Total number of sites surveyed</td>
<td>87</td>
<td>92</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>30</td>
<td>39</td>
</tr>
</tbody>
</table>
Hydrometric Area 30: Trends

% Surveyed Channel Length in Four Quality Classes

- **Class A:** Unpolluted
- **Class B:** Slightly Polluted
- **Class C:** Moderately Polluted
- **Class D:** Seriously Polluted

<table>
<thead>
<tr>
<th>Year</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987-'90</td>
<td>77</td>
<td>16</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>1991-'94</td>
<td>61</td>
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<td>14</td>
<td>0</td>
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<tr>
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<td>0</td>
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<td>1998-'00</td>
<td>67</td>
<td>18</td>
<td>15</td>
<td>0</td>
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<tr>
<td>2001-'03</td>
<td>73</td>
<td>20</td>
<td>7</td>
<td>0</td>
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<tr>
<td>2004-'06</td>
<td>76</td>
<td>17</td>
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<td>0</td>
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<tr>
<td>2007-'09</td>
<td>71</td>
<td>24</td>
<td>5</td>
<td>0</td>
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<tr>
<td>2010-'12</td>
<td>72</td>
<td>22</td>
<td>6</td>
<td>0</td>
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</table>

Hydrometric Area 30: Trends

% Surveyed Channel Length in Five WFD Quality Classes

- **High Status:** Unpolluted
- **Good Status:** Unpolluted
- **Moderate Status:** Slightly Polluted
- **Poor Status:** Moderately Polluted
- **Bad Status:** Seriously Polluted

<table>
<thead>
<tr>
<th>Year</th>
<th>High</th>
<th>Good</th>
<th>Moderate</th>
<th>Poor</th>
<th>Bad</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007-'09</td>
<td>18</td>
<td>54</td>
<td>24</td>
<td>0</td>
<td>0</td>
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<tr>
<td>2010-'12</td>
<td>18</td>
<td>54</td>
<td>24</td>
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<tr>
<td>HYDROMETRIC AREA 31 (Galway Bay North)</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>----------------------------------------</td>
<td></td>
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<tr>
<td>CASHLA 31C01</td>
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<tr>
<td>CRUMLIN (GALWAY BAY) 31C02</td>
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<tr>
<td>GLENCOAGHAN 31G01</td>
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<tr>
<td>GOWLABEG 31G03</td>
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<tr>
<td>INVERMORE 31I01</td>
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<tr>
<td>KNOCK (FURBO) 31K01</td>
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<td>KNOCKADOAGH 31K02</td>
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<tr>
<td>LOUGH NABROCKY STREAM * 31N01</td>
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<tr>
<td>LOUGHINCH 31L01</td>
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<tr>
<td>OWENBOLISKA 31O01</td>
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<td>OWENGOWLAL 31O02</td>
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<tr>
<td>OWENRIFF (SOUTH GALWAY) 31O04</td>
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<td>OWENTOOEY 31O03</td>
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<tr>
<td>POLLEEN 31P01</td>
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<tr>
<td>RECESS 31R01</td>
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<tr>
<td>SCREEB 31S01</td>
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<tr>
<td>TOOREENACOONA 31T01</td>
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* LOUGH NABROCKY STREAM Previously reported as part of the Owengowlal 31O02
Hydrometric Area 31 (2012)

River and Code: CASHLA
Tributary of: Sea - Cashla Bay
OS Grid Ref of Confluence: L 973 264
Date(s) Surveyed: 23/10/2012

OS Catchment No: 138

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: No change - highly satisfactory.

Station No. Stations Location National X Grid Ref. Y Discovery Series No. County Code
0100 Cashla Bridge 97806 226404 45 GY

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3</td>
<td>73</td>
<td>100</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>81</td>
<td>0</td>
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<td>7</td>
<td>7</td>
</tr>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CRUMLIN (GALWAY BAY)**
Tributary of: Sea - Galway Bay
OS Grid Ref of Confluence: M 038 214
Date(s) Surveyed: 23/10/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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</tr>
</tbody>
</table>

**Assessment:** Continuing satisfactory ecological conditions in this acidic Connemara river.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Dr Chromghlinne</td>
<td>103914</td>
<td>222241</td>
<td>45</td>
<td>GY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>25</td>
<td>24</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>89</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>2</td>
</tr>
</tbody>
</table>

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

Tributary of : Ballynahinch Lough

OS Grid Ref of Confluence:  L 798 474

Date(s) Surveyed:  4/10/2012

**Hydrometric Area 31 (2012)**

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
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</tr>
</tbody>
</table>

**Assessment:** This Ballynahinch Lough tributary maintained its satisfactory condition in 2012.

### Station Locations

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br SE of Derrynavglaun</td>
<td>80151</td>
<td>248606</td>
<td>44</td>
<td>GY</td>
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</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>22</td>
<td>11</td>
<td>98</td>
<td>2</td>
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<td>67</td>
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<td>6</td>
<td>0</td>
<td>27</td>
</tr>
</tbody>
</table>

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 31 (2012)

River and Code: **GOWLABEG**
Tributary of: Sea - Bertraghboy Bay
OS Grid Ref of Confluence: L 817 392
Date(s) Surveyed: 10/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** An improvement in ecological conditions was noted in October 2012 compared with October 2009 in the Gowlabeg.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3</td>
<td>9</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>86</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

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 31 (2012)

River and Code: **INVERMORE**
Tributary of: Sea - Kilkieran Bay
OS Grid Ref of Confluence: L 899 391
Date(s) Surveyed: 12/10/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>3-4</td>
</tr>
<tr>
<td>0500</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** A drop in Q-Value to less than satisfactory condition was noted in October 2012. The upstream site close to the forestry plantations had a thick coating of algae on the substratum and lacked some of the expected sensitive mayfly species.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>0.4 km d/s Lough Bunnahask</td>
<td>89990</td>
<td>240943</td>
<td>44</td>
<td>GY</td>
</tr>
<tr>
<td>0500</td>
<td>Br d/s Invermore Lough</td>
<td>89891</td>
<td>238982</td>
<td>44</td>
<td>GY</td>
</tr>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>18</td>
<td>11</td>
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<td>0</td>
<td>0</td>
<td>26</td>
<td>63</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>0500</td>
<td>0</td>
<td>37</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>32</td>
<td>58</td>
<td>0</td>
<td>2</td>
<td>7</td>
<td>22</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KNOCK (FURBO)**
Tributary of: Sea - Galway Bay
OS Grid Ref of Confluence: M 184 228
Date(s) Surveyed: 5/12/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory.

**Station Locations and Grid Refs:**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Knockadrohid Bridge</td>
<td>115876</td>
<td>226684</td>
<td>45</td>
<td>GY</td>
</tr>
<tr>
<td>0200</td>
<td>Br at Doire Uachtair</td>
<td>118658</td>
<td>224016</td>
<td>45</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>88</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>3</td>
<td>10</td>
<td>72</td>
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<td>0</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>0200</td>
<td>24</td>
<td>16</td>
<td>100</td>
<td>0</td>
<td>10</td>
<td>4</td>
<td>64</td>
<td>0</td>
<td>3</td>
<td>2</td>
<td>18</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KNOCKADOAGH**  
Tributary of: Glenicmurran Lough  
OS Grid Ref of Confluence: M 005 301  
Date(s) Surveyed: 23/10/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** No change - satisfactory conditions.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>30</td>
<td>10</td>
<td>100</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>93</td>
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<td>0</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres
Area is km²
Sil, Cal are % siliceous and calcareous bedrock
Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 31 (2012)

River and Code: **LOUGH NABROCKY STREAM** 31/N/01
Tributary of: 31O02 OWENGOWLA  OS Catchment No: 137
OS Grid Ref of Confluence:
Date(s) Surveyed: 12/10/2012

*Previously reported as part of the Owengowla 31O02*

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>1990</th>
<th>1994</th>
<th>1997</th>
<th>1999</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4*</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4 2003 4 2009 4-5 2012 4-5</td>
</tr>
</tbody>
</table>

**Assessment:** No change in this acid Connemara stream, a tributary of the Owengowla.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge E. of Loughanillaun S.</td>
<td>85658</td>
<td>240125</td>
<td>0</td>
<td>GY</td>
</tr>
</tbody>
</table>
Hydrometric Area 31 (2012)

River and Code: **LOUGHINCH**
Tributary of: 31K01 KNOCK (FURBO)
OS Grid Ref of Confluence: M 186 232
Date(s) Surveyed: 5/12/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0100</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Satisfactory.

**Station Locations**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Br d/s Lough Inch</td>
<td>121344</td>
<td>224582</td>
<td>45</td>
<td>GY</td>
</tr>
<tr>
<td>0100</td>
<td>Second Br u/s Knock River</td>
<td>118928</td>
<td>224017</td>
<td>45</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>54</td>
<td>0</td>
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<td>0</td>
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<td>19</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0100</td>
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<td>7</td>
<td>100</td>
<td>0</td>
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<td>0</td>
<td>82</td>
<td>0</td>
<td>13</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENBOLISKA** 31/O/01
Tributary of: Sea - Galway Bay
OS Grid Ref of Confluence: M 127 223
Date(s) Surveyed: 23/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory ecological conditions were maintained in October 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0100</td>
<td>59</td>
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<td>0</td>
<td>0</td>
<td>35</td>
<td>44</td>
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<td>1</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>0200</td>
<td>9</td>
<td>90</td>
<td>100</td>
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<td>29</td>
<td>49</td>
<td>0</td>
<td>4</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENGOWLA**
Tributary of: Sea - Bertraghboy Bay
OS Grid Ref of Confluence: L 811 395
Date(s) Surveyed: 10/10/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The Owengowla retained its highly satisfactory condition in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc</th>
<th>Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
<td>0300</td>
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<td>0</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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 31 (2012)**

**River and Code:** OWENRIFF (SOUTH GALWAY) 31/O/04

**Tributary of:** Sea - Galway Bay

**OS Grid Ref of Confluence:** M 089 221

**Date(s) Surveyed:** 23/10/2012

**OS Catchment No:** 140

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0200</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
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<td>4</td>
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<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4/0</td>
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</tbody>
</table>

**Assessment:** A localised oil leak at Station 0300 is impacting the ecological condition of the river at this point.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>0</td>
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<td>13</td>
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<td>6</td>
<td>9</td>
<td>70</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>12</td>
</tr>
</tbody>
</table>

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

Tributary of: 31R01 RECESS

OS Grid Ref of Confluence: L 870 472

Date(s) Surveyed: 4/10/2012

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** An improvement was noted in comparison with 2009 in the Owentooey.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Tullywee Bridge</td>
<td>87223</td>
<td>247478</td>
<td>44</td>
<td>GY</td>
</tr>
</tbody>
</table>

<p>| Site Altitude and Upstream Catchment Characteristics (where available): |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|</p>
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>21</td>
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<td>12</td>
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<td>88</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

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 31 (2012)

**River and Code:** POLLEEN  
**Tributary of:** Sea - Galway Bay  
**OS Grid Ref of Confluence:** M 096 220  
**Date(s) Surveyed:** 23/10/2012  
**OS Catchment No:** 04

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Unsatisfactory. This stream is marred by unsightly rubbish dumping and also lacked some of the key pollution-sensitive invertebrates expected in a fast-flowing Connemara stream such as the Polleen.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br S Kilroe East</td>
<td>109723</td>
<td>222118</td>
<td>45</td>
<td>GY</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>5</td>
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<td>0</td>
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<td>0</td>
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<td>14</td>
<td>0</td>
</tr>
</tbody>
</table>

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 31 (2012)

River and Code: **RECESS**

Tributary of: Sea - Bertraghboy Bay

OS Grid Ref of Confluence: L 757 446

Date(s) Surveyed: 4/10/2012, 10/10/2012

<table>
<thead>
<tr>
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<th></th>
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<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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<td>4-5</td>
</tr>
<tr>
<td>0200</td>
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<td>4</td>
<td>4</td>
<td>4-5</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
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<td>-</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0700</td>
<td>-</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** The Recess maintained its long-term good and high ecological condition in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bunkannive Bridge</td>
<td>93634</td>
<td>246316</td>
<td>45</td>
<td>GY</td>
</tr>
<tr>
<td>0200</td>
<td>Cloonloppeen Bridge</td>
<td>90343</td>
<td>246100</td>
<td>44</td>
<td>GY</td>
</tr>
<tr>
<td>0300</td>
<td>D/s Owentooey River confl</td>
<td>85925</td>
<td>247120</td>
<td>44</td>
<td>GY</td>
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<tr>
<td>0400</td>
<td>Weir Bridge</td>
<td>83359</td>
<td>247725</td>
<td>44</td>
<td>GY</td>
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<td>0700</td>
<td>Cloonbeg Bridge</td>
<td>75897</td>
<td>246571</td>
<td>44</td>
<td>GY</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>0400</td>
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<td>6</td>
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<td>0700</td>
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<td>64</td>
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<td>5</td>
<td>6</td>
<td>15</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **SCREEB**
Tributary of : Sea - Camus Bay
OS Grid Ref of Confluence: L 951 383
Date(s) Surveyed: 12/10/2012

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>4-5</td>
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<tr>
<td>0570</td>
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<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
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</tbody>
</table>

**Assessment:** An improvement in quality was noted in the Screeb in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>94626</td>
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<td>GY</td>
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<tr>
<td>0200</td>
<td>Bridge u/s Lough Nahasleam</td>
<td>97459</td>
<td>244283</td>
<td>45</td>
<td>GY</td>
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<td>0400</td>
<td>Bridge d/s Loughahunfree</td>
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<td>0</td>
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<td>GY</td>
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<tr>
<td>0570</td>
<td>U/s Lough Ahalia North</td>
<td>97356</td>
<td>240320</td>
<td>45</td>
<td>GY</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>97</td>
<td>3</td>
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<td>7</td>
<td>93</td>
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<td>76</td>
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<td>7</td>
<td>9</td>
</tr>
</tbody>
</table>

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 31 (2012)

River and Code: TOOREENACOONA
Tributary of: Lough Inagh
OS Grid Ref of Confluence: L 825 545
Date(s) Surveyed: 4/10/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<tbody>
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<td>0200</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
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</tbody>
</table>

Assessment: Satisfactory - no change compared with 2009.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge u/s Lough Inagh</td>
<td>82446</td>
<td>255514</td>
<td>37</td>
<td>GY</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>22</td>
<td>14</td>
<td>56</td>
<td>44</td>
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<td>16</td>
<td>74</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>WFD Quality Class</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baseline : Current Adjusted Status (km)</td>
<td>2010-'12</td>
<td>78.6</td>
<td>78.6</td>
<td>12.5</td>
<td>0.0</td>
<td>0.0</td>
<td>91.0</td>
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<tr>
<td></td>
<td>Percentages</td>
<td></td>
<td>86.3</td>
<td>12.5</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Baseline: Previous Unadjusted Status (km)**</td>
<td>2007-'09</td>
<td>18.8</td>
<td>63.3</td>
<td>9.0</td>
<td>0.0</td>
<td>0.0</td>
<td>91.0</td>
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<tr>
<td></td>
<td>Percentages</td>
<td></td>
<td>20.7</td>
<td>69.5</td>
<td>9.8</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
<td></td>
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<tr>
<td></td>
<td>Changes since Previous Survey (km )</td>
<td></td>
<td>3.5</td>
<td>-7.0</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
</tbody>
</table>

* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-): Loughinch (31L01) was not surveyed in 2010-2012 period.

**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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Good</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total number of sites surveyed</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>
Hydrometric Area 31: Trends

% Surveyed Channel Length in Four Quality Classes

<table>
<thead>
<tr>
<th>Year</th>
<th>Class A: Unpolluted</th>
<th>Class B: Slightly Polluted</th>
<th>Class C: Moderately Polluted</th>
<th>Class D: Seriously Polluted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987-'90</td>
<td>99</td>
<td>0.6</td>
<td>0</td>
<td>0</td>
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<tr>
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<tr>
<td>1995-'97</td>
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<td>0</td>
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<td>2010-'12</td>
<td>86</td>
<td>14</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Hydrometric Area 31: Trends

% Surveyed Channel Length in Five WFD Quality Classes

- High Status: Unpolluted
- Good Status: Unpolluted
- Moderate Status: Slightly Polluted
- Poor Status: Moderately Polluted
- Bad Status: Seriously Polluted
# HYDROMETRIC AREA 32 (Errif – Clew Bay)

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Hydrometer Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTACONEY</td>
<td>32A02</td>
</tr>
<tr>
<td>BALLINABOY</td>
<td>32B07</td>
</tr>
<tr>
<td>BUNDORRAGHA</td>
<td>32B01</td>
</tr>
<tr>
<td>BUNNAHOWNA</td>
<td>32B02</td>
</tr>
<tr>
<td>BUNOWEN (LOUISBURGH)</td>
<td>32B03</td>
</tr>
<tr>
<td>CARROWBEG (WESTPORT)</td>
<td>32C05</td>
</tr>
<tr>
<td>CARROWNISKY</td>
<td>32C01</td>
</tr>
<tr>
<td>CROSS (MAYO)</td>
<td>32C02</td>
</tr>
<tr>
<td>CRUMPAUN</td>
<td>32C03</td>
</tr>
<tr>
<td>CULFIN</td>
<td>32C04</td>
</tr>
<tr>
<td>DAWROS</td>
<td>32D01</td>
</tr>
<tr>
<td>DERRYCRAFF</td>
<td>32D02</td>
</tr>
<tr>
<td>DERRYEHORRAUN</td>
<td>32D04</td>
</tr>
<tr>
<td>ERRIFF</td>
<td>32E01</td>
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<td>32G12</td>
</tr>
<tr>
<td>GLENDAVOCK</td>
<td>32G01</td>
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<td>32G07</td>
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<tr>
<td>GLENLAUR</td>
<td>32G02</td>
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<tr>
<td>GLENNAMONG</td>
<td>32G03</td>
</tr>
<tr>
<td>GLENUMMERA *</td>
<td>32G05</td>
</tr>
<tr>
<td>GOULAUN</td>
<td>32G06</td>
</tr>
<tr>
<td>MOYOUR</td>
<td>32M01</td>
</tr>
<tr>
<td>NEWPORT (MAYO)</td>
<td>32N01</td>
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<td>OWENDUFF (ERRIFF)</td>
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<tr>
<td>OWENGARVE (MAYO)</td>
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<tr>
<td>OWENGLIN</td>
<td>32O03</td>
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<tr>
<td>OWENNABROCKAGH</td>
<td>32O04</td>
</tr>
<tr>
<td>OWENNADORNAUN</td>
<td>32O07</td>
</tr>
<tr>
<td>OWENWEE (MAYO)</td>
<td>32O06</td>
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<tr>
<td>SKERDAIGH</td>
<td>32S01</td>
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<tr>
<td>SRAHMORE</td>
<td>32S02</td>
</tr>
<tr>
<td>STREAMSTOWN (CLIFDEN)</td>
<td>32S04</td>
</tr>
<tr>
<td>Traheen</td>
<td>32T01</td>
</tr>
</tbody>
</table>

*GLENUMMERA Previously reported as part of the Bundorragha (32B01)*
River and Code: **ALTACONEY**
Tributary of: 32S02 SRAHMORE
OS Grid Ref of Confluence: F 967 043
Date(s) Surveyed: 11/7/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing high ecological condition was observed in July 2012.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>46</td>
<td>23</td>
<td>94</td>
<td>6</td>
<td>0</td>
<td>25</td>
<td>60</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>11</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **BALLINABOY**
Tributary of : Sea: Ardbear Bay
OS Grid Ref of Confluence: L 660 480
Date(s) Surveyed: 9/10/2012

**Hydrometric Area 32 (2012)**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The Bellanaboy River continued to be impacted in 2012 by discharges from the fish farm located in Lough Beaghcauneen.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br. d/s L. Beaghcauneen</td>
<td>68093</td>
<td>247523</td>
<td>44</td>
<td>GY</td>
</tr>
<tr>
<td>0300</td>
<td>Br WSW of L. Nagilky</td>
<td>66764</td>
<td>247768</td>
<td>44</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>16</td>
<td>22</td>
<td>99</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>69</td>
<td>0</td>
<td>0</td>
<td>31</td>
<td>0</td>
</tr>
<tr>
<td>0300</td>
<td>12</td>
<td>24</td>
<td>99</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>71</td>
<td>0</td>
<td>1</td>
<td>29</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BUNDORRAGHA**
Tributary of: Sea - Killary Harbour
OS Grid Ref of Confluence: L 842 632
Date(s) Surveyed: 20/7/2012

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** This important Killary Harbour tributary was satisfactory when surveyed in July 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge E. of Bundorragha</td>
<td>84182</td>
<td>263413</td>
<td>37</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>3</td>
<td>48</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>55</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>39</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **BUNNAHOWNA** 32/B/02
Tributary of: Sea - Clew Bay
OS Grid Ref of Confluence: L 855 962
Date(s) Surveyed: 8/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** A drop in quality was recorded in the Bunnahowna compared with 2005 and 2009. The river had surprisingly abundant algal growths and lacked the expected pollution-sensitive mayflies and stoneflies.

**Station ** | **Stations Location** | **National X** | **Grid Ref. Y** | **Discovery Series No.** | **County Code**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bunnahowna Bridge</td>
<td>85656</td>
<td>296511</td>
<td>30</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>23</td>
<td>9</td>
<td>66</td>
<td>34</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code : **BUNOWEN (LOUISBURGH)**
Tributary of : Sea - Clew Bay
OS Grid Ref of Confluence: L 803 818
Date(s) Surveyed: 22/8/2012, 28/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>-</td>
</tr>
<tr>
<td>0100</td>
<td>5</td>
</tr>
<tr>
<td>0150</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The upper sites on the Bunowen (0050, 0100) retained their high status in 2012. Signs of eutrophication were again noted in the lower section upstream of Louisburgh (0150). Investigative monitoring in the catchment is required to pinpoint the source of the problem.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Br N laghta Eighter</td>
<td>85176</td>
<td>275060</td>
<td>0</td>
<td>MO</td>
</tr>
<tr>
<td>0100</td>
<td>Tully Bridge</td>
<td>81965</td>
<td>277956</td>
<td>37</td>
<td>MO</td>
</tr>
<tr>
<td>0150</td>
<td>Bridge in Louisburgh</td>
<td>80678</td>
<td>280689</td>
<td>30</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>21</td>
<td>33</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>11</td>
<td>82</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>0150</td>
<td>5</td>
<td>70</td>
<td>100</td>
<td>0</td>
<td>8</td>
<td>6</td>
<td>68</td>
<td>0</td>
<td>13</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: CARROWBEG (WESTPORT) 32/C/05
Tributary of: Sea - Westport Bay
OS Grid Ref of Confluence: L 982 846
Date(s) Surveyed: 22/8/2012

Biological Quality Ratings (Q Values)

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>4 5</td>
<td>5</td>
<td>5 4-5</td>
<td>4-5</td>
<td>4 4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0100</td>
<td>4 4</td>
<td>4-5</td>
<td>4-5</td>
<td>4 4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0200</td>
<td>- 4</td>
<td>4 3</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
<td>-</td>
<td>- 3</td>
<td>-</td>
<td>3 3</td>
<td>2-3</td>
<td>3-4</td>
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<td>3 3</td>
<td>3 3</td>
<td>3 3</td>
<td>3 3</td>
<td>3 3</td>
<td>3 3</td>
</tr>
</tbody>
</table>

Assessment: The upper Carrowbeg (0050) maintained its high status in 2012. A significant decline in quality was noted, however, in the lower reaches downstream of Westport Town (0300) in August 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0050</td>
<td>30</td>
<td>15</td>
<td>86</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>49</td>
<td>0</td>
<td>27</td>
<td>0</td>
<td>24</td>
</tr>
<tr>
<td>0100</td>
<td>24</td>
<td>36</td>
<td>50</td>
<td>50</td>
<td>4</td>
<td>1</td>
<td>30</td>
<td>0</td>
<td>33</td>
<td>1</td>
<td>31</td>
</tr>
<tr>
<td>0300</td>
<td>8</td>
<td>43</td>
<td>53</td>
<td>47</td>
<td>3</td>
<td>2</td>
<td>25</td>
<td>3</td>
<td>40</td>
<td>1</td>
<td>26</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: CARROWNISKY 32/C/01
Tributary of: Sea - S of Clew Bay
OS Grid Ref of Confluence: L 745 765
Date(s) Surveyed: 22/8/2012, 28/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>-</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0100</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0250</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Assessment: High quality was observed in the upper reaches (0020) and an improvement was noted to good condition in the lower section (0250).

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Glenkeen Bridge</td>
<td>81858</td>
<td>272370</td>
<td>37</td>
<td>MO</td>
</tr>
<tr>
<td>0100</td>
<td>Br at Srahwee</td>
<td>80051</td>
<td>274109</td>
<td>37</td>
<td>MO</td>
</tr>
<tr>
<td>0250</td>
<td>Ford 1.7 km u/s Roonagh Lough</td>
<td>76060</td>
<td>277405</td>
<td>0</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>63</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>90</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>0100</td>
<td>48</td>
<td>21</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>87</td>
<td>0</td>
<td>9</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 32 (2012)**

River and Code: **CROSS (MAYO)**

Tributary of: 32D02 DERRYCRAFF

OS Grid Ref of Confluence: L 992 723

Date(s) Surveyed: 19/7/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** The Cross is a large tributary of the Derrycraff and Erriff system - it was in a satisfactory condition in July 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Derrinkee Bridge</td>
<td>100530</td>
<td>272273</td>
<td>0</td>
<td>MO</td>
</tr>
</tbody>
</table>
### Hydrometric Area 32 (2012)

**River and Code**: CRUMPAUN 32/C/03

**Tributary of**: Beltra Lough  
**OS Grid Ref of Confluence**: M 082 998  
**Date(s) Surveyed**: 10/7/2012

**OS Catchment No**: 108

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>3-4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>0150</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment**: Satisfactory at both sites surveyed in 2012 although a drop in quality was noted at both in comparison with 2005 and 2009 results.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Bridge at Bogadoon</td>
<td>106742</td>
<td>306774</td>
<td>23</td>
<td>MO</td>
</tr>
<tr>
<td>0150</td>
<td>N. of Lough Beltra</td>
<td>109004</td>
<td>301432</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0050</td>
<td>45</td>
<td>12</td>
<td>92</td>
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Alt is in metres  
Area is km²  
Sil, Cal are % siliceous and calcareous bedrock  
Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **CULFIN**
Tributary of: Sea - near Killary Harbour
OS Grid Ref of Confluence: L 747 636
Date(s) Surveyed: 30/8/2012

OS Catchment No: 132

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</thead>
<tbody>
<tr>
<td>0020</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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</tr>
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<td>0040</td>
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<td>4</td>
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<td>4-5</td>
<td>4-5</td>
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</tbody>
</table>

**Assessment:** The Culfin drains Lough Fee and Lough Muck. The condition of the middle section between these two lakes dropped in 2012. A fish farm close to the outflow of Lough Fee may be responsible in part at least for this decline in quality. Investigative monitoring is required.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Owenduff Bridge</td>
<td>81021</td>
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<td>37</td>
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<tr>
<td>0040</td>
<td>Between L Fee and L Muck</td>
<td>77868</td>
<td>262129</td>
<td>37</td>
<td>GY</td>
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<tr>
<td>0200</td>
<td>Br NW of Townacarra</td>
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<td>263473</td>
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<td>GY</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>0</td>
<td>27</td>
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<tr>
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<td>17</td>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: DAWROS  32/D/01
Tributary of: Sea - Ballynakill Harbour
OS Grid Ref of Confluence: L 701 598
Date(s) Surveyed: 9/10/2012, 30/8/2012

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
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<td>0020</td>
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<td>-</td>
<td>5</td>
<td>4-5</td>
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<td>4-5</td>
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<td>4</td>
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<tr>
<td>0060</td>
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<td>-</td>
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<td>4-5</td>
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<td>4-5</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5*</td>
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</tbody>
</table>

Assessment: An improvement was noted in the upper Dawros above Kylemore Lough. High ecological condition was recorded in the two lower sites downstream of the lakes and the Kylemore Abbey centre.

Station Numbers and Locations:

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National Grid Ref. X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Ford u/s Kylemore Lough</td>
<td>80028</td>
<td>257445</td>
<td>37</td>
<td>GY</td>
</tr>
<tr>
<td>0060</td>
<td>Br d/s Pollacappul Lough</td>
<td>74684</td>
<td>258285</td>
<td>0</td>
<td>GY</td>
</tr>
<tr>
<td>0080</td>
<td>D/s L. Maladrolaun</td>
<td>74134</td>
<td>258600</td>
<td>0</td>
<td>GY</td>
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<tr>
<td>0100</td>
<td>Tullywee Bridge</td>
<td>72917</td>
<td>258490</td>
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<td>0200</td>
<td>Dawros Bridge</td>
<td>70180</td>
<td>259745</td>
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<td>GY</td>
</tr>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0020</td>
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<td>0</td>
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<td>3</td>
<td>15</td>
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</table>

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

Tributary of: 32E01 ERRIFF

OS Grid Ref of Confluence: L 976 707

Date(s) Surveyed: 19/7/2012

**Biological Quality Ratings (Q Values)**

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</tr>
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<tbody>
<tr>
<td>0100</td>
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<td>5</td>
<td>5</td>
<td>4</td>
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<td>4</td>
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<td>-</td>
<td>4</td>
</tr>
<tr>
<td>0150</td>
<td>4-5</td>
<td>5</td>
<td>-</td>
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<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Both sites were satisfactory - good ecological condition - on this Erriff River (qv) tributary. Extensive quarries have been a pressure in this catchment in the past.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>0150</td>
<td>Br u/s Erriff R confluence</td>
<td>97850</td>
<td>270547</td>
<td>38</td>
<td>MO</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>9</td>
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<tr>
<td>0150</td>
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<td>86</td>
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<td>8</td>
<td>1</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** The Derryehorraun continued to be in satisfactory condition in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0200</td>
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<td>67132</td>
<td>249373</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
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<td>12</td>
<td>54</td>
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<td>76</td>
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<td>16</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km\(^2\) and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: ERRIFF
Tributary of: Sea - Killary Harbour
OS Grid Ref of Confluence: L 894 643
Date(s) Surveyed: 9/10/2012, 19/7/2012

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0030</td>
<td>-</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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<td>4-5</td>
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<td>4-5</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</table>

Assessment: The Erriff showed an improvement at the upper site (0030) but little other changes compared with the 2009 survey. While ecological condition is generally good overall it is not as high as it has been in the past (e.g. up to 2002). There are significant forestry issues in the catchment (nutrient losses from clear-felling of plantations on peat soils such as upstream of Tawnyard Lough), and overgrazing pressure is still an issue in the lower reaches.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0030</td>
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<td>0</td>
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<td>9</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** A disappointing decline in quality was noted in 2012. The macroinvertebrate community had deteriorated apparently in response to an extensive siltation event - red-brown iron rich silt coated the river bed. Forestry operations are the main suspected cause.
**Assessment:** A decline in quality was noted at Station 0100 in comparison with 2009. The site had extensive filamentous algal cover which was regarded as a departure from reference conditions for this type of upland river. Extensive recent clear-felling may be in part responsible. A new investigative site upstream of the forestry impact was added (0090). Previously the catchment upstream of Station 0090 had also been noted for extensive sheep overgrazing impacts. While in good ecological condition it had a low number of species. The Glendavock feeds into Tawnyard Lough and the Errif River (qv). Investigative monitoring of the algal communities will be undertaken.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.85 km u/s Tawnyard Lough</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>54</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **GLENISLAND** 32/G/07
Tributary of: Beltra Lough
OS Grid Ref of Confluence: M 072 972
Date(s) Surveyed: 10/7/2012

OS Catchment No: 108

Biological Quality Ratings (Q Values)

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<tbody>
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<td>4</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Continuing highly satisfactory in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Bridge u/s Lough Beltra</td>
<td>107304</td>
<td>296716</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>20</td>
<td>14</td>
<td>100</td>
<td>0</td>
<td>31</td>
<td></td>
<td>47</td>
<td>0</td>
<td>15</td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENLAUR**
Tributary of: 32E01 ERRIFF
OS Grid Ref of Confluence: L 948 713
Date(s) Surveyed: 20/7/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>5</td>
<td>4.5</td>
<td>5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**Assessment:** The Glenlaur maintained its long term high ecological quality in 2012. This is a consistently high quality river - a tributary of the Erriff (qv) - and requires special protection and attention in order to maintain this high status.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>400 m d/s Sheefry Bridge</td>
<td>92072</td>
<td>269298</td>
<td>38</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>90</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>94</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **GLENNAMONG**

Tributary of: Lough Feeagh

OS Grid Ref of Confluence: F 957 018

Date(s) Surveyed: 11/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The Glennamong, a tributary of L. Feeagh, showed a decline in condition in 2012 compared with the two previous assessments in 2009 and 2005. This is disappointing as the acidification impacts from the forestry plantations in the catchment appeared to have ameliorated. None of the classic sensitive taxa were found in 2012 although it still retained a significant number of the stonefly *Leuctra*. The upstream catchment has been the subject of a research project aimed at reducing the amount of silt and nutrients coming from clear-felling operations for forestry plantations on deep peat.

**Station No.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Lough Feeagh</td>
<td>94735</td>
<td>302444</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>24</td>
<td>14</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>32</td>
<td>63</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENUMMERA**
Tributary of: 32B01 BUNDORRAGHA
OS Grid Ref of Confluence: L 845 650
Date(s) Surveyed: 20/7/2012

Previously reported as part of the Bundorragha (32B01)

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>2002</th>
<th>2006</th>
<th>2009</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>-5</td>
</tr>
<tr>
<td>0070</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** High ecological condition was observed at both Glenummera sites surveyed in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>N of Glendavock (w of 88m bmark)</td>
<td>88486</td>
<td>268260</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>0070</td>
<td>1km u/s Doo Lough</td>
<td>85340</td>
<td>267585</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
Hydrometric Area 32 (2012)

River and Code: GOULAUN 32/G/06
Tributary of: 32S02 SRAHMORE OS Catchment No: 107
OS Grid Ref of Confluence: F 967 070
Date(s) Surveyed: 11/7/2012

Biological Quality Ratings (Q Values)

<table>
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<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0100</td>
<td>5</td>
<td>4.5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3/0</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Satisfactory.

Station Locations

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>Second Br d/s Bunaveela Lough</td>
<td>98590</td>
<td>307978</td>
<td>23</td>
<td>MO</td>
</tr>
<tr>
<td>0100</td>
<td>1.4 km d/s Bunaveela Lough</td>
<td>98226</td>
<td>307834</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>96</td>
<td>8</td>
<td>94</td>
<td>6</td>
<td>0</td>
<td>5</td>
<td>70</td>
<td>0</td>
<td>4</td>
<td>6</td>
<td>14</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km2, Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **MOYOUR**
Tributary of: Sea - Clew Bay
OS Grid Ref of Confluence: L 943 876
Date(s) Surveyed: 9/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3-4</td>
</tr>
<tr>
<td>0400</td>
<td>3</td>
</tr>
<tr>
<td>0700</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory conditions were maintained at both sites surveyed on the Moyour in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br SW of Slinaun</td>
<td>102985</td>
<td>288802</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0400</td>
<td>Br S of Lugnafahy</td>
<td>101317</td>
<td>288984</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0700</td>
<td>Moyour Bridge</td>
<td>96641</td>
<td>287896</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

<p>| Site Altitude and Upstream Catchment Characteristics (where available): |
|----------------------|----------------------|----------------------|----------------------|----------------------|</p>
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>21</td>
<td>4</td>
<td>36</td>
<td>64</td>
<td>4</td>
<td>0</td>
<td>40</td>
<td>0</td>
<td>42</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>0400</td>
<td>16</td>
<td>30</td>
<td>35</td>
<td>65</td>
<td>9</td>
<td>0</td>
<td>7</td>
<td>1</td>
<td>46</td>
<td>2</td>
<td>36</td>
</tr>
<tr>
<td>0700</td>
<td>5</td>
<td>43</td>
<td>25</td>
<td>75</td>
<td>12</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>36</td>
<td>2</td>
<td>44</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: NEWPORT (MAYO) 32/N/01
Tributary of: Sea - Newport Bay
OS Grid Ref of Confluence: L 977 941
Date(s) Surveyed: 8/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>0050</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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<td>0190</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4B</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: The upper site on the Newport is lake-influenced - phytoplankton in the outflowing water results in filter feeding communities at such sites. The river is of high quality in the mid to lower reaches (0050 and 0190). No signs of brackish influence were noticed on this sampling occasion at the lower site which is just upstream of Newport Town.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Br 1.25km d/s Lough Beltra</td>
<td>104300</td>
<td>297305</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0050</td>
<td>4.5 km u/s Br in Newport</td>
<td>101220</td>
<td>295342</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0190</td>
<td>400 m u/s Newport Bridge</td>
<td>98815</td>
<td>293847</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>11</td>
<td>141</td>
<td>63</td>
<td>37</td>
<td>0</td>
<td>12</td>
<td>55</td>
<td>0</td>
<td>17</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>0190</td>
<td>2</td>
<td>147</td>
<td>61</td>
<td>39</td>
<td>0</td>
<td>11</td>
<td>55</td>
<td>0</td>
<td>17</td>
<td>3</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **OWENDUFF (ERRIFF)**
Tributary of: 32E01 ERRIFF
OS Grid Ref of Confluence: L 951 678
Date(s) Surveyed: 19/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** This outflow from Tawnyard Lough maintained its good ecological condition in 2012 with perhaps a slight improvement on 2009. The Glendavock (qv) river tributary of Tawnyard Lough shows signs of eutrophication due to nutrients released clear-felling in the upper catchment and thus, an assessment of the lake and catchment as a whole is warranted to ensure that this important Erriff River (qv) tributary retains or improves its status.

**Station Location**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge d/s Tawnyard Lough</td>
<td>92782</td>
<td>267499</td>
<td>38</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>65</td>
<td>12</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>15</td>
<td>35</td>
<td>0</td>
<td>6</td>
<td>6</td>
<td>38</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Poor ecological condition was again recorded at both sites on the Owengarve. A worrying drop in the number of macroinvertebrate taxa was also noted. The catchment pressures are primarily forestry and sheep grazing. The upper site is particularly silted. The drop in the number of species (down from 16 in 2009 to 11 taxa in 2012), while not as drastic as seen in some Donegal rivers of similar type, may indicate an additional pressure of pour-on sheep dips such as cypermethrin which is particularly toxic to aquatic organisms.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>48</td>
<td>12</td>
<td>90</td>
<td>10</td>
<td>0</td>
<td>16</td>
<td>73</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>0200</td>
<td>7</td>
<td>29</td>
<td>67</td>
<td>32</td>
<td>0</td>
<td>7</td>
<td>82</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: OWENGLIN
Tributary of: Sea - Clifden Bay
OS Grid Ref of Confluence: L 658 506
Date(s) Surveyed: 9/10/2012, 30/8/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The upper site on the Owenglin (0100) has substantial growths of filamentous algae suggesting a significant nutrient input to this upland stretch. The catchment is heavily forested in the upper reaches. Satisfactory conditions were noted at both sites including 0300 in Clifden town.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>N. of Barnanoraun</td>
<td>74401</td>
<td>251236</td>
<td>37</td>
<td>GY</td>
</tr>
<tr>
<td>0300</td>
<td>Br at S.E. end of Clifden</td>
<td>66057</td>
<td>250392</td>
<td>37</td>
<td>GY</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>92</td>
<td>15</td>
<td>91</td>
<td>9</td>
<td>0</td>
<td>6</td>
<td>72</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>0300</td>
<td>10</td>
<td>37</td>
<td>91</td>
<td>9</td>
<td>0</td>
<td>6</td>
<td>71</td>
<td>2</td>
<td>6</td>
<td>1</td>
<td>14</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **OWENNABROCKAGH** 32/O/04
Tributary of: Sea - Newport Bay
OS Grid Ref of Confluence: L 973 901
Date(s) Surveyed: 9/8/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>- 4 - 4 - 4 4 - 4 - 4 4 - 4 - 4 - 4 - 4</td>
</tr>
<tr>
<td>0380</td>
<td>- 4-5 - 4 4 - 4 4 - 4 - 4 - 4 - 4 - 4</td>
</tr>
<tr>
<td>0500</td>
<td>4-5 4 4 4 4 4 4 4 - 4-5 4</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing high quality at both sites surveyed in 2012.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>Br NE Derrintloura</td>
<td>106081</td>
<td>291958</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0380</td>
<td>Brockagh Bridge</td>
<td>101565</td>
<td>290723</td>
<td>31</td>
<td>MO</td>
</tr>
<tr>
<td>0500</td>
<td>Knocknaboley Bridge</td>
<td>98061</td>
<td>289842</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>58</td>
<td>8</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>51</td>
<td>0</td>
<td>31</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>0380</td>
<td>20</td>
<td>17</td>
<td>80</td>
<td>20</td>
<td>3</td>
<td>6</td>
<td>43</td>
<td>0</td>
<td>20</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>0500</td>
<td>2</td>
<td>20</td>
<td>69</td>
<td>31</td>
<td>6</td>
<td>5</td>
<td>37</td>
<td>0</td>
<td>19</td>
<td>0</td>
<td>32</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENNADORNAUN**
Tributary of: Sea - South of Clew Bay
OS Grid Ref of Confluence: L 740 713
Date(s) Surveyed: 28/8/2012

<table>
<thead>
<tr>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>0100</td>
</tr>
</tbody>
</table>

**Assessment:** A distinct improvement was noted in August 2012 compared with the previous two surveys. The Owennadornaun is a Clew Bay tributary draining the northwest flank of Mweelrea mountain. The catchment has some forestry, grassland and upland bog/moorland.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge S. of Killary Lodge</td>
<td>75945</td>
<td>270245</td>
<td>37</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>39</td>
<td>8</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>17</td>
<td>65</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 32 (2012)

River and Code: **OWENWEE (MAYO)** 32/O/06
Tributary of: Sea - Westport Bay
OS Grid Ref of Confluence: L 958 824
Date(s) Surveyed: 10/10/2012
OS Catchment No: 126

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>3/0</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0600</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Maintaining good condition at both sites.

**Station Locations**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge S. of Brackloon</td>
<td>97275</td>
<td>279172</td>
<td>38</td>
<td>MO</td>
</tr>
<tr>
<td>0600</td>
<td>Belclare Bridge</td>
<td>95958</td>
<td>282153</td>
<td>31</td>
<td>MO</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>80</td>
<td>19</td>
<td>100</td>
<td>0</td>
<td>2</td>
<td>7</td>
<td>67</td>
<td>0</td>
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<td>2</td>
<td>12</td>
</tr>
<tr>
<td>0600</td>
<td>10</td>
<td>46</td>
<td>100</td>
<td>0</td>
<td>4</td>
<td>9</td>
<td>51</td>
<td>0</td>
<td>24</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SKERDAHG**
Tributary of: 32N01 NEWPORT (MAYO)
OS Grid Ref of Confluence: M 034 965
Date(s) Surveyed: 10/7/2012

**Hydrometric Area 32 (2012)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Knockmoyle Bridge</td>
<td>102692</td>
<td>297588</td>
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<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>30</td>
<td>20</td>
<td>74</td>
<td>26</td>
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<td>51</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>25</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SRAHMORE**  
Tributary of: Lough Feeagh  
OS Grid Ref of Confluence: F 965 022  
Date(s) Surveyed: 11/7/2012

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory - no change.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Lough Feeagh</td>
<td>96311</td>
<td>302860</td>
<td>31</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>2</td>
<td>45</td>
<td>95</td>
<td>5</td>
<td>0</td>
<td>29</td>
<td>51</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>17</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **STREAMSTOWN (CLIFDEN)**
Tributary of: Sea - Streamstown Bay
OS Grid Ref of Confluence: L 645 532
Date(s) Surveyed: 30/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Continuing high ecological condition in the Streamstown River - a tributary of Streamstown Bay north of Clifden.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>13</td>
<td>14</td>
<td>98</td>
<td>2</td>
<td>9</td>
<td>8</td>
<td>71</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>9</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Hydrometric Area 32 (2012)**

River and Code: **TRAHEEN**
Tributary of: Sea - Ballynakill Harbour
OS Grid Ref of Confluence: L 687 571
Date(s) Surveyed: 30/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The Traheen River continues to be in satisfactory condition.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3</td>
<td>6</td>
<td>79</td>
<td>21</td>
<td>0</td>
<td>16</td>
<td>63</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

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. 32

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.

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>WFD Quality Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altaconey</td>
<td>2012</td>
<td>32A02</td>
<td>6.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>6.0</td>
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<tr>
<td>Ballinaboy</td>
<td>2012</td>
<td>32B07</td>
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<td>0.0</td>
<td>1.9</td>
<td>2.1</td>
<td>4.0</td>
</tr>
<tr>
<td>Bundorragha</td>
<td>2012</td>
<td>32B01</td>
<td>9.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>9.5</td>
</tr>
<tr>
<td>Bunnahowna</td>
<td>2012</td>
<td>32B02</td>
<td>0.0</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>4.0</td>
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<tr>
<td>Bunowen (Louisburg)</td>
<td>2012</td>
<td>32B03</td>
<td>15.0</td>
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<td>0.0</td>
<td>17.0</td>
</tr>
<tr>
<td>Carrowbeg (Westport)</td>
<td>2012</td>
<td>32C05</td>
<td>7.7</td>
<td>3.8</td>
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</tr>
<tr>
<td>Carrownisky</td>
<td>2012</td>
<td>32C01</td>
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<td>10.5</td>
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<td>0.0</td>
<td>17.0</td>
</tr>
<tr>
<td>Cross (Mayo)</td>
<td>2012</td>
<td>32C02</td>
<td>0.0</td>
<td>6.0</td>
<td>0.0</td>
<td>0.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Crumpan</td>
<td>2012</td>
<td>32C03</td>
<td>0.0</td>
<td>12.0</td>
<td>0.0</td>
<td>0.0</td>
<td>12.0</td>
</tr>
<tr>
<td>Culfin</td>
<td>2012</td>
<td>32C04</td>
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<td>1.4</td>
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<td>Dawros</td>
<td>2012</td>
<td>32D01</td>
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<tr>
<td>Derrycraff</td>
<td>2012</td>
<td>32D02</td>
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<td>0.0</td>
<td>0.0</td>
<td>7.0</td>
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<td>0.0</td>
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<td>2012</td>
<td>32G07</td>
<td>5.0</td>
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<td>0.0</td>
<td>5.0</td>
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<tr>
<td>Glenlaur</td>
<td>2012</td>
<td>32G02</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
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<tr>
<td>Glenamong</td>
<td>2012</td>
<td>32G03</td>
<td>0.0</td>
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<td>Goulua</td>
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<td>32G06</td>
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<td>Moyer</td>
<td>2012</td>
<td>32M01</td>
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<tr>
<td>Newport (Mayo)</td>
<td>2012</td>
<td>32N01</td>
<td>7.2</td>
<td>2.8</td>
<td>0.0</td>
<td>0.0</td>
<td>10.0</td>
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<td>2012</td>
<td>32O08</td>
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<tr>
<td>Owengarve (Mayo)</td>
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<tr>
<td>Owennabrockagh</td>
<td>2012</td>
<td>32O04</td>
<td>14.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>14.0</td>
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<tr>
<td>Owenmadornaun</td>
<td>2012</td>
<td>32O07</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
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<tr>
<td>Owenwee (Mayo)</td>
<td>2012</td>
<td>32O06</td>
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<td>13.0</td>
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<td>0.0</td>
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<tr>
<td>Skerdagh</td>
<td>2012</td>
<td>32S01</td>
<td>10.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>10.0</td>
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<tr>
<td>Srahmore</td>
<td>2012</td>
<td>32S02</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
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<td>2.0</td>
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<tr>
<td>Streamstown (Clifden)</td>
<td>2012</td>
<td>32S04</td>
<td>2.5</td>
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<td>0.0</td>
<td>0.0</td>
<td>2.5</td>
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<tr>
<td>Traheen</td>
<td>2012</td>
<td>32T01</td>
<td>6.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Total Length (km) surveyed this cycle
116.4  120.8  14.8  10.6  0.0  262.5

Adjustments (km) (See below)*
0.0   0.0   0.0   0.0   0.0   0.0

Current Length (km) Adjusted 2012
116.4  120.8  14.8  10.6  0.0  262.5

Percentages
44.3  46.0  5.6  4.0  0.0  100.0

Channel Length (km) in Class

Baseline : Current Adjusted Status (km) 2010-12
237.1  14.8  10.6  0.0  262.5
Percentages
90.3  5.6  4.0  0.0  100.0

Baseline: Previous Unadjusted Status (km)** 2007-09
83.2  151.1  24.2  4.0  0.0  262.5
Percentages
31.7  57.6  9.2  1.5  0.0  100.0
Changes since Previous Survey (km )
33.2  -30.4  -9.4  6.6  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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>16</td>
<td>21</td>
</tr>
<tr>
<td>Good</td>
<td>28</td>
<td>23</td>
</tr>
<tr>
<td>Moderate</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Poor</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Bad</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Total number of sites surveyed: 53, 55
Total number of sites at unsatisfactory status: 9, 11

Hydrometric Area 32 : Trends

% Surveyed Channel Length in Four Quality Classes

Hydrometric Area 32 : Trends

% Surveyed Channel Length in Five WFD Quality Classes
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 33 (Blacksod – Blackhaven: Balance of Survey)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTNABROCKY 33A02</td>
</tr>
<tr>
<td>BARROOSKY 33B08</td>
</tr>
<tr>
<td>BELDERG 33B02</td>
</tr>
<tr>
<td>BELLANABOY 33B07</td>
</tr>
<tr>
<td>CLOONALAGHAN 33C01</td>
</tr>
<tr>
<td>CLOONEEN (MAYO) 33C03</td>
</tr>
<tr>
<td>GLENAMOY 33G01</td>
</tr>
<tr>
<td>GLENCastle 33G08</td>
</tr>
<tr>
<td>GLENGlassera 33G05</td>
</tr>
<tr>
<td>GORTMORE STREAM (MAYO) 33G04</td>
</tr>
<tr>
<td>GWeedaneY 33G06</td>
</tr>
<tr>
<td>MUING 33M01</td>
</tr>
<tr>
<td>MUINGnabo 33M02</td>
</tr>
</tbody>
</table>
Hydrometric Area 33 (2012)

River and Code: **ALTNABROCKY**

Tributary of: 33O04 OWENMORE (MAYO)  
OS Catchment No: 105

OS Grid Ref of Confluence: F 980 198

Date(s) Surveyed: 9/8/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** An improvement was noted in the quality of this Owenmore River (qv) tributary.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Just u/s Owenmore River confl</td>
<td>96895</td>
<td>319813</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>74</td>
<td>33</td>
<td>34</td>
<td>66</td>
<td>0</td>
<td>15</td>
<td>34</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>52</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: BARROOSKY
Tributary of: 33G01 GLENAMOY
OS Grid Ref of Confluence: F 929 333
Date(s) Surveyed: 18/7/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: The Barroosky maintained its high ecological condition in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>0.3km u/s Glenamoy (end of road)</td>
<td>93087</td>
<td>333218</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>
River and Code : **BELDERG**
Tributary of : Sea - Belderg Harbour
OS Grid Ref of Confluence: F 993 414
Date(s) Surveyed: 7/8/2012

**Hydrometric Area 33 (2012)**

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
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<tr>
<td>0300</td>
<td>4</td>
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<td>-</td>
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</tbody>
</table>

**Assessment:** Satisfactory - no change.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge in Belderg</td>
<td>99124</td>
<td>339459</td>
<td>23</td>
<td>MO</td>
</tr>
<tr>
<td>0300</td>
<td>W. of Raheen (at T-junction)</td>
<td>98992</td>
<td>340546</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>14</td>
<td>15</td>
<td>100</td>
<td>0</td>
<td>8</td>
<td>6</td>
<td>71</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>12</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BELLANABOY**
Tributary of: Carrowmore Lake
OS Grid Ref of Confluence: F 849 304
Date(s) Surveyed: 18/7/2012

<table>
<thead>
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<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
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<td>4</td>
<td>4</td>
<td>4</td>
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<td>4</td>
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<tr>
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<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</table>

**Assessment:** This important Carrowmore Lake tributary continued to be in satisfactory condition with no significant change since the last survey.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bellanaboy Bridge</td>
<td>85725</td>
<td>332185</td>
<td>23</td>
<td>MO</td>
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<tr>
<td>0200</td>
<td>Bridge u/s Carrowmore Lake</td>
<td>85742</td>
<td>331675</td>
<td>23</td>
<td>MO</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>10</td>
<td>20</td>
<td>97</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>57</td>
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<td>0</td>
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</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 33 (2012)

River and Code: CLOONALAGHAN
Tributary of: Sea - Lacken Bay
OS Grid Ref of Confluence: G 189 366
Date(s) Surveyed: 7/8/2012

OS Catchment No: 103

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0300</td>
<td>-</td>
<td>4-5</td>
<td>4</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0700</td>
<td>4</td>
<td>2-3</td>
<td>3</td>
<td>4</td>
<td>2-3</td>
<td>4</td>
<td>4</td>
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<td>4</td>
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</tbody>
</table>

Assessment: Continuing satisfactory.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0300</td>
<td>57</td>
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<td>0</td>
<td>100</td>
<td>19</td>
<td>16</td>
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<td>1</td>
<td>0</td>
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<tr>
<td>0700</td>
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<td>13</td>
<td>0</td>
<td>100</td>
<td>60</td>
<td>6</td>
<td>19</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: CLOONEEN (MAYO)  33/C/03
Tributary of: Sea - Moyrahan Bay
OS Grid Ref of Confluence: F 706 355
Date(s) Surveyed: 18/7/2012

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>0025</td>
<td>-</td>
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<td>3</td>
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<tr>
<td>0050</td>
<td>3/0</td>
<td>3/0</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3B</td>
<td>3</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Assessment: An improvement was noted in comparison with the 2008 survey but ecological conditions were not yet satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0025</td>
<td>Br S Clooneen (N Branch)</td>
<td>68890</td>
<td>336588</td>
<td>22</td>
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<tr>
<td>0050</td>
<td>W of Bartrauve (nr road fork)</td>
<td>70294</td>
<td>335940</td>
<td>22</td>
<td>MO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0050</td>
<td>3</td>
<td>13</td>
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<td>0</td>
<td>25</td>
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<td>63</td>
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<td>11</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: GLENAMOY 33/G/01
Tributary of: Sea - Sruwaddacon Bay
OS Grid Ref of Confluence: F 870 360
OS Catchment No: 100
Date(s) Surveyed: 7/8/2012

Biological Quality Ratings (Q Values)

<table>
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<td>4</td>
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</tr>
<tr>
<td>0050</td>
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<td>4-5</td>
<td>4-5</td>
<td>3-4*</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0100</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4*</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: All sites surveyed were of high ecological quality with an improvement noted at Glenamoy Bridge in particular.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>13</td>
<td>51</td>
<td>85</td>
<td>15</td>
<td>11</td>
<td>12</td>
<td>59</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>0100</td>
<td>5</td>
<td>81</td>
<td>90</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>62</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>16</td>
</tr>
</tbody>
</table>

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

Tributary of: Sea - Trawmore Bay

OS Grid Ref of Confluence: F 750 290

Date(s) Surveyed: 18/7/2012

**Hydrometric Area 33 (2012)**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>-</td>
</tr>
<tr>
<td>0300</td>
<td>4-5</td>
</tr>
<tr>
<td>0500</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** No change with both sites retaining good ecological condition.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br u/s Glencastle Br.</td>
<td>78259</td>
<td>326970</td>
<td>22</td>
<td>MO</td>
</tr>
<tr>
<td>0300</td>
<td>Glencastle Bridge</td>
<td>77317</td>
<td>327650</td>
<td>22</td>
<td>MO</td>
</tr>
<tr>
<td>0500</td>
<td>Bridge S. of Bunnahowen</td>
<td>75404</td>
<td>328466</td>
<td>22</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>53</td>
<td>5</td>
<td>98</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>93</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>0500</td>
<td>6</td>
<td>10</td>
<td>99</td>
<td>1</td>
<td>24</td>
<td>0</td>
<td>68</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 33 (2012)

River and Code: **GLENGLASSERA** 33/G/05
Tributary of: Sea - Glenloss Point
OS Grid Ref of Confluence: G 024 416
Date(s) Surveyed: 7/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory - no change in comparison with 2008.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br near Glenlossera Lodge</td>
<td>102266</td>
<td>341155</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>20</td>
<td>10</td>
<td>63</td>
<td>37</td>
<td>0</td>
<td>6</td>
<td>84</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GORTMORE STREAM (MAYO)**

Tributary of: Sea - Bunatrahir Bay

OS Grid Ref of Confluence: G 108 400

Date(s) Surveyed: 7/8/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>0500</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0800</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800</td>
<td>6</td>
<td>16</td>
<td>0</td>
<td>100</td>
<td>53</td>
<td>1</td>
<td>30</td>
<td>0</td>
<td>16</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **Gweedane**
Tributary of: Sea - Broad Haven
OS Grid Ref of Confluence: F 850 391
Date(s) Surveyed: 18/7/2012

**Hydrometric Area 33 (2012)**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
</tr>
<tr>
<td>0200</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** A further improvement to satisfactory condition was noted in 2012. The river appears to be gradually recovering from damage done by overgrazing pressures in the past.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge E. of Curraunboy</td>
<td>85339</td>
<td>340568</td>
<td>23</td>
<td>MO</td>
</tr>
<tr>
<td>0200</td>
<td>Br SE of Curraunboy</td>
<td>84973</td>
<td>339413</td>
<td>23</td>
<td>MO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>15</td>
<td>4</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 33 (2012)

River and Code: MUING
Tributary of: 33O04 OWENMORE (MAYO) OS Catchment No: 105
OS Grid Ref of Confluence: F 971 199
Date(s) Surveyed: 9/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: This Owenmore tributary showed a welcome improvement in quality in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>72</td>
<td>19</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>12</td>
<td>65</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>20</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 33 (2012)

River and Code: **MUINGNABO**
Tributary of: **OS Catchment No: 98**
OS Grid Ref of Confluence: F 870 358
Date(s) Surveyed: 18/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>0140</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3-4</td>
<td>-</td>
<td>-</td>
<td>4B</td>
</tr>
<tr>
<td>0150</td>
<td>-</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>-</td>
<td>4B</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** Access to the upper site sampled in 2008 was not possible in 2012. The site upstream of Annie Brady Bridge showed some signs of salt intrusion but was in good ecological condition.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>2</td>
<td>36</td>
<td>100</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>70</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>19</td>
</tr>
</tbody>
</table>

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. 33

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.

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>River Name</td>
<td>Year</td>
<td>Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Altnabrocky</td>
<td>2012</td>
<td>33A02</td>
<td>11.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Ballinglen</td>
<td>2011</td>
<td>33B01</td>
<td>9.5</td>
<td>1.5</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Barroosky</td>
<td>2012</td>
<td>33B08</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Belderg</td>
<td>2012</td>
<td>33B02</td>
<td>0.0</td>
<td>6.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Bellagarvaun</td>
<td>2011</td>
<td>33B04</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Bellanaboy</td>
<td>2012</td>
<td>33B07</td>
<td>0.0</td>
<td>7.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Bunanioo</td>
<td>2011</td>
<td>33B09</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Cartron</td>
<td>2011</td>
<td>33C02</td>
<td>0.0</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Cloonalaghan</td>
<td>2012</td>
<td>33C01</td>
<td>0.0</td>
<td>8.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Clooneen (Mayo)</td>
<td>2012</td>
<td>33C03</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Doogra</td>
<td>2011</td>
<td>33D01</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Doolough Stream</td>
<td>2011</td>
<td>33D02</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Glenamoy</td>
<td>2012</td>
<td>33G01</td>
<td>16.0</td>
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<tr>
<td>Glencastle</td>
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<td>0.0</td>
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<tr>
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<td>2011</td>
<td>33G02</td>
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<tr>
<td>Glencullin (W Mayo)</td>
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<td>9.0</td>
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<tr>
<td>Gortmore Stream (Mayo)</td>
<td>2012</td>
<td>33G04</td>
<td>0.0</td>
<td>7.0</td>
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<td>0.0</td>
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<td>Gweedaney</td>
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<td>33G06</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Keeroglen</td>
<td>2011</td>
<td>33K01</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Muing</td>
<td>2012</td>
<td>33M01</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Muingnabo</td>
<td>2012</td>
<td>33M02</td>
<td>0.0</td>
<td>9.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Muingnakee (no distances)</td>
<td>2011</td>
<td>33M04</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Munhin</td>
<td>2011</td>
<td>33M03</td>
<td>0.0</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
</tr>
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<td>Owenduff (Blacksod)</td>
<td>2011</td>
<td>33O01</td>
<td>17.3</td>
<td>8.3</td>
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<td>0.0</td>
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<tr>
<td>Owenmore (Mayo)</td>
<td>2011</td>
<td>33O04</td>
<td>22.2</td>
<td>19.9</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Sheksin Stream</td>
<td>2011</td>
<td>33S03</td>
<td>6.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Shraduggan Stream</td>
<td>2011</td>
<td>33S05</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Tarsaghaunmore</td>
<td>2011</td>
<td>33T01</td>
<td>0.0</td>
<td>10.0</td>
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</table>

Total Length (km) surveyed this cycle: 92.9 118.6 3.0 1.0 0.0 215.5  
Adjustments (km) (See below)*: 2011/12 0.0 0.0 0.0 0.0 0.0 0.0  
Current adjusted length (km): 92.9 118.6 3.0 1.0 0.0 215.5  
Percentages: 43.1 55.0 1.4 0.5 0.0 100.0  

### Channel Length (km) in Class

<table>
<thead>
<tr>
<th>Channel Length (km) in Class</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Baseline: Current Adjusted Status (km)</td>
<td>211.5</td>
<td>3.0</td>
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<tr>
<td>Percentages</td>
<td>98.1</td>
<td>1.4</td>
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<td>0.0</td>
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<tr>
<td>Baseline: Previous Unadjusted Status (km)**</td>
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</tr>
<tr>
<td>Percentages</td>
<td>34.3</td>
<td>60.1</td>
<td>3.2</td>
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<tr>
<td>Changes since Previous Survey (km )</td>
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</table>

* 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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2008</th>
<th>2011/12</th>
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<tr>
<td>High</td>
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<tr>
<td>poor</td>
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<td>1</td>
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<tr>
<td>bad</td>
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<tr>
<td>Total number of sites surveyed</td>
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<td>43</td>
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<tr>
<td>Total number of sites at unsatisfactory status</td>
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**Hydrometric Area 33: Trends**

% Surveyed Channel Length in Four Quality Classes

- Class A: Unpolluted
- Class B: Slightly Polluted
- Class C: Moderately Polluted
- Class D: Seriously Polluted

**Hydrometric Area 33: Trends**

% Surveyed Channel Length in Five WFD Quality Classes

- High Status: Unpolluted
- Good Status: Unpolluted
- Moderate Status: Slightly Polluted
- Poor Status: Moderately Polluted
- Bad Status: Seriously Polluted
<table>
<thead>
<tr>
<th>HYDROMETRIC AREA 35 (Sligo Bay &amp; Drowse)</th>
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</thead>
<tbody>
<tr>
<td>BALLYMOTE STREAM</td>
</tr>
<tr>
<td>BALLYSODARE</td>
</tr>
<tr>
<td>BONET</td>
</tr>
<tr>
<td>BRACKARY</td>
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<tr>
<td>BRADOGE</td>
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<td>BUNCROWEY</td>
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<td>BUNNANADDAN STREAM</td>
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<td>CASHEL STREAM (BONET)</td>
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<td>CLOONEEN (SLIGO)</td>
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<td>DIFFREEN</td>
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<td>DOONBEAKIN</td>
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<td>DOONFLIN</td>
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<tr>
<td>DOUGLAS (SLIGO)</td>
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<tr>
<td>DROYES</td>
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<td>DRUMCLIFF</td>
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<td>DRUMFIN</td>
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<td>DUFF</td>
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<td>DUNNEILL</td>
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<td>EASKY</td>
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<td>FINNED</td>
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<td>GLENANIFF</td>
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<td>GRANGE (SLIGO)</td>
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<td>35B06</td>
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<td>35B07</td>
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<tr>
<td>35B09</td>
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<td>35T03</td>
</tr>
<tr>
<td>35U01</td>
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<tr>
<td>35W01</td>
</tr>
</tbody>
</table>
River and Code: **BALLYMOTE STREAM**
Tributary of: 35O06 OWENMORE (SLIGO)
OS Grid Ref of Confluence: G 657 132
Date(s) Surveyed: 9/8/2012

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
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<td>4</td>
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<td>4</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment**: Satisfactory ecological conditions were maintained in the Ballymote Stream in August 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0040</td>
<td>Ballymote: Br S.E. of Church</td>
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<td>25</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BALLYSODARE**
Tributary of: Sea - Ballysodare Bay
OS Grid Ref of Confluence: G 667 296
Date(s) Surveyed: 10/8/2012

**Assessment:** The Ballysodare is formed by the confluence of two large rivers, the Unshin and the Owenmore, and is an important salmon river. High ecological condition was maintained in 2012, characterised by high diversity of macroinvertebrate fauna and presence of pollution sensitive taxa.

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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<td>8</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 35 (2012)

River and Code : **BONET**
Tributary of  : Lough Gill
OS Grid Ref of Confluence : G 782 335
OS Catchment No: 117
Date(s) Surveyed: 12/8/2012, 13/12/2012, 18/9/2012

### Biological Quality Ratings (Q Values)

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</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Bonet in 2012, including downstream of the new Dromahair WWTP (0625). The river flows from Glenade Lake to Lough Gill.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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<td>1</td>
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</table>

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

Tributary of: 35O08 OWENMORE (MANORHAMILTON)

OS Grid Ref of Confluence: G 885 395

Date(s) Surveyed: 18/9/2012

### Biological Quality Ratings (Q Values)

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**Assessment:** A welcome return to highly satisfactory ecological conditions was noted in the upper Brackary (0200) in 2012, while satisfactory conditions have been maintained downstream (0500), above the confluence with the Owenmore River.

### Stations Location

<table>
<thead>
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<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
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<td>LM</td>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0200</td>
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<td>18</td>
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<td>41</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>0500</td>
<td>41</td>
<td>51</td>
<td>9</td>
<td>91</td>
<td>26</td>
<td>11</td>
<td>24</td>
<td>1</td>
<td>24</td>
<td>1</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **BRADOGE**  
Tributary of : Sea - Donegal Bay  
OS Grid Ref of Confluence: G 818 588  
Date(s) Surveyed: 11/8/2012  
OS Catchment No: 122

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>0060</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
<td>3</td>
<td>4</td>
<td>4</td>
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<td>0150</td>
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<td>-</td>
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<td>-</td>
</tr>
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<td>0200</td>
<td>3-4</td>
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<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>2-3</td>
<td>2-3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna indicated satisfactory ecological conditions at the upper station (0060) of the Bradoge in 2012 while unsatisfactory conditions prevailed at the lower site in Bundoran (0200).
Assessment: Although the upper site (0100) of the Buncrowley River remained in unsatisfactory ecological condition in 2012, there was a remarkable improvement in condition at the lower site (0500). River enhancement works appear to have contributed to the improvement to high ecological condition.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br near Old Shooting Lodge</td>
<td>144088</td>
<td>327180</td>
<td>24</td>
<td>SO</td>
</tr>
<tr>
<td>0500</td>
<td>Br u/s confluence with Easky R.</td>
<td>140534</td>
<td>331031</td>
<td>24</td>
<td>SO</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>190</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>78</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>0500</td>
<td>76</td>
<td>19</td>
<td>48</td>
<td>52</td>
<td>9</td>
<td>0</td>
<td>68</td>
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<td>0</td>
<td>0</td>
<td>24</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**River and Code**: BUNNANADDAN STREAM 35/B/08

**Tributary of**: Cloonacleigha Lough

**OS Grid Ref of Confluence**: G 607 145

**Date(s) Surveyed**: 9/8/2012

**OS Catchment No**: 116

**Biological Quality Ratings (Q Values)**

<table>
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<th></th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
<td>3</td>
<td>3</td>
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</tr>
</tbody>
</table>

**Assessment**: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions on the spring-fed Bunnanaddan in 2012.

**Stations Location**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Ford N.W. of Bunnanaddan</td>
<td>160045</td>
<td>312072</td>
<td>25</td>
<td>SO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available)**:

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>60</td>
<td>8</td>
<td>0</td>
<td>100</td>
<td>89</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CASHEL STREAM (BONET)** 35/C/03
Tributary of: 35B06 BONET
OS Grid Ref of Confluence: G 822 304
Date(s) Surveyed: 14/12/2012

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0700</td>
<td>-</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>n/s</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Despite heavy floods, satisfactory ecological conditions were recorded at both sites sampled on the Cashel Stream (Bonet) in 2012. High quality was maintained on the upper Cashel (0200).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge W. of Corratimore</td>
<td>184966</td>
<td>327185</td>
<td>26</td>
<td>LM</td>
</tr>
<tr>
<td>0700</td>
<td>Br. SE of Glebe</td>
<td>185906</td>
<td>329569</td>
<td>26</td>
<td>LM</td>
</tr>
<tr>
<td>1000</td>
<td>Br u/s Camoge Br</td>
<td>182373</td>
<td>330227</td>
<td>26</td>
<td>LM</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>76</td>
<td>4</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>26</td>
<td>3</td>
<td>0</td>
<td>70</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>0700</td>
<td>61</td>
<td>12</td>
<td>0</td>
<td>100</td>
<td>9</td>
<td>14</td>
<td>2</td>
<td>0</td>
<td>74</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: A disappointing drop to unsatisfactory ecological condition was noted at station 0500 on the Clooneen (Sligo) site in 2012. In contrast, the downstream site (0600) has maintained its highly satisfactory condition.
River and Code: **DIFFREEN**

Tributary of: Glencar Lake

OS Grid Ref of Confluence: G 763 431

Date(s) Surveyed: 11/8/2012

**Assessment:** Satisfactory ecological conditions have been maintained on the Diffreen, a tributary of Glencar Lake, in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Glencar Lake</td>
<td>177621</td>
<td>342400</td>
<td>16</td>
<td>LM</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>42</td>
<td>18</td>
<td>0</td>
<td>100</td>
<td>8</td>
<td>0</td>
<td>24</td>
<td>0</td>
<td>46</td>
<td>0</td>
<td>23</td>
</tr>
</tbody>
</table>

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 35 (2012)

River and Code: **DOONBEAKIN**
Tributary of: 35D06 DUNNEILL
OS Grid Ref of Confluence: G 438 342
Date(s) Surveyed: 8/8/2012

**Biological Quality Ratings (Q Values)**

<table>
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<th></th>
<th></th>
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<tbody>
<tr>
<td>0200</td>
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<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0400</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Unsatisfactory ecological conditions continue to be a feature of the Doonbeakin in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge S. of Doonbeakin</td>
<td>145053</td>
<td>330768</td>
<td>24</td>
<td>SO</td>
</tr>
<tr>
<td>0400</td>
<td>Ford u/s Dunneill River</td>
<td>143811</td>
<td>334000</td>
<td>24</td>
<td>SO</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>105</td>
<td>2</td>
<td>39</td>
<td>61</td>
<td>45</td>
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<td>38</td>
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<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>0400</td>
<td>23</td>
<td>8</td>
<td>9</td>
<td>91</td>
<td>74</td>
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<td>19</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **DOONFLIN**
Tributary of : Sea - S. of Aughris Head
OS Grid Ref of Confluence: G 506 360
Date(s) Surveyed: 8/8/2012

Assessment: The macroinvertebrate fauna continues to indicate good ecological conditions on the Doonflin in 2012.

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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<td>0600</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<tr>
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<td>11</td>
<td>35</td>
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<td>21</td>
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</table>

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 35 (2012)

River and Code: DOUGLAS (SLIGO)  
Tributary of: 35U01 UNSHIN  
OS Grid Ref of Confluence: G 732 208  
Date(s) Surveyed: 10/8/2012  
OS Catchment No: 116  

Biological Quality Ratings (Q Values)

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<tbody>
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<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
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</tbody>
</table>

Assessment: Unsatisfactory ecological conditions prevail in the Douglas River in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>100</td>
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<td>11</td>
<td>8</td>
<td>63</td>
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<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 35 (2012)

River and Code: **DROWES**  
Tributary of: **Sea - Donegal Bay**  
OS Grid Ref of Confluence: **G 792 583**  
Date(s) Surveyed: **11/10/2012**  
OS Catchment No: **121**  

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</thead>
<tbody>
<tr>
<td>0100</td>
<td>-</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
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<td>0200</td>
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<td>4-5</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</table>

**Assessment:** Ecological condition remains satisfactory in the Drowes, tributary of Lough Melvin, in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Lennox's Bridge</td>
<td>181843</td>
<td>357276</td>
<td>16</td>
<td>LM</td>
</tr>
<tr>
<td>0200</td>
<td>Bundrowes Bridge</td>
<td>179241</td>
<td>358300</td>
<td>16</td>
<td>LM</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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<td>106</td>
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<td>17</td>
<td>16</td>
</tr>
<tr>
<td>0200</td>
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<td>117</td>
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<td>100</td>
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<td>29</td>
<td>0</td>
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<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km2, Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 35 (2012)

River and Code : **DRUMCLIFF**  
Tributary of : Sea - Drumcliff Bay  
OS Grid Ref of Confluence: G 674 423  
Date(s) Surveyed: 11/8/2012

OS Catchment No: 119

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
</tr>
<tr>
<td>0400</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The Drumcliff River flows from Glencar lake, and as a result is lake-influenced. Ecological conditions remain unsatisfactory at the upper station (0250), approximately 2.5km downstream of the lake outflow. The lower station (0400) continues to achieve satisfactory condition.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>Collinsford Bridge</td>
<td>171062</td>
<td>342018</td>
<td>16</td>
<td>SO</td>
</tr>
<tr>
<td>0400</td>
<td>Ford 500 m u/s Drumcliff Br</td>
<td>167912</td>
<td>342188</td>
<td>16</td>
<td>SO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>13</td>
<td>50</td>
<td>0</td>
<td>100</td>
<td>16</td>
<td>2</td>
<td>37</td>
<td>0</td>
<td>25</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>0400</td>
<td>8</td>
<td>61</td>
<td>0</td>
<td>100</td>
<td>26</td>
<td>1</td>
<td>32</td>
<td>0</td>
<td>23</td>
<td>2</td>
<td>16</td>
</tr>
</tbody>
</table>

*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 35 (2012)

River and Code: **DRUMFIN**
Tributary of: 35U01 UNSHIN
OS Grid Ref of Confluence: G 714 208
Date(s) Surveyed: 10/8/2012

OS Catchment No: 116

### Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0500</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0800</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna continues to indicate good ecological conditions on the Drumfin, a River Unshin tributary in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>Bridge N. of Kingsbrook</td>
<td>171776</td>
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<td>25</td>
<td>SO</td>
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<td>0800</td>
<td>Closkeybeg Bridge</td>
<td>171426</td>
<td>320488</td>
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<td>SO</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0500</td>
<td>52</td>
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<td>0</td>
<td>100</td>
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<td>19</td>
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<td>9</td>
<td>0</td>
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<tr>
<td>0800</td>
<td>45</td>
<td>23</td>
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<td>100</td>
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<td>2</td>
<td>17</td>
<td>0</td>
<td>7</td>
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</table>

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 35 (2012)**

River and Code: **DUFF**  
Tributary of: Sea - Donegal Bay  
OS Grid Ref of Confluence: G 752 578  
Date(s) Surveyed: 11/8/2012, 12/8/2012  
OS Catchment No: 120  

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>0020</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0100</td>
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<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>0250</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0400</td>
<td>5</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna continue to indicate satisfactory ecological conditions at all stations on the Duff in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>Br E of Cloontyprughlish</td>
<td>179056</td>
<td>348081</td>
<td>16</td>
<td>LM</td>
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<tr>
<td>0100</td>
<td>Conway Bridge</td>
<td>179289</td>
<td>351138</td>
<td>16</td>
<td>LM</td>
</tr>
<tr>
<td>0250</td>
<td>Brocky Bridge</td>
<td>175221</td>
<td>353206</td>
<td>16</td>
<td>LM</td>
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<tr>
<td>0400</td>
<td>Bunduff Bridge</td>
<td>175463</td>
<td>356848</td>
<td>16</td>
<td>LM</td>
</tr>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>102</td>
<td>4</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>8</td>
<td>62</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>29</td>
</tr>
<tr>
<td>0100</td>
<td>48</td>
<td>19</td>
<td>0</td>
<td>100</td>
<td>0</td>
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<td>28</td>
<td>0</td>
</tr>
<tr>
<td>0250</td>
<td>33</td>
<td>48</td>
<td>0</td>
<td>100</td>
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<td>1</td>
<td>40</td>
<td>0</td>
<td>19</td>
<td>0</td>
<td>25</td>
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<tr>
<td>0400</td>
<td>20</td>
<td>85</td>
<td>0</td>
<td>100</td>
<td>17</td>
<td>4</td>
<td>43</td>
<td>0</td>
<td>15</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **DUNMORAN**
Tributary of: Sea - Sligo Bay
OS Grid Ref of Confluence: G 522 355
Date(s) Surveyed: 8/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>1000</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>3-4*</td>
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<td>1400</td>
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<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** An unwelcome drop to unsatisfactory ecological condition was recorded at station 1000 on the Dunmoran in 2012. Upstream land reclamation appears to have contributed to the heavy siltation noted at the site. Satisfactory condition is maintained further downstream at Ardnaglass Bridge (station 1400).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>Br WNW Longford Demesne</td>
<td>155096</td>
<td>330598</td>
<td>25</td>
<td>SO</td>
</tr>
<tr>
<td>1400</td>
<td>Ardnaglass Bridge</td>
<td>153100</td>
<td>334286</td>
<td>25</td>
<td>SO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
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<td>7</td>
<td>63</td>
<td>37</td>
<td>20</td>
<td>0</td>
<td>54</td>
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<td>13</td>
<td>0</td>
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<tr>
<td>1400</td>
<td>10</td>
<td>29</td>
<td>34</td>
<td>66</td>
<td>45</td>
<td>7</td>
<td>28</td>
<td>0</td>
<td>17</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

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 35 (2012)

River and Code: **DUNNEILL**
Tributary of: Sea - Sligo Bay
OS Grid Ref of Confluence: G 440 352
Date(s) Surveyed: 8/8/2012, 9/8/2012

OS Catchment No: 115

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0050</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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<tr>
<td>0100</td>
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<td>4-5</td>
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<tr>
<td>0200</td>
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<td>4-5</td>
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</tbody>
</table>

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Dunneill in 2012. High quality was maintained at the upper two sites (0050 and 0100).

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code |
--------|-------------------|------------|-------------|----------------------|-------------|
0050    | Br E Water Treatment Works | 144492 | 329228 | 24 | SO |
0100    | Br NE Dunneill   | 143741 | 332461 | 24 | SO |
0200    | Donaghintraine Bridge | 143850 | 334381 | 24 | SO |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>133</td>
<td>10</td>
<td>89</td>
<td>11</td>
<td>6</td>
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<td>0</td>
<td>12</td>
</tr>
<tr>
<td>0100</td>
<td>68</td>
<td>12</td>
<td>73</td>
<td>27</td>
<td>14</td>
<td>0</td>
<td>71</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>10</td>
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<td>46</td>
<td>0</td>
<td>43</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Macroinvertebrate fauna continue to indicate satisfactory ecological conditions at all stations on the Easky River in 2012. High quality was recorded at both sites on the lower Easky (0100 and 0200). The Easky River is an important salmon angling river and Lough Easky is a major water supply source. The Easky catchment is a particularly sensitive one and great care is needed with agricultural land clearance, fertiliser and slurry spreading as with clear felling and tree planting activities in order to protect this important aquatic resource as well as the catchment’s wider biodiversity.
River and Code: **FINNED**
Tributary of: Sea - W. of Sligo Bay
OS Grid Ref of Confluence: G 350 386
Date(s) Surveyed: 8/8/2012, 9/8/2012

**Biological Quality Ratings (Q Values)**

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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Overall satisfactory ecological condition has been maintained on the Finned in 2012.

**Stations Location**

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge E.N.E. of Rathmacurkey</td>
<td>136984</td>
<td>330873</td>
<td>24</td>
<td>SO</td>
</tr>
<tr>
<td>0200</td>
<td>Bridge S. of Ballycummin</td>
<td>137035</td>
<td>333995</td>
<td>24</td>
<td>SO</td>
</tr>
<tr>
<td>0300</td>
<td>Finned Bridge</td>
<td>134962</td>
<td>337941</td>
<td>24</td>
<td>SO</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
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<td>43</td>
<td>1</td>
<td>48</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
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</table>

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

Tributary of: Sea - Sligo Bay

OS Grid Ref of Confluence: G 692 362

Date(s) Surveyed: 11/8/2012

**Hydrometric Area 35 (2012)**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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</thead>
<tbody>
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<td>0200</td>
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<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Sligo: The Mall</td>
<td>169442</td>
<td>335968</td>
<td>16</td>
<td>SO</td>
</tr>
</tbody>
</table>

**Assessment:** Ecological conditions remained satisfactory at The Mall in Sligo town in 2012. Domestic rubbish is an unsightly feature of the site, both instream and on the banks.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>8</td>
<td>369</td>
<td>19</td>
<td>80</td>
<td>24</td>
<td>8</td>
<td>24</td>
<td>1</td>
<td>27</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

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 35 (2012)

River and Code: GLENANIFF
Tributary of: Lough Melvin
OS Grid Ref of Confluence: G 922 500
Date(s) Surveyed: 12/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Ecological conditions have remained unchanged in this Lough Melvin tributary for over twenty years, with high quality achieved again in 2012.

Station No. Stations Location National X Grid Ref. Y Discovery Series No. County Code
0200 Bridge u/s Lough Melvin 192043 349681 17 LM

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>25</td>
<td>27</td>
<td>0</td>
<td>100</td>
<td>19</td>
<td>1</td>
<td>72</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GOWLAN (SLIGO)**
Tributary of: 35E01 EASKY
OS Grid Ref of Confluence: G 390 272
Date(s) Surveyed: 9/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Ecological conditions have remained satisfactory in the Gowlan (Sligo) River for over twenty years. The Gowlan is an Easky tributary draining a catchment which has a substantial amount of limestone bedrock. It has much harder water than the upper Easky and Buncrowey rivers and has a naturally more diverse fauna.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Ford u/s Easky River confl</td>
<td>138828</td>
<td>326554</td>
<td>24</td>
<td>SO</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>101</td>
<td>18</td>
<td>46</td>
<td>54</td>
<td>1</td>
<td>4</td>
<td>90</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GRANGE (SLIGO)**
Tributary of: Sea - S. of Connor's Island
OS Grid Ref of Confluence: G 648 495
Date(s) Surveyed: 11/8/2012

Biological Quality Ratings (Q Values)

<table>
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<tr>
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<tbody>
<tr>
<td>0080</td>
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<td>5</td>
<td>4-5</td>
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<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0200</td>
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<td>4</td>
<td>4</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
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</tbody>
</table>

**Assessment:** Although the upper site of the Grange River (0080) remains in highly satisfactory ecological condition, an unwelcome drop to unsatisfactory condition was recorded at the site downstream of Grange village (0200). Evidence of domestic sewage was noted in the river at this location.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>Lukes Bridge</td>
<td>169769</td>
<td>347329</td>
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<td>SO</td>
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<tr>
<td>0200</td>
<td>Ford N Cloontyprocklis</td>
<td>165069</td>
<td>349516</td>
<td>16</td>
<td>SO</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>172</td>
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<td>100</td>
<td>0</td>
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<td>0</td>
<td>35</td>
</tr>
<tr>
<td>0200</td>
<td>8</td>
<td>33</td>
<td>0</td>
<td>100</td>
<td>31</td>
<td>3</td>
<td>35</td>
<td>1</td>
<td>15</td>
<td>0</td>
<td>16</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KILLANUMMERY**
Tributary of: 35B06 BONET
OS Grid Ref of Confluence: G 806 303
Date(s) Surveyed: 14/12/2012

**Biological Quality Ratings (Q Values)**

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</thead>
<tbody>
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<td>4</td>
<td>3-4</td>
<td>4</td>
<td></td>
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<tr>
<td>0600</td>
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<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>0900</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
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</tr>
</tbody>
</table>

**Assessment:** Despite heavy floods, highly satisfactory ecological conditions were recorded on the Killanummery in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0400</td>
<td>Bridge N of Garvagh Glebe</td>
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<td>325154</td>
<td>26</td>
<td>LM</td>
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<tr>
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<td>Bridge S.S.W. of Killanummery</td>
<td>180169</td>
<td>328218</td>
<td>26</td>
<td>LM</td>
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<tr>
<td>0900</td>
<td>Bridge u/s Bonet River confl</td>
<td>180598</td>
<td>330247</td>
<td>26</td>
<td>LM</td>
</tr>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>161</td>
<td>4</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>33</td>
<td>7</td>
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<td>13</td>
<td>0</td>
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<td>4</td>
<td>16</td>
<td>17</td>
<td>0</td>
<td>44</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>0900</td>
<td>20</td>
<td>44</td>
<td>0</td>
<td>100</td>
<td>12</td>
<td>9</td>
<td>10</td>
<td>0</td>
<td>57</td>
<td>0</td>
<td>11</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **KILLORAN LOUGH STREAM**
Tributary of: 35O06 OWENMORE (SLIGO)
OS Grid Ref of Confluence: G 636 225
Date(s) Surveyed: 10/8/2012

<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>-</td>
<td>-</td>
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<td>4</td>
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<td>4</td>
<td>-</td>
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<tr>
<td>1000</td>
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<td>4-5</td>
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<td>3-4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Killoran Lough Stream in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</thead>
<tbody>
<tr>
<td>0500</td>
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<td>160670</td>
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<td>25</td>
<td>SO</td>
</tr>
<tr>
<td>1000</td>
<td>Bridge u/s Owenmore River</td>
<td>163620</td>
<td>322589</td>
<td>25</td>
<td>SO</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0500</td>
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<td>2</td>
<td>0</td>
<td>100</td>
<td>99</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1000</td>
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<td>0</td>
<td>100</td>
<td>76</td>
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<td>0</td>
<td>0</td>
<td>15</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **LUGDOON STREAM**
Tributary of: Sea - Sligo Bay
OS Grid Ref of Confluence: G 462 341
Date(s) Surveyed: 8/8/2012

### Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0400</td>
<td>4-5</td>
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<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** Overall ecological condition remains unsatisfactory in the Lugdoon in 2012.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
<td>0400</td>
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</table>

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 35 (2012)

River and Code: OWENBEG (COOLANEY) 35/O/01

Tributary of: 35O06 OWENMORE (SLIGO)

OS Grid Ref of Confluence: G 656 251

Date(s) Surveyed: 8/8/2012, 10/8/2012

Biological Quality Ratings (Q Values)

<table>
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<tbody>
<tr>
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<tr>
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<td>4</td>
<td>4</td>
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<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Owenbeg in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
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<td>11</td>
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<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: Despite flood conditions, the macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Owenmore (Manorhamilton) in 2012.
River and Code: **OWENMORE (SLIGO)**

**Hydrometric Area 35 (2012)**

Tributary of: 35B05 BALLYSODARE

OS Grid Ref of Confluence: G 687 270

Date(s) Surveyed: 9/8/2012, 10/8/2012, 19/8/2012

OS Catchment No: 116

### Biological Quality Ratings (Q Values)

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</tr>
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<tbody>
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</table>

**Assessment:** Satisfactory ecological quality was maintained in the upper section of the Owenmore (0200) in 2012. A dramatic improvement to good and high ecological condition was recorded in the middle section, above Templehouse Lake at stations 0250 and 0400. Downstream of the lake at Templehouse Bridge (0500) huge numbers of zebra mussel continue to dominate the macroinvertebrate fauna and result in unsatisfactory ecological conditions. While satisfactory ecological conditions persist in the lower sections, upstream and downstream of Collooney (0610 and 0700), there has been an unwelcome decline to unsatisfactory conditions upstream of the Unshin River confluence (0900).
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SHANVAUS**
Tributary of: 35B06 BONET
OS Grid Ref of Confluence: M 865 378
Date(s) Surveyed: 18/9/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
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</thead>
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<tr>
<td>1100</td>
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**Assessment:** Despite heavy flooding, the macroinvertebrate fauna continue to indicate highly satisfactory ecological conditions on the Shanvaus in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</tbody>
</table>

Alt is in metres, Area is km2, Sil, Cal are % siliceous and calcareous bedrock, and Pasture, Forestry, etc., are % of catchment area.
River and Code: **TULLINWILLIN STREAM**
Tributary of: Belhavel Lough
OS Grid Ref of Confluence: G 882 296
Date(s) Surveyed: 13/12/2012

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment:** A welcome return to satisfactory ecological condition was recorded on the Tullinwillin Stream in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km$^2$ and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 35 (2012)

River and Code : **UNSHIN**
Tributary of : 35B05 BALLYSODARE
OS Grid Ref of Confluence: G 687 270
Date(s) Surveyed: 10/8/2012

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<td>4-5</td>
<td>4-5</td>
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</table>

Assessment: The upper Unshin (0100), just downstream of Lough Arrow, continues to be of unsatisfactory quality with a lack of pollution-sensitive macroinvertebrates and dominance of zebra mussels in 2012. The remaining downstream sites (0200, 0400, 0500, 0600) to the confluence with the Owenmore (Sligo) are of satisfactory ecological quality, with no real change in condition in these sites in almost forty years of EPA sampling.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Station Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**River and Code**: WILLSBOROUGH STREAM 35/W/01

**Tributary of**: Sea - Sligo Bay

**OS Grid Ref of Confluence**: G 689 373

**Date(s) Surveyed**: 11/8/2012

**Biological Quality Ratings (Q Values)**

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</table>

**Assessment**: Satisfactory ecological conditions persist at all stations sampled on the Willsborough stream in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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</table>

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. 35**

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
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<td>B Good</td>
<td>C Moderate</td>
<td>D Poor</td>
<td>Bad</td>
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**Percentages**

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<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
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* 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).

<table>
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<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
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<tbody>
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<td>Bad</td>
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Total number of sites surveyed 78 80
Total number of sites at unsatisfactory status 14 16

539
Hydrometric Area 35: Trends
% Surveyed Channel Length in Four Quality Classes

Hydrometric Area 35: Trends
% Surveyed Channel Length in Five WFD Quality Classes
## HYDROMETRIC AREA 38 (Gweebarra - Sheephaven)

<table>
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<td>ASPICK</td>
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<tr>
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<td>38B03</td>
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<tr>
<td>BRACKY</td>
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<td>BUNLIN</td>
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*KEEL LOUGH STREAM Previously reported as part of the Gweedore 38G03*
Hydrometric Area 38 (2012)

River and Code : **ABBERACHRIN**
Tributary of : Sea - Loughros More Bay
OS Grid Ref of Confluence: G 703 947
Date(s) Surveyed: 17/8/2012

OS Catchment No: 49

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Biological Quality Ratings (Q Values)

Assessment: Satisfactory.

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Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **AIGHE**
Tributary of: 38B02 BRACKY
OS Grid Ref of Confluence: G 726 877
Date(s) Surveyed: 16/8/2012

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**Assessment:** Toxicity due to an industrial discharge had seriously impacted the Aighe River in 2012. The recovery noted in 2009 in comparison with 2003 and 2006 appears to have been reversed.
Hydrometric Area 38 (2012)

River and Code: ASPICK
Tributary of: 38G01 GLENNA
OS Grid Ref of Confluence: B 909 288
Date(s) Surveyed: 26/7/2012

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0300</td>
<td></td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: This Glenna River (qv) tributary had declined in quality again in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Bridge d/s Aspick Bridge</td>
<td>190044</td>
<td>425457</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>132</td>
<td>1</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>74</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>26</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **BIG BURN**  
Tributary of: Sea - Mulroy Bay  
OS Grid Ref of Confluence: C 196 329  
Date(s) Surveyed: 25/9/2012  

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>4-5 3-4 4-5 4 4 4 4 3/0</td>
</tr>
</tbody>
</table>

**Assessment:** A serious drop in water quality was recorded at Cranford Bridge compared with the 2006 and 2009 surveys. A toxic influence is suspected.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>Cranford Bridge</td>
<td>219272</td>
<td>432669</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>7</td>
<td>13</td>
<td>100</td>
<td>0</td>
<td>13</td>
<td>0</td>
<td>76</td>
<td>0</td>
<td>11</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **BRACKY**
Tributary of: Sea - Loughros Beg Bay
OS Grid Ref of Confluence: G 720 900
Date(s) Surveyed: 16/8/2012

OS Catchment No: **h6**

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 5 3/0 3* 4 4 3 3</td>
</tr>
</tbody>
</table>

**Assessment:** The Bracky was unsatisfactory in 2012 - it may be impacted by the industrial discharge noted on the Aighe River (qv).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bracky Bridge</td>
<td>172741</td>
<td>389529</td>
<td>10</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>16</td>
<td>16</td>
<td>100</td>
<td>0</td>
<td>17</td>
<td>2</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>23</td>
</tr>
</tbody>
</table>

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 38 (2012)**

River and Code: **BUNLIN**

Tributary of: Mulroy Bay

OS Grid Ref of Confluence: C 181 278

Date(s) Surveyed: 25/9/2012

---

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4-5</td>
<td>3/0</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The improvement to good ecological condition noted in 2009, following the serious drop in quality noted in 2006 where sheep dip was the suspected cause, was maintained in 2012 although the river is no longer at high status.

---

**Station No.** | **Stations Location**                  | **National X** | **Grid Ref. Y** | **Discovery Series No.** | **County Code** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br. S of Drumard (near tomb)</td>
<td>215955</td>
<td>425602</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>95</td>
<td>4</td>
<td>98</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>74</td>
<td>0</td>
<td>26</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **BURNSIDE**
Tributary of: Sea - Mulroy Bay
OS Grid Ref of Confluence: C 210 328
Date(s) Surveyed: 25/9/2012

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>2-3</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory conditions were maintained in 2012.

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code
-------------|-------------------|------------|-------------|----------------------|------------
0400         | 150m d/s Carrowkeel Bridge | 221316     | 432475      | 2                    | DL         

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>7</td>
<td>12</td>
<td>100</td>
<td>0</td>
<td>31</td>
<td>0</td>
<td>62</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **CALABBER**
Tributary of: 38O03 OWENCARROW
OS Grid Ref of Confluence: C 048 242
Date(s) Surveyed: 26/9/2012

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
</tr>
<tr>
<td>0300</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory where sampled in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Meennamolt Bridge</td>
<td>199865</td>
<td>423516</td>
<td>6</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>2 km d/s Calabber Bridge</td>
<td>203369</td>
<td>423980</td>
<td>6</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>142</td>
<td>4</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>72</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>0300</td>
<td>67</td>
<td>2</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>49</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>51</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **CARROWNAMADDY**
Tributary of: Sea-Clonmass Bay (Sheep Haven)
OS Grid Ref of Confluence: C 053 342
Date(s) Surveyed: 26/9/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory conditions were maintained in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Ards</td>
<td>204327</td>
<td>433521</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>13</td>
<td>15</td>
<td>100</td>
<td>0</td>
<td>21</td>
<td>0</td>
<td>66</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

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 38 (2012)**

River and Code: **CATHEEN** 38/C/03
Tributary of: Sea - N. of Gweedore Bay
OS Grid Ref of Confluence: B 813 261
Date(s) Surveyed: 27/7/2012
OS Catchment No: 19

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1-2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Assessment:** The Catheen was resampled in 2012 and showed a significant improvement on the historic situation in the 1990s. It is a small stream not depicted on the OS catchment map but receives discharges from an industrial estate.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Bridge N. of Middletown</td>
<td>181454</td>
<td>425788</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>8</td>
<td>4</td>
<td>100</td>
<td>0</td>
<td>54</td>
<td>0</td>
<td>46</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: CLADY (DONEGAL) 38/C/04
Tributary of: Sea - Gweedore Bay
OS Grid Ref of Confluence: B 804 234
Date(s) Surveyed: 25/7/2012

OS Catchment No: 23

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
</tr>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Assessment: Satisfactory with an improvement noted at Station 0150 downstream of the hydroelectric reservoir and satisfactory conditions maintained at the lower site.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>Bryan's Bridge (Gweedore)</td>
<td>185255</td>
<td>422485</td>
<td>1</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>Bridge u/s Bunbeg</td>
<td>180893</td>
<td>423661</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>52</td>
<td>79</td>
<td>100</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>80</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>0300</td>
<td>19</td>
<td>88</td>
<td>100</td>
<td>0</td>
<td>5</td>
<td>3</td>
<td>80</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: CORVEEN
Tributary of: 38O09 OWENCRONAHULLA
OS Grid Ref of Confluence: B 828 273
Date(s) Surveyed: 26/7/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Assessment: Continuing to be unsatisfactory with very low numbers of sensitive taxa.

Station Location: Br at Owencronahulla R confl

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>43</td>
<td>10</td>
<td>100</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>92</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **CRONANIV BURN**
Tributary of: Dunlewy Lough
OS Grid Ref of Confluence: B 928 190
Date(s) Surveyed: 25/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** High ecological quality was again noted in 2012 in the Cronaniv Burn.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Dunlewy Lough</td>
<td>193109</td>
<td>418649</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>70</td>
<td>7</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>91</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
**Assessment:** A drop in ecological condition was noted in 2012 in the Devlin, a tributary of Dunlewy Lough.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>0.5km u/s Br u/s Dunlewy L</td>
<td>192884</td>
<td>418619</td>
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<td>DL</td>
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**Hydrometric Area 38 (2012)**

**River and Code:** DEVLIN (DONEGAL)  
**Tributary of:** Dunlewy Lough  
**OS Grid Ref of Confluence:** B 927 188  
**Date(s) Surveyed:** 15/8/2012

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>4-5</td>
<td>4</td>
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<td>5</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
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</tbody>
</table>

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 38 (2012)

River and Code : **DUNGLOE** 38/D/02
Tributary of : Sea - near Gweebarra Bay
OS Grid Ref of Confluence: B 768 115
Date(s) Surveyed: 27/7/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0020</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
</tr>
<tr>
<td>0150</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0250</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Assessment:** The site upstream of Fad Lough had improved in quality compared with 2009 but the lower site in Dungloe town just upstream of the sea had dropped back to poor ecological conditions.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0020</td>
<td>29</td>
<td>13</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>94</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>0150</td>
<td>22</td>
<td>7</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>92</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>0250</td>
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<td>100</td>
<td>0</td>
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<td>0</td>
<td>86</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **DUNTALLY**
Tributary of: Sea - Sheep Haven
OS Grid Ref of Confluence: C 084 314
Date(s) Surveyed: 26/9/2012

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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>-</td>
<td>3</td>
<td>3</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0500</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory, no change.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Old Bridge SE Grogagh</td>
<td>205670</td>
<td>428143</td>
<td>2</td>
<td>DL</td>
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<tr>
<td>0500</td>
<td>Bridge E. of Creeslough</td>
<td>206863</td>
<td>430284</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>53</td>
<td>1</td>
<td>100</td>
<td>0</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0500</td>
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<td>8</td>
<td>89</td>
<td>11</td>
<td>5</td>
<td>0</td>
<td>54</td>
<td>1</td>
<td>39</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **DUVOGE**  
Tributary of: Sheskinmore Lough  
OS Grid Ref of Confluence: G 703 961  
Date(s) Surveyed: 17/8/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
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<td>4-5</td>
<td>4</td>
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<td>4</td>
<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory, no change.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
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<td>7</td>
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<td>63</td>
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<td>31</td>
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<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: A decline in ecological quality was recorded in 2012. The Duvowen drains the catchment in which the old Muckish landfill is located.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>500 m u/s Ray River confl</td>
<td>196622</td>
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<td>DL</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>115</td>
<td>7</td>
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<td>0</td>
<td>95</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **FAYMORE**
Tributary of: Sea - Sheep Haven
OS Grid Ref of Confluence: C 060 317
Date(s) Surveyed: 26/9/2012

<table>
<thead>
<tr>
<th>Station Nos.</th>
<th>Biological Quality Ratings (Q Values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>5</td>
</tr>
<tr>
<td>0200</td>
<td>5</td>
</tr>
</tbody>
</table>

**Assessment:** A definite improvement in quality was noted in the Faymore in 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Bridge S of Creenasmear</td>
<td>203236</td>
<td>429226</td>
<td>2</td>
<td>DL</td>
</tr>
<tr>
<td>0200</td>
<td>Clon Bridge</td>
<td>205369</td>
<td>431672</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tr>
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<td>39</td>
<td>0</td>
<td>33</td>
<td>0</td>
<td>26</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: A serious situation was noted in the Glen (Lackagh) in 2012. A serious loss of invertebrate taxa is believed to be related to toxic influences - possibly sheep dip chemicals. An additional site at Station 0700 was sampled to eliminate the possibility of potential impacts from the small village of Glen just upstream of Station 0900. A normal range of species was found at the upper site (0400) where little change was observed in comparison with earlier surveys.
Hydrometric Area 38 (2012)

River and Code: **GLEN (MEENA CLADY)** 38/G/05
Tributary of: Sea - W. of Currans Point
OS Grid Ref of Confluence: B 857 335
Date(s) Surveyed: 26/7/2012

OS Catchment No: n6

### Biological Quality Ratings (Q Values)

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<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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</table>

**Assessment:** Satisfactory.

### Station Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
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<td>97</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENLEHEEN STREAM**
Tributary of: Abroe
OS Grid Ref of Confluence: B 902 067
Date(s) Surveyed: 24/7/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>0300</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
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</table>

**Assessment:** Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0300</td>
<td>Glenleheen Bridge</td>
<td>190293</td>
<td>403976</td>
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**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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<td>88</td>
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<td>100</td>
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<td>1</td>
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<td>94</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **GLENNA**
Tributary of : Sea - Ballyness Bay
OS Grid Ref of Confluence:  B 911 303
Date(s) Surveyed:  26/7/2012

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>3-4</td>
<td>4</td>
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<td>-</td>
</tr>
<tr>
<td>0200</td>
<td>4</td>
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<td>4*</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
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</tbody>
</table>

**Assessment:** Satisfactory but a decline from high to good ecological condition was recorded in the Glenna in 2012.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **GLENTORNAN**
Tributary of: Lough Nacung Upper
OS Grid Ref of Confluence: B 898 191
Date(s) Surveyed: 25/7/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** This Lough Nacung tributary was in satisfactory condition although a further slight decline in ecological quality was noted in July 2012 compared with August 2009.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>73</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>0</td>
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<td>91</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

Alt is in metres, Area is km², Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Hydrometric Area 38 (2012)

River and Code: **GWEEBARRA** 38/G/02
Tributary of: Sea - Gweebarra Bay
OS Grid Ref of Confluence: G 797 997
Date(s) Surveyed: 17/8/2012, 24/7/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td></td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>0200</td>
<td></td>
<td>5</td>
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<td>3-4</td>
<td>4-5</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
<tr>
<td>0300</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** The upper reaches (0100) of the Gweebarra retained high ecological quality. The mid section (0200) continues to be impacted by intensive forestry in the catchment. An improvement was noted in the lower reaches (0300) upstream of the tidal Gweebarra estuary.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Pollglass Bridge</td>
<td>195017</td>
<td>414076</td>
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<td>DL</td>
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<tr>
<td>0200</td>
<td>SE of L. Natangaduff</td>
<td>189731</td>
<td>407697</td>
<td>11</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>Bridge in Doocharry</td>
<td>186813</td>
<td>406457</td>
<td>11</td>
<td>DL</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>172</td>
<td>6</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>69</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>31</td>
</tr>
<tr>
<td>0200</td>
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<td>39</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>80</td>
<td>0</td>
<td>0</td>
<td>2</td>
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<td>0300</td>
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<td>1</td>
<td>82</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>13</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **GWEEDORE**  
Tributary of : Sea - Gweedore Bay  
OS Grid Ref of Confluence : B 827 212  
Date(s) Surveyed: 26/7/2012, 27/7/2012

<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4</td>
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<tr>
<td>0300</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Assessment:** A significant improvement was noted in the Gweedore River in 2012 compared with 2009.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Br E Meenderrynasloe</td>
<td>182980</td>
<td>419085</td>
<td>1</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>Br E Derrymansher</td>
<td>182686</td>
<td>420913</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>31</td>
<td>38</td>
<td>100</td>
<td>0</td>
<td>9</td>
<td>0</td>
<td>79</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>0300</td>
<td>4</td>
<td>50</td>
<td>100</td>
<td>0</td>
<td>8</td>
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<td>82</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **KEEL LOUGH STREAM**
Tributary of: 38G03 GWEEDORE
OS Grid Ref of Confluence: 38/K/01
Date(s) Surveyed: 27/7/2012

Previously reported as part of the Gweedore 38G03

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>0200</td>
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<td>4</td>
<td>4</td>
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<td>3-4</td>
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<td>2/0</td>
<td>2-3</td>
<td>2-3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** Unsatisfactory. The impact of the local water treatment plant discharges was still apparent in 2012.

<table>
<thead>
<tr>
<th>Station</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>1.1 km u/s confluence with Gweedore R.</td>
<td>183671</td>
<td>418644</td>
<td>1</td>
<td>DL</td>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>66</td>
<td>7</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **LOUGH AGHER STREAM** 38/L/02
Tributary of: 38R01 RAY
OS Grid Ref of Confluence: B 959 311
Date(s) Surveyed: 27/9/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** Highly satisfactory ecological conditions were retained in 2012 in the Lough Agher Stream.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Br 0.6km u/s Ray R confl</td>
<td>196067</td>
<td>430825</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>52</td>
<td>12</td>
<td>96</td>
<td>4</td>
<td>7</td>
<td>0</td>
<td>87</td>
<td>0</td>
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<td>2</td>
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</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **LOUGHKEEL BURN** 38/L/03
Tributary of: 38B04 BUNLIN
OS Grid Ref of Confluence: C 183 279
Date(s) Surveyed: 26/9/2012

### Biological Quality Ratings (Q Values)

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tbody>
</table>

**Assessment:** Continuing satisfactory.

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>12</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>21</td>
<td>2</td>
<td>40</td>
<td>0</td>
<td>17</td>
<td>11</td>
<td>8</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **MURLIN**
Tributary of: Sea - Glen Bay
OS Grid Ref of Confluence: G 527 847
Date(s) Surveyed: 16/8/2012

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<tbody>
<tr>
<td>0250</td>
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<td>-</td>
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<td>3</td>
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<tr>
<td>0300</td>
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<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>2/0</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Assessment:** Unsatisfactory. A disappointing drop in quality was noted at the upper site on the Murlin (0250) in 2012. In the past sheep dip pollution was suspected as the cause of the pollution at the lower site (see 2003 results at Station 0300 when the problem was first noted).

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250</td>
<td>Ford 1km u/s Gannew Br</td>
<td>154640</td>
<td>384580</td>
<td>0</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>Gannew Bridge</td>
<td>153725</td>
<td>384750</td>
<td>0</td>
<td>DL</td>
</tr>
<tr>
<td>0400</td>
<td>Straid Bridge</td>
<td>153229</td>
<td>384816</td>
<td>10</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0400</td>
<td>7</td>
<td>15</td>
<td>97</td>
<td>3</td>
<td>12</td>
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<td>75</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENATOR** 38/O/01
Tributary of: Lough Anure
OS Grid Ref of Confluence: B 823 168
Date(s) Surveyed: 25/7/2012

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory but with a slight further decline in quality compared with 2009.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Ford N. of Lough Agher</td>
<td>184263</td>
<td>415002</td>
<td>1</td>
<td>DL</td>
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</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>82</td>
<td>20</td>
<td>100</td>
<td>0</td>
<td>4</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>15</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **OWENAWILLIN**
Tributary of: Sea - Ballyness Bay
OS Grid Ref of Confluence: B 895 310
Date(s) Surveyed: 26/7/2012

**Hydrometric Area 38 (2012)**

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Assessment:** Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>Binanea Bridge</td>
<td>189000</td>
<td>431012</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0200</td>
<td>28</td>
<td>5</td>
<td>100</td>
<td>0</td>
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<td>0</td>
<td>74</td>
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<td>22</td>
<td>0</td>
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</tr>
</tbody>
</table>

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

Tributary of: Glen Lough

OS Grid Ref of Confluence: C 087 278

Date(s) Surveyed: 26/9/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
<td>-</td>
<td>4</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>0300</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

**Assessment:** The Owencarrow was sampled downstream of Lough Beagh and was found to be in satisfactory ecological condition. The lower site (0300) was not sampled in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0150</td>
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<td>64</td>
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<td>22</td>
</tr>
</tbody>
</table>
Hydrometric Area 38 (2012)

River and Code: **OWENCRONAHULLA**

Tributary of: Sea - N. of Gweedore Bay

OS Grid Ref of Confluence: B 809 266

Date(s) Surveyed: 26/7/2012

OS Catchment No: 19

Biological Quality Ratings (Q Values)

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</thead>
<tbody>
<tr>
<td>0300</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tbody>
</table>

Assessment: Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Stramartin Bridge</td>
<td>181881</td>
<td>427328</td>
<td>1</td>
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</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>28</td>
<td>18</td>
<td>100</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>86</td>
<td>0</td>
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<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: The upper reaches of the Owenea were satisfactory in 2012 with an improvement at the footbridge site (0300) downstream of Glenties. The lower site (0450), however, suffered from impaired ecological conditions. At this point the river drains a raised bog area with significant afforestation in the catchment.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge S. of Mullanmore</td>
<td>184774</td>
<td>393748</td>
<td>11</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>Footbr 2 km d/s Stracashel R</td>
<td>180635</td>
<td>393332</td>
<td>11</td>
<td>DL</td>
</tr>
<tr>
<td>0450</td>
<td>1km u/s Owenea Bridge</td>
<td>174795</td>
<td>392127</td>
<td>0</td>
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<tr>
<td>0500</td>
<td>Owenea Bridge</td>
<td>173693</td>
<td>392030</td>
<td>10</td>
<td>DL</td>
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Site Altitude and Upstream Catchment Characteristics (where available):

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>50</td>
<td>35</td>
<td>99</td>
<td>1</td>
<td>11</td>
<td>0</td>
<td>69</td>
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<td>3</td>
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<td>0500</td>
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</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: OWENMARVE
Tributary of: Sea - Trawenagh Bay
OS Grid Ref of Confluence: B 781 066
Date(s) Surveyed: 17/8/2012

Biological Quality Ratings (Q Values)

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<th></th>
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<tbody>
<tr>
<td>0100</td>
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<td>-</td>
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<td>3-4</td>
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</tbody>
</table>

Assessment: Satisfactory with an improvement noted in comparison with the 2009 survey.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Owennamarve Bridge</td>
<td>183552</td>
<td>408021</td>
<td>1</td>
<td>DL</td>
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<tr>
<td>0300</td>
<td>Derrydruck Bridge</td>
<td>178564</td>
<td>406572</td>
<td>10</td>
<td>DL</td>
</tr>
</tbody>
</table>

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
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<td>5</td>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code : **OWENTOCKER**
Tributary of : Sea - Loughros More Bay
OS Grid Ref of Confluence: G 728 906
Date(s) Surveyed: 14/8/2012

**Biological Quality Ratings (Q Values)**

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</thead>
<tbody>
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<td>1.5</td>
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<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>0300</td>
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<td>3-4</td>
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<td>3</td>
<td>3-4</td>
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<td>4</td>
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</tr>
</tbody>
</table>

**Assessment:** Satisfactory overall with the improvement downstream of Ardara (0300) noted in 2009 maintained in 2012.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National Grid Ref. X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>Ford E Tullybane</td>
<td>183410</td>
<td>389177</td>
<td>11</td>
<td>DL</td>
</tr>
<tr>
<td>0050</td>
<td>Bridge S. of Kilrean</td>
<td>179485</td>
<td>390738</td>
<td>10</td>
<td>DL</td>
</tr>
<tr>
<td>0100</td>
<td>Br NW Cashel</td>
<td>176335</td>
<td>390800</td>
<td>0</td>
<td>DL</td>
</tr>
<tr>
<td>0300</td>
<td>500 m d/s Bridge in Ardara</td>
<td>173089</td>
<td>390680</td>
<td>10</td>
<td>DL</td>
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### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>165</td>
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</table>

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 38 (2012)

River and Code: **OWENVEAGH**  
Tributary of: Lough Veagh  
OS Grid Ref of Confluence: C 004 190  
Date(s) Surveyed: 27/9/2012  

<table>
<thead>
<tr>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>0080</td>
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<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
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</tbody>
</table>

**Assessment:** High quality conditions noted in this tributary of Lough Beagh in the national park.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>1.2km u/s Glenveagh Lough</td>
<td>199353</td>
<td>418299</td>
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<td>DL</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0080</td>
<td>50</td>
<td>11</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>69</td>
<td>0</td>
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</tr>
</tbody>
</table>

Alt is 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 (DOOCHARRY)** 38/O/07
Tributary of : 38G02 GWEEBARRA
OS Grid Ref of Confluence:  B 870 069
Date(s) Surveyed:  17/8/2012, 24/7/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>0100</td>
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<td>4-5</td>
<td>-</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
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<tr>
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<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The upper site had declined slightly in comparison with 2009 albeit still in satisfactory condition. The lower site (0250) upstream of the confluence with the Gweebarra River (qv) had improved and was of high quality.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>0250</td>
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<td>79</td>
<td>0</td>
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<td>16</td>
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</table>
Hydrometric Area 38 (2012)

River and Code: **OWENWEE (DUNLEWY)** 38/O/12
Tributary of: 38C06 CRONANIV BURN
OS Grid Ref of Confluence: B 930 187
Date(s) Surveyed: 25/7/2012

**OS Catchment No:** 23

<table>
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</table>

**Assessment:** Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
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<tbody>
<tr>
<td>0200</td>
<td>Bridge u/s Cronaniv Burn</td>
<td>193125</td>
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<td>DL</td>
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</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
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<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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<tbody>
<tr>
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<td>17</td>
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</table>

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 38 (2012)

River and Code: **OWENWEE (GLEN LOUGH)**

Tributary of: Glen Lough

OS Grid Ref of Confluence: C 099 284

Date(s) Surveyed: 26/9/2012

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Assessment: Satisfactory with an improvement in comparison with 2012.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Glen Lough</td>
<td>210361</td>
<td>428281</td>
<td>2</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>28</td>
<td>4</td>
<td>93</td>
<td>7</td>
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<td>0</td>
<td>89</td>
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<td>8</td>
<td>3</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **OWENWEE (LOUGHROS)**

Tributary of: Sea - Loughros Beg Bay

OS Grid Ref of Confluence: G 664 905

Date(s) Surveyed: 16/8/2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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<td>4</td>
</tr>
</tbody>
</table>

**Biological Quality Ratings (Q Values)**

**Assessment:** Satisfactory conditions.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>Bridge 1 km u/s Maghera</td>
<td>166107</td>
<td>390108</td>
<td>10</td>
<td>DL</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>5</td>
<td>6</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>71</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>28</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: PORT STREAM
Tributary of: Sea: N. of Sturrall
OS Grid Ref of Confluence: G 547 890
Date(s) Surveyed: 16/8/2012

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>3-4</td>
<td>4-5</td>
<td>5</td>
<td>4-5</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Assessment: Unsatisfactory although a slight improvement compared with 2009 was noted.

Station No. | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code
-------------|-------------------|------------|-------------|----------------------|---------------
0100         | Br S of Port      | 154967     | 388982      | 10                   | DL            |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc</th>
<th>Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>14</td>
<td>8</td>
<td>98</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **RAY**
Tributary of: Sea - S.W. of Dooros Point
OS Grid Ref of Confluence: B 948 348
Date(s) Surveyed: 27/9/2012

**Biological Quality Ratings (Q Values)**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>4-5</td>
<td>4-5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
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</tr>
<tr>
<td>0200</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4-5</td>
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<td>4</td>
<td>4</td>
<td>3-4</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Assessment:** The improvement to high quality conditions noted in 2009 was maintained in 2012.

**Station No.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Bridge u/s Fiddlers Bridge</td>
<td>195906</td>
<td>429693</td>
<td>1</td>
<td>DL</td>
</tr>
<tr>
<td>0200</td>
<td>Drumavoghy Bridge</td>
<td>195221</td>
<td>432634</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>85</td>
<td>16</td>
<td>97</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>93</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>0200</td>
<td>9</td>
<td>33</td>
<td>94</td>
<td>6</td>
<td>10</td>
<td>0</td>
<td>82</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **SHALLOGAN**
Tributary of: 38S01 STRACASHEL
OS Grid Ref of Confluence: G 838 965
Date(s) Surveyed: 15/8/2012

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Assessment:** The Shallogan was badly marred by rubbish. Quality had not improved on the 2009 result when a drop in condition was noted. A single specimen of the useful and almost ubiquitous indicator mayfly, *Ecdyonurus*, was found only after taking a second sample.

### Stations Location

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>Just u/s Stracashel River</td>
<td>183748</td>
<td>396566</td>
<td>11</td>
<td>DL</td>
</tr>
</tbody>
</table>

### Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0300</td>
<td>76</td>
<td>14</td>
<td>100</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>70</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **SRUHANNAMEEL**

Tributary of: Lough Nacung Upper

OS Grid Ref of Confluence: B 902 188

Date(s) Surveyed: 25/7/2012

OS Catchment No: 23

### Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>0100</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
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</table>

**Assessment:** Satisfactory.

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Stations Location</th>
<th>National X</th>
<th>Grid Ref. Y</th>
<th>Discovery Series No.</th>
<th>County Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>Just u/s Lough Nacung</td>
<td>190140</td>
<td>418846</td>
<td>1</td>
<td>DL</td>
</tr>
</tbody>
</table>

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100</td>
<td>70</td>
<td>3</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>86</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

Alt is in metres. Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Assessment: A significant decline in quality was noted upstream of Glenties just upstream of the confluence with the Shallogan River (qv). An additional investigative site was surveyed to narrow down the potential sources. Station 0040 is close to the entrance of a large mink farm and downstream of an extensive area of forest. Ecological conditions were reasonably satisfactory at this point. The intervening stretch downstream has more forest plantations with bog and some farmland. Toxic influences such as sheep dip are possible due to the low number of taxa recorded at Station 0045. The lower station is impacted by sewage discharges in Glenties.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0050</td>
<td>73</td>
<td>34</td>
<td>100</td>
<td>0</td>
<td>4</td>
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<td>56</td>
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<td>3</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>0200</td>
<td>46</td>
<td>42</td>
<td>100</td>
<td>0</td>
<td>6</td>
<td>4</td>
<td>59</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>27</td>
</tr>
</tbody>
</table>

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 38 (2012)

River and Code: **TULLAGHOBEGLY** 38/T/01
Tributary of: Sea - Ballyness Bay
OS Grid Ref of Confluence: B 923 320
Date(s) Surveyed: 25/7/2012

OS Catchment No: 24

Biological Quality Ratings (Q Values)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>-</td>
<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>0100</td>
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<td>2-3</td>
<td>2-3</td>
<td>2</td>
<td>2-3</td>
<td>1-2</td>
<td>2-3</td>
<td>3</td>
<td>3-4</td>
<td>3-4</td>
</tr>
<tr>
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<td>5</td>
<td>5</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>3-4</td>
</tr>
<tr>
<td>0400</td>
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<td>5</td>
<td>4-5</td>
<td>4-5</td>
<td>4</td>
<td>4-5</td>
<td>3</td>
<td>4</td>
<td>3-4</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Assessment: The Tullaghobegly scored very similarly to the 2009 survey - slight pollution noted over the length surveyed in July 2012.

Station | Stations Location | National X | Grid Ref. Y | Discovery Series No. | County Code
|--------|-------------------|------------|-------------|----------------------|-----------
| 0090   | 75m u/s Bridge 1.5km d/s Lough Altan. | 193774     | 426110      | 1                    | DL        |
| 0100   | Bridge 1.5 km d/s Lough Altan.       | 193618     | 426266      | 1                    | DL        |
| 0300   | Big Bridge.                       | 193295     | 430434      | 1                    | DL        |
| 0400   | Bellina Bridge                    | 192500     | 432072      | 1                    | DL        |

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0090</td>
<td>128</td>
<td>17</td>
<td>96</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>62</td>
<td>0</td>
<td>2</td>
<td>8</td>
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<td>0100</td>
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<td>18</td>
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<td>13</td>
<td>1</td>
<td>53</td>
<td>1</td>
<td>11</td>
<td>5</td>
<td>16</td>
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</tbody>
</table>

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. 38

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.

<table>
<thead>
<tr>
<th>River Name</th>
<th>Year</th>
<th>Code</th>
<th>A High</th>
<th>A Good</th>
<th>B Moderate</th>
<th>C Poor</th>
<th>D Bad</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abberachrin</td>
<td>2012</td>
<td>38A01</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Aighe</td>
<td>2012</td>
<td>38A03</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Aspick</td>
<td>2012</td>
<td>38A02</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Big Burn</td>
<td>2012</td>
<td>38B03</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Bracky</td>
<td>2012</td>
<td>38B02</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.5</td>
<td>0.0</td>
<td>1.5</td>
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<tr>
<td>Bunlin</td>
<td>2012</td>
<td>38B04</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Burnside</td>
<td>2012</td>
<td>38B05</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Calabber</td>
<td>2012</td>
<td>38C01</td>
<td>4.0</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>7.5</td>
</tr>
<tr>
<td>Carrownamaddy</td>
<td>2012</td>
<td>38C02</td>
<td>0.0</td>
<td>6.5</td>
<td>0.0</td>
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590
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).

<table>
<thead>
<tr>
<th>Number of sites at WFD status</th>
<th>2007-'09</th>
<th>2010-'12</th>
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<td>7</td>
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<tr>
<td>Good</td>
<td>32</td>
<td>37</td>
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<td>Moderate</td>
<td>15</td>
<td>8</td>
</tr>
<tr>
<td>Poor</td>
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<td>13</td>
</tr>
<tr>
<td>Bad</td>
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<td>1</td>
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<tr>
<td>Total number of sites surveyed</td>
<td>60</td>
<td>66</td>
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<tr>
<td>Total number of sites at unsatisfactory status</td>
<td>19</td>
<td>22</td>
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</table>
**Hydrometric Area 38: Trends**

% Surveyed Channel Length in Four Quality Classes

- **Class A:** Unpolluted
- **Class B:** Slightly Polluted
- **Class C:** Moderately Polluted
- **Class D:** Seriously Polluted

**Hydrometric Area 38: Trends**

% Surveyed Channel Length in Five WFD Quality Classes

- **High Status:** Unpolluted
- **Good Status:** Unpolluted
- **Moderate Status:** Slightly Polluted
- **Poor Status:** Moderately Polluted
- **Bad Status:** Seriously Polluted
ADDITIONAL SURVEYS 2012

Seriously Polluted and Investigative Sites
## HYDROMETRIC AREA 13 (Cleristown Stream & Tintern Abbey Stream)

<table>
<thead>
<tr>
<th>Stream Name</th>
<th>Code</th>
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<tbody>
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<td>CLERISTOWN STREAM</td>
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</tr>
<tr>
<td>TINTERN ABBEY STREAM</td>
<td>13T01</td>
</tr>
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</table>
**Additional Surveys (2012)**

River and Code: **CLERISTOWN STREAM** 13/C/04
Tributary of: 13B01 BRIDGETOWN (WEXFORD) OS Catchment No: 179
OS Grid Ref of Confluence: S 974 095
Date(s) Surveyed: 23/5/2012

**Biological Quality Ratings (Q Values)**

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<td>-</td>
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<tr>
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<td>3-4</td>
<td>4</td>
<td>2-3</td>
<td>4</td>
<td>3</td>
<td>-</td>
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</table>

**Assessment:** The lack of sensitive macroinvertebrate fauna indicated a slight improvement from bad to unsatisfactory poor ecological conditions at Brownstown Bridge (0200) in 2012.

**Site Altitude and Upstream Catchment Characteristics (where available):**

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
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</thead>
<tbody>
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</tbody>
</table>

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
River and Code: **TINTERN ABBEY STREAM**

Tributary of: Sea - at Bannow Bay

OS Grid Ref of Confluence: S 794 100

Date(s) Surveyed: 23/5/2012

**Biological Quality Ratings (Q Values)**

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**Assessment:** The complete lack of sensitive macroinvertebrate fauna and excessive siltation continues to indicate poor ecological conditions at Tintern Abbey (0900).

**Site Altitude and Upstream Catchment Characteristics (where available):**

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<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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<th>Other</th>
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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 (Jiggy (Hind) & Laurencetown Stream)**

<table>
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<tr>
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<tbody>
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<td># JIGGY (HIND) *</td>
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<tr>
<td>LAURENCETOWN STREAM</td>
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</table>

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

*JIGGY (HIND) Previously reported as North Branch on Hind 26H01*
River and Code: JIGGY (HIND)  
Tributary of: 26H01 HIND  
OS Grid Ref of Confluence: M 879 619  
Date(s) Surveyed: 5/9/2012

Previously reported as North Branch on Hind 26H01

Biological Quality Ratings (Q Values)

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Assessment: Serious pollution continues to be a feature of the Jiggy in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

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<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
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Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.
Additional Surveys (2012)

River and Code: LAURENCETOWN STREAM 26/L/07
Tributary of: 26S07 SUCK
OS Grid Ref of Confluence: M 930 253
Date(s) Surveyed: 5/9/2012

Biological Quality Ratings (Q Values)

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<td>-</td>
</tr>
</tbody>
</table>

Assessment: The Laurencetown Stream remains seriously polluted at site 0300 in 2012.

Site Altitude and Upstream Catchment Characteristics (where available):

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Alt</th>
<th>Area</th>
<th>Sil</th>
<th>Cal</th>
<th>Pasture</th>
<th>Forestry</th>
<th>Bogs</th>
<th>Urban</th>
<th>Misc Ag.</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0200</td>
<td>52</td>
<td>10</td>
<td>0</td>
<td>100</td>
<td>90</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>0300</td>
<td>49</td>
<td>11</td>
<td>0</td>
<td>100</td>
<td>88</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>0500</td>
<td>40</td>
<td>20</td>
<td>0</td>
<td>100</td>
<td>78</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>11</td>
<td>0</td>
<td>8</td>
</tr>
</tbody>
</table>

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 CHAOMHNIÚ COMHSHAIOIL
Tá an Ghníomhaireacht um Chaomhniú Comhshaíl (GCC) freagrach as an gcomhshaíl agus ata fheabhsú mar dhochtáin iomlántha a thugtar do mhuintir na hÉireann. Táimid tiosanta do dhaoine agus don chomhshaíl a chosaint ó óicheachtai diobhailacha ra náadacht acu agus ar trailliúthe.

Is féidir obair na Gníomhaireachta a roinnt ina thri phríomhreíseim:

Rialú: Déanaimid córais éifeachtais a chaitheann as ghníomhaireacht an bhaile i bith olchumhachtachta a chruthú ar chúnaidh comhshaílaí agus an bhfuil an phobal ná hÉireann mar thoradh ar mheoladh mheadhóg air. Is iomlán an gcaithromh ina dhiaidh sin.

Eolas: Soláthramidí, fógraíocht agus mcoiscéiseanna atá ar fáil an rithiúcháin, spriocdhírithe agus tráthúil chun bonn eolais a chur faoi. Is féidir go bhfuil cumhacht blathaithe as a lorg i bhfeidhm.

Tacaíocht: Binidí go saothar i gcomhar leis an t-aighde eile chun tacú leis an gcomhshaíl thart ar an gcaithromh. Is féidir gur iomlán a chur leis an gcomhar chun cinnadh a chur i bhfeidhm.

Ár bhFreagrachtai

Ceadúnú
Déanaimid na gniomhaíochtaí seo a leanas a rialú i n-áchraíochtaí, a bhiathú agus a chuidadh go dorchú i measc an saol. Tá súil ag an GCC go raibh sé ina dhiaidh sin.

Forfheithmiú Náisiúnta i leith Cúrsaí Comhshaíolaíocht
Clár náisiúnta inímidhach agus cibriachtaí a dhéanann gach bliain ar shaoráidí a bhfuil ceudúnas ón Gníomhaireacht a chur i bhfeidhm.

Monatóireacht, Anailís agus Tuairisciú ar gComhshaíl
- Monatóireacht a dhéanamh ar cháilíocht an eagrí agus Treoir ag an AE máidir le hAer Glan don Eoraip (CAFÉ) a chur chun feidhme.
- Tuairisciú neamhspleách le cabhrú le an chontaeireacht ar fhálais náisiúnta agus na ndútháinisí úídheil (m.sh. tuairisciú tréimhsúil ar staid Chomhshaíl na hÉireann agus Tuarascáilacha ar Tháscairí)

Rialú Astaiochtat na nGás Ceaptha Teasa in Éirinn
- Faraidh agus réamh-heimhsteachtaína náisiúnta leis an gcaithromh.
- An Treoir maidir leis an Trádaí Astaiochtat a chur chun feidhme i gcomhar breis agus 100 de na tairgeóirí dé-cesáide carbóin is mó i Éirinn.

Taighde agus Forbairt Comhshaíolaíocht
- Taighde in Éirinn a chur i bhfeidhm leis an ggcíomhaíocht a bhfuil measc an seirbhise DCB.
- Taighde in Éirinn a chur i bhfeidhm leis an gcomhshaoil a bhfuil measc an seirbhise DCB.

Measúnaíocht Straitéiseach Timpeallachta
- Measúnaíocht a dhéanamh ar linn seirbhísí an t-áthair agus an saoráid a bhfuil ceadúnas ón Gníomhaireacht acu.

Cosaí Radiaolaíochta
- Cosaí Radiaolaíochta a bhainteachta leis an rialú an Rialú Astaíochtaí na nGás Ceaptha Teasa.
- An Oifig Cumarsáide agus Seirbhísí Corparáideacha
- An Oifig um Fianaise is Measúnú
- An Oifig um Inmharthanacht Comhshaíleachta

Cosasí Seirbhísí Cosanta
- Cosasí Seirbhísí Cosanta a bhainteachta leis an gcomhshaoil agus an gcosanta raideolaíochta.

Measúnaíocht Straitéiseach Timpeallachta
- Measúnaíocht a dhéanamh ar linn seirbhísí an t-áthair agus an saoráid a bhfuil ceadúnas ón Gníomhaireacht acu.

Treasúraíocht agus Forbairt Comhshaíolaíocht
- Treasúraíocht a dhéanamh ar linn seirbhísí an t-áthair agus an saoráid a bhfuil ceadúnas ón Gníomhaireacht acu.

Bainistíocht agus Forbairt Comhshaíolaíocht
- Bainistíocht a dhéanamh ar linn seirbhísí an t-áthair agus an saoráid a bhfuil ceadúnas ón Gníomhaireacht acu.

Músaclaíocht Feasaíochta agus Athrú Iompraíochta
- Musaclaíocht Feasaíochta a bhainteachta leis an gcomhshaoil agus an gcomhshaoil a chur i bhfeidhm.

Bainistíocht agus Forbairt Comhshaíolaíocht
- Bainistíocht a bhainteachta leis an gcomhshaoil agus an gcomhshaoil a chur i bhfeidhm.

Bainistíocht agus Forbairt Comhshaíolaíocht
- Bainistíocht a bhainteachta leis an gcomhshaoil agus an gcomhshaoil a chur i bhfeidhm.

Bainistíocht agus Forbairt Comhshaíolaíocht
- Bainistíocht a bhainteachta leis an gcomhshaoil agus an gcomhshaoil a chur i bhfeidhm.