

# **Rationale for Water Framework Directive Freshwater Classification**

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## **Introduction**

This document describes how Water Framework Directive (WFD) Freshwater Classification has been undertaken for the first River Basin Plan. It describes the rationale behind classification, the biological, chemical and physical quality elements monitored, the monitoring networks and how classification was produced.

WFD classification is substantially different from previous freshwater classification systems<sup>1</sup> in a number of ways including:

- Classification is based around water bodies which are units of area based around river confluences and larger<sup>2</sup> lakes,
- Biological, chemical and physical quality elements monitored are combined to produce an overall classification,
- There has been a considerable increase in the number of quality elements monitored,
- It introduces a formal classification system for lakes.

The United Kingdom Technical Advisory Group (UKTAG) has produced guidance on surface water classification - *Recommendations on Surface Water Classification Schemes for the purposes of the Water Framework Directive*<sup>3</sup> (hereafter referred to Classification Guidance) and this has been followed in Northern Ireland. The methodology for the classification of cross-border water bodies has been agreed by the North/South Rivers and Lakes Group which is a sub-group of the North/South WFD Technical Advisory Group.

## **Classification**

Aquatic systems are complex mixtures of plants and animals each responding to variations in their physical and chemical environments in many and very different ways. For example, the occurrence of specific plants may be constrained as much by geographical location and their dispersal mechanisms as water quality conditions. Plant and animal assemblages represent continua that are seldom identical between sites due to their interactions with prevailing chemical and physical conditions.

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<sup>1</sup> The previously used rivers General Quality Assessment (GQA) schemes, which ceased following 2007 classification, are not considered here. Full details can be found on our website at [www.ni-environment.gov.uk](http://www.ni-environment.gov.uk)

<sup>2</sup> Greater than 50 hectares

<sup>3</sup> [www.wfduk.org](http://www.wfduk.org)

Classification systems seek to artificially compartmentalise these continua into discrete classes using statistical manipulations. The output classes may vary depending on the nature of the statistic applied and the quality and type of biological data that it is applied to. While classification systems have considerable value as management concepts it must be remembered that they are at best an approximation of actual ecological quality

The Water Framework Directive has, for the first time, sought to build on previous classification systems where biological and chemical elements were treated separately by requiring that they are combined to produce an overall status assessment for each water body. Overall surface water status is assessed according to the following schematic (Classification Guidance, Paragraph 1.3, page 5):

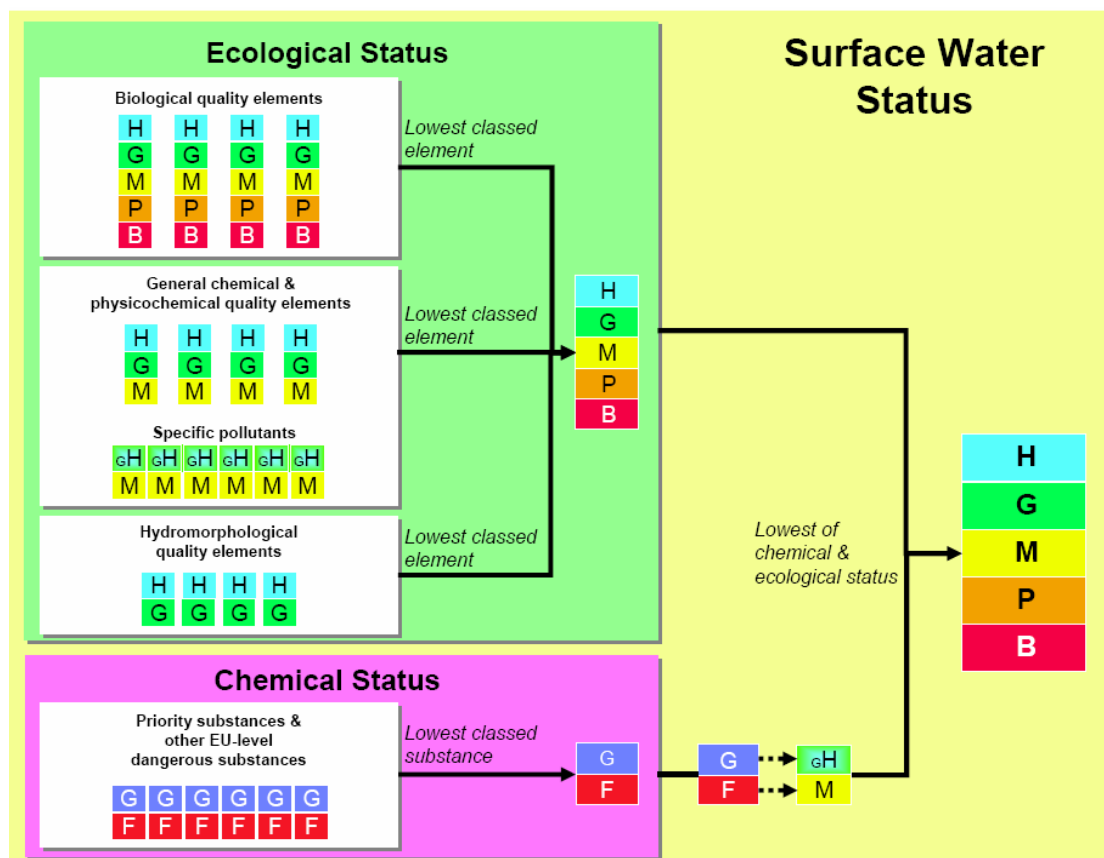


Figure 1 – schematic representation of how results for different quality elements are combined to classify ecological status, chemical status and surface water status.

Key: "H" means high; "G" means good; "gH" means good or better and is normally treated as high for calculating, as relevant, ecological status and surface water status (except for ammonia); "M" means moderate; "P" means poor; "B" means bad; and "F" means failing to achieve good surface water chemical status.

The ecological status is the lowest class of the biological, general chemical and physicochemical and hydromorphological quality elements. This is then combined with chemical status with again the lowest class producing the overall surface water status. This is known as the one-out-all-out process and, whilst it is still open to debate as to whether it really does give the best indication of overall water quality, it is the process that has been used to date. Note that chemistry can only downgrade to moderate status overall and that hydromorphology can only downgrade an otherwise high status water body to good.

Details of all the quality elements and how they have been assessed are described separately for rivers and lakes.

## **Heavily Modified Water Bodies**

### **Designation**

A Heavily Modified Water Body (HMWB) is defined by the Directive (Article 2, paragraph 9) as 'a body of surface water which as a result of physical alterations by human activity is substantially changed in character'.

The designation and classification of HMWBs has been a complex process and is dealt with in detail in the separate report *Identification of Freshwater Heavily Modified and Artificial Water Bodies in Northern Ireland and Classification of Ecological Potential*, which is available on our website ([www.ni-environment.gov.uk/wfd](http://www.ni-environment.gov.uk/wfd)).

### **Monitoring networks**

The river and lakes monitoring networks have been largely unaltered for the 2008 WFD Classification other than a few extra stations opened. Amongst other things there was a need to maintain continuity with the old rivers GQA classification system which only ceased in 2007. Normally, a few stations are opened or closed each year because of local issues and health and safety reasons etc. WFD monitoring requirements are detailed in the Common Implementation Strategy Document '*Guidance on Monitoring for the Water Framework Directive Final Version 23 January 2003*<sup>4</sup>'. WFD monitoring networks were reported to the Commission as required under Article 8 in 2007.

Water Framework Directive monitoring stations are sub-divided into three categories:

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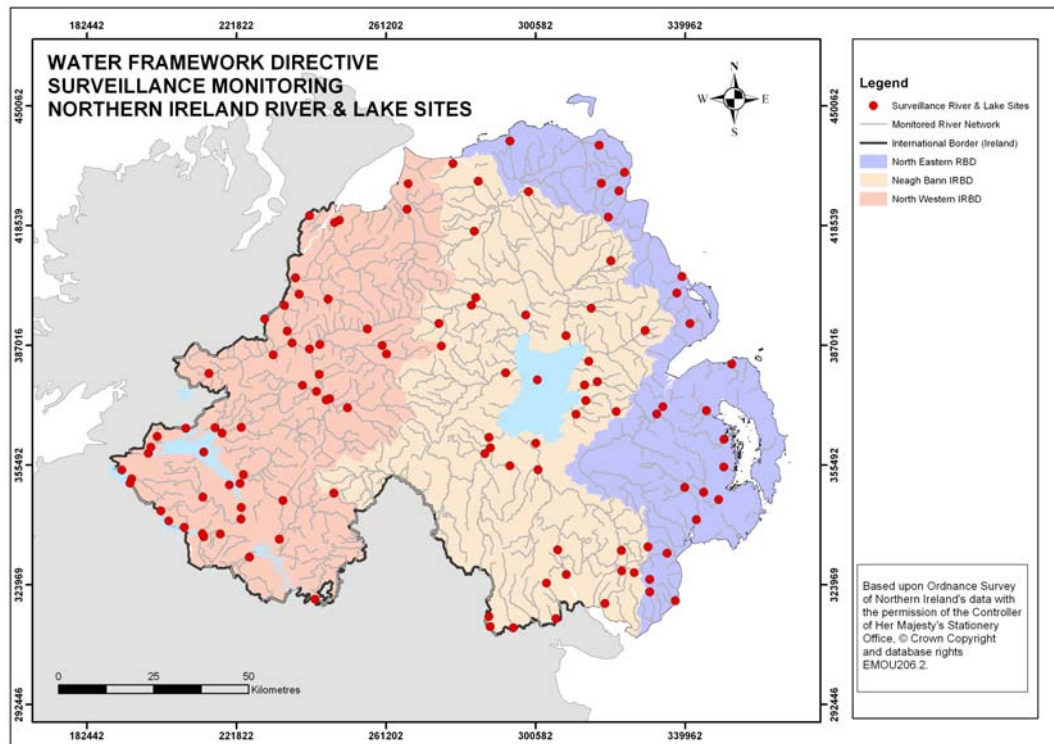
<sup>4</sup>[http://circa.europa.eu/Public/irc/env/wfd/library?l=/framework\\_directive/guidance\\_documents/guidancesnos7smonitoring/\\_EN\\_1.0\\_&a=d](http://circa.europa.eu/Public/irc/env/wfd/library?l=/framework_directive/guidance_documents/guidancesnos7smonitoring/_EN_1.0_&a=d)

1. Surveillance Monitoring (SM) stations – these were assigned on the basis of water body type (which includes geology, slope and alkalinity) and the pressure status from the 2004 Article 5 Pressures and Impacts report. Also included were stations in the Intercalibration exercise and those also monitored under other schemes such as the UK Environmental Change and Acid Waters Monitoring Networks. SM stations are intended to provide long-term record so ideally shouldn't be changed if possible. As required by the Directive, the complete range of quality elements are monitored for at SM stations which has lead to a significant increase in the range of quality elements monitored. For example, the WFD introduces the requirement for freshwater fish monitoring and classification for the first time.

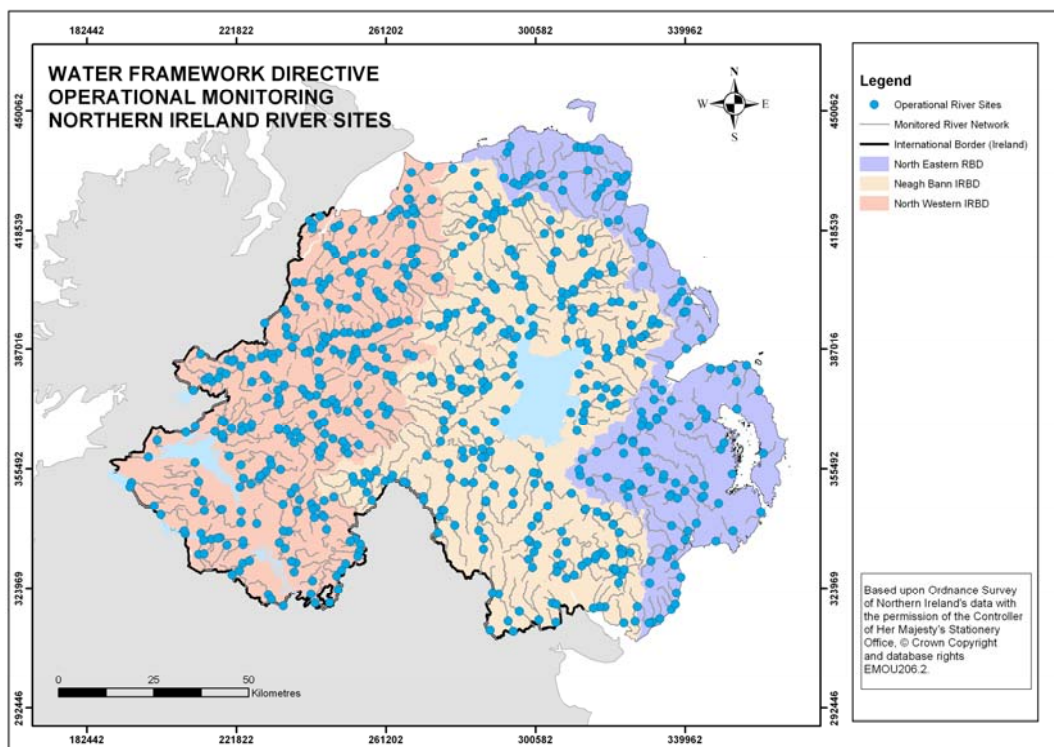
There are 96 rivers and 27 lakes SM stations with the lakes stations including the 20 lakes greater than 50 hectares and 7 smaller Intercalibration ones.

2. Operational Monitoring (OM) stations – the rest of the rivers network was designated for Operational Monitoring and is used for classification and pressure assessment purposes, albeit with a smaller range of quality elements than for the SM stations. There are over 500 rivers OM stations.
3. Investigational Monitoring (IM) stations – principally used to investigate problems where the source is unknown or not proven. IM stations can therefore come and go and can also be at SM and OM stations.

The maps below show the distribution of Surveillance and Operational monitoring stations.



Map 1 – Locations of rivers and lakes Surveillance Monitoring (SM) stations



Map 2 – Locations of rivers Operational Monitoring stations



## **RIVERS - Quality Elements and classification**

The quality elements monitored for rivers are listed below along with how they have been classified, including the years of data that have been used.



*River Roe*

## **Ecological Status - Biological quality elements**

### **Elements monitored**

All of the biological elements, with the exception of fish were sampled by NIEA staff. Invertebrates and macrophytes were analysed in-house but most diatom analysis was by external contract. Prior to July 2008, fish sampling and identification was undertaken under contract by Quercus, a business subsidiary of Queen's University. Following this date it has been undertaken by AFBI (Agri-Food and Biosciences Institute) and the Loughs Agency.

Coverage of the biological quality elements for classification in 2009 is as follows:

<b>Quality Element</b>	<b>SM stations</b>	<b>OM Stations</b>
Macro-invertebrates	Yes	Yes
Macrophytes	Most stations	Most stations
Phytobenthos (Diatoms)	Limited coverage in all River Basin Districts	Limited coverage in all River Basin Districts
Fish	Limited coverage in all River Basin Districts	Very few





*Biological sampling*

## **Classification**

Classification tools are progressively being developed under the auspices of UKTAG for all biological elements.

### **Macro-invertebrates**

Invertebrates have long history in the context of river biological assessment across the world. Invertebrates are the range of snails, insect nymphs, leeches and crustaceans that are ubiquitous in water, whether marine or saline. Different organismic groups respond differently to different water quality conditions. For example, stonefly nymphs are very sensitive to fluctuations in dissolved oxygen which can occur as the result of pollution by biodegradable organic material.

The General Quality assessment system utilised RIVPACs (**R**iver **I**n**V**ertebrate **P**rediction **A**nd **C**lassification System) software for classification. This has been further developed to be WFD compliant and is now known as RICT (**R**ivers **I**nvertebrate **C**lassification **T**ool) which includes measures of invertebrate abundance. River invertebrates are normally sampled in spring and autumn in

larger rivers with smaller ones done in Spring only. Classification has been assessed from the average of three years data from 2006-2008.

## Macrophytes

Previously the 3-band Mean Trophic Ranking system was used for Urban Waste Water Treatment Directive<sup>5</sup> Sensitive Area reviews and other eutrophic water quality assessments. The WFD classification tool is known as Leafpacs and it considers species sensitivity to pollution and the actual abundance of plants represented in a waterbody which are then collated into a classification system. Macrophyte surveys are undertaken once between May and September in a sampling year and are not normally repeated within three years – this is considered a reasonable period over which any significant changes would be observed. For stations that have been sampled more than once since 2002 the most recent data has been used for classification.

## Diatoms

The old 3-band Trophic Diatom Assessment has been replaced by DARLEQ (**D**iatoms **A**ssessment for **R**ivers and **L**akes **E**cological **Q**uality) which takes species presence and their relative abundance to produce a classification, weighted by degradation indicator species. The developing WFD classification requires a minimum of three and ideally six repeat samples at the same station over several years. As diatom monitoring is relatively new, no station has yet been sampled more than four times. This explains why the number of water bodies classified for diatoms is relatively low. Diatom sampling frequency has now been increased to support future classification.

## Fish

No classification tool is yet available for river fish in Ecoregion 17 (island of Ireland) or Scotland. Work to produce a tool similar to the Fisheries Classification Scheme Version 2 developed by the England and Wales Environment Agency for Scottish and Irish conditions is due to be underway during Autumn 2009. Classification to date has utilised expert judgement by the contractors who undertook the fish monitoring. Virtually all classification for this RBP is for small wadeable streams that can be electrofished by one field team. Development work on methodologies to assess larger rivers is ongoing.

Below is a summary of classification tools and the years of data used for classification:

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<sup>5</sup> Directive 91/291/EEC concerning urban wastewater treatment.



Quality Element	Classification Tool	Years of data used
Macro-invertebrates	RICT	2006-2008
Macrophytes	LeafPacs	2002-2008
Phytobenthos (Diatoms)	DARLEQ	2007-2008
Fish	None - expert judgement	2005-2008



*Electrofishing*

## **Ecological status - General chemical and physiochemical quality elements**

### **Elements monitored**

General chemical monitoring includes more elements than are actually used for WFD classification. It is undertaken monthly at SM and OM stations. All general chemical monitoring was carried out by NIEA staff with analyses at the NIEA laboratories in Lisburn. The individual determinands are as follows:

Determinand	Used for WFD Compliance?
Ammonia	Yes as a specific pollutant – see next section
BOD	No (see later)
Dissolved Oxygen % Saturation	Yes
Soluble Reactive Phosphorus (SRP)	Yes
Nitrate	No
Nitrite	No
pH	Yes
Suspended Solids	No
Temperature	No (see below)
Alkalinity	No but used for assessing typology for standards
Conductivity	No
Hardness	No but required for Zinc and Copper assessments



*Chemical sampling*

## **Classification**

The general chemical standards for classification are presented in two UKTAG documents:

*UK Environmental Standards and Conditions (Phase 1) Final Report April 2008,*  
and

*UK Environmental Standards and Conditions (Phase 2) Final March 2008.*<sup>6</sup>

These documents describe the process of how the standards were derived, the standards themselves and how compliance is assessed. One significant difference from the previous GQA classification system is that BOD is not included. This is explained in the Phase 1 report on page 24: '...the standard for dissolved oxygen is used for assessing and reporting compliance of rivers, and that the standard for BOD is used for deciding action to meet the standard for dissolved oxygen in the river. This is because the levels of BOD can be misleading in clean rivers, and because the link between BOD and dissolved oxygen is a complex and uncertain issue if dealt with on a site-by-site basis.' BOD is still assessed but not included in overall classification as it is still a very important element for regulatory and other water quality purposes.

For temperature, the *Environmental Standards and Conditions Phase 2* report states on page 25 that 'the proposed standards...are intended to supersede the standards in the Directives on Freshwater Fish...when these directives are repealed in 2013.' and 'The UKTAG proposes that these standards are used in the classification of rivers receiving thermal discharges and in calculating the action needed to achieve a target class for rivers.' Given the above and with relatively few thermal discharges to freshwaters in Northern Ireland, temperature classification has been assessed but not used for overall physico-chemical status. However, as temperature classification could become increasingly important with climate change, it will likely play a more prominent role in the years to come. No river water bodies have been found to be worse than good status for temperature with the vast majority at high status. Along with BOD full details are available.

The importance of phosphorus is recognised by the inclusion SRP in WFD classification. Increasing nutrient concentrations are capable of changing the biomass and composition of biological communities with the most obvious primary impact being enhanced plant and algal production. Secondary impacts can include reduced dissolved oxygen levels caused by the overnight respiration of macrophytes which can lead to problems for fish. Elevated nutrient levels can also cause toxic blooms of blue-green algae leading to potential problems for livestock and other animals as well as overgrowths of other species.

The remaining determinands monitored but not included in WFD classification are used for a variety of purposes such as regulation of discharges, reporting under other EU Directives and general water quality issues. They will also be important in formulating and assessing the impact of Programmes of Measures.

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<sup>6</sup> [www.wfduk.org](http://www.wfduk.org)

WFD classification utilised data over the three year period 2006-2008, similar to the three year assessment periods used by GQA. The percentiles used to classify the Dissolved Oxygen and BOD class boundaries are the same as used previously for GQA.

## **Ecological status - Specific pollutants**

### **Elements monitored**

Member States have been required to identify 'specific pollutants' (i.e. those pollutants being discharged in significant quantities) from the Directive's general list of the main types of pollutants and these are listed in page 9 paragraph 1.3.3(b) of the Classification Guidance.

UKTAG has made recommendations on an initial list of specific pollutants comprising substances considered to be being discharged in significant quantities into waters within the UK and on environmental quality standards for these substances. The list of specific pollutants is reproduced in the table below. Further substances may be identified in the future and the list will be kept under review.

<b>Initial list of Specific Pollutants</b>	
1.2,4 D (Acid and Ester)	11. Ammonia
2. Chromium (vi)	12. Chlorine
3. Chromium (iii)	13. Copper
4. Cypermethrin	14. Cyanide
5. Diazinon	15. Permethrin
6. Dimethoate	16. Iron
7. Linuron	17. Zinc
8. Mecoprop	18. 2,4-dichlorophenol
9. Phenol	19. Arsenic
10. Toluene	

### **Classification**

The environmental quality standards for specific pollutants listed 1 to 11 above have been derived or updated in line with the procedure specified by the Directive, including peer review and public consultation. For the pollutants listed in points 12 to 19, UKTAG recommends that the quality standards previously established under the Dangerous Substances Directive<sup>7</sup> should apply. This is

<sup>7</sup> Pollution caused by certain dangerous substances discharged into the aquatic environment of the Community – 76/464/EEC



because there are insufficient data available at present to recommend revision of these standards.

For good ecological status, the environmental quality standards established for specific pollutants must not be exceeded. With the exception of ammonia, environmental quality standards for the specific pollutants have been set in such a way that, where the standards are met, no adverse effects on aquatic plants and animals should occur. Consequently, UKTAG recommends that in a water body complying with the standards for these specific pollutants, the water quality - as far as these specific pollutants are concerned - is capable of supporting the achievement of high or good ecological status. Ammonia has been included as a specific pollutant (rather than being included with the other general chemical elements) because of its toxicity to fish.

The initial proposed standards for specific pollutants are presented in the UKTAG report *'Proposals for Environmental Quality Standards for Annex VIII Substances - Final Draft provided to administrations to brief Ministers'*<sup>8</sup> of January 2008. With the exception of ammonia, the standards for specific pollutants are expressed as a long term (annual mean) and as a short-term (maximum allowable concentration (MAC) estimated as a 95 percentile (latter not for all determinands). UKTAG recommend that the long-term standards are used for classification and that failure of the MAC is used to trigger additional investigation which, in turn, may lead to further monitoring and, where appropriate, action aimed at preventing deterioration of status. This approach has been followed here.

For classification, ammonia was assessed using data from 2006-2008 as per the general chemical elements from surveillance and operational monitoring stations and the more detailed 5-band classification produced with the percentiles used for class boundaries the same as previously for GQA. Zinc and copper have been assessed from around 460 Freshwater Fish Directive<sup>9</sup> monitoring stations for the same time period. Assessment for the other specific pollutants (with the exception of Chromium, Cypermethrin, Chlorine, Cyanide, Arsenic, Iron and Permethrin) was done using data from 2005-2008 at 11 stations at the downstream limits of major rivers (stations that have been monitored under the Dangerous Substances Directive and OSPAR convention<sup>10</sup>).

In Northern Ireland, like other regions of the UK and Ireland, a specific list of both specific pollutants and priority substances (described later) has been drawn up by an expert group and consists of those substances that available evidence indicates should be monitored at Surveillance Monitoring stations. This list also

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<sup>8</sup> [www.wfduk.org](http://www.wfduk.org)

<sup>9</sup> The quality of fresh waters needing protection or improvement in order to support fish life – 78/659/EEC (revised by 2006/44/EC)

<sup>10</sup> The [1992 OSPAR Convention](#) is the current instrument guiding international cooperation on the protection of the marine environment of the North-East Atlantic.



includes further substances that have also been considered to pose a potential threat and therefore warrant monitoring. Taking into account available resources and, in particular, the amount of analytical methodology development required, a rolling 4-year specific pollutant/priority substances (SP/PS) monitoring programme at SM stations was introduced in April 2007 with the aim of monitoring for the complete list by March 2011. The complete list of chemicals in the SP/PS monitoring programme is presented in Annex 1. Note that this list is subject to revision and may not proceed as indicated. From this list, the specific pollutants phenol and diazinon have been classified.

Specific pollutant monitoring has been done by NIEA staff with analyses at NIEA laboratories in Lisburn and under contract with the Environment Agency for England and Wales.

### **Ecological status - Hydromorphology**

River habitat modification due to management and engineering practices can potentially have major impacts on river ecology. This is a new and developing science with the interrelationships currently poorly understood but should be investigated through priority research and development over the coming years.

### **Elements monitored and classification**

There are three hydromorphological elements considered; morphological condition which includes river depth and width variation, structure and substrate of the river bed and structure of the riparian zone, river continuity, and the hydrological regime which includes quantity and dynamics of water flow and connection to the groundwater.

Within the UK and Ireland, three systems have been used for assessing river hydromorphological quality. These are the River Habitat Survey (RHS) developed by the Environment Agency for England and Wales, Morphological Impact Assessment MIMAS (Scottish Environmental Protection Agency) and the Rapid Assessment Technique (RAT) from NS Share<sup>11</sup> research for the island of Ireland. The RAT procedure was further developed by NIEA to be fully WFD compliant and has been renamed as the **River Hydromorphological Assessment Technique (RHAT)**. As RHAT only became fully operational in 2008, initial river hydromorphological classification was done using a combination of River Habitat Survey studies from 2005-2007 and data from NS Share Further Characterisation work which assessed specific risks from intensive land use and channelisation.

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<sup>11</sup> NS Share – **N**orth **S**outh **S**hared **A**quatic **R**esource – A NI/ROI WFD research project partly funded by the EC Interreg initiative



#### *Hydromorphological surveying*

The Water Framework Directive requires river flow and water level to be protected for its own sake at high status sites as a protection for ecological functioning. A number of Sniffer<sup>12</sup> sponsored research studies, which concluded in 2007, set out to establish effective water resource standards to protect water body high status in light of abstraction and flow regulation pressures. As a result of these studies, standards have been proposed that define the required protection for flow and water levels. In NI application of the appropriate water body type specific water resource standards has allowed the attribution of a 'hydrological classification' to all abstraction and flow regulation impacted water bodies. This effectively identifies those river water bodies where the hydrological and hence ecological status may be at risk due to net abstraction from both surface water and groundwater within the surface water catchment. Further information on the water resource standards themselves and how they were derived can be found in the two UKTAG Environmental Standards and Conditions documents referred to earlier.

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<sup>12</sup> Scottish and Northern Ireland Forum For Environmental Research – a Scotland/NI co-funded research organisation

As for other elements, the lowest class of the hydromorphology and the hydrology has been used to classify overall hydromorphological functioning. Apart from the NS Share Further Characterisation work all classification work has been done by NIEA staff.

### **Chemical Status**

Priority substances and other EU-level dangerous substances

#### **Elements monitored**

Chemical status is perhaps confusingly named, given that many other chemicals have already been considered. Chemical status is assessed from what are known as priority substances, defined by the Directive as *'those which present a significant risk to or via the aquatic environment'*<sup>13</sup>. An initial list of 33 substances and standards has been drawn up at a European level and are presented in 'daughter' Directive 2008/105/EC.<sup>14</sup>

#### **Classification**

For classification, as for specific pollutants (except ammonia), assessments were made from 2005-2008 data from the 11 OSPAR stations at downstream locations on major rivers. The substances considered were as follows:

<b>Priority substances</b>	
Gamma-HCH	Pentachlorophenol
Hexachlorobenzene	Trichloromethane (Chloroform)
Aldrin	Carbon Tetrachloride
Isodrin	Trifluralin
Dieldrin	Endosulfan
Endrin	Hexachlorobutadiene
Napthalene	Simazine
1,2 Dichloroethane	Chlorvenfinvos
Atrazine	Benzene

Classification was also assessed for the following substances from year 1 of the SP/PS monitoring programme. The complete list of chemicals in the SP/PS monitoring programme is presented in Annex 1.

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<sup>13</sup> Article 16, paragraph 1.

<sup>14</sup> Directive 2008/105/EC...on environmental quality standards in the field of water quality...

Atrazine	1-2 Dichloroethane
Chlorofenvinphos	Carbon tetrachloride
Chloropyrifos	Tetrachloroethene
Simazine	Trichloroethene
	Trichloromethane (Chloroform)

Priority Substance monitoring has been undertaken by NIEA staff with analyses at NIEA laboratories in Lisburn and under contract with the Environment Agency for England and Wales.

### **How river bodies have been classified**

One of the major differences between WFD classification and previous systems is that it is based on water bodies, rather than individual river reaches. River water bodies are discrete areas based on river confluences that can contain more than one river and there are therefore a range of possibilities for the number(s) of monitoring stations they contain. The Classification Guidance Section 5 deals with spatial issues with classification, including the impact of tributaries.

Modes of river water body classification are summarised as follows:

- 1) Water body with no monitoring station:
  - a) Classified by adjacent water body either upstream or downstream,
  - b) If water body is close to headwaters may be classified by a water body that is more than one 'empty' body away,
  - c) If agglomeration with others is not considered appropriate, classified from either NI or ROI pressures and impacts information,
- 2) Water body with one monitoring station:
  - a) Classified by that station
  - b) If station is towards extremity of water body it may be necessary to consider another station in adjacent water body (risk assess if e.g. other station is a very different class),
- 3) Water body with more than one station:
  - a) Averaged with other(s)
  - b) May also need to consider stations in adjacent water bodies
  - c) Risk assess the impact of tributary stations (see below)

Not all monitoring stations are monitored for both chemistry and biology. For reasons such as proximity to larger rivers or potential saline intrusion at downstream sites, some, including both SM and OM stations, are monitored for

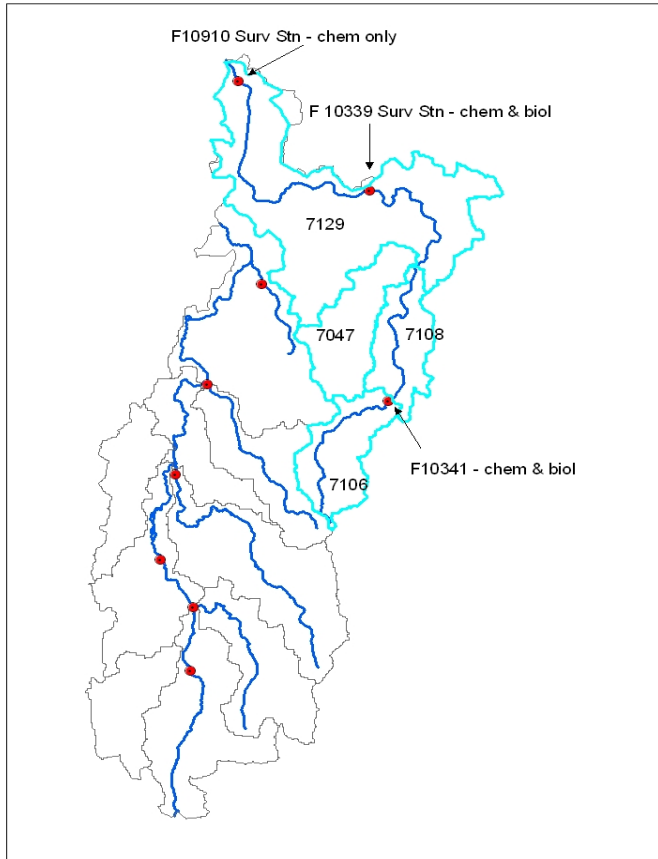
biology or chemistry only. This can mean that different monitoring stations may be used to classify a water body for different quality elements.

Given the distribution of the monitoring network and the delineation of the water bodies, a reasonable number of stations are on tributaries. From the Classification Guidance, the following 'tributary rules' were produced:

- If the tributary accounts for less than 10% of the water body its overall impact can be disregarded,
- If the tributary represents between 10-25% of the water body then, if the main station(s) are classified as high and the tributary is less than high (doesn't matter what), the overall class falls to good. If the other stations are less than high then the tributary has no impact, for example it cannot raise the overall classification,
- If the tributary represents more than 25% of the water body, and if it is a lower class than the main station(s) then the overall class falls by one class.

In practice, tributary assessments within water bodies are based on the proportion of the tributary flow to the main river.

A simple example of how river monitoring stations are considered for classification is provided by the River Tall.



*Monitoring stations on the River Tall*

The Tall has been classified as follows:

Water body	Station code	Station name	Monitored for	How to classify
GBNI1NB030307129	F10910	Tall at Clonmore	Chemistry only	Average with 10339 for chemistry
	F10339	Tall at Redmonds Br	Chemistry and biology	Classify for biology only
GBNI1NB030307108	none	none	nothing	Classify using 10339 for chemistry and biology but risk assess from 10341
GBNI1NB030307106	F10341	Tall at Darby's Bridge	Chemistry and biology	Classify for chemistry and biology
GBNI1NB030307047	none	none	nothing	Most recent pressures and impacts information used

The rules above have been followed for most quality elements with the following exceptions:

- Fish – it is not considered appropriate to classify fish other than in the water body in which they have been assessed as variables such as habitat conditions and patterns of fish movement in adjacent water bodies would be unknown. Often fish monitoring has to be done some distance from published locations of monitoring points due to issues such as representative favourable habitat and access etc.
- Hydromorphology – only classified where it has been assessed as it is unique to each individual location. As stated above, a range of techniques have been used to produce classification for the first River Basin Plan. A procedure has been developed for water body hydromorphological assessment using the Rivers Hydromorphology Assessment technique which includes both desktop and field investigations.
- Specific Pollutants and Priority Substances - With ammonia, copper and zinc having been monitored at hundreds of stations they have been considered as per the other general chemical elements. With much more limited information available for the other SP/PS it was only considered appropriate to classify them for the water bodies in which they were sampled, i.e. none of these water bodies were agglomerated with others with no monitoring.

Some water bodies with no monitoring stations are not considered appropriate to agglomerate with others for classification. Such situations can arise, for example, for a water body that is a tributary of a larger river where the tributary would not be considered to be under the same pressure(s) as the main river. These water bodies have been classified by pressures and impacts information. Such information was initially gathered and reported for the WFD Article 5 report in 2004 and it contains information on point and diffuse inputs on rivers and has been regularly updated. Thirty eight water bodies have been classified in this way, including a number of cross-border water bodies which have been assessed by consultants under contract to the ROI EPA.

During 2009 the river monitoring network was reviewed in order to reduce the number of water bodies classified in this way (as well as others without monitoring stations). This will lead to some new stations being opened, with some others not playing a significant role in classification either closed or monitored at a reduced frequency.

Details of how each water body is classified with respect to monitoring stations are provided in Annex 2.



## Overall Classification

Following classification of individual quality elements and taking into account how each individual water body is classified in relation to monitoring stations as described above, overall water body status is then assessed following the one-out-all-out rule described on Page 3. The resultant classification table produced resembles the illustrative example below:

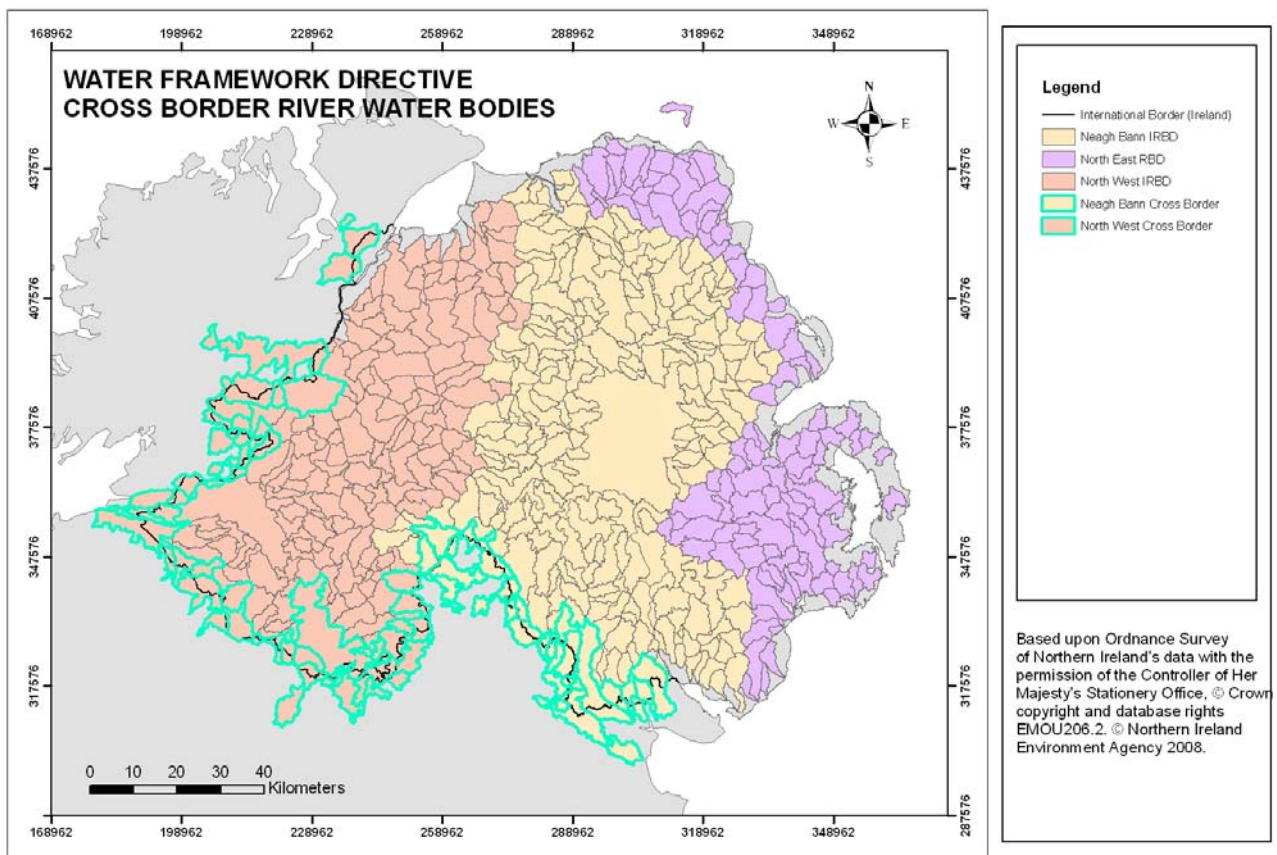
RWBID	Inv	Mac	Fish	Diat	Final Biol	DO	SRP	pH	Final p/chem	NH4	Cu	Zn	Other SP	Final SPs	Hmorph	Final Ecology	C
GBNI1N...	G	H	N	N	G	H	H	H	H	H	H	H	N	H	N	G	
GBNI1N...	P	G	M	N	P	H	M	H	M	H	H	H	N	H	N	P	
GBNI1N...	G	H	N	N	G	H	H	H	H	H	N	N	N	H	N	G	
GBNI1N...	M	H	N	M	M	H	G	H	G	H	H	H	N	H	P	M	
GBNI1N...	M	G	N	N	M	G	H	H	G	H	H	H	N	H	M	M	
GBNI1N...	P	N	N	N	P	H	G	H	G	H	N	N	N	H	N	P	
GBNI1N...	G	H	N	M	M	H	H	H	H	H	H	H	N	H	N	M	
GBNI1N...	M	M	G	N	M	H	H	H	H	H	H	H	N	H	P	M	
GBNI1N...	M	M	N	N	M	H	H	H	H	H	H	H	N	H	M	M	
GBNI1N...	G	H	G	N	G	H	H	H	H	H	H	H	N	H	G	G	
GBNI1N...	M	G	N	N	M	N	N	N	N	N	N	N	N	N	N	M	
GBNI1N...	M	M	N	N	M	H	H	H	H	H	H	H	N	H	N	M	
GBNI1N...	G	G	N	N	G	H	H	H	H	H	H	H	N	H	M	G	
GBNI1N...	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
GBNI1N...	G	G	N	N	G	H	H	H	H	H	H	H	N	H	G	G	
GBNI1N...	G	H	N	N	G	H	H	H	H	H	H	H	N	H	N	G	
GBNI1N...	M	G	N	N	M	H	G	H	G	G	H	H	N	G	N	M	

N=no classification available

Detailed classification data is presented in the River Basin Plans.

## Cross-border classification

As water bodies are based on river catchments it is to be expected that there will be many that lie on both sides of the border with the Republic of Ireland. These are as shown below:



Map 3 – Cross-border water bodies

Whilst Northern Ireland and the Republic employ different field assessment and classification methodologies for some biological elements, the introduction of WFD classification has meant that the classifications produced relate to the same system (i.e. the same classes, high, good etc). The EC Intercalibration exercise seeks to ensure that the classifications produced by different methodologies are comparable with one another. For example, what is classified as good quality for invertebrates in Northern Ireland should reflect the same quality as good quality for invertebrates in the Republic of Ireland.

NIEA Water Management Unit liaise closely with ROI agencies and meets regularly through the North South Rivers and Lakes Group which was convened some years ago to agree practical monitoring and classification issues. The rules for classifying each cross-border water body have been agreed with respect to NI and ROI monitoring stations and have followed the principles detailed previously. Cross-border classification has been undertaken in liaison with the ROI Environmental Protection Agency.

### **Confidence in class**

The Water Framework Directive requires that 'Estimates of the level of confidence and precision of the results provided by the monitoring programmes shall be given in the plan.' (Annex V Paragraph 1.3). The proposed UK approach is presented in Section 4 of the Classification Guidance. However, at this stage, it is not possible to employ a wholly numeric approach, with one of the main reasons being that for some quality elements the software has not yet been developed to enable numeric confidence to be estimated.

The system presently used is a simplistic alternative based on the differences between classification classes of individual biological and chemical parameters. It is based around the presumption that the major pressures on all water bodies are either from eutrophic and/or organic pressures, which is a reasonable assumption for rivers and lakes. No detailed analysis is currently available to be more specific than this. This methodology largely relies on the assumption that the individual classifications for each quality element are accurate. Confidence in class will be estimated as high, medium or low as per UKTAG guidance.

The methodology involves assessing the confidence in class for each pressure for each water body using the procedure below and then taking the lowest confidence for the two pressures. However, it is also necessary to give weighting to the number of quality elements that have been combined to produce classification for each pressure. The rules are set out as follows:

<b>Number of QEs</b>	<b>QEs and class differences</b>	<b>Confidence</b>
1	n/a	Low
2	QEs the same class	High
2	QEs cover two classes	Medium
2	QEs cover more than two classes	Low
3 or more	QEs the same or cover two classes	High
3 or more	QEs cover three classes	Medium
3 or more	QEs cover four or five classes	Low

For eutrophication pressures on rivers, macrophytes, diatoms and soluble reactive phosphorus (SRP) have been considered.

For organic pressures in rivers, fish, invertebrates, Dissolved Oxygen, ammonia and BOD have been considered. The lower of the confidence classes for either of the impacts is then assigned as the overall confidence in class for a particular water body.

## **LAKES - Quality Elements and classification**

The quality elements monitored for lakes are described below including the years of data that has been used.



*Lough Island Reavy*

## **Ecological status - Biological quality elements**

### **Elements monitored**

All of the biological elements, with the exception of fish were sampled by NIEA staff. Fish were sampled under the NS Share Fish in Lakes project. Littoral invertebrates and macrophytes were analysed in house but profundal invertebrates, diatoms and phytoplankton were analysed via external contract. All surveillance lakes are surveyed on a three year rolling programme for biological quality elements and hydromorphology.

### **Classification**

Classification techniques are progressively being developed under the auspices of UKTAG and through other partnerships for all biological elements.

## Macro-invertebrates

Lake morphology divides the open water into littoral (shoreline) and profundal (deep) zones and the two areas support very different invertebrate populations due to differences in substrate, oxygen levels and nutrient availability. Work is ongoing to develop separate classification systems for each zone but to date these classification tools are not available and Northern Ireland therefore will not be classifying using lakes macroinvertebrates for this river basin plan.

## Macrophytes

NIEA used the FREE Index developed by the ROI Environmental Protection Agency to classify NI lakes based on their macrophyte assemblages, as this gives the advantage of using the same method throughout Ecoregion 17. The FREE index uses the relative frequency of macrophytes found in each quadrant from all sites surveyed. It uses a combination of metrics to produce an overall FREE index for an individual lake. Boundaries are set using points of ecological change along a TP gradient based on reference sites from the IN-SIGHT<sup>15</sup> palaeolimnology work. The FREE index is applicable across all lake types.

Macrophyte surveys are carried out once in the maximum growth period generally between June and September and the classification is based on the data from the most recent survey year.

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<sup>15</sup> Identification of reference Status for Irish lake typologies using palaeolimnological methods and Techniques



*Macrophyte sampling*

## **Diatoms**

Diatoms have been assessed using the DARLEQ tool as an assessment of the impact of nutrient enrichment on phytobenthos. Species composition and relative abundance of benthic diatoms are assessed and used to calculate an index as nutrient concentrations increase. This is called the Lake Trophic Diatom Index (LTDI). Diatoms are sampled twice a year in spring and summer at a minimum of four sites per lake in the selected survey year.

## **Phytoplankton**

Classification of lake phytoplankton is based on two metrics that have been developed and intercalibrated separately.

- Phytoplankton biomass is represented by chlorophyll.
- Phytoplankton taxonomic composition and abundance is represented by the percentage of nuisance cyanobacteria (blue-green algae) as measured by biovolume.



Chlorophyll Data was averaged over 2006-2008 from monthly samples taken from the shore. Environmental quality ratios (EQRs) for chlorophyll are then calculated as a ratio of the observed values to the expected values at Reference condition

Phytoplankton are sampled three times a year in spring, summer and late summer in the selected survey year corresponding to the natural growth optima of a range of species groups.

The measured value of percentage by biovolume of nuisance cyanobacteria, is the percentage of the total biovolume of the sample made up of cyanobacteria against the total biovolume of all phytoplankton taxa present in each sample

The overall classification for the lake based on phytoplankton is the lower of the chlorophyll and % cyanobacteria classifications

## **Fish**

All work on fish classification has been carried out under the NS Share Fish in Lakes project. Only a few lakes have been surveyed to date. Work to fully develop a lakes fish classification tool, building on initial work by the NS Share project, is proposed for 2009-10.

## **Ecological status - General and physicochemical quality elements**

### **Total Phosphorous**

The importance of phosphorus is recognised by the inclusion of total phosphorus as part of the overall WFD Classification for lakes. Increasing nutrient concentrations will change the biomass and composition of biological communities with the most obvious primary impact being enhanced plant and algal production. Secondary impacts can include reduced dissolved oxygen levels caused by the overnight respiration of macrophytes which can lead to problems for fish. Elevated nutrient levels can also cause toxic blooms of blue-green algae leading to potential problems for livestock and other animals.

Type specific standards are presented in the UKTAG Environmental Standards and Conditions documents referred to earlier but for our surveillance lakes NIEA used site specific equations to predict a reference TP for each individual lake based on alkalinity, depth and humic (colour) type. Observed TP data for each lake was collected from shoreline monitoring stations and averaged over 2006 to 2008.



## Other Elements monitored

General chemical monitoring includes more elements than are actually used for WFD classification. It is undertaken at lakes Surveillance Monitoring stations on a monthly basis from shoreline monitoring stations. All general chemical monitoring was carried out by NIEA staff with analyses at the NIEA laboratories in Lisburn. The individual determinands are as follows:

Determinand	Used for WFD Compliance?
Ammonia	Yes as a specific pollutant
BOD	No
Dissolved Oxygen	Yes
Chlorophyll a	Yes
Soluble Reactive Phosphorus (SRP)	No
Total Phosphorus (TP)	Yes – see above
Nitrate	No
Nitrite	No
pH	Yes
Suspended Solids	Yes
Temperature	No
Alkalinity	No but used for assessing typology for standards
Conductivity	No
Hardness	No, but required for zinc and copper assessments
Colour	No but used for assessing typology for TP

## Classification

The general chemical standards for classification are also presented in the two UKTAG Environmental Standards and Conditions documents. These documents describe the process of how the standards were derived, the standards themselves and how compliance with them is assessed.

The other determinands monitored but not included in WFD classification are used for a variety of purposes such as reporting under other EU Directives and general water quality issues. They will also be important in assessing the impact of Programmes of Measures.

## **Ecological status - Specific pollutants**

Specific pollutant classification for lakes has been assessed from the nearest river outflow station. The other details are as for river classification on pages 13-15 above.

## **Ecological status - Hydromorphology**

### **Lake Hydromorphology**

The condition of the lake hydromorphology plays an important role in determining the overall lake ecology. Lake management and engineering activities can have significant impacts on the availability of habitats and species and, therefore, the ability of the lake to support each of the biological elements.

As with rivers, the relationship between lake hydromorphology and ecology is poorly understood and will benefit from focused research over the coming years.

### **Elements monitored and classified**

There are two hydromorphological quality elements; the hydrological regime which includes quantity and dynamics of flow, residence time, connection to groundwater, and morphological condition which includes lake depth variation, quantity and structure of the substrate on the lake bed and the structure of the lake shore.

The condition of the quality elements can be altered as result of lake management and engineering activities. Lake hydromorphological data is collected by two key survey protocols. The first is a bathymetric survey which provides information relating to the lake depth variation, including both the maximum and mean depths. From this, calculations can be made to determine the volume and residence time.

The second protocol is the Lake Habitat Survey (LHS). This is a systematic method for characterising the physical habitats in lakes and the presence of pressures within and adjacent to the lake that could result in modification to the hydromorphology.

Lake-MImAS (Morphological Impact Assessment System) was used to determine whether the hydromorphology was at High Status. This was developed primarily as a risk assessment tool to inform regulatory decisions but provides a consistent and objective framework for determining the hydromorphological condition of a water body and was therefore used in this round of classification. The method will need to be refined when empirical data that link hydromorphological alteration to ecological response becomes available.

As for rivers, the application of the appropriate water body type specific water resource standards for lakes has allowed the attribution of a hydrological classification to all abstraction and flow regulation impacted water bodies. However, for lake water bodies two separate hydrological elements were considered. The reduction in lake inflow due to abstraction and the lake level variation due to abstraction and flow regulation pressures were assessed against the developed standards. This identified those lake water bodies where the hydrological and hence ecological status may be at risk due to net abstraction and flow regulation within water body or the surface water catchment. Where a lake water body was deemed to have an un-natural level variation regime due to impoundment or level management, the application of the standards were impractical and it was assumed that standards to protect hydrological high status were not attained. Further information on the water resource standards themselves and how they were derived can be found in the two UKTAG Environmental Standards and Conditions documents.

As for other elements, the lowest of the hydromorphology and the hydrology has been used to classify overall hydromorphology. All classification work has been done by NIEA staff.

### **Chemical Status**

Priority substances and other EU-level dangerous substances

Chemical status classification for lakes has been assessed from the nearest river outflow station. The other details are as for river classification on pages 17-18 above.

### **How lake water bodies have been classified**

Only lakes greater than 50 hectares have been designated as specific water bodies and therefore classified individually. Guidance on spatial issues of classification can be found in the Classification Guidance section 5. Selected monitoring sites must be representative of the ecological quality of the lake. For macroinvertebrates, macrophytes and diatoms a minimum of 4 sites are surveyed per lake with more sites added with increasing lake size and complexity.

At this early stage of WFD implementation, classification will not include complete coverage for every element. The Water Framework Directive does not require that a full monitoring programme is undertaken before the start of the next River Basin Plan period in 2010. However, NIEA have been working to

achieve as much as possible in the three-year period 2007-2009 (and also utilising older data where appropriate).

The Water Framework Directive states that:

‘For surface water categories the ecological status classification for the body of water shall be represented by the lower of the values for the biological and physiochemical monitoring results for the relevant quality elements’.

In other words the overall classification will default to the lowest class produced by the biological quality elements and TP (the one out all out system described earlier) and in accordance with the directive each lake will be assigned an overall class from High, Good, Moderate, Poor and Bad

If Hydromorphology is at less than high status it can only downgrade the overall classification from High to Good status.

### **Overall Classification**

Following classification of individual quality elements and taking into account how each individual water body is classified, overall water body status is assessed following the one-out-all-out rules described on Page 3. Overall classification is then assessed in a similar fashion to that described on page 21 above for rivers.

Detailed classification data is presented in the River Basin Plans.

### **Cross-border classification**

Whilst Northern Ireland and the Republic of Ireland employ different field and assessment methodologies for some biological elements, the WFD Intercalibration exercise seeks to ensure that the classifications produced by different methodologies are comparable with one another.

NIEA Water Management Unit liaises closely with ROI agencies and meets regularly through the North South Rivers and Lakes Group which was convened some years ago to agree practical monitoring and classification issues. The rules for classifying each cross-border lake were agreed and cross-border classification has been undertaken in liaison with the ROI Environmental Protection Agency.

### **Confidence in Class**

As not all the lake classification tools produce a numerical confidence, the approach to confidence in class used by NIEA was similar to that used by the

England and Wales Environment Agency which follows and builds on the logic given in the UKTAG Classification Document

*'...a number of types and sources of information, including monitoring results for different quality elements known to respond to a pressure to which the water body is subject, all reinforce the understanding of how the water body is behaving in response to pressures and this understanding provides a high level of confidence that the status of the water body is truly worse than good (i.e. the weight of evidence overall provides high confidence'.*

The overall classification included classifications for 3 Biological Quality Elements which all respond to eutrophication pressures ie macrophytes, phytobenthos and phytoplankton. Where they all pass or all fail the confidence of the result is clearly higher than when some pass and some fail.

No of BQE	No. face value classes that fail good status	No. face value classes pass good status	Confidence of Biological Impact from eutrophication 1 = Low, 2 = Medium, 3 = High, 4 = Low confidence no impact, 5 = Medium confidence no impact, 6 = High confidence no impact
2	0	2	6
2	2	0	3
2	1	1	1
3	0	3	6
3	3	0	3
3	1	2	1
3	2	1	2

The second stage of the process is to combine these confidences with the TP classification to provide an overall confidence of the likelihood of impacts from eutrophication.

TP Face Value classification	Confidence of impact in the biology						
	0	1	2	3	4	5	6
No data		1	2	2			
Bad	2	2	3	3	2	1	1
Poor	2	1	2	3	2	1	1
Moderate	2	1	2	3	2	1	1
Good		1	2	2			
High		1	2	2			

Where:

- 0 No data
- 1 Low confidence of impact
- 2 Medium confidence of impact
- 3 High confidence of impact
- 4 *Low confidence of no impact occurring*
- 5 *Medium confidence of no impact occurring*
- 6 *High confidence of no impact occurring*

Note: Where there are no figures in the matrix the overall class has been high or good status and therefore high confidence that there is no impact



*Lower Lough Erne*

## Annex 1 – List of substances in 4-year priority substances and specific pollutant monitoring programme

Parameter	Justification for inclusion	Year 1 Apr 07- Mar 08	Year 2 Apr 08- Mar 09	Year 3 Apr 09- Mar 10	Year 4 Apr10-Mar 11
Alachlor	WFD priority substance				Resources permitting
Anthracene	WFD priority hazardous substance			Yes	
Atrazine	WFD priority substance	Yes			
Benzene	WFD priority substance		Yes		
Brominated diphenylether	WFD priority hazardous substance				Yes
Cadmium and its compounds	WFD priority hazardous substance				Yes
Chloroalkanes (C10-13)	WFD priority hazardous substance				Yes
Chlorfenvinphos	WFD priority substance	Yes			
Chlorpyrifos	WFD priority substance	Yes			
1,2-dichloroethane	WFD priority substance	Yes			
Dichloromethane	WFD priority substance				Yes
DEHP	WFD priority substance			Yes	
Diuron	WFD priority substance		Yes		
Endosulphan	WFD priority hazardous substance	Yes			
Fluoranthene	WFD priority substance			Yes	
Hexachlorobenzene	WFD priority hazardous substance	Yes			
Hexachlorobutadiene	WFD priority hazardous substance	Yes			
γ-Hexachlorocyclohexane	WFD priority hazardous substance	Yes			
Isoproturon	WFD priority substance		Yes		
Lead and its compounds	WFD priority substance				Yes
Mercury and its compounds	WFD priority hazardous substance			Yes	
Napthalene	WFD priority substance			Yes	
Nickel and its compounds	WFD priority substance				Yes
Nonylphenol	WFD priority hazardous substance			Yes	
Octylphenol	WFD priority substance			Yes	
Pentachlorobenzene	WFD priority hazardous substance				Resources permitting
Pentachlorophenol	WFD priority substance		Yes		
Polyaromatic hydrocarbons	WFD priority hazardous substance			Yes	
Simazine	WFD priority substance	Yes			
Tributyltin compounds	WFD priority hazardous substance				Resources permitting
Trichlorobenzenes (all isomers)	WFD priority substance	Yes			
Trichloromethane	WFD priority substance	Yes			
Trifluralin	WFD priority substance	Yes			
DDT total	WFD other pollutant	Yes			
para-para-DDT	WFD other pollutant	Yes			
Aldrin	WFD other pollutant	Yes			
Dieldrin	WFD other pollutant	Yes			
Endrin	WFD other pollutant	Yes			
Isodrin	WFD other pollutant	Yes			
Carbon tetrachloride	WFD other pollutant	Yes			
Tetrachloroethylene	WFD other pollutant	Yes			
Trichloroethylene	WFD other pollutant	Yes			
Aluminium - reactive	UK WFD specific pollutant tranche 1				Yes
Ammonia	UK WFD specific pollutant tranche 1				Inorganic
Arsenic	UK WFD specific pollutant tranche 1				Yes
Bentazone	UK WFD specific pollutant remaining		Yes		



	list 2				
Biphenyl	UK WFD specific pollutant remaining list 2		Yes		
Boron	UK WFD specific pollutant remaining list 2				Yes
Chlorine - total available	UK WFD specific pollutant tranche 1				Inorganic
4-chloro-3-methylphenol	UK WFD specific pollutant remaining list 2		Yes		
Chloronitrotoluenes	UK WFD specific pollutant remaining list 2			Yes	
2-chlorophenol	UK WFD specific pollutant remaining list 2		Yes		
Chromium	UK WFD specific pollutant tranche 1				Yes
Copper	UK WFD specific pollutant tranche 1				Yes
Cyanide - free	UK WFD specific pollutant tranche 1				Inorganic
Cyfluthrin	UK WFD specific pollutant remaining list 2			Yes	
Cypermethrin	UK WFD specific pollutant tranche 1			Yes	
Diazinon	UK WFD specific pollutant tranche 1	Yes			
2,4-Dichlorophenol	UK WFD specific pollutant tranche 2		Yes		
2,4-D (ester and non-ester)	UK WFD specific pollutant tranche 2		Yes		
Dichlorvos	UK WFD specific pollutant remaining list 2				Yes
Dimethoate	UK WFD specific pollutant tranche 2				Yes
Fenitrothion	UK WFD specific pollutant remaining list 2	Yes			
Iron	UK WFD specific pollutant tranche 1				Yes
Linuron	UK WFD specific pollutant tranche 2		Yes		
Malathion	UK WFD specific pollutant remaining list 2	Yes			
Manganese	UK WFD specific pollutant tranche 1				Yes
Mecoprop	UK WFD specific pollutant tranche 2		Yes		
Permethrin	UK WFD specific pollutant tranche 1			Yes	
	UK WFD specific pollutant tranche 1	Yes			
Tetrachloroethane	UK WFD specific pollutant tranche 1	Yes			
Toluene	UK WFD specific pollutant tranche 1		Yes		
1,1,1-trichloroethane	UK WFD specific pollutant remaining list 2	Yes			
1,1,2-trichloroethane	UK WFD specific pollutant remaining list 2	Yes			
Triphenyltin	UK WFD specific pollutant remaining list 2				Yes
Vanadium	UK WFD specific pollutant remaining list 2				Yes
o,m,p-Xylene	UK WFD specific pollutant remaining list 2		Yes		
Zinc	UK WFD specific pollutant tranche 1				Yes
Glyphosate	N.I. High Concern Substance		Yes		
MCPA	N.I. High Concern Substance		Yes		
Mevinphos	N.I. High Concern Substance	Yes			
Mancozeb (ethylene Bis dithiocarbamate)	N.I. High Concern Substance				Resources permitting
17b Oestradiol	N.I. High Concern Substance/tranche 3				Yes
17α Ethinyloestradiol	N.I. High Concern Substance/tranche 3				Yes
Oestrone	Tranche 3				Yes
Bromoxynil	N.I. Candidate Specific Pollutant				Yes
Carbendazim (Benzimidazolylcarbamate Fungicide)	N.I. Candidate Specific Pollutant		Yes		
Carbofuran	N.I. Candidate Specific Pollutant		Yes		
Chloroprotham (Carbamate)	N.I. Candidate Specific Pollutant				Yes
Dichlobenil	N.I. Candidate Specific Pollutant				Yes

Maneb (ethylene Bis dithiocarbamate)	N.I. Candidate Specific Pollutant				Resources permitting
Perfluorooctane Sulphonate	N.I. Candidate Specific Pollutant				Yes
Primicarb	N.I. Candidate Specific Pollutant				Yes
Propazine	N.I. Candidate Specific Pollutant	Yes			
Triazaphos	N.I. Candidate Specific Pollutant	Yes			
Triclosan	N.I. Candidate Specific Pollutant		Yes		
Butylbenzylphthalate	Detected ROI Screening			Yes	
1,1-dichloroethene	Detected ROI Screening	Yes			
Di-n-butylphthalate	Detected ROI Screening			Yes	
Trichlorophenols	Detected ROI Screening		Yes		
Uranium	Detected ROI Screening				Yes
Dibutyl tin	N.I. Candidate Specific Pollutant				Yes
acenaphthene	Water Service WWTW monitored substance			Yes	
Fluorene	Water Service WWTW monitored substance			Yes	
PCBs	Water Service WWTW monitored substance	Yes			
Phenanthrene	Water Service WWTW monitored substance			Yes	
Chlormequat	DARD Pesticide Usage Reports		Yes		
Mecoprop-P	DARD Pesticide Usage Reports				Yes
Fluroxypyr	DARD Pesticide Usage Reports		Yes		
Triclopyr	DARD Pesticide Usage Reports		Yes		
Total	Total	33	23	17	37

## Annex 2 – Details of how river water bodies are classified

### North Eastern River Basin District

Water Body code	Station Code	Station location	How classified
GBNI1NE040401044	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE040403011	F11211	BALLYGALLY BURN AT CARNCastle ROAD BRIDGE	Classify (opened 2008)
GBNI1NE040403012	F10479	GLENARM R AT GLENARM	Classify from this station
GBNI1NE040403014	F10473	GLENSHESK R AT B15 ROAD BR	Classify using F10473 upstream
GBNI1NE040403015	F10457	OWENNAGLUSH R AT OWENNAGLUSH BR	Average with others
	F10459	CLYTTAGHAN BURN AT DRUMADION	Average with others
	F10460	GLENCORP FEEDER AT DUNOURAGAN	Average with others
	F10465	BEAGHS BURN AT BEAGHS BR	Average with others
	F10471	CLADY BURN AT KNOCKNACROW BR	Average with others
	F11184	CLADY BURN AT CLADY BR (BIOL ONLY)	Average with others (opened 2008)
	F10475	GLENDUN R AT KNOCKNACARRY BR	Average with others
GBNI1NE040403016	F10466	CAREY R AT TORTEIGE	Classify from this station
GBNI1NE040403017	F10467	GLENMAKEERAN R AT DRUMNAKEEL BR	Classify from this station
GBNI1NE040403018	F10474	CAREY R AT CAREYMILL BR	Classify from this station
GBNI1NE040403024	F10982	GLENAAN R AT CLOGHS BR	Classify from this station
GBNI1NE040403025	F10476	GLENAAN R (DALL) AT CUSHENDALL BR	Classify from this station
GBNI1NE040403026	F10458	BALLYEMON R AT CLOGHS UPPER	Classify Chemistry and average with F11203 for biology
	F11203	BALLYEMON R AT BLACKSMITH COTTAGE LANE (BIOL ONLY)	Average with F10458 for biology
GBNI1NE040403027	F10477	GLENARIFF R AT CALLISNAGH BR	Classify from this station
GBNI1NE040403033	F10472	TOW R NEAR OLD GASWORKS (CHEM ONLY)	Classify for Chemistry
	F11185	TOW R AT 32 MILL STREET (BIOL ONLY)	Classify for Biology (opened 2008)
GBNI1NE040403034	F11212	DUNSEVERICK RIVER AT DUNSEVERICK BR	Classify (opened 2008)
GBNI1NE040403039	F10468	OWENCAM R AT SLAGHT	Risk Assess (21% catchment)
	F10473	GLENSHESK R AT B15 ROAD BR	Classify from this station
GBNI1NE040403045	F10470	OWENCLOGHY WATER AT MILL BR	Classify from this station
GBNI1NE040403048	F10479	GLENARM R AT GLENARM	Classify using F10479 downstream
GBNI1NE040403052	F10464	GLENDUN R AT CROCKAN	Classify from this station
GBNI1NE040403060	F10463	CARNLOUGH R AT DRUMNAHOE	Classify from this station
GBNI1NE040403061	F10478	GLENCLOY R AT GLENCLOY BR	Classify from this station
GBNI1NE040403062	F10469	ESSATHOHAN BURN AT PARKMORE	Classify from this station
GBNI1NE040403064	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments

GBNI1NE040404001	F10452	BUSH R AT CONOGHER BR	Classify using F10452 downstream
GBNI1NE040404002	F10455	DERVOCK R AT DERVOCK BR	Classify using F10455 downstream
GBNI1NE040404003	F10456	DOUGHERY WATER AT IDEROWN BR	Classify from this station
GBNI1NE040404004	F10445	DERVOCK R TRIBUTARY AT DERVOCK	Average with F10455
	F10455	DERVOCK R AT DERVOCK BR	Average with F10445
GBNI1NE040404035	F10442	MOSS-SIDE WATER AT GORTANUEY BR	Classify from this station
GBNI1NE040404036	F10444	LISCOLMAN FEEDER AT BALLYMACFIN	Classify from this station
GBNI1NE040404037	F10456	DOUGHERY WATER AT IDEROWN BR	Classify using F10456 downstream
GBNI1NE040404038	F10448	WELL WATER AT TURNAROBERT	Classify from this station
GBNI1NE040404040	F10456	DOUGHERY WATER AT IDEROWN BR	Classify using F10456 downstream
	F10456	DOUGHERY WATER AT IDEROWN BR	Risk Assess (2.4% catchment)
GBNI1NE040404042	F10446	BUSH R TRIBUTARY AT WALK MILL	Classify from this station
	F10449	BUSH R AT BUSHMILLS NEW BR	Classify from this station
	F10452	BUSH R AT CONOGHER BR	Risk Assess
GBNI1NE040404049	F10454	BUSH R AT BALLYHOE BR	Classify from this station
GBNI1NE040404050	F10443	FLESK WATER AT FLESK BR	Classify from this station
GBNI1NE040404051	F10452	BUSH R AT CONOGHER BR	Classify using F10452 downstream
GBNI1NE040404053	F10447	BURN GUSHET R AT BALLYBOGY	Classify from this station
GBNI1NE040404054	F10451	BURN GUSHET R AT BURN GUSHET BR	Classify from this station
GBNI1NE040404055	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE040405046	F10552	GLENOE WATER AT GLENOE	Risk Assess
	F10553	DUNISLAND WATER AT RUNGILL	Risk Assess (26.9% catchment)
	F10556	GLYNN R AT GLYNN	Classify from this station
GBNI1NE040405047	F10551	LARNE R AT BALLYRICKARD BR	Risk Assess
	F10554	LARNE R AT ROCK FILLING STATION	Risk Assess
	F10555	LARNE R AT OWENS BR	Classify from this station
GBNI1NE050501004	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE050501082	F10557	KILROOT R AT KILROOT	Classify from this station
GBNI1NE050501118	F10560	THREE MILE WATER AT GLENAVNA HOTEL	Classify from this station
GBNI1NE050501120	F10559	WOODBURN R AT COURTALDS FACTORY	Classify from this station
GBNI1NE050502083	F10576	CRAWFORDSBURN R AT C'BURN COUNTRY PARK	Classify from this station
GBNI1NE050502084	F10573	BALLYHOLME BAY STREAM/COTTON R AT COTTON BR	Average with F10574 for Biology
	F10574	BALLYHOLME BAY STREAM/COTTON R AT BALLYHOLME BR	Classify Chemistry and average with 10573 for Biology
GBNI1NE050503001	WNEHIL1	HILLSBOROUGH WWTW	Classify from Pressures and Impacts assessments
GBNI1NE050503002	F10871	FORTH RIVER AT BEECHMOUNT AVENUE	Classify using F10871 and F10494 upstream
	F10494	BLACKSTAFF RIVER (BELFAST) AT B'MORAL STMWASH, BOUCHER	Classify using F10871 and F10494 upstream
GBNI1NE050503003	F10494	BLACKSTAFF RIVER (BELFAST) AT B'MORAL STMWASH, BOUCHER	Classify (reopened 2008)

GBNI1NE050503046	F10530	LAGAN R AT BULLS BROOK	Classify from this station
GBNI1NE050503047	F10481	BALLYLINTAGH BURN AT B178 ROAD BR	Risk Assess (catchment 7.6%)
	F10531	RAVERNET R AT SPRUCEFIELD	Classify for Chemistry
	F10532	RAVERNET R AT LEGACURRY BR	Classify for Biology
GBNI1NE050503048	F10483	BEGNY HILL FEEDER AT DERRYBURN BR	Risk Assess (catchment 6.3%)
	F10488	UPPER LAGAN AT LARCH HILL	Classify from this station
GBNI1NE050503070	F10531	RAVERNET R AT SPRUCEFIELD	Average with F10532
	F10532	RAVERNET R AT LEGACURRY BR	Average with F10531
GBNI1NE050503071	F10531	RAVERNET R AT SPRUCEFIELD	Average with F10532
	F10532	RAVERNET R AT LEGACURRY BR	Average with F10531
GBNI1NE050503087	F10579	CONNSWATER AT CON O'NEILL BRIDGE	Classify from this station
GBNI1NE050503088	F10513	MINNOWBURN AT MINNOWBURN BEECHES	Classify from this station
GBNI1NE050503096	F10486	UPPER LAGAN AT DROMARA	Classify from this station
GBNI1NE050503098	F10485	SCALLION HILL FEEDER AT BEECH HALL	Risk Assess (catchment 16.2%)
	F10487	EEL BURN R (LAGAN) AT GLENLAGAN	Classify from this station
GBNI1NE050503101	F10527	LAGAN R AT BANOGE BR	Classify for Biology
	F10529	LAGAN R AT DROMORE	Average with F10527 for Chemistry
GBNI1NE050503102	F10526	LAGAN R AT FORGE BR, MAGHERALIN	Classify from this station
GBNI1NE050503103	F10480	KNOCKMORE BURN AT KNOCKMORE	Risk Assess (catchment 3.6%)
	F10522	LAGAN R AT MOORES BR	Average with F10523 for Chemistry
	F10523	LAGAN R AT YOUNGS BR	Classify for Biology
GBNI1NE050503104	F10518	DERRIAGHY RIVER AT KINGSWAY	Classify from this station
GBNI1NE050503105	F10484	EDENORDINARY STREAM AT DRUMSKEE HOUSE	Classify from this station
GBNI1NE050503106	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE050503107	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE050503108	F10482	DRUMBEG STREAM AT DRUMBEG	Risk Assess (catchment 1.8%)
	F10511	LAGAN R AT STRANMILLIS	Average with F10512 & F10519 for Chemistry
	F10512	LAGAN R AT SHAWS BR	Average with F10512 for Biology
	F10519	LAGAN R AT WOLFENDENS BR	Average with others
GBNI1NE050503117	F10517	COLIN GLEN RIVER AT STEWARTSTOWN ROAD	Classify from this station
GBNI1NE050503119	F10871	FORTH RIVER AT BEECHMOUNT AVENUE	Classify from this station
GBNI1NE050504006	F11216	BALLYMORRAN BURN AT ISLANDVIEW ROAD BRIDGE	Classify (Opened 2008)
GBNI1NE050504009	F11179	DIBNEY RIVER AT JERICHO ROAD BRIDGE	Classify (Opened 2008)
GBNI1NE050504010	F11217	BLACK CAUSEWAY STRANGFORD OFF BLACK CAUSEWAY ROAD	Classify (Opened 2008)
GBNI1NE050504011	F10546	GLASSWATER R AT KILMORE	Classify from this station
GBNI1NE050504012	F10546	GLASSWATER R AT KILMORE	Classify using F10546 downstream
GBNI1NE050504020	F10550	ENLER R AT KENNEL BR	Classify from this station

GBNI1NE050504021	F10572	MILL BURN (ARDS) AT MILLISLE (B172 ROAD BR)	Classify for Biology
GBNI1NE050504022	F10575	BLACKSTAFF (ARDS) R AT BLACKSTAFF BR	Classify from this station
GBNI1NE050504023	F10571	COMBER TRIBUTARY AT CAMP HILL	Classify for Biology
GBNI1NE050504031	F11213	GANAWAY BURN AT GANAWAY BRIDGE	Classify from this station (opened 2008)
GBNI1NE050504050	F10535	ANNACLOY R FEEDER STREAM AT ROSSCONOR	Risk Assess (catchment 3.5%)
	F10542	ANNACLOY R AT ANNACLOY BR	Classify from this station
GBNI1NE050504051	F10541	QUOILE R AT QUOILE BR	Classify for Chemistry
GBNI1NE050504053	F10537	LOWER McAULEYS LAKE FEEDER AT THOMPSONS BR	Classify from this station
GBNI1NE050504055	F10539	POUND BURN U/S OF BALLYCRUNE LOUGH	Classify from this station
GBNI1NE050504056	F10538	BALLYKINE FEEDER STREAM AT LAUREL LODGE	Risk Assess (catchment 9.0%)
	F10540	ANNAHILT FEEDER AT ANNAHILT	Risk Assess (catchment 9.7%)
	F10545	BALLYNAHINCH RIVER AT CASEYS BR	Classify from this station
	WNEBAL1	BALLYNAHINCH WWTW	Risk Assess
GBNI1NE050504057	F10547	BALLINREE BURN AT BALLOO CROSSROADS	Risk Assess (catchment 12%)
	F10548	BLACKWATER (ARDS) R AT BALLYMARTIN ROAD BR	Classify from this station
GBNI1NE050504058	F10604	BALLYARNET BURN AT MILL QUARTER BAY	Classify from this station
GBNI1NE050504064	F10546	GLASSWATER R AT KILMORE	Classify using F10546 downstream
GBNI1NE050504065	F10534	BALLYNAHINCH FEEDER AT LISTOODER	Classify from this station
GBNI1NE050504066	F10533	DRUMANESS TRIBUTARY U/S OF DRUMANESS	Classify from this station
GBNI1NE050504074	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NE050504080	F10550	ENLER R AT KENNEL BR	Classify using F10550 downstream
GBNI1NE050504081	F10549	BALLYSTOCKART R AT A22 ROAD BR	Classify from this station
GBNI1NE050504085	F11254	CULLY BURN D/S OF BIRD SANCTUARY PONDS	Classify (opened 2008)
GBNI1NE050504086	F10577	CUNNING BURN AT BALLYEWRY	Classify from this station
GBNI1NE050505035	F11255	TULLYBRANIGAN RIVER BRIDGE AT RIVERSIDE COTTAGE	Classify (opened 2008)
GBNI1NE050505036	F10639	ANNALONG R AT ANNALONG BR	Classify from this station
GBNI1NE050505037	F10603	BALLYVIGGIS STREAM AT BRIMSTONE BraE	Classify using F10603 upstream
GBNI1NE050505044	F10633	MULLAGH R AT MULLAGH BR	Classify from this station
GBNI1NE050505052	F10606	BLACKSTAFF (SOUTH DOWN) R AT TULLYMURRY BR	Classify using F10606 downstream
GBNI1NE050505059	F10602	MONEYCARRAGH FEEDER AT B175 ROAD BR	Classify from this station
GBNI1NE050505060	F10607	ARDILEA R AT A2 ROAD BR	Classify from this station
GBNI1NE050505061	F10606	BLACKSTAFF (SOUTH DOWN) R AT TULLYMURRY BR	Classify from this station
GBNI1NE050505062	F10605	RATHMULLAN BURN AT MINERSTOWN	Classify for Biology
GBNI1NE050505063	F10608	MONEYCARRAGH R AT MONEYLANE	Classify from this station
GBNI1NE050505067	F10608	MONEYCARRAGH R AT MONEYLANE	Classify using F10608 downstream
GBNI1NE050505068	F11214	KILLOUGH RIVER AT LURGAN BRIDGE	Classify (opened 2008)
GBNI1NE050505069	F10603	BALLYVIGGIS STREAM AT BRIMSTONE BRAE	Classify from this station



GBNI1NE050505097	F10641	AUGHRIM R AT KILKEEL	Classify from this station
GBNI1NE050505110	F10628	TRASSEY R AT TRASSEY BR	Risk Assess (catchment 16%)
	F10636	SHIMNA R AT IVY BR, TOLLYMORE FOREST	Classify from this station
GBNI1NE050505111	F10635	BURREN R AT BAILEYS BR	Classify from this station
GBNI1NE050505113	F10609	CARRIGS R AT MAGHERA BR	Classify from this station
GBNI1NE050505114	F10640	KILKEEL R AT A2 ROAD BR, KILKEEL	Average with F10981
	F10981	BEN CROM STREAM ABOVE SILENT VALLEY	Average with F10640

## Neagh Bann River Basin District

Water Body code	Station Code	Station location	How classified
GBNI1NB030301064	F10436	AGIVEY R AT MONEYCARRIE BR	Classify for Biology from F10436 upstream
	F10913	AGIVEY RIVER AT BRICKHILL BRIDGE	Classify for Chemistry
GBNI1NB030301065	F10432	BALLYMONEY R AT GLENSTALL BR	Classify from this station
GBNI1NB030301066	F10436	AGIVEY R AT MONEYCARRIE BR	Classify from this station
GBNI1NB030301068	F10406	INVERROE WATER AT THE MEEN (A54 ROAD BR)	Classify from this station
GBNI1NB030301069	F10403	DUNGLADY R AT DUNGLADY FORT	Risk Assess (catchment 18%)
	F10405	KNOCKONEILL R AT BEAGH PICNIC AREA	Classify for Biology
	F10915	KNOCKONEILL RIVER AT DUNGLADY BRIDGE	Classify for Chemistry
GBNI1NB030301070	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030301071	F11209	BANN BROOK AT BANNBROOK BRIDGE	Classify (New 2008)
GBNI1NB030301072	F10419	MAYOGHILL R AT CAHENY BR	Classify from this station
GBNI1NB030301073	F10434	MACOSQUIN R AT REE BR	Classify from this station
GBNI1NB030301074	F10434	MACOSQUIN R AT REE BR	Classify using F10434 downstream
GBNI1NB030301075	F10914	AGIVEY RIVER AT ERRIGAL BRIDGE	Classify from this station
GBNI1NB030301076	F10407	SHINNY WATER AT CROSSGARE BR	Classify for Biology
GBNI1NB030301077	F10434	MACOSQUIN R AT REE BR	Classify using F10434 downstream
GBNI1NB030301078	F10438	CLADY R AT GLENONE BR	Classify from this station
GBNI1NB030301079	F10438	CLADY R AT GLENONE BR	Classify using F10438 downstream
GBNI1NB030301080	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030301081	F10404	GRILLAGH R AT CURDIAN BR	Classify from this station
GBNI1NB030301146	F10433	BALLYMONEY R AT BALLYMENA ROAD BR	Classify using F10433 downstream
	F10413	CALDANAGH BURN AT GREENVILLE BR	Risk Assess (catchment 18.1%)
GBNI1NB030301147	F10414	DRUMAWHISKEY R AT DRUMAWHISKEY BR	Classify from this station
GBNI1NB030301149	F10408	BRACKNAMUCKLEY BURN AT MILLTOWN	Risk Assess (catchment 0.2%)
	F10422	NEELYS HILL FEEDER AT CULNAFAY HOUSE	Risk Assess (catchment 0.1%)
	F10425	BALLYDONNELLY TRIBUTARY AT GORTEREGHY BR	Risk Assess (catchment 0.3%)
	F10429	LOWER BANN AT KILREA BR	Average with F10430
	F10430	LOWER BANN AT PORTGLENONE	Average with F10429
GBNI1NB030301152	F10421	MULLAGHARDRY POINT STREAM AT MULLAGHARDRY	Classify for Biology
GBNI1NB030301153	F10420	DOORISH POINT STREAM AT DRUMRAYMOND	Classify from this station
GBNI1NB030301155	F10404	GRILLAGH R AT CURDIAN BR	Classify using F10404 downstream
GBNI1NB030301163	F10424	IVY BURN AT ROCK COTTAGE	Classify for Biology
GBNI1NB030301166	F10417	CULMORE R AT GORTCLANNY	Classify from this station
GBNI1NB030301169	F10410	SCAB ISLAND STREAM AT ANNAGH	Risk Assess (catchment 0.3%)
	F10431	LOWER BANN AT TOOME BR	Classify from this station

GBNI1NB030301211	F10409	BRECKAGH BURN AT BRECKAGH BR	Classify from this station
GBNI1NB030301213	F10418	AGHADOWEY R AT GORRAN BR	Average with others
	F10423	CAM BURN AT CRAIGMORE ROAD BR	Average with others
	F10437	AGHADOWEY R AT WHITE BRIDGES	Average with others
	F10916	AGHADOWEY RIVER AT AGIVEY BRIDGE	Average with others
GBNI1NB030301214	F10415	ARTIGORAN TRIBUTARY AT ARTIGORAN	Risk Assess (catchment 0.2%)
	F10427	LOWER BANN AT THE CUTS	Classify from this station
GBNI1NB030301215	F10411	AGIVEY R AT GLEN ULLIN	Classify from this station
GBNI1NB030301216	F10914	AGIVER RIVER AT ERRIGAL BRIDGE	Classify using F10914 downstream
GBNI1NB030301219	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030301220	F10413	CALDANAGH BURN AT GREENVILLE BR	Risk Assess (catchment 18.1%)
	F10433	BALLYMONEY R AT BALLYMENA ROAD BR	Average with F10432
	F10432	BALLYMONEY R AT GLENSTALL BR	Average with F10433
GBNI1NB030301221	F10416	ARTICLAVE R AT ARDINA BR	Classify from this station
GBNI1NB030301222	F10412	DUNDOOAN FEEDER AT MARINA, PORTSTEWART RD	Classify for Biology
GBNI1NB030301223	F11210	BALLYVERSAL STREAM AT CIRCULAR ROAD BRIDGE	Classify (New 2008)
GBNI1NB030301224	F10898	METTICAN RIVER AT METTICAN BRIDGE	Classify from this station
GBNI1NB030301225	F10434	MACOSQUIN R AT REE BR	Classify using F10434 downstream
GBNI1NB030301230	F10404	GRILLAGH R AT CURDIAN BR	Classify using F10404 downstream
GBNI1NB030302010	F10218	BRAID R AT HARRYVILLE BR	Average with F10219
	F10219	BRAID R AT KNOCKAN BR	Average with F10218
GBNI1NB030302011	F10220	CLOGH R AT GLARRYFORD BR	Classify using F10220 downstream
	F10186	LEGNAGOLLY BURN AT LEGNAGOLLY BR	Risk Assess (catchment 7.8%)
	F10211	TULLYKITTAGH WATER AT TULLYKITTAGH BR	Risk Assess (catchment 7.1%)
GBNI1NB030302013	F10214	MAIN R AT DUNDERMOT BR	Classify using F10214 downstream
GBNI1NB030302014	F10215	KELLSWATER R AT CURRYS BR	Classify from this station
	F10203	ROSS BURN AT ROSS BRIDGE	Risk Assess (catchment 7.3%)
	F10194	CONNOR BURN AT CONNOR ENCLOSURE	Risk Assess (catchment 6.3%)
GBNI1NB030302015	F10189	BRAID R AT AGHACULLY BR	Classify from this station
GBNI1NB030302016	F10188	PRIESTS BURN AT BRECKAGH BR	Classify from this station
GBNI1NB030302017	F10210	DEERFIN BURN AT HARRYVILLE	Classify from this station
GBNI1NB030302018	F10217	BRAID R AT TULLAGHGARLEY BR	Average with F10218
	F10218	BRAID R AT HARRYVILLE BR	Average with F10217
GBNI1NB030302019	F10220	CLOGH R AT GLARRYFORD BR	Classify from this station
GBNI1NB030302020	F10219	BRAID R AT KNOCKAN BR	Average with others
	F10196	CREEVAMOY BURN AT CREEVAMOY BR	Average with others
	F10200	CASHEL BURN (BRAID) AT DOWNSTREAM BR	Average with others
GBNI1NB030302021	F10197	DEVENAGH BURN AT DEVENAGH BR	Classify from this station
GBNI1NB030302022	F10187	ARTOGES R AT GREEN BR	Classify from this station

GBNI1NB030302023	F10188	PRIESTS BURN AT BRECKAGH BR	Average with F10189
GBNI1NB030302023	F10189	BRAID R AT AGHACULLY BR	Average with F10188
GBNI1NB030302024	F10214	MAIN R AT DUNDERMOT BR	Classify from this station
GBNI1NB030302148	F10214	MAIN R AT DUNDERMOT BR	Classify using F10214 downstream
GBNI1NB030302150	F10212	MAIN R AT DUNMORE BR	Classify from this station
GBNI1NB030302156	F10214	MAIN R AT DUNDERMOT BR	Average with F10199
	F10199	DAMSTOWN BURN AT DAMSTOWN BR	Average with F10214
GBNI1NB030302157	F10207	AGHILL BURN AT CRAIGS BR	Classify from this station
GBNI1NB030302158	F10213	MAIN R AT GRACEHILL BR	Classify from this station
GBNI1NB030302159	F10209	AHOUGHILL BURN AT KILLYBEGS BR	Classify from this station
GBNI1NB030302160	F10212	MAIN R AT DUNAMORE BR	Classify from this station
	F10205	ASHFIELD BURN AT BUNKERS HILL	Risk Assess (catchment 0.9%)
	F10206	PARISH BURN AT CLARKESTOWN	Risk Assess (catchment 1.3%)
GBNI1NB030302161	F10201	CLATTERYKNOWES BURN AT SHANK BR	Risk Assess (catchment 5.1%)
	F10216	KELLSWATER R AT ROCK BR	Classify from this station
GBNI1NB030302164	F10204	SHARVOGUES BURN AT SHARVOGUES	Classify from this station
GBNI1NB030302165	F10198	DUNNSTOWN BURN AT DUNNSTOWN	Classify from this station
GBNI1NB030302168	F10194	CONNOR BURN AT CONNOR ENCLOSURE	Classify from this station
GBNI1NB030302199	F10208	GLENWHIRRY R AT PIGTAIL BR	Classify using F10208 downstream
GBNI1NB030302201	F10208	GLENWHIRRY R AT PIGTAIL BR	Classify from this station
GBNI1NB030302212	F10202	KILLAGAN R AT KILLAGAN BR	Classify from this station
GBNI1NB030302231	F10189	BRAID R AT AGHACULLY BR	Classify using F10189 downstream
GBNI1NB030302232	F10189	BRAID R AT AGHACULLY BR	Classify using F10189 downstream
GBNI1NB030302233	F10193	GLENRAVEL R AT CARROWCOWAN BR	Classify from this station
GBNI1NB030302234	F10191	CLOGHMILLS WATER AT CLOGH MILLS	Classify from this station
GBNI1NB030302235	F10195	DOUGLAS BURN (GLENWHIRRY) AT LYNNS BR	Classify from this station
GBNI1NB030302236	F10190	GLEN BURN AT BUCKNA BR	Classify from this station
GBNI1NB030302237	F10192	SKERRY WATER AT CRAIGDUNLOOF	Classify from this station
GBNI1NB030303002	F10373	ALTAGOAN R AT BANTY BR	Classify from this station
GBNI1NB030303003	F10376	MOYOLA R AT MOYKEERAN	Classify using F10376 downstream
GBNI1NB030303004	F10379	KEENAGHT WATER AT DESERTMARTIN	Classify from this station
GBNI1NB030303005	F10375	WHITEWATER (MOYOLA) AT WHITEWATER BR	Classify from this station
GBNI1NB030303006	F10376	MOYOLA R AT MOYKEERAN	Classify from this station
GBNI1NB030303007	F10383	GRANGE WATER AT CURRAN	Classify using F10383 downstream
GBNI1NB030303008	F10383	GRANGE WATER AT CURRAN	Classify from this station
GBNI1NB030303009	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030303139	F10383	GRANGE WATER AT CURRAN	Average with F10371
	F10371	LUNEY WATER AT LUNEY BR	Average with F10383
GBNI1NB030303143	F10383	GRANGE WATER AT CURRAN	Classify using F10383 downstream

GBNI1NB030303144	F10382	MAGHERAFELT BURN AT GRANIAS BR	Classify from this station
GBNI1NB030303154	F10372	BURNBURNLEY AT B18 ROAD BR	Risk Assess (catchment 2.7%)
	F10380	MOYOLA R AT MOYOLA NEW BR	Classify from this station
	WNBMA2	MAGHERAFELT WWTW (NEW OUTFALL)	Risk Assess
GBNI1NB030303167	F10384	BACK BURN (MOYOLA) AT WIDOW STEELES BR	Classify from this station
GBNI1NB030303210	F10378	GLENGOMNA WATER AT GLENGOMNA BR	Classify from this station
GBNI1NB030303226	F10370	MILLTOWN BURN (MOYOLA) AT A29 ROAD BR	Classify from this station
GBNI1NB030303227	F10377	DOUGLAS R AT BOHERADAILE BR	Classify from this station
GBNI1NB030303228	F10381	MOYOLA R AT FORTWILLIAM BR	Classify from this station
GBNI1NB030303241	F10374	MOYOLA R AT LABBY FORD	Classify from this station
GBNI1NB030304053	F10364	BALLINDERRY R AT CORKILL BR	Classify from this station
GBNI1NB030304054	F10352	KILDRESS STREAM AT A505 ROAD BR	Classify from this station
GBNI1NB030304055	F10360	COOLMAGHRY TRIBUTARY AT TULNAGALL BR	Classify from this station
GBNI1NB030304056	F10351	DRUMARD STREAM AT A505 ROAD BR	Classify from this station
GBNI1NB030304057	F10353	BALLYMULLY R TRIBUTARY AT THE NOOK	Classify from this station
GBNI1NB030304058	F10363	BALLINDERRY R AT KINGS BR	Classify for Chemistry
	F10362	BALLINDERRY R AT DOORLESS NEW BR	Classify for Biology and average with F10363 for chemistry
	WNBCCO1	COOKSTOWN WWTW	Risk Assess
GBNI1NB030304059	F10904	LISSAN WATER AT LITTLE BRIDGE	Classify from this station
	F10905	LISSAN WATER AT FLOOD LODGE FOOTBRIDGE	Classify from this station
GBNI1NB030304060	F10363	BALLINDERRY R AT KINGS BR	Classify for Chemistry
	F10362	BALLINDERRY AT DOORLESS NEW BR	Classify for D174Biology
	WNBCCO1	COOKSTOWN WWTW	Risk Assess
GBNI1NB030304061	F10368	KILLYMOON R AT PRINCE OF WALES BR	Classify from this station
GBNI1NB030304062	F10359	GORTIN WATER (BALLINDERRY) AT GORTIN BR	Classify from this station
GBNI1NB030304063	F10362	BALLINDERRY R AT DOORLESS NEW BR	Classify from this station
GBNI1NB030304097	F10356	CLAGGAN R AT LISNANANE BR	Classify from this station
GBNI1NB030304133	F10357	BALLYMULLY R AT A29 ROAD BR	Classify from this station
GBNI1NB030304134	F10367	BALLYMULLY R AT BALLYGONNY BR	Classify from this station
GBNI1NB030304134	WNBMON1	MONEYMORE WWTW	Risk Assess
GBNI1NB030304135	F10366	LISSAN WATER AT DRUMGRASS BR	Average with F10904
	F10904	LISSAN WATER AT LITTLE BRIDGE	Average with F10366
GBNI1NB030304136	F10361	BALLINDERRY R AT BALLINDERRY BR	Classify from this station
GBNI1NB030304137	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030304138	F10350	KINGSMILL STREAM AT KINGSMILL	Classify from this station
GBNI1NB030304176	F10358	TULNACROSS TRIBUTARY AT BEECH GROVE	Classify from this station
GBNI1NB030304177	F10354	ROUGH HILL STREAM AT BALLYNAKILLY	Risk Assess (catchment 18.4%)
	F10369	ROCK R AT BALLYNAKILLY BR	Classify from this station

GBNI1NB030304178	F10360	COOLMAGHRY TRIBUTARY AT TULNAGALL BR	Classify using F10360 downstream
GBNI1NB030304179	F10360	COOLMAGHRY TRIBUTARY AT TULNAGALL BR	Classify using F10360 downstream
GBNI1NB030304181	F10355	TULLYARAN TRIBUTARY AT TULNAGALL BR	Classify from this station
GBNI1NB030304240	F10978	BALLINDERRY R AT DUNAMORE BR	Classify from this station
GBNI1NB030305001	F10241	DOAGH R AT DOAGH	Classify from this station
GBNI1NB030305121	F10227	DOAGH R TRIBUTARY AT DIXONS CORNER	Average with F10242
	F10242	DOAGH R AT DUNAMOY	Average with F10227
GBNI1NB030305122	F10233	SIX MILE WATER AT CASTLE FARM BR, ANTRIM	Average with F10235
	F10235	SIX MILE WATER AT SIXMILEWATER BR	Average with F10233
GBNI1NB030305124	F10229	RATHMORE BURN TRIBUTARY AT BURNSIDE	Average with F10234
	F10234	RATHMORE BURN AT RATHMORE BR	Average with F10229
GBNI1NB030305128	F10236	FOUR MILE BURN AT FIFTY ACRES	Classify from this station
GBNI1NB030305162	F10224	PLASKETS FEEDER AT KILBEGS	Average with F10232
	F10232	HOLYWELL BURN AT DUNSILLY	Average with F10224
GBNI1NB030305202	F10231	SIX MILE WATER AT BALLYBOLEY BR	Classify from this station
GBNI1NB030305203	F10222	CASTLE WATER AT HILLIS BR	Average with F10228
	F10228	CASTLE WATER AT CASTLETOWN	Average with F10222
GBNI1NB030305204	F10221	BALLYLINNY BURN AT MILLTOWN BR	Risk Assess (catchment 11.7%)
	F10223	GREEN BURN AT MILLVALE	Average with F10238
	F10238	SIX MILE WATER BELOW BALLYCLARE	Average with F10223
	WNBAL1	BALLYCLARE WWTW	Risk Assess
GBNI1NB030305205	F10230	LISNALINCHY BURN AT BALLYWALTER BR	Classify from this station
GBNI1NB030305206	F10225	BALLYMARTIN WATER FEEDER AT CRAIGAROGAN	Risk Assess (catchment 15.0%)
	F10226	BALLYMARTIN WATER AT MALLUSK	Average with F10240
	F10240	BALLYMARTIN WATER AT BALLYMARTIN WATER BR	Average with F10226
	WH13	WHITEHOUSE STREAMS	Risk Assess
	WH14	WHITEHOUSE STREAMS	Risk Assess
GBNI1NB030305207	F10239	CLADY WATER AT DUNADRY ROAD BR	Classify from this station
GBNI1NB030306082	F10249	GLENNAVY R AT BALLYDONAGHY BR	Classify from this station
GBNI1NB030306083	F10246	RUSHYHILL R AT LEATHEMSTOWN	Average with F10247
	F10247	STONYFORD R AT THE Y BR	Average with F10246
GBNI1NB030306084	F10248	GLENNAVY R AT LEAP BR	Classify from this station
	F10249	GLENNAVY R AT BALLYDONAGHY BR	Risk Assess (catchment 80.1%)
GBNI1NB030306085	F10392	ROOGHAN R AT B12 ROAD BR	Risk Assess (catchment 49.5%)
	F10393	CREW BURN AT CARROLS BR	Classify from this station
GBNI1NB030306087	F10244	CRUMLIN R AT CIDER COURT BR	Classify from this station
	F10441	DUNDESERT R AT DUNDESERT GOSPEL HALL	Risk Assess (catchment 19.4%)
GBNI1NB030306125	F10441	DUNDESERT R AT DUNDESERT GOSPEL HALL	Classify from this station
GBNI1NB030306126	F10245	CRUMLIN R AT AIRPORT ROAD BR	Classify from this station

	F10439	COOPERS WATER AT BOOMERS BR	Risk Assess (catchment 22.5%)
	F10440	CRUMLIN R AT THOMPSONS BR	Risk Assess (catchment 31.4%)
GBNI1NB030306127	F10396	DUNORE R AT UPPER BR	Classify from this station
GBNI1NB030306131	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030306140	F10385	MOURNEVIEW STREAM AT DOWNSTREAM BR	Classify from this station
GBNI1NB030306141	F10386	SALTERSTOWN R AT SALTERSTOWN	Classify from this station
GBNI1NB030306142	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030306192	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030306193	F10387	BALLINDERRY (ANTRIM) R AT DRUMART BR	Classify from this station
GBNI1NB030306194	F10390	AGHALEE BURN AT USSHERS BR	Classify from this station
GBNI1NB030306195	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030306198	F10440	CRUMLIN R AT THOMPSONS BR	Classify from this station
GBNI1NB030306208	F10388	CLUNTOE STREAM AT STANIERDS POINT	Classify individual river length
	F10389	BALLYRONAN STREAM AT BALLYRONAN	Classify individual river length
	F10391	MILL BURN (ANTRIM) AT MILLTOWN	Classify individual river length
	F10394	DUCKING STOOL R AT BALLYBEG	Classify individual river length
	F10397	BLACK BURN AT MOUNT COTTAGE	Classify individual river length
GBNI1NB030307025	D1	DUNGANNON STREAMS	Risk Assess
	D2	DUNGANNON STREAMS	Risk Assess
	D3	DUNGANNON STREAMS	Risk Assess
	D7	DUNGANNON STREAMS	Risk Assess
	D8	DUNGANNON STREAMS	Risk Assess
	WNBMOY1	MOYGASHEL WWTW	Risk Assess
GBNI1NB030307026	F10324	CASTLE DILLON LAKE TRIB AT BALLYGASSY ROAD BR	Risk Assess (catchment 5.4%)
	F10343	CALLAN R AT DERRYSOLLOP	Classify from this station
	WNBARM1	ARMAGH WWTW	Risk Assess
GBNI1NB030307027	F10328	BLACKWATER R AT BONDS BR	Classify using F10328 downstream
GBNI1NB030307028	F10343	CALLAN R AT DERRYSOLLOP	Classify using F10343 downstream
GBNI1NB030307032	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030307033	F10320	OONA WATER AT CLONTY BR	Classify using F10320 downstream
GBNI1NB030307034	F10320	OONA WATER AT CLONTY BR	Classify using F10320 downstream
GBNI1NB030307035	F10320	OONA WATER AT CLONTY BR	Classify from this station
GBNI1NB030307036	D9	DUNGANNON STREAMS	Risk Assess
	F10325	RHONE R U/S OF DONNYDEADE FEEDER	Average with others
	F10326	RHONE R TRIBUTARY AT MOYROE CORNER	Average with others
	F10342	RHONE R AT CLONTEEVY BR	Average with others
GBNI1NB030307037	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030307038	F10321	OONA WATER AT PLUCK BR	Classify from this station



GBNI1NB030307039	F10346	OONA WATER AT OONA BR	Classify from this station
	F10321	OONA WATER AT PLUCK BR	Risk Assess (catchment 77.1%)
GBNI1NB030307040	F10330	BLACKWATER R AT BENBURB BR	Average with F10331
	F10331	BLACKWATER R AT CALEDON BR	Average with F10330
	F10347	TYNAN R AT A28 ROAD BR	Risk Assess (catchment 14.8%)
GBNI1NB030307041	F10301	BLACKWATER R FEEDER AT AUGHNACLOY	Classify from this station
GBNI1NB030307042	F10304	CRILLY FEEDER AT DUNMACMAY	Classify from this station
GBNI1NB030307043	F10330	BLACKWATER R AT BENBURB BR	Classify from this station
GBNI1NB030307044	F10345	CALLAN R AT PAPER MILL BR	Classify from this station
GBNI1NB030307045	F10896	BALLYMARTRIM WATER AT BR ON ARTASOOLY ROAD	Classify from this station
GBNI1NB030307047	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030307048	F10317	BUTTER WATER AT BALLYNAHONE BR	Classify from this station
GBNI1NB030307049	KD1	KEADY STREAMS	Risk Assess
	KD2	KEADY STREAMS	Risk Assess
	KD3	KEADY STREAMS	Risk Assess
	KD4	KEADY STREAMS	Risk Assess
	KD5	KEADY STREAMS	Risk Assess
GBNI1NB030307050	F10311	TAMNAMORE STREAM AT TAMNAMORE	Classify from this station
GBNI1NB030307051	F10333	BLACKWATER R AT DERRYMEEN BR	Classify from this station
		U/S OF AUGHER WWTW	Risk Assess (data unavailable for this classification)
GBNI1NB030307052	F10333	BLACKWATER R AT DERRYMEEN BR	Classify from this station
		U/S OF AUGHER WWTW	Risk Assess (data unavailable for this classification)
GBNI1NB030307095	F10319	BALTEAGH STREAM AT BALTEAGH BR	Classify from this station
GBNI1NB030307096	F10310	COR R TRIB U/S OF MIDDLETOWN STW	Classify from this station
GBNI1NB030307098	NONE	NONE SUITABLE	Classify using ROI site
GBNI1NB030307099	F10323	COR R AT LEMNAGORE WOOD	Classify from this station
GBNI1NB030307106	F10341	TALL R AT DARBYS BR	Classify from this station
GBNI1NB030307108	F10339	TALL R AT REDMONDS BR	Classify from this station
	F10341	TALL R AT DARBYS BR	Risk Assess (catchment 56.1%)
	WNBRIC1	RICHHILL WWTW	Risk Assess
GBNI1NB030307109	F10318	KILLEEN WATER AT B77 ROAD	Classify from this station
GBNI1NB030307111	F10314	BALLYMACANE R AT CALLAN CONFLUENCE	Classify from this station
GBNI1NB030307112	F10316	CALLAN R AT DUNDRUM	Classify from this station
GBNI1NB030307129	F10339	TALL R AT REDMONDS BR	Average with F10910
	F10910	TALL RIVER AT CLONMORE	Average with F10339
GBNI1NB030307132	F10328	BLACKWATER R AT BONDS BR	Classify from this station
GBNI1NB030307145	F10335	TORRENT R AT NEW BR, ANNAGHBEG	Classify from this station
	WNBcoa1	COALISLAND WWTW	Risk Assess
GBNI1NB030307173	F10315	TORRENT R AT CASTLECAULFIELD	Average with F10336

	F10336	TORRENT R AT NEWMILLS BR	Average with F10315
GBNI1NB030307175	F10348	BALLYGAWLEY WATER AT LISMORE BR	Classify for Biology and average for Chemistry with F11253
	F11253	BALLYGAWLEY WATER AT BALLYNAPOTTAGE BR (CHEM ONLY)	Average for Chemistry with F10348
GBNI1NB030307180	F10312	BLACKWATER R FEEDER AT BALLYGREENAN	Classify from this station
GBNI1NB030308199	F10306	BLACKWATER R FEEDER AT BRANTER	Risk Assess (catchment 21%)
	F10313	BLACKWATER R FEEDER AT FAVOUR ROYAL	Risk Assess (catchment 12%)
	F10333	BLACKWATER R AT DERRYMEEN BR	Classify from this station
	WNBAUG1	AUGHER WWTW	Risk Assess
GBNI1NB030308201	F10332	BLACKWATER R AT BURNS BR	Average with F10333
	F10302	LISSENDERRY FEEDER AT RAVELLEA ROAD BR	Risk Assess (catchment 12%)
GBNI1NB030308200	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030307196	F10333	BLACKWATER R AT DERRYMEEN BR	Classify using F10333 downstream
GBNI1NB030307238	F10308	FURY R AT CARNAGAT	Average with others
	F10322	FURY R FEEDER STREAM AT KNOCKROE	Average with others
	F10349	FURY R AT BELALASTERA BR	Average with others
GBNI1NB030307239	F10307	BLACKWATER R FEEDER AT LISBOY	Classify from this station
GBNI1NB030307242	F10303	KNOCKMANY BURN (B'WATER) AT ROY	Classify from this station
GBNI1NB030307243	F10309	BLACKWATER R TRIBUTARY AT KILLYFADDY	Classify from this station
GBNI1NB030308088	F10287	UPPER BANN AT HILLTOWN	Classify using F10287 downstream
GBNI1NB030308089	F10252	KINNAHALLA R U/S OF NEW BR	Classify from this station
GBNI1NB030308091	F10267	ANNAGH R AT MAGHON	Classify for Biology
GBNI1NB030308092	F10256	CUSHER R AT McCREEDYS BR	Classify from this station
GBNI1NB030308093	F10297	CUSHER R AT CLARE BR	Classify using F10297 downstream
	WNBMAR1	MARKETHILL WWTW	Risk Assess
GBNI1NB030308094	F10256	CUSHER R AT McCREEDYS BR	Average with F10263
	F10263	CUSHER R TRIBUTARY AT MOUNTNORRIS	Average with F10256
GBNI1NB030308100	F10255	UPPER BANN TRIBUTARY D/S OF McCOMBS BR	Risk Assess (catchment 11.7%)
	F10264	HILLTOWN TRIBUTARY AT HILLTOWN	Risk Assess (catchment 11.7%)
	F10286	UPPER BANN AT MC COMBS BR	Classify from this station
	F10287	UPPER BANN AT HILLTOWN	Risk Assess (catchment 72.7%)
GBNI1NB030308101	F10250	ROCKY R AT ROCKY R BR	Classify from this station
	F10254	SHANKYS R AT TORNAMROCK PARK	Risk Assess (catchment 40.6%)
GBNI1NB030308102	F10265	LEITRIM R AT LEITRIM BR	Classify from this station
GBNI1NB030308103	F10269	UPPER BANN BELOW MOTORWAY BR	Average with F10270
	F10270	UPPER BANN AT SHILLINGTON BR	Average with F10269
GBNI1NB030308105	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030308107	F10259	CUSHER R TRIBUTARY AT MAYMOUNT	Risk Assess (catchment 4.7%)
	F10295	CUSHER R AT KNOCK BR	Average with F10297

	F10297	CUSHER R AT CLARE BR	Average with F10295
	WNB TAN1	TANDRAGEE WWTW	Risk Assess
GBNI1NB030308110	F10292	BALLYBAY R AT OBINS STREET, PORTADOWN	Classify from this station
GBNI1NB030308113	F10251	WHITECROSS STREAM AT WHITECROSS	Classify from this station
GBNI1NB030308114	F10256	CUSHER R AT McCREEDYS BR	Average with F10300
	F10300	CUSHER R AT CAPTAINS BR	Average with F10256
GBNI1NB030308117	F10278	TULLYORIOR TRIB AT TULLYORIOR RD BR	Classify from this station
GBNI1NB030308118	F10266	LOUGHGILLY R AT BALLYGORMAN	Classify from this station
GBNI1NB030308119	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB030308120	F10260	MOWHAN R AT DERRYCUCHAN	Classify from this station
GBNI1NB030308184	F10257	UPPER BANN TRIBUTARY AT KATESBRIDGE	Risk Assess (catchment 4.8%)
	F10277	UPPER BANN AT BALLYDOWN	Average with others
	F10279	UPPER BANN AT POLANDS BR	Average with others
	F10280	UPPER BANN AT KATE MCKAYS BR	Average with others
	F10282	UPPER BANN AT BANNFIELD BR	Average with others
GBNI1NB030308186	F10261	EEL BURN (UPPER BANN) U/S OF POLANDS BR	Classify from this station
GBNI1NB030308187	F10262	DRUMADONNELL R AT BALLYRONEY ROAD	Classify from this station
GBNI1NB030308188	F10253	MUDDOCK R TRIBUTARY AT ST JOHNS TERRACE	Risk Assess (catchment 13.9%)
	F10283	MUDDOCK R AT MUDDOCK BR	Classify from this station
GBNI1NB030308189	F10273	UPPER BANN AT LAWRENCETOWN	Risk Assess
	F10271	UPPER BANN AT DYNES BR	Classify from this station
GBNI1NB030308197	F10258	BALLYDOWN FEEDER AT BALLYDOWN	Risk Assess (catchment 2.3%)
	F10277	UPPER BANN AT BALLYDOWN	Risk Assess
	F10273	UPPER BANN AT LAWRENCETOWN	Classify from this station
GBNI1NB060601003	F10617	CLANRYE NORTH R AT HAWKINS BR	Classify from this station
GBNI1NB060601004	F10615	MAYOBRIDGE R AT DOWNSTREAM BR	Risk Assess
	F10622	CLANRYE R AT CROWN BR	Classify using site F10622 downstream
GBNI1NB060601005	F10617	CLANRYE NORTH R AT HAWKINS BR	Risk Assess
	F10622	CLANRYE R AT CROWN BR	Classify using site F10622 downstream
GBNI1NB060601007	F10619	NEWRY R AT NEWRY	Average with others (closed Dec 07)
	F11204	NEWRY R AT DAMOLLY ROW	Average with others (opened Jan 08)
	F10620	NEWRY R AT CARNMEEN	Average with others
GBNI1NB060601018	F10615	MAYOBRIDGE R AT DOWNSTREAM BR	Classify from this station
GBNI1NB060601019	F10616	MULLAGHGLASS STREAM AT MULLAGHGLASS	Risk Assess (catchment 18%)
	F10625	BESSBROOK R AT MILLVALE BR	Classify from this station
GBNI1NB060601020	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB060601021	F10611	TULLYQUILLY FEEDER AT BARNMEEN EAST	Average with others
	F10612	LISSIZE R AT RED BR	Average with others
	F10614	DRUMGATH R AT LURGANCAHONE	Average with others

	F10623	CLANRYE R AT BARNMEEN WEST	Average with others
	WNBRA1	RATHFRILAND WWTW	Risk Assess
GBNI1NB060601022	F10626	JERRETTSPASS R AT JERRETTSPASS	Classify from this station
GBNI1NB060601023	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB060601024	F10610	JERRETTSPASS R TRIBUTARY AT GLEN BR	Classify from this station
GBNI1NB060601025	F10613	LOUGHBRICKLAND STREAM AT KILLYSAVEN VILLAS	Classify from this station
GBNI1NB060601044	F10622	CLANRYE R AT CROWN BR	Classify from this station
GBNI1NB060602001	F10651	CULLY WATER AT SILVER BR	Classify using F10651 downstream
GBNI1NB060602002	F10652	FORKILL R AT LOWER BR, FORKILL	Classify using F10652 downstream
GBNI1NB060602017	F10625	BESSBROOK R AT MILLVALE BR	Classify using F10625 downstream
GBNI1NB060602029	F10650	CREGGAN R BELOW CREGGAN RECTORY	Average with others
	F10917	CREGGAN RIVER AT SKERRIFF BRIDGE	Average with others
	F10918	CREGGAN RIVER AT COOLDERRY BRIDGE	Average with others
GBNI1NB060602034	F10651	CULLY WATER AT SILVER BR	Classify from this station
GBNI1NB060602035	F10652	FORKILL R AT LOWER BR, FORKILL	Classify using F10652 downstream
GBNI1NB060602036	F10651	CULLY WATER AT SILVER BR	Classify using F10651 downstream
GBNI1NB060602037	F10652	FORKILL R AT LOWER BR, FORKILL	Classify from this station
GBNI1NB060602038	F10649	KILNASAGGART R AT KILNASAGGART BR	Classify from this station
GBNI1NB060602039	F10866	SLIEVE GULLION STREAM AT MEIGH BR	Risk Assess (catchment 18.5%)
	F10977	FLURRY R AT LOW ROAD BR	Classify from this station
GBNI1NB060604052	F10900	FANE RIVER AT ART HAMILL BRIDGE	Classify from this station
GBNI1NB060603027	F10653	COUNTY WATER (S ARMAGH) AT TRAYNORS BR	Classify from this station
GBNI1NB060604051	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB060603028	NONE	NO NI MON	Classify using ROI site
GBNI1NB060603031	NONE	NO NI MON	Classify using ROI site
GBNI1NB060604011	F10643	CASSY WATER AT CASSYWATER BR	Classify from this station
GBNI1NB060604040	F10646	GHANN R AT GREEN PARK BR	Classify from this station
GBNI1NB060604041	F10644	KILBRONEY R AT NEWTOWN BR	Classify from this station
GBNI1NB060604042	F10647	MOYGANNON R AT MOYGANNON FORD	Classify from this station
GBNI1NB060604045	F10632	WHITE WATER R (SOUTH DOWN) AT BALLINAMORNA	Average with F10642
	F10642	WHITE WATER R (SOUTH DOWN) AT WHITEWATER BR	Average with F10632
GBNI1NB030308198	NONE	NO NI MON	Classify using ROI site
GBNI1NB030308202	NONE	NO NI MON	Classify using ROI site
GBNI1NB060604050	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NB060604053	NONE	NO NI MON	Classify using ROI site

## North Western River Basin District

Water Body code	Station Code	Station location	How classified
GBNI1NW010101045	F10024	BURNDENNET R AT DUNNAMANAGH	Classify from this station
GBNI1NW010101069	F10023	ALTINAGHREE BURN AT BUNOWEN BR	Classify from this station
	F10018	LOWERTOWN TRIBUTARY AT LOWERTOWN	Risk Assess (catchment 17.6%)
GBNI1NW010101070	F10022	BURNDENNET R AT BURNDENNET BR CASTLEMELLAN TRIBUTARY AT	Classify from this station
	F10017	CASTLEMELLAN	Risk Assess (catchment 4.5%)
GBNI1NW010101071	F10019	BURNDENNET R AT ESSBEG BR	Classify from this station
	F10016	INVER BURN (BURN DENNET) AT BALIX BR	Risk Assess (catchment 16.1%)
GBNI1NW010101072	F10020	DUNNYBOE BURN AT DUNNYBOE BR	Classify from this station
GBNI1NW010101075	F10014	GLENMORNAN R AT CATHERINES BR	Classify from this station
	F10001	OWENREAGH BURN AT GORDONS BR SANDVILLE BURN (BURNGIBBAGH) AT	Risk Assess (catchment 25.1%)
GBNI1NW010101076	F10015	MOUNT PLEASANT	Classify from this station
GBNI1NW010102001	F10121	CRANNY BURN AT CRANNY	Classify from this station
GBNI1NW010102002	F10094	BEHERNY DRAIN AT CAMBERRY	Risk Assess (catchment 12.1%)
	F10090	FAIRYWATER AT B50 ROAD BR	Risk Assess
	F10095	DRUMGALLAN BURN AT DRUMGALLAN BR	Risk Assess (catchment 7.6%)
	F10102	FAIRYWATER R AT MONAGHANS BR	Classify from this station
GBNI1NW010102003	F10097	BLACK WATER (DRUMQUIN) AT CARRICKANESS BR	Classify using F10097 downstream
GBNI1NW010102004	F10092	DRUMQUIN R AT CROOKED BR	Classify from this station
GBNI1NW010102005	F10042	LOUGH CATHERINE STREAM AT MILLBROOK	Classify from this station
GBNI1NW010102006	F10128	DRUMRAGH R AT CAR PARK U/S OF CAMPSIE BR	Classify from this station
GBNI1NW010102007	F10133	QUIGGERY WATER AT EDERGOOLE BR	Classify from this station
GBNI1NW010102008	F10136	ESKRAGH WATER AT SESKINORE MILL BR	Classify from this station
	F10119	LETTERN BURN AT LETTERN	Risk Assess (catchment 11.5%)
	F10952	LETTERN BURN AT LETTERN	Risk Assess (catchment 11.3%)
GBNI1NW010102009	F10097	BLACK WATER (DRUMQUIN) AT CARRICKANESS BR	Classify from this station
GBNI1NW010102010	F10093	FAIRYWATER R AT AGHAKINMART	Average with F10090
	F10090	FAIRYWATER R AT B50 ROAD BR	Average with F10093
GBNI1NW010102011	F10074	OWENKILLEW R AT DRUMLEA	Classify from this station
GBNI1NW010102016	F10042	LOUGH CATHERINE STREAM AT MILLBROOK	Classify using F10042 downstream
GBNI1NW010102017	F10131	CREEVAN BURN AT MC KINLEY BUNGALOWS	Classify from this station
GBNI1NW010102018	F10123	MULLAGHBANE BURN AT SHANNARAGH	Risk Assess (catchment 4.9%)
	F10129	OWENREAGH (SOUTH) R AT BALLYNAHATTY STROANCARBADAGH BURN AT	Classify from this station
	F10117	BALLYNAHATTY	Risk Assess (catchment 3.9%)
GBNI1NW010102019	WNWFIN1	FINTONA WWTW	Risk Assess
	F10134	QUIGGERY WATER AT SESSIAGH BR	Classify from this station
	F10122	SYONEE BURN AT FINTONA	Risk Assess (catchment 8.2%)

GBNI1NW010102020	F10085	ASHGROVE TRIBUTARY AT BALLYKEEL	Risk Assess (catchment 0.5%)
	F10084	CARNONY BURN AT KNOCKMOYLE BR	Risk Assess (catchment 1.4%)
	F10086	STRULE R AT MOYLE BR	Average with F10087
	F10087	STRULE R AT STONE BR	Average with F10086
GBNI1NW010102021	F10089	CAPPAGH BURN AT TATTYNURE BR	Classify from this station
GBNI1NW010102022	F10081	OWENREAGH (EAST) R AT DRUMLEA BR	Classify from this station
GBNI1NW010102023	F10083	GLENSAWISK BURN AT CAMPBELLS BR	Classify from this station
GBNI1NW010102024	F10056	CASHEL BURN (OWENREAGH EAST) AT CASHEL	Classify from this station
GBNI1NW010102025	F10075	GLENLARK R AT GLENLARK BR	Classify from this station
GBNI1NW010102026	F10074	OWENKILLEW R AT DRUMLEA	Classify using F10074 downstream
GBNI1NW010102027	F10072	OWENKILLEW R AT KILLYMORE BR	Classify using F10072 downstream
	F10864	GORTIN BURN (OWENKILLEW) AT GORTIN BR	Risk Assess (catchment 2.2%)
	F10060	RYLANDS BURN AT RYLANDS BR	Risk Assess (catchment 1.3%)
GBNI1NW010102028	F10865	CORICKMORE TRIBUTARY AT CORICKMORE	Risk Assess (catchment 1.4%)
	F10072	OWENKILLEW R AT KILLYMORE BR	Classify from this station
GBNI1NW010102029	F10108	DRUMNAKILLY BURN AT DRUMNAKILLY	Classify using F10108 downstream
	WNWMOU1	MOUNTFIELD WWTW	Risk Assess
GBNI1NW010102030	F10108	DRUMNAKILLY BURN AT DRUMNAKILLY	Classify using F10108 downstream
GBNI1NW010102031	F10108	DRUMNAKILLY BURN AT DRUMNAKILLY	Classify from this station
GBNI1NW010102032	F10104	GRANAGH BURN AT CARRICKMORE	Classify from this station
GBNI1NW010102033	F10105	ARVALEE BURN AT OMAGH	Risk Assess (catchment 3.2%)
	F10111	CAMOWEN R AT DONNELLYS BR	Classify from this station
	F10113	KILLYCLOGHER BURN AT KILLYCLOGHER	Risk Assess (catchment 3.6%)
GBNI1NW010102034	F10107	CAMOWEN R AT CARRICKMORE	Classify using F10107 upstream
GBNI1NW010102035	F10115	CLOGHFIN R AT LISBOY BR	Classify from this station
GBNI1NW010102036	F10115	CLOGHFIN R AT LISBOY BR	Classify using F10115 downstream
GBNI1NW010102037	F10115	CLOGHFIN R AT LISBOY BR	Average with F10106
	F10106	CLOGHFIN R AT BALLYKEEL BR	Average with F10115
GBNI1NW010102038	F10081	OWENREAGH (EAST) R AT DRUMLEA BR	Classify using F10081 downstream
GBNI1NW010102039	F10109	GLENSCOLLIP (BALLYNAMULLAN) BURN AT OMAGH	Classify from this station
GBNI1NW010102040	F10120	MAGHERAGART BURN AT AGHLISK BR	Average with F10121
	F10121	OWENREAGH (SOUTH) R AT B84 ROAD BR	Average with F10120
GBNI1NW010102041	F10101	FAIRYWATER R AT MULLANATOOMOG	Average with F10099
	F10099	FAIRYWATER R AT OLD R'WAY BR, NESTLES	Average with F10101
	F10100	GILLYGOOLY BURN AT MILL HOUSE	Risk Assess (catchment 5.6%)
	F10096	KILMORE BURN AT RAMSEYS BR	Risk Assess (catchment 5.0%)
GBNI1NW010102043	F10071	ALTAVAKAN BURN AT GLENMACOFFER	Risk Assess (catchment 31.3%)
	F10073	GLENMACOFFER BURN AT GLENMACOFFER BR	Classify from this station
GBNI1NW010102046	F10125	OWENREAGH (SOUTH) R AT B84 ROAD BR	Classify for Biology

	F10951	OWENREAGH (SOUTH) R AT DRUMLISH	Classify for Chemistry
GBNI1NW010102047	F10043	GLASHAGH/TIEVEMORE BURN AT GLASHAGH BR	Classify from this station
GBNI1NW010102048	F10079	GLENELLY R AT CLOGHERNY BR	Classify from this station
	F10057	OUGHTBOY BURN AT OUGHTBOY BR	Risk Assess (catchment 7.1%)
	F10051	OUGHTDOORISH BURN AT OUGHTDOORISH BR	Risk Assess (catchment 7.8%)
	F10066	OUGHTMAME BURN AT OUGHTMAME BR	Risk Assess (catchment 3.7%)
	F10052	OUGHTNAMWELLA BURN AT SPERRIN	Risk Assess (catchment 6.0%)
GBNI1NW010102050	F10046	KILLEN BURN AT GLASHAGH BR	Classify from this station
GBNI1NW010102051	F10980	DERRYNASEER TRIB AT DERRYNASEER	Classify from this station
GBNI1NW010102052	F10103	DRUMQUIN R AT DRUMQUIN	Average with others
	F10092	DRUMQUIN R AT CROOKED BR	Average with others
	F10091	GLENRONE R AT McCREA PARK	Average with others
GBNI1NW010102053	F10116	DROMORE BURN AT MULLANBOY	Risk Assess (catchment 7.7%)
	F10125	OWENREAGH (SOUTH) R AT B84 ROAD BR	Classify for Biology
	F10951	OWENREAGH (SOUTH) R AT DRUMLISH	Classify for Chemistry
GBNI1NW010102054	F10120	MAGHERAGART BURN AT AGHLISK BR	Classify from this station
GBNI1NW010102056	F10033	ESSAN BURN AT SRAGHCUMBER	Classify from this station
GBNI1NW010102059	F10979	R DERG AT CROCKNACUNNY FOREST	Classify from this station
GBNI1NW010102064	F10038	DREENAN BURN AT DREENAN BR	Average with F10048
	F10048	MOURNE BEG R AT MOURNE BR	Average with F10038
GBNI1NW010102066	F10048	MOURNE BEG R AT MOURNE BR	Classify using F10048 downstream
	F10035	CROAGH BURN AT CROAGH	Risk Assess (catchment 21.7%)
	F10041	GARVAGH BURN AT GARVAGH BR	Risk Assess (catchment 33.0%)
GBNI1NW010102067	F10049	GLENDERGAN R AT SRAGHCUMBER	Classify from this station
GBNI1NW010102073	F10055	EDEN R AT EDEN	Risk Assess (catchment 4.7%)
	F10065	EDERLIN BURN AT EDERLIN BR	Risk Assess (catchment 2.1%)
	F10067	GLASHYGOLGAN BURN AT FORT BR	Risk Assess (catchment 6.3%)
	F10062	GLENASS BURN AT HENRYS BR	Risk Assess (catchment 3.2%)
	F10078	GLENELLY R AT CORICK BR	Classify for Biology
	F10938	GLENELLY R AT GLASHY BR	Classify for Chemistry
	F10063	GLENROAN BURN AT GLENROAN BR	Risk Assess (catchment 4.2%)
	F10068	LETTERBRAT BURN AT LETTERBRAT BR	Risk Assess (catchment 5.3%)
	F10064	TULLYNADALL BURN AT TULLYNADALL	Risk Assess (catchment 4.0%)
GBNI1NW010102074	F10027	GREVENUE BURN AT GREVENUE BR	Risk Assess (catchment 0.3%)
	F10028	MOURNE R AT STRABANE BR	Average with others
	F10029	MOURNE R AT VICTORIA BR	Average with others
	F10086	STRULE R AT MOYLE BR	Average with others
GBNI1NW010102075	F10030	DOUGLAS BURN (FOYLE) AT DOUGLAS BR	Classify from this station
GBNI1NW010102077	F10026	CAVANALEE R AT MILLTOWN BR	Classify from this station



GBNI1NW010102080	F10107	CAMOWEN R AT CARRICKMORE	Classify from this station
GBNI1NW010102081	F10058	BROUGHDERG WATER AT BROUGHDERG BR	Classify using F10058 downstream
GBNI1NW010102082	F10124	DUNGORAN BURN AT DUNGORAN	Risk Assess (catchment 14.6%)
	F10135	QUIGGERY WATER AT ECCLESVILLE	Classify from this station
GBNI1NW010102083	F10080	GLENELLY R AT SPERRIN	Classify from this station
	F10053	GLENERIN BURN AT GLENERIN BR	Risk Assess (catchment 22.2%)
	F10054	GOLES R AT GOLES BR	Risk Assess (catchment 33.2%)
GBNI1NW010102084	F10110	ALTANAGH BURN AT POUND BR	Classify from this station
GBNI1NW010102085	F10076	CONEYGLEN BURN AT CONEYGLEN BR	Classify from this station
GBNI1NW010102086	F10058	BROUGHDERG WATER AT BROUGHDERG BR	Average with F10077
	F10059	CROCKGLASS TRIBUTARY AT CROCKGLASS	Risk Assess (catchment 8.3%)
	F10077	OWENKILLEW R AT MONANAMEAL BR	Average with F10058
GBNI1NW010102087	F10115	CLOGHFIN R AT LISBOY BR	Average with F10106 downstream
	F10106	CLOGHFIN R AT BALLYKEEL BR	Average with F10115 downstream
GBNI1NW010102088	F10115	CLOGHFIN R AT LISBOY BR	Average with F10106 downstream
	F10106	CLOGHFIN R AT BALLYKEEL BR	Average with F10115 downstream
GBNI1NW010102089	F10127	ESKRAGH WATER AT ESKRAGH	Average with F10118
	F10118	RAVEAGH BURN AT RAVEAGH	Average with F10127
GBNI1NW010102090	F10126	GARVAGHY BURN AT KILNAHEERY	Average with F10137
	F10137	ROUTING BURN AT BROWNS BR	Average with F10126
GBNI1NW010102091	F10070	CREGGAN BURN AT CREGGAN	Average with others
	F10969	CREGGAN BURN AT INISHTIMAHON	Average with others
	F10069	GLASHAGH BURN AT CASHEL WOOD	Average with others
GBNI1NW010102092	F10114	CAMOWEN R AT RAMACKAN BR	Classify from this station
GBNI1NW010102093	F10088	STRULE R AT ABBEY BR, OMAGH	Classify from this station
GBNI1NW010102094	F10034	ALTAMULLAN BURN AT AGHYARAN	Risk Assess (catchment 7.1%)
	F10036	CRIGH BURN AT CRIGH BR	Risk Assess (catchment 3.4%)
	F10047	DERG R AT AGHYARAN BR	Classify
GBNI1NW010102095	F10040	BACK BURN (DERG) AT CASTLEDERG	Risk Assess (catchment 4.4%)
	F10045	DERG R AT CREW BR	Classify for Biology
	F10044	DERG R AT MILLBROOK NEW BR	Classify for Chemistry
	F10037	DUNREVAN BURN AT DUNREVAN BR	Risk Assess (catchment 2.2%)
	F10031	GREENVILLE STREAM AT GREENVILLE BR	Risk Assess (catchment 1.8%)
	F10032	LISTYMORE STREAM AT CREW UPPER	Risk Assess (catchment 1.8%)
	F10039	TULLYDOORTANS BURN AT CREW HOUSE	Risk Assess (catchment 3.5%)
GBNI1NW010102096	F10061	GLENKNOCK BURN AT GLENKNOCK COTTAGES	Classify from this station
GBNI1NW010103063	F10025	FINN (FOYLE) R AT CLADY BR	Classify from this station
GBNI1NW020202005	F10169	OWENALENA R AT OWENALENA BR	Classify from this station
GBNI1NW020202010	F10179	OWENRIGH R AT CARNANBANE	Classify from this station

GBNI1NW020202011	F10912	CASTLE RIVER AT CASTLE BRIDGE	Classify Chemistry
	F10176	CASTLE R AT DRUMMOND BR	Classify Biology using F10176 upstream
GBNI1NW020202012	F10160	GELVIN R AT LOWER GELVIN BR	Classify from this station
GBNI1NW020202013	F10165	CASTLE R TRIBUTARY AT DRENAGH	Average with others
	F10176	CASTLE R AT DRUMMOND BR	Average with others
	F10177	CURLY R AT ARTIKELLY BR	Average with others
	F10912	CASTLE R AT CASTLE BR	Average with others
GBNI1NW020202014	F10161	BOVEVAGH R AT BURNFOOT BR	Classify from this station
GBNI1NW020202015	F11208	ROE R AT TURMEEL BR	Classify (opened 2008) F10174 prior to this
GBNI1NW020202018	F10162	HASS TRIBUTARY AT BROWNS BR	Risk Assess (catchment 3.2%)
	F10172	ROE R AT DOG LEAP	Average with others
	F10174	ROE R AT DUNGIVEN BR (CLOSED)	Average with others (This site closed in Dec07)
	F10171	ROE R AT LIMAVADY	Average with others
GBNI1NW020202023	F10159	CLOGHERNA BURN AT TULLYGOWAN	Risk Assess (catchment 16.9%)
	F10164	OWENBEG R AT AUGHLISH BR	Average with others
	F10949	OWENBEG R AT AUGHLISH FORD	Average with others
	F10178	OWENBEG R AT DUNGIVEN	Average with others
	F10168	OWENBEG R TRIBUTARY AT DERRYCHRIER	Risk Assess (catchment 11.2%)
GBNI1NW020202024	WNWAGH1	AGHANLOO WWTW	Risk Assess
	F10171	ROE R AT LIMAVADY	Classify Biology using F10171 upstream
	F10170	ROE R AT ROE BR	Classify Chemistry
	F10167	ROE R TRIBUTARY AT AGHANLOO	Risk Assess (catchment 1.9%)
GBNI1NW020202032	F10163	WOOD BURN AT KILLIBLEUGHT BR	Classify from this station
GBNI1NW020202039	F10160	GELVIN R AT LOWER GELVIN BR	Classify using F10160 downstream
GBNI1NW020202043	F10175	ROE R AT CORICK BR	Classify from this station
GBNI1NW020202044	F10165	CASTLE R TRIBUTARY AT DRENAGH	Classify from this station
GBNI1NW020202045	F10176	CASTLE R AT DRUMMOND BR	Classify from this station
GBNI1NW020202049	F10177	CURLY R AT ARTIKELLY BR	Average with F10166
	F10166	CURLY R AT GALLOWS KNOWE	Average with F10177
GBNI1NW020203027	F10183	BURNFOOT R AT RUSH HALL	Classify from this station
GBNI1NW020203028	F10180	BALLYKELLY R AT BALLYKELLY BR	Classify from this station
GBNI1NW020203029	F10182	FAUGHANVALE R AT FAUGHANVALE BR	Classify from this station
GBNI1NW020203030	F10181	MUFF R AT MILL BR	Classify from this station
GBNI1NW020204002	F10142	BERRY BURN AT BERRYBURN BR	Risk Assess
	F10153	BONDS GLEN R AT ARDGROUND	Risk Assess
	F10151	FAUGHAN R AT ARDMORE	Average with others
	F10948	FAUGHAN R AT CARMONEY WTW	Average with others
	F10152	FAUGHAN R AT LEGAHORY	Average with others
	F10148	FAUGHAN R AT MOBUOY BR	Average with others

	F10156	FAUGHAN R AT TAMNAGH BR	Risk Assess
	F10138	PARK TRIBUTARY AT PARK	Risk Assess
	F10144	FOREGLEN R AT MUNREERY BR	Risk Assess
	F10155	FOREGLEN R AT DUNGORKIN BR	Risk Assess
GBNI1NW020204003	F10140	LOUGHERMORE R AT LOUGHERMORE BR	Classify using F10140 downstream
GBNI1NW020204017	F10140	LOUGHERMORE R AT LOUGHERMORE BR	Classify from this station
GBNI1NW020204025	F10143	MEENARNET BURN AT SLAGHTMANUS	Classify from this station
GBNI1NW020204026	F10155	FOREGLEN R AT DUNGORKIN BR	Average with F10144
	F10144	FOREGLEN R AT MUNREERY BR	Average with F10155
GBNI1NW020204031	F10142	BERRY BURN AT BERRYBURN BR	Risk Assess (catchment 2.9%)
	F10153	BONDS GLEN R AT ARDGROUND	Risk Assess (catchment 3.6%)
	F10151	FAUGHAN R AT ARDMORE	Average with others
	F10948	FAUGHAN R AT CARMONEY WTW	Average with others
	F10152	FAUGHAN R AT LEGAHORY	Average with others
	F10148	FAUGHAN R AT MOBUOY BR	Average with others
GBNI1NW020204033	F10156	FAUGHAN R AT TAMNAGH BR	Average with others
	F10138	PARK TRIBUTARY AT PARK	Average with others
	F10139	SLUGGADA BURN NEAR TAMNAGH LODGE	Average with others
GBNI1NW020204034	F10145	BURNGIBBAGH AT DRUMAHOE	Classify from this station
GBNI1NW020204035	F10157	BURNTOLLET R AT BURNTOLLET BR	Average with F10141
	F10141	CRUNKIN BURN AT CRUNKIN BR	Average with F10157
GBNI1NW020204038	F10158	GLENRANDAL R AT CLAUDY	Classify for Biology
	F10950	GLENRANDAL R AT LING BR	Classify for Chemistry
	F10146	INVER R (FAUGHAN) AT INVER BR	Risk Assess
GBNI1NW353502001	F10657	COUNTY R (FERMANAGH) AT COUNTY BR	Classify from this station
GBNI1NW353502002	F10654	ROOGAGH R AT GARRISON	Classify from this station
GBNI1NW353502003	F10654	ROOGAGH R AT GARRISON	Classify using F10654 downstream
GBNI1NW353502004	F10654	ROOGAGH R AT GARRISON	Classify using F10654 downstream
GBNI1NW353502005	F10657	COUNTY R (FERMANAGH) AT COUNTY BR	Average with F10899
	F10899	LATTONE TRIBUTARY AT LATTONE BRIDGE	Average with F10657
GBNI1NW363601001	F10737	ARNEY R AT BROCKAGH BR	Classify from this station
	F10759	BLUNNICK BURN AT BLUNNICK	Risk Assess (catchment 3.1%)
	F10758	LISBLAKE BURN AT BROCKAGH	Risk Assess (catchment 4.2%)
GBNI1NW363601002	F10703	BALLYCASSIDY R AT NECARNE	Classify from this station
GBNI1NW363601003	F10748	SILLEES R AT CARR BR	Classify using F10748 downstream
GBNI1NW363601004	F10748	SILLEES R AT CARR BR	Classify from this station
GBNI1NW363601005	F10659	HOLLOW R AT LISNARRICK	Classify from this station
GBNI1NW363601006	F10688	KESH R AT KESH BR	Classify from this station
GBNI1NW363601007	F10757	LURGAN R AT BELCOO	Classify from this station

GBNI1NW363601008	F10696	TRILLICK TRIBUTARY AT BOHEE	Risk Assess
	F10704	TRILLICK TRIBUTARY AT CARRAN BR	Classify from this station
GBNI1NW363601009	F10702	BALLYCASSIDY R AT TULLYCLEA BR	Classify from this station
GBNI1NW363601010	F10751	BOHO TRIBUTARY AT BOHO	Classify from this station
GBNI1NW363601011	F10694	SALRY R AT SALRY	Classify from this station
GBNI1NW363601012	F10697	BALLINAMALLARD R AT BALLINAPASTE BR	Classify from this station
GBNI1NW363601013	F10663	GARVARY R AT LARKHILL	Classify using F10663 downstream
GBNI1NW363601032	None	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363601033	F10696	TRILLICK TRIBUTARY AT BOHEE	Classify from this station
GBNI1NW363601036	F10743	BLACK R AT B52 ROAD BR	Classify from this station
GBNI1NW363602092	F10740	BELCOO R AT BELCOO BR	Classify from this station
GBNI1NW363602093	F10760	DRUMHARRIFF BURN AT KNOCKNAFADEELA	Classify from this station
GBNI1NW363601040	F10736	ARNEY R AT DRUMANE BR	Classify from this station
	F10761	DRUMHACK R AT A509 ROAD BR	Risk Assess (catchment 3.7%)
GBNI1NW363601041	F10658	BLACKSLEE BURN AT HOLME BAY	Classify from this station
GBNI1NW363601042	F10700	BALLINAMALLARD R AT BALLYCASSIDY BR	Classify from this station
	F10698	FOXHILL BURN AT DRUMCREEN	Risk Assess (catchment 5.3%)
GBNI1NW363601044	F10762	KILLYCAT BURN AT KILLYCAT BR	Risk Assess (catchment 5.2%)
	F10746	SILLEES R AT DRUMKEEN NEW BR	Average with F10747
	F10747	SILLEES R AT THOMPSONS BR	Average with F10746
GBNI1NW363601045	F10697	BALLINAMALLARD R AT BALLINAPASTE BR	Classify using F10697 downstream
GBNI1NW363601046	F10701	BALLINAMALLARD R AT MAGHERACROSS BR	Classify from this station
	F10699	KILSKERRY BURN AT KILSKERRY	Risk Assess (catchment 7.8%)
	F10695	TULLYRAIN R AT MAGHERACROSS	Risk Assess (catchment 5.5%)
GBNI1NW363601047	F10693	EDENCLAW TRIBUTARY AT EDENCLAW	Classify from this station
GBNI1NW363601048	F10688	KESH R AT KESH BR	Classify using F10688 downstream
	F10686	DRUMBOARTY R AT DRUMBOARTY	Risk Assess (catchment 6.5%)
GBNI1NW363601049	F10756	FLORENCECOURT R AT A32 ROAD BR	Classify from this station
GBNI1NW363601053	F10684	MANTLIN R AT MANTLIN BR	Classify from this station
GBNI1NW363601055	F10752	SCREENAGH R AT AGHAKEERAN	Classify from this station
GBNI1NW363601056	F10750	SILLEES R AT DERRYGONNELLY BR	Classify from this station
GBNI1NW363601057	F10697	BALLINMALLARD R AT BALLINAPASTE BRIDGE	Classify using F10697 downstream
		BANNAGH R (ROTTEN MOUNTAIN) AT DERRYNEVE BR	
GBNI1NW363601058	F10680	BANNAGH R AT BANNAGH BR	Average with F10681
	F10681	DRUMNAGRESHIAL TRIB AT	Average with F10680
	F10683	DRUMNAGRESHIAL	Risk Assess (catchment 18.6%)
GBNI1NW363601059	F10692	DOORAA TRIBUTARY AT KILLYGARRY BR	Average with F10691
	F10691	DOORAA TRIBUTARY AT LETTERKEEN	Average with F10692
GBNI1NW363601060	F10687	COOLAGHTY R AT COOLAGHTY	Average with F10690
	F10690	GLENDURRAGH R AT EDENAMOHILL	Average with F10687

	F10685	LACK R AT CRONEEN	Risk Assess (catchment 35.7%)
GBNI1NW363601072	F10661	ERNE R AT ROSSCOR VIADUCT	Classify from this station
GBNI1NW363601073	F10750	SILLEES R AT DERRYGONNELLY BR	Classify using F10750 downstream
GBNI1NW363601074	F10750	SILLEES R AT DERRYGONNELLY BR	Classify using F10750 downstream
GBNI1NW363602091	F10665	WATERFOOT R AT LETTER BR	Classify from this station
GBNI1NW363601077	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602088	F10679	TERMON R AT TULLYHOMMON	Classify using F10679 downstream
GBNI1NW363602087	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602089	F10679	TERMON R AT TULLYHOMMON	Classify using F10679 downstream
GBNI1NW363602090	F10679	TERMON R AT TULLYHOMMON	Classify from this station
GBNI1NW363601080	F10663	GARVARY R AT LARKHILL	Classify from this station
GBNI1NW363601084	F10744	CLADAGH R AT GORTEEN	Average with others
	F10907	OWENBREAN RIVER ABOVE MONASTIR GORGE (CLSD08)	Average with others
	F10908	POLLASUMERA RIVER AT MCNULTY'S LANE (CLSD08)	Average with others
GBNI1NW363602014	F10716	COLEBROOKE R AT TULLYREAGH BR	Classify using F10716 downstream
	WNWFIV2	FIVEMILETOWN WWTW (NEW DISCHARGE POINT)	Risk Assess
GBNI1NW363602094	F10735	SWANLINBAR R AT THOMPSONS BR	Classify using F10735 downstream
	F10755	DRUMERSEE BURN AT GORTORAL BR	Risk Assess (catchment 36.3%)
GBNI1NW363602095	F10754	OWENGARR R AT GLASDRUMMAN BR	Classify from this station
GBNI1NW363602016	F10711	AGHAVEA R AT BOYHILL	Classify from this station
GBNI1NW363602017	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602018	F10715	COLEBROOKE R AT BALLINDARRAGH BR	Average with F10716
	F10716	COLEBROOKE R AT TULLYREAGH BR	Average with F10715
	F10713	DRUMLUGHT R AT DRUMLUGHT	Risk Assess (catchment 2.1%)
	F10712	LISNABANE BURN AT LISNABANE BR	Risk Assess (catchment 2.1%)
GBNI1NW363602019	F10717	COLEBROOKE R AT POLLBOY BR	Classify from this station
GBNI1NW363602020	F10705	RAW R AT RAW BR	Classify from this station
GBNI1NW363602021	F10722	CLEEN R AT CORRALONGFORD	Classify from this station
GBNI1NW363602022	F10718	TEMPO R AT A4 ROAD BR	Classify from this station
GBNI1NW363602023	F10716	COLEBROOKE R AT TULLYREAGH BR	Classify using F10716 downstream
GBNI1NW363602024	F10672	LOUGH-A-HACHE R BELOW MOORLOUGH	Classify for Biology
	F10919	LOUGH-A-HACHE RIVER AT DERRYANY BRIDGE	Classify for Chemistry
GBNI1NW363602025	F10714	HOLLYBROOK R AT AGHALURCHER	Classify from this station
GBNI1NW363602026	F10726	DRUMSHANCORICK R AT DEER PARK	Classify from this station
GBNI1NW363602028	F10675	NEWTOWNBUTLER R AT NEWTOWNBUTLER	Classify from this station
GBNI1NW363602029	F10903	DERRYHOOLY TRIBUTARY AT CORRY	Classify for Chemistry
	F10947	DERRYHOOLY TRIBUTARY AT DERRYLANEY	Classify for Biology
GBNI1NW363602030	F10922	COONEEN WATER AT GROGEY BRIDGE	Classify for Chemistry

	F10706	COONEEN WATER AT LEGATILLIDA	Classify for Biology
GBNI1NW363602035	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602038	F10901	TAMLAGHT TRIBUTARY AT TAMLAGHT	Classify for Chemistry
GBNI1NW363602039	F10669	ERNE R AT ENNISKILLEN	Classify from this station
GBNI1NW363602043	F10709	COOLCRAN BURN AT TATTINWEER	Risk Assess (catchment 29.0%)
	F10720	TEMPO R AT TATTINWEER BR	Classify for Biology
	F10920	TEMPO RIVER AT IMEROO	Classify for Chemistry
GBNI1NW363602050	F10753	MOHER R AT CORRY BR	Average with F10735
	F10735	SWANLINBAR R AT THOMPSONS BR	Average with F10753
GBNI1NW363602051	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602054	F10710	PUBBLE BURN AT PUBBLE BR	Classify from this station
GBNI1NW363602100	F10902	STARRAGHEN TRIBUTARY AT STARRAGHEN BRIDGE	Classify for Chemistry
GBNI1NW363602102	F10902	STARRAGHEN TRIBUTARY AT STARRAGHEN BRIDGE	Classify using F10902 downstream
GBNI1NW363602101	F10902	STARRAGHEN TRIBUTARY AT STARRAGHEN BRIDGE	Classify using F10902 downstream
GBNI1NW363602063	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602104	F10725	KILLYLACKY R ABOVE ROSE LOUGH	Classify for Biology
	F10923	KILLYLACKY RIVER AT LACKY BRIDGE	Classify using F10923 downstream for Chemistry
GBNI1NW363602103	F10923	KILLYLACKY RIVER AT LACKY BRIDGE	Average with others
	F10732	LACKEY R AT CARRA OLD BR	Average with others
	F10733	LACKEY R AT KNOCKBALLYMORE	Average with others
GBNI1NW363602067	F10734	WOODFORD R AT AGHALANE	Classify for Chemistry
GBNI1NW363602106	F10727	BUNLOUGHER BURN AT BRUSCARNAGH	Average with others
	F10723	CROCKADA R AT DERRYVOLAN	Average with others
	F10724	LOUGH TAWY R AT CRINASH	Average with others
	F10731	FINN (ERNE) R AT ROSSLEA	Average with others
GBNI1NW363602097	F10729	FINN (ERNE) R AT BALLYHOE BR	Average with F10728
	F10728	FINN (ERNE) R AT WATTLE BR	Average with F10729
GBNI1NW363602105	F10731	FINN (ERNE) R AT ROSSLEA	Classify from this station
GBNI1NW363602081	F10722	CLEEN R AT CORRALONGFORD	Classify using F10722 downstream
	F10707	CLEEN R AT KILTERMON BR	Risk Assess
	WNWFIV1	FIVEMILETOWN WWTW (OLD DISCHARGE POINT)	Risk Assess
GBNI1NW363602082	F10707	CLEEN R AT KILTERMON BR	Classify from this station
GBNI1NW363602083	F10708	RAMULT BURN AT RAMULT	Classify from this station
GBNI1NW363602085	F10721	MANY BURNS R AT MANYBURNS BR	Classify from this station
GBNI1NW363602086	F10717	COLEBROOKE R AT POLLBOY BR	Classify using F10717 downstream
GBNI1NW393901002	F10764	BALLYMAGRORTY STREAM AT UPPER GALLIAGH ROAD	Risk Assess
	F10763	SKEOGE RIVER AT ELAGH ROAD	Classify using F10763 downstream
	F10765	BALLYMAGRORTY STREAM AT BALLYMAGRORTY	Risk Assess

	F10767	SKEOGE RIVER AT FANNY WYLIE'S BRIDGE	Risk Assess (catchment 13.4%)
GBNI1NW262601001	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW353502006	NONE	NO NI MON	Classify using ROI site
GBNI1NW353502007	NONE	NO NI MON	Classify using ROI site
GBNI1NW363602099	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602098	NONE	NONE SUITABLE	Classify from Pressures and Impacts assessments
GBNI1NW363602096	NONE	NO NI MON	Classify using ROI site
GBNI1NW010103062	NONE	NO NI MON	Classify using ROI site
GBNI1NW010103064	F10979	R DERG AT CROCKNACUNNY FOREST	Classify using F10979 downstream
GBNI1NW010103065	NONE	NO NI/ROI MON	Classify from Pressures and Impacts assessments