

Erne Catchment Assessment 2010-2015 (HA 36)



Catchment Science & Management Unit

Environmental Protection Agency

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Preface

This document provides a summary of the characterisation outcomes for the water resources of the Erne Catchment, which have been compiled and assessed by the EPA, with the assistance of local authorities and RPS consultants. The information presented includes status and risk categories of all water bodies, details on protected areas, significant issues, significant pressures, load reduction assessments, recommendations on future investigative assessments, areas for actions and environmental objectives. The characterisation assessments are based on information available to the end of 2015. Additional, more detailed characterisation information is available to public bodies on the EPA WFD Application via the EDEN portal, and more widely on the catchments.ie website. The purpose of this document is to provide an overview of the situation in the catchment and help inform further action and analysis of appropriate measures and management strategies.

This document is supported by, and can be read in conjunction with, a series of other documents which provide explanations of the elements it contains:

1. An explanatory document setting out the full characterisation process, including water body, subcatchment and catchment characterisation.
2. The Final River Basin Management Plan, which can be accessed on: www.catchments.ie.
3. A published paper on Source Load Apportionment Modelling, which can be accessed at: <http://www.jstor.org/stable/10.3318/bioe.2016.22>
4. A published paper on the role of pathways in transferring nutrients to streams and the relevance to water quality management strategies, which can be accessed at: <http://www.jstor.org/stable/pdf/10.3318/bioe.2016.19.pdf>
5. An article on Investigative Assessments which can be accessed at: <https://www.catchments.ie/download/catchments-newsletter-sharing-science-stories-june-2016/>

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1 Introduction

This catchment includes the area drained by the River Erne and all streams entering tidal water between Aughrus Point and Kildoney Point, Co. Donegal. This is a cross border catchment with a surface area of 4,415 km², 2,512 km² of which is located within the Republic of Ireland (RoI). The largest urban centre is Cavan Town. The other main urban centres are Bundoran, Ballyshannon, Clones, Ballybay, Cootehill and Belturbet. The total population (in the RoI area) is approximately 86,000 km², with a population density of 34 people per km².

There are three isolated parts of the catchment located in the RoI, one around Ballyshannon, one near Blacklion, and the southern part occupying much of Counties Cavan and Monaghan.

The River Erne rises on the southern slopes of Denmore Hill between Ballyjamesduff and Cavan Town flowing south west into Lough Gowna and Lough Oughter near Killashandra where it is joined by the Cullies River. The Erne then flows north-east where it meets the Annalee River to the west of Butlers Bridge.

The Annalee River drains the south-eastern part of the catchment, and is fed by the Bunnoe, Dromore, Knappagh, Madabawn, Laragh and Cavan Rivers. Past Ballyhaise, the Cavan River flows in from the south, having drained the area surrounding Cavan Town, before the Annalee flows into the River Erne.

The Erne flows north from here, past Belturbet and into Upper Lough Erne and County Fermanagh. At the border the Erne is joined by the Finn River from the east.

The Woodford River rises in the uplands to the east of Lough Allen as the Aghacashalun River and flows through Newtown Gore near which it is joined by the Blackwater before flowing along the border and into the southern tip of Upper Lough Erne. The Colebrook River flows into the lake from the north east and the Swanlibar River from the west. The Swanlibar River and its tributaries flow off the eastern flanks of Cuilcagh Mountain and turn north-east running through Swanlibar and across the border into Upper Lough Erne.

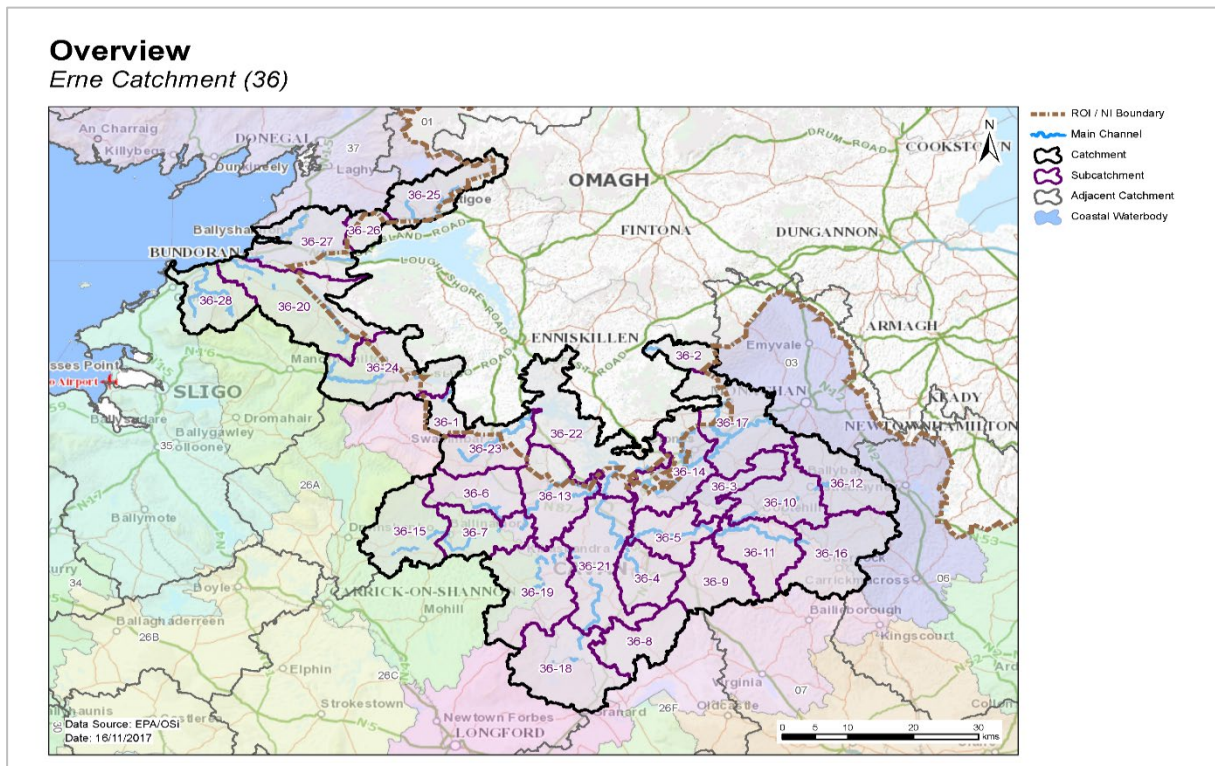


Figure 1. Subcatchments in the Erne catchment

The River Erne outflows from Lough Erne, is joined by the River Arney from the west, and then flows north through a series of meandering channels.

The Sillees River drains much of County Fermanagh between the western side of Lower Lough Erne, the Macnean Lakes and the Drowes River catchment. The Sillees River flows southeast, entering the Erne just upstream of Enniskillen. After the Erne flows through Enniskillen, it enters the southern end of Lower Lough Erne, the second largest lake in Northern Ireland. The area of the catchment to the east of the lake is drained by the Ballycassidy, Kesh and Brannagh Rivers. The area to the north of the lake is drained by the Termon or Billary River, and the Waterfoot River, and their tributaries, both of which run along the border for some of their length. The River Erne flows out of the north-western end of the lake and passes through the ESB Cliff generating station, and into Assaroe Lake before passing through a second ESB hydroelectric generating station at Cathleen's Falls in Ballyshannon, and out to sea in Donegal Bay at the northern end of Tullan Strand.

The Erne catchment comprises 28 sub-catchments (Table 1, Figure 1) with 129 river water bodies, 132 lakes, three transitional, two coastal water bodies, and 39 groundwater bodies. There are two heavily modified water bodies (HMWBs) and one artificial water body (AWB) in the catchment.

Table 1. List of subcatchments in the Erne catchment

| Subcatchment ID | Subcatchment Name |
|-----------------|-------------------------------------|
| 36_1 | MacneanTribCuilcaghMountains_SC_010 |
| 36_2 | Colebrook River[Cooneen]_SC_010 |
| 36_3 | Bunnoe_SC_010 |
| 36_4 | Cavan_SC_010 |
| 36_5 | Annalee_SC_030 |
| 36_6 | Blackwater[Newtowngore]_SC_010 |
| 36_7 | Blackwater[Newtowngore]_SC_020 |
| 36_8 | Erne_SC_010 |
| 36_9 | Laragh_SC_010 |
| 36_10 | Dromore_SC_020 |
| 36_11 | Annalee_SC_020 |
| 36_12 | Dromore_SC_010 |
| 36_13 | Woodford[Cavan]_SC_010 |
| 36_14 | Finn[Monaghan]_SC_020 |
| 36_15 | Yellow[Ballinamore]_SC_010 |
| 36_16 | Annalee_SC_010 |
| 36_17 | Finn[Monaghan]_SC_010 |
| 36_18 | Erne_SC_020 |
| 36_19 | Cullies_SC_010 |
| 36_20 | Drowes_SC_010 |
| 36_21 | Erne_SC_030 |
| 36_22 | Erne_SC_040 |
| 36_23 | Swanlinbar_SC_010 |
| 36_24 | MacneanLoughsconnector_SC_010 |
| 36_25 | BILLARY_SC_010 |
| 36_26 | TullynasiddaghLoughStream_SC_010 |
| 36_27 | Erne_SC_050 |
| 36_28 | Duff_SC_010 |

2 Water body status and risk of not meeting environmental objectives

2.1 Surface water ecological status

2.1.1 Rivers and lakes

- ◆ There were 47 (18%) river and lake water bodies at Good or High status, and 85 (33%) at less than Good status in 2015 (Table 2). 39 (15%) river water bodies and 90 (34%) lake water bodies are unmonitored. The status of the surface water body for the period 2010-2015 is shown in Figure 2.
- ◆ Seven river water bodies have a high status objective. In 2015, five of these water bodies were at High status and two were at Good (Appendix 1, Figure 3).
- ◆ Since 2007-09. Twenty-three river water bodies and three lake water bodies have improved, and 15 river water bodies and 11 lake water bodies have deteriorated.
- ◆ The number of water bodies at each status class in 2007-09 and 2010-2015 are shown in Figure 4 (rivers), Figure 5 (lakes) with the catchment-wide changes illustrated in Figure 7.
- ◆ The variation in nutrient concentrations and loads in the Erne main channel is described and illustrated in Appendix 2.

2.1.2 Transitional and Coastal (TraC)

- ◆ Of the five TraC water bodies in the catchment, one is Moderate status and remaining four are not monitored and therefore have no status assigned to them (Table 2). One of the coastal water bodies in this catchment, Donegal Bay (Erne), is shared with two neighbouring catchments, HA 35 and 37.
- ◆ There are no TraC water bodies with a High Ecological Status objective.
- ◆ The number of TraC water bodies at each status class in 2007-09 and 2010-2015 are shown in and Figure 6.

Table 2. Summary of surface water body status and risk

| | Number of water bodies | 2010-2015 Status | | | | | | Risk Categories | | |
|--------|------------------------|------------------|------|-----|------|-----|--------------|-----------------|--------|---------|
| | | High | Good | Mod | Poor | Bad | Un-monitored | Not at Risk | Review | At Risk |
| Rivers | 129 | 8 | 34 | 19 | 29 | 0 | 39 | 42 | 27 | 60 |
| Lakes | 132 | 0 | 5 | 18 | 10 | 9 | 90 | 8 | 85 | 39 |
| TraCs | 5 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | 2 | 1 |

WFD Surface Water Body Status 2010 - 2015

Erne Catchment (36)

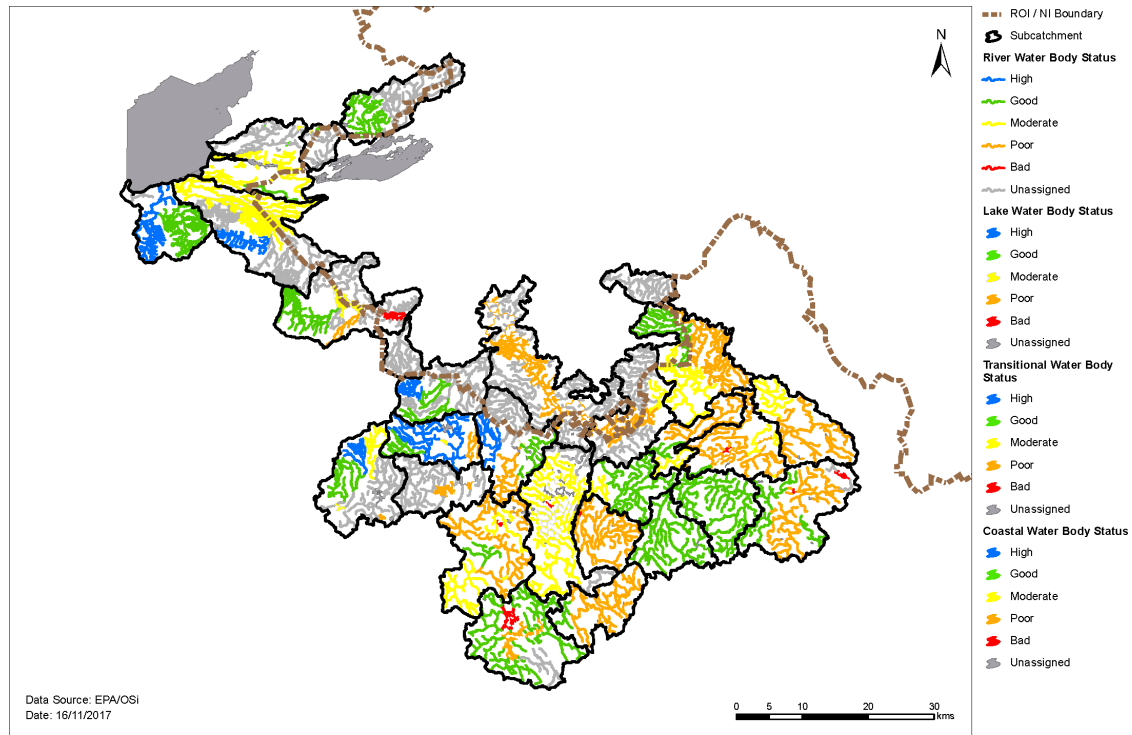


Figure 2. Surface water ecological status.

High Status Objective Water Bodies and Sites

Erne Catchment (36)

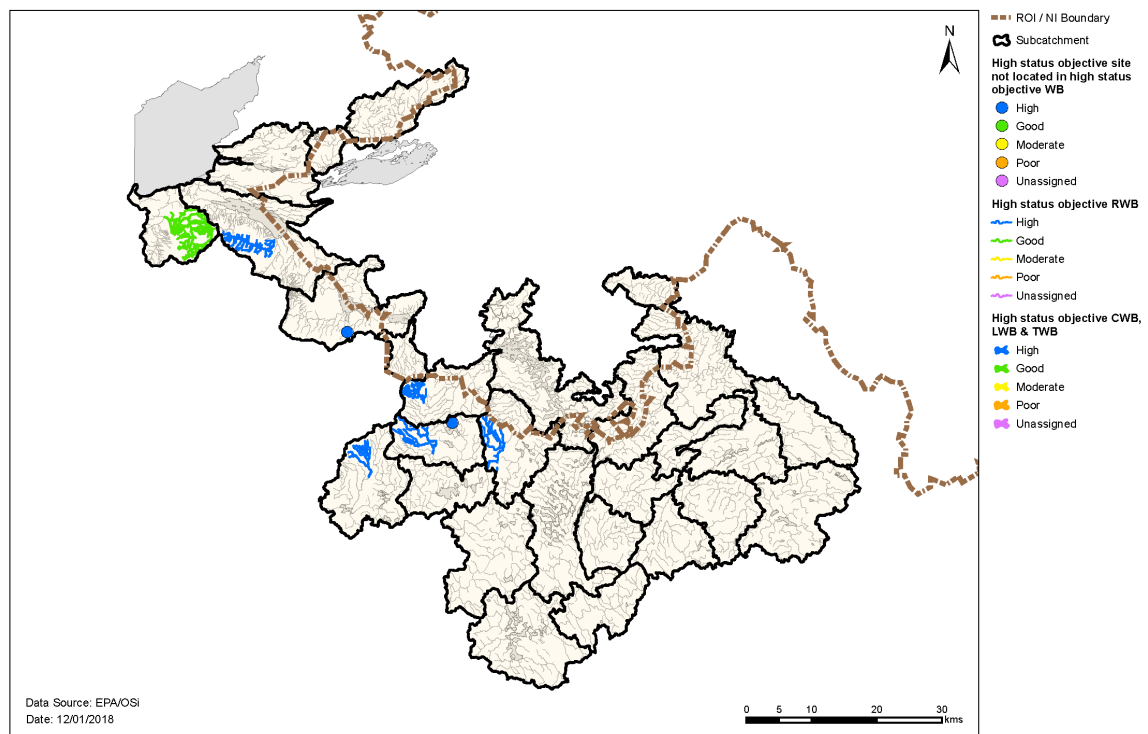


Figure 3. High ecological status objective water bodies and sites.

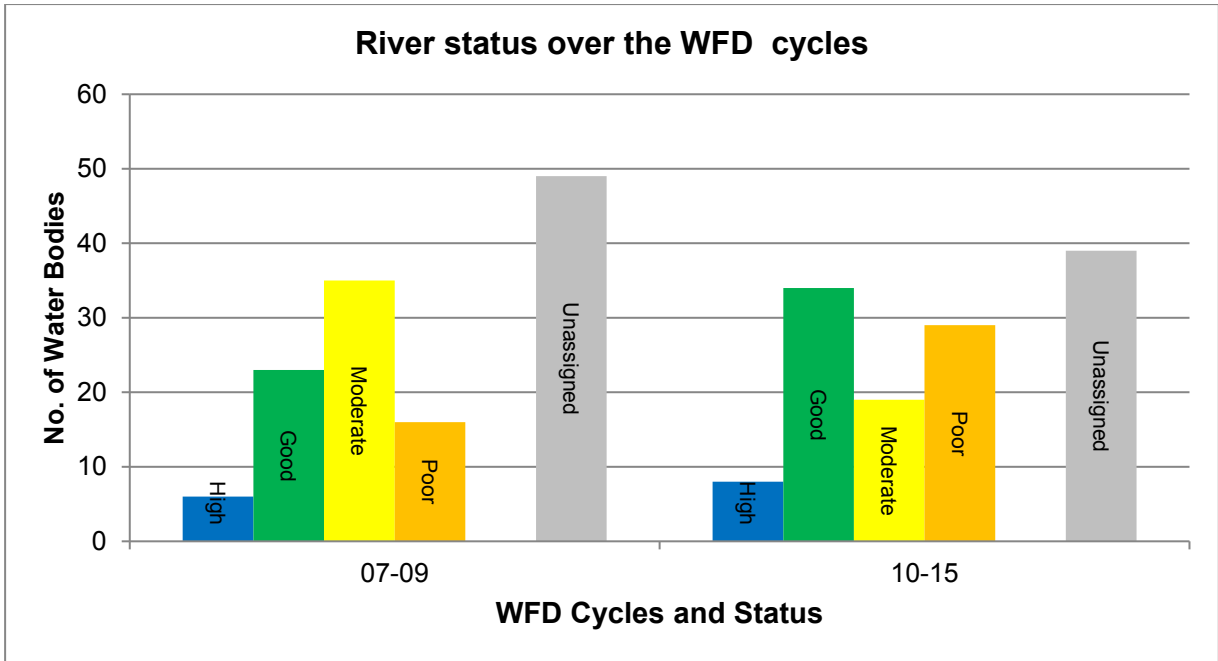


Figure 4. Number of rivers at each status class in 2007-09 and 2010-2015

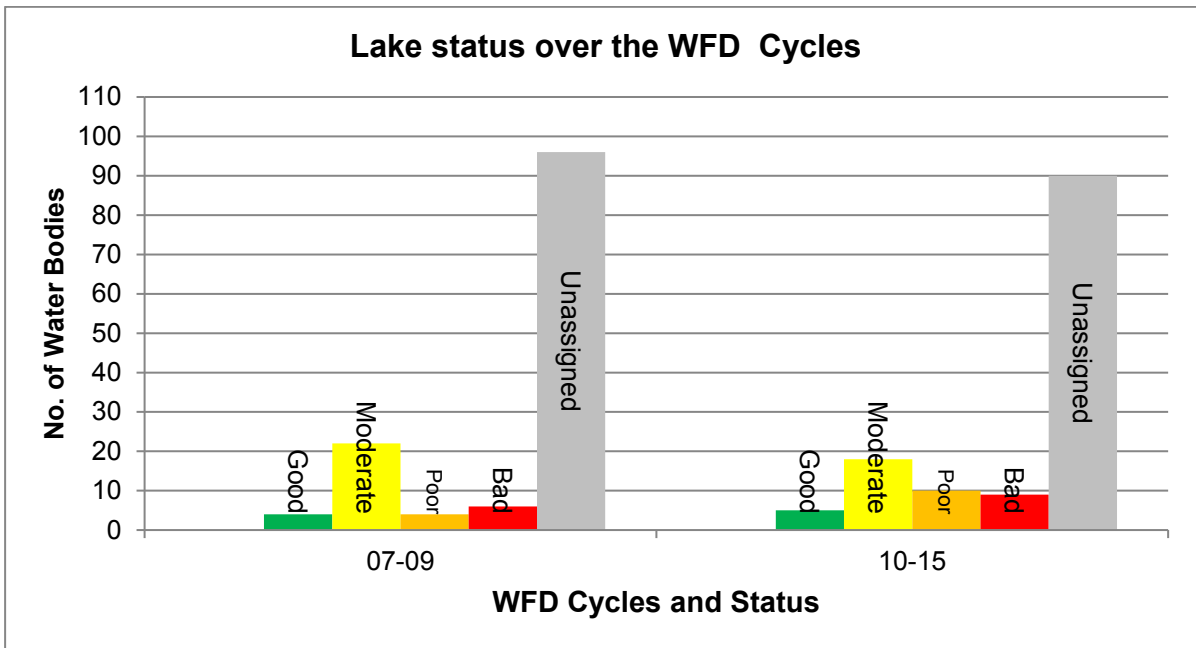


Figure 5. Number of lakes at each status class in 2007-09 and 2010-2015

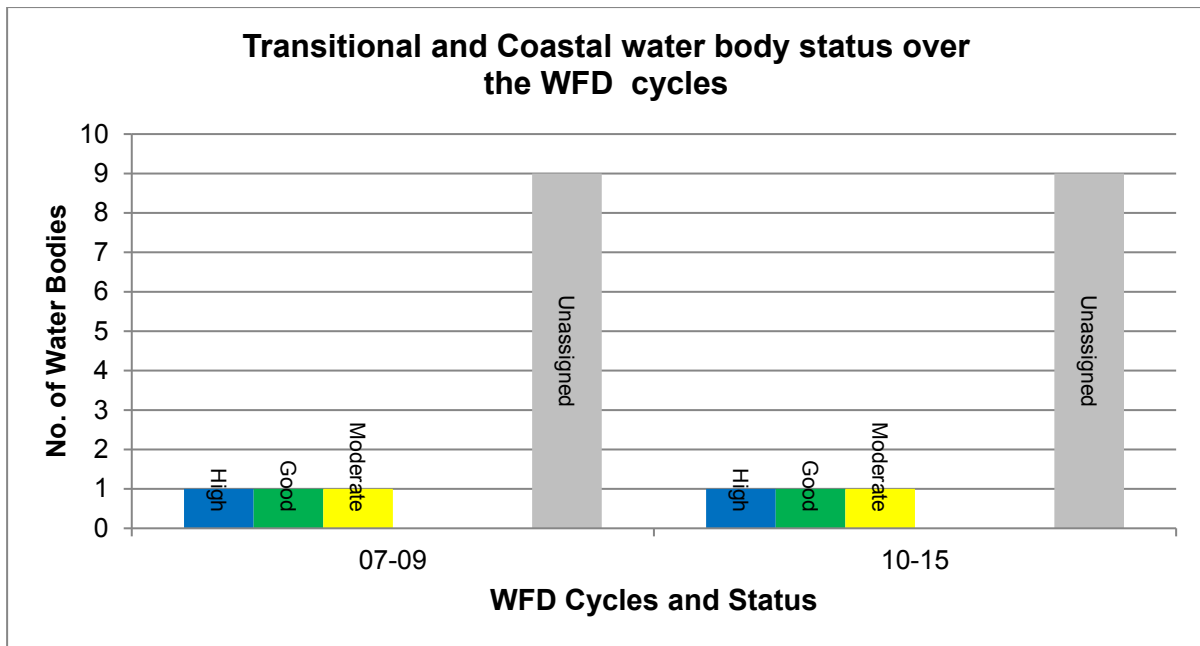


Figure 6. Number of transitional and coastal water bodies at each status class in 2007-09 and 2010-15

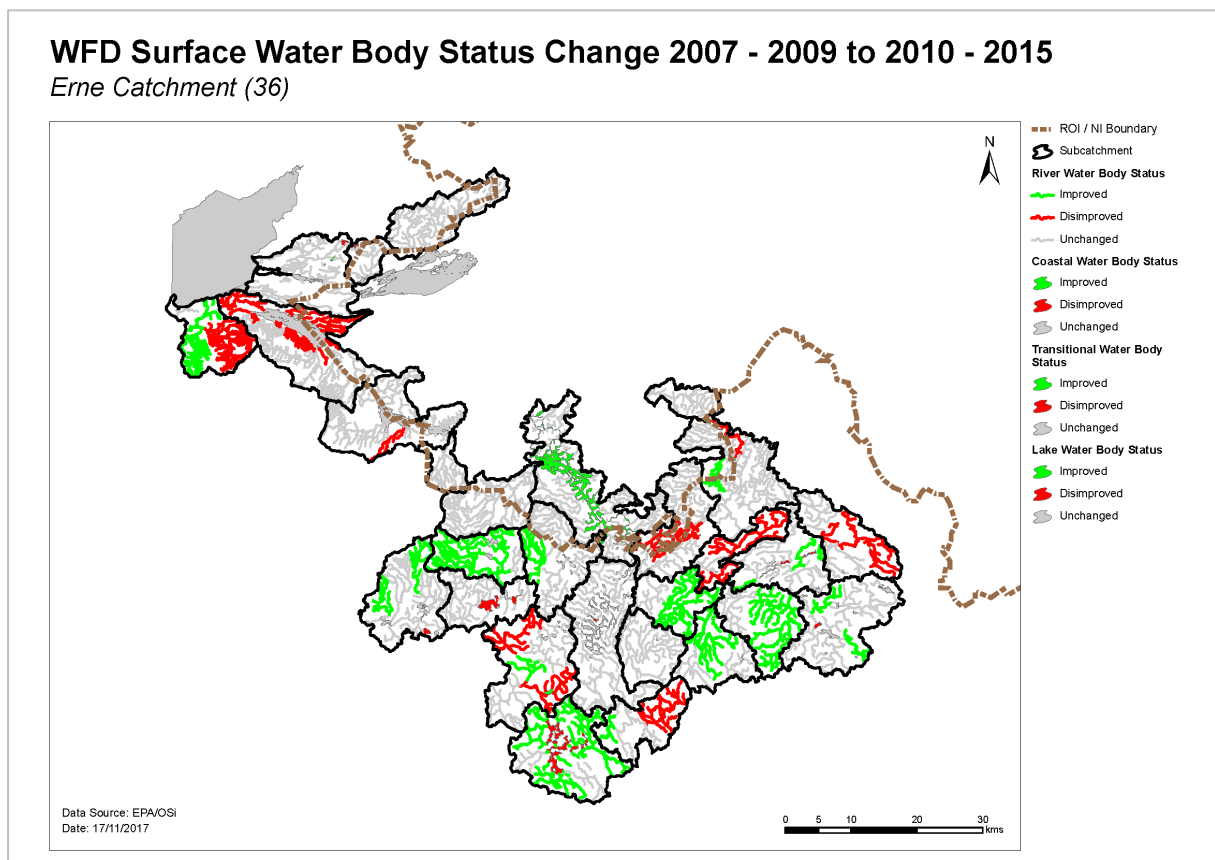


Figure 7. Surface water body status changes from 2007-09 to 2010-2015.

2.2 Groundwater Status

- ◆ All 39 (100%) groundwater bodies are at Good status, (Table 3, Figure 8).

Table 3. Summary of groundwater body status and risk

| | Number of water bodies | 2010-2015 status | | Risk | | |
|-------------|------------------------|------------------|------|-------------|--------|---------|
| | | Good | Poor | Not at Risk | Review | At Risk |
| Groundwater | 39 | 39 | 0 | 30 | 9 | 0 |

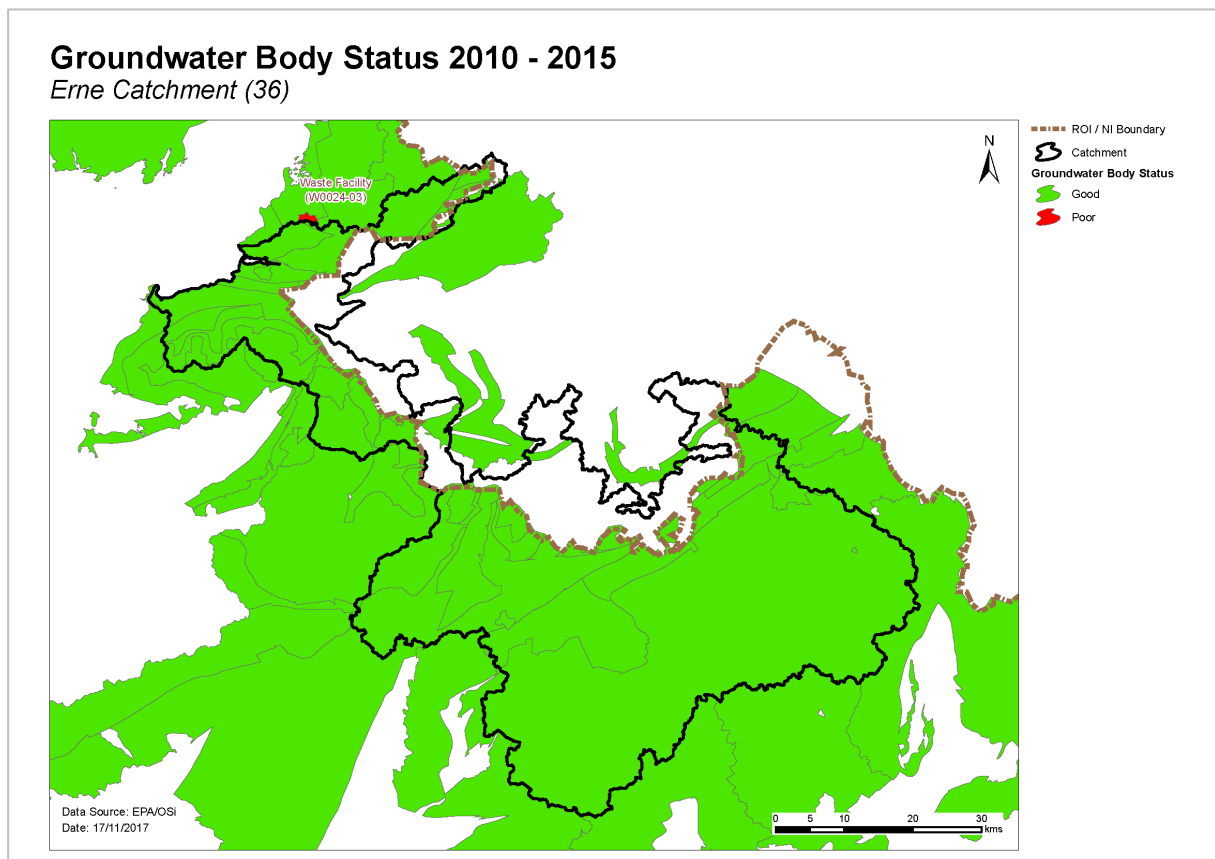


Figure 8 – Groundwater Body Status

2.3 Risk of not meeting surface water environmental objectives

2.3.1 Rivers and lakes

- ◆ Forty-two river water bodies and eight lake water bodies water are *Not at Risk* (Figure 9, Table 2) and require no additional investigative assessment or measures to be applied, other than those measures that are already in place.
- ◆ Twenty-seven river water bodies and 85 lake water bodies are in *Review*. This applies to 89 (23 river and 65 lake) water bodies where more information is required and 24 (4 river and 20 lake) water bodies where measures have recently been implemented and improvements have not yet been realised.

- ◆ Sixty river water bodies and 39 lake water bodies in the catchment are *At Risk* of not meeting their water quality objectives. Measures will be needed in the catchment areas water bodies to improve the water quality outcomes.
- ◆ Summary information for the *At Risk* water bodies is given in Appendix 3.

2.3.2 Transitional and Coastal (TraC)

- ◆ Two TraC water bodies are *Not at Risk* (Figure 9, Table 2) and require no additional investigative assessment or measures to be applied, other than those measures that are already in place.
- ◆ Two TraC water bodies are in *Review* where more data and information is required.
- ◆ One TraC water body IE_NW_030_0100 the Erne Estuary is *At Risk* of not meeting its water quality objectives. Measures will be needed in these water bodies to improve the water quality outcomes.

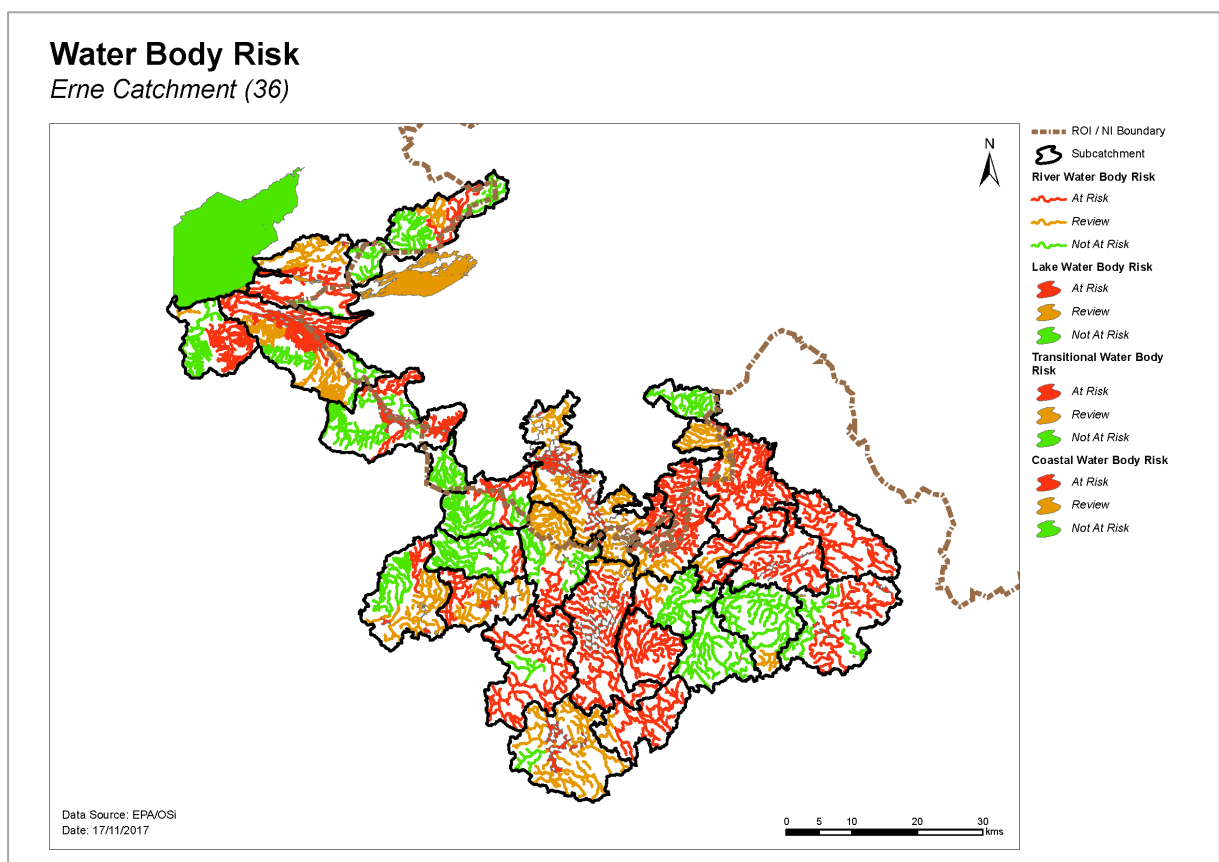


Figure 9. Surface water body risk.

2.4 Risk of not meeting groundwater body environmental objectives

- ◆ All 39 groundwater bodies are *Not at Risk* (Figure 10, Table 3) and require no additional investigative assessment or measures to be applied, other than those measures that are already in place.
- ◆ No groundwater bodies are *At Risk* of not meeting their water quality objectives.

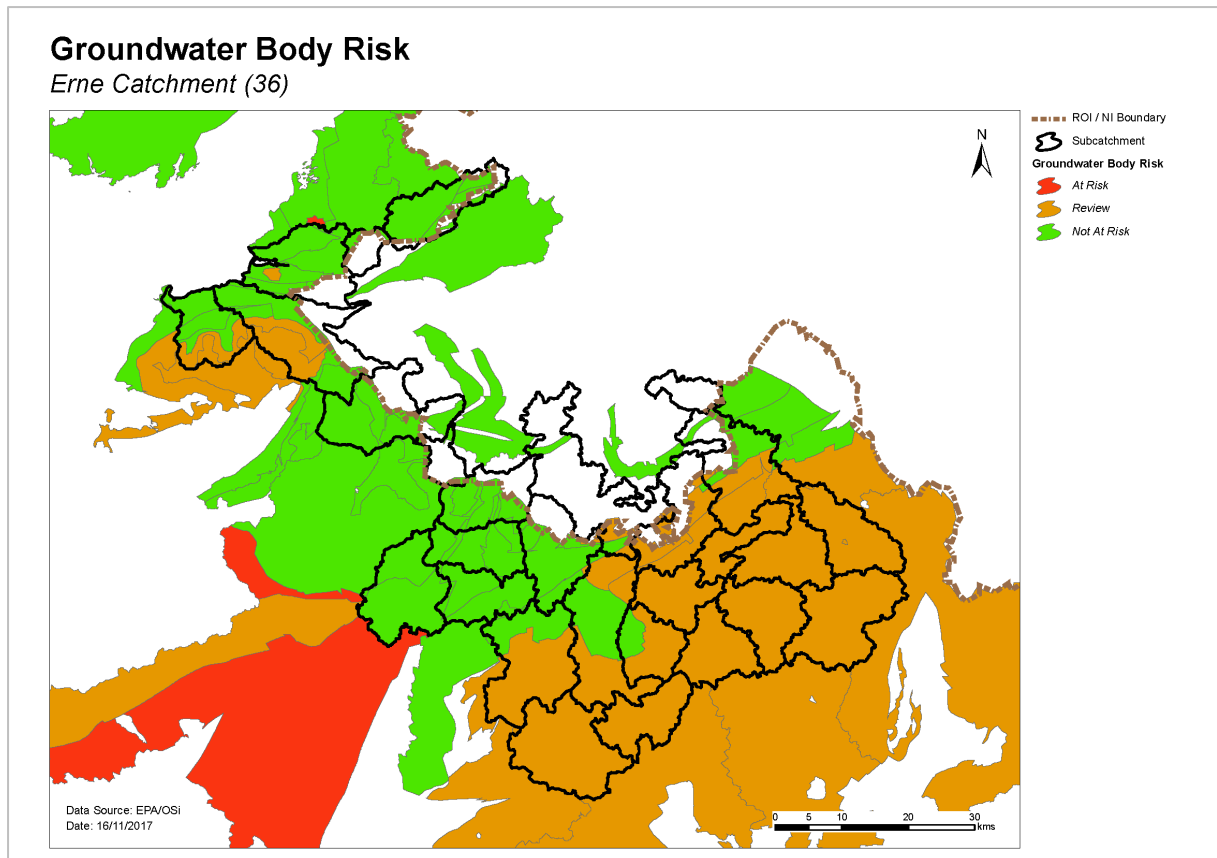


Figure 10. Groundwater body risk

2.5 Protected Areas

2.5.1 Drinking Water Protected Areas

- ◆ There are 59 abstractions in the Erne Catchment, comprising of 22 group water schemes (Corlough GWS, Milltown GWS, Templeport GWS, Kildallan GWS, Carrigallen GPR, Drumeela GPR, Ballinrillick GWS, Magheraclaone GWSS, Annagh GWS, Bunnoe GWS, Crosserlough GWS, Erne Valley GWS, Kill GWS, Mountainlodge GWS, Corduff-Corracharra GWSS, Doohamlet GWSS, Drumgole GWSS, Stranoodan GWSS, Aughnashalvey GWSS, Barraghy GWS, Dernakesh GWS and Dhuish GWS) and 16 public supplies (Ballyconnell PWS, Bawnboy PWS, Mountain Spring, Smithboro, Pettigo WTP, Ballyshannon, Kiltyclogher, Clones, Bundoran Urban, Cavan PWS, Cootehill PWS, Gowna, LERWSS, Newbliss, Monaghan, and Belturbet PWS).
- ◆ Twenty eight of the abstractions are located in 10 groundwater bodies (Aninerin-Cuilcagh, Killashandra, Newtown-Ballyconnell, Cavan, Rossinver, Ballinamore-Swanlinbar, Ballyshannon East, Ballyshannon, Clones and Kiltyclogher), 27 abstractions are from 11 lakes designated under WFD (Annagh Lough, Killynenagh Lough, Garty, Namachree, Killcoran, Melvin, Acanon and Corcaghan) and 9 lakes which are not designated under WFD; and 4 abstractions are from 8 rivers (Erne_090, Annalee_020 and Annalee_030). The list of the public supplies and the associated water bodies is provided in Appendix 4.
- ◆ All sources were compliant with the standards for nitrate in 2015.
- ◆ All sources, apart from Lough Bawn (2400PUB1001), were compliant with the standards for pesticides in 2015 and therefore met their WFD objectives.
- ◆ Lough Bawn has not met its drinking water protected area requirement due to the presence of MCPA.

2.5.2 Bathing Waters

- ◆ There are no freshwater bathing waters in the Erne catchment. There are two marine bathing waters and both are in satisfactory condition. The list of the bathing waters and the associated water bodies is provided in Table 4.

Table 4. Bathing Waters in the catchment

| Bathing Water | | Water Body Intersection | | Objective met? | |
|---------------|----------------------|-------------------------|----------------|----------------|----|
| Name | Code | Name | Code | Yes | No |
| Bundoran | IENWBWC020_0000_0100 | Bundoran Bay | IE_NW_020_0000 | ✓ | |
| Mullaghmore | IENWBWC010_0000_0300 | Donegal Bay (Erne) | IE_NW_010_0000 | ✓ | |

2.5.3 Shellfish Areas

- ◆ There are no designated shellfish areas in the Erne catchment.

2.5.4 Nutrient Sensitive Areas

- ◆ There are two designated Nutrient Sensitive Areas (NSAs) in the Erne catchment. The NSAs are associated with Cavan waste water treatment and both are compliant with their environmental objectives. The list of NSAs and the associated water bodies are provided in Table 5.

Table 5. Nutrient Sensitive Areas in the catchment

| Nutrient Sensitive Area | | Agglomeration | | Objective met? | | Comment |
|-----------------------------|-----------------------|---------------|-------|----------------|----|---------------------------------|
| Name | Code | Name | Code | Yes | No | |
| Lough Oughter, County Cavan | IEGBNILK_NW_1994_0010 | Cavan | D0020 | ✓ | | Tertiary treatment is in place. |
| Cavan (River) | IEGBNIRI_NW_2001_0013 | | | | | |

2.5.5 Natura 2000 Sites

- ◆ There are 13 Special Areas of Conservation (SACs) in the catchment, not all of which have water quality and/or quantity conservation objectives for their qualifying interests.
- ◆ Seven lake water bodies have been prioritised for action as the water conservation objectives for their habitats and/or species are not being supported by ecological status (Appendix 5).
- ◆ There are four Special Protected Areas (SPAs) in the catchment:
 - Donegal Bay SPA
 - Lough Oughter SPA
 - Slieve Beagh SPA
 - Sligo/Leitrim Uplands SPA

As there are no specific water quality and quantity supporting conditions identified in the site-specific conservation objectives for these SPAs, the intersecting water bodies are not assigned priority action for WFD protected area purposes in the second cycle.

2.6 Heavily modified water bodies

- ◆ There are three heavily modified water bodies (HMWBs) in the catchment due to power generation – Assaroe Lake, Erne_120 and Erne Estuary (the latter two were made up of two HMWBs in WFD Cycle 1- River Erne (Belleek to the dam) and Erne (downstream of Cathleen's Fall), respectively). Ecological potential was classified as unassigned for Assaroe Lake and Moderate for Erne_120 and Erne Estuary in 2010-2015.
- ◆ There is one artificial water body in the catchment – the Shannon-Erne Waterway.

3 Significant issues in *At Risk* water bodies

- ◆ Excess phosphorus is the dominant issue in rivers and lakes in the Erne Catchment. Excess ammonium is also a concern in a limited number of water bodies. Hydromorphological issues are noted for several rivers and lakes. The impact is poor habitat quality due to high levels of fine sediment and in-stream obstructions.
- ◆ Other significant issues which are of concern but for a limited number of water bodies include: invasive species (Zebra mussels) in several lakes and MCPA in one river water body.
- ◆ Fish Status and impairments to migration is the dominant issue in terms of TraC water bodies in this catchment.

4 Significant pressures

4.1 Water bodies

- ◆ Where water bodies have been classed as *At Risk*, due to water quality or survey data, significant pressures have been identified.
- ◆ Figure 11 shows a breakdown of the number of *At Risk* water bodies in each significant pressure category.

4.1.1 Rivers, lakes, transitional and coastal (TraC)

- ◆ Significant pressures have been identified by the initial characterisation process in 100 water bodies (60 rivers, 39 lakes and one transitional), 42 of which (31 rivers and 11 lakes) have multiple pressures. The significant pressures will be refined as further characterisation is carried out.
- ◆ Hydromorphology is the significant pressure in the single *At Risk* TraC water body in the catchment with a dam believed to be impairing the fish potential or Status in the Erne Estuary.
- ◆ The significant pressure affecting the greatest number of water bodies is agriculture, followed by urban waste water, other, diffuse urban, domestic waste water, hydromorphological pressures, forestry, industry, and peat drainage and extraction (Figure 11).

4.1.2 Groundwater

There are no groundwater bodies *At Risk*.

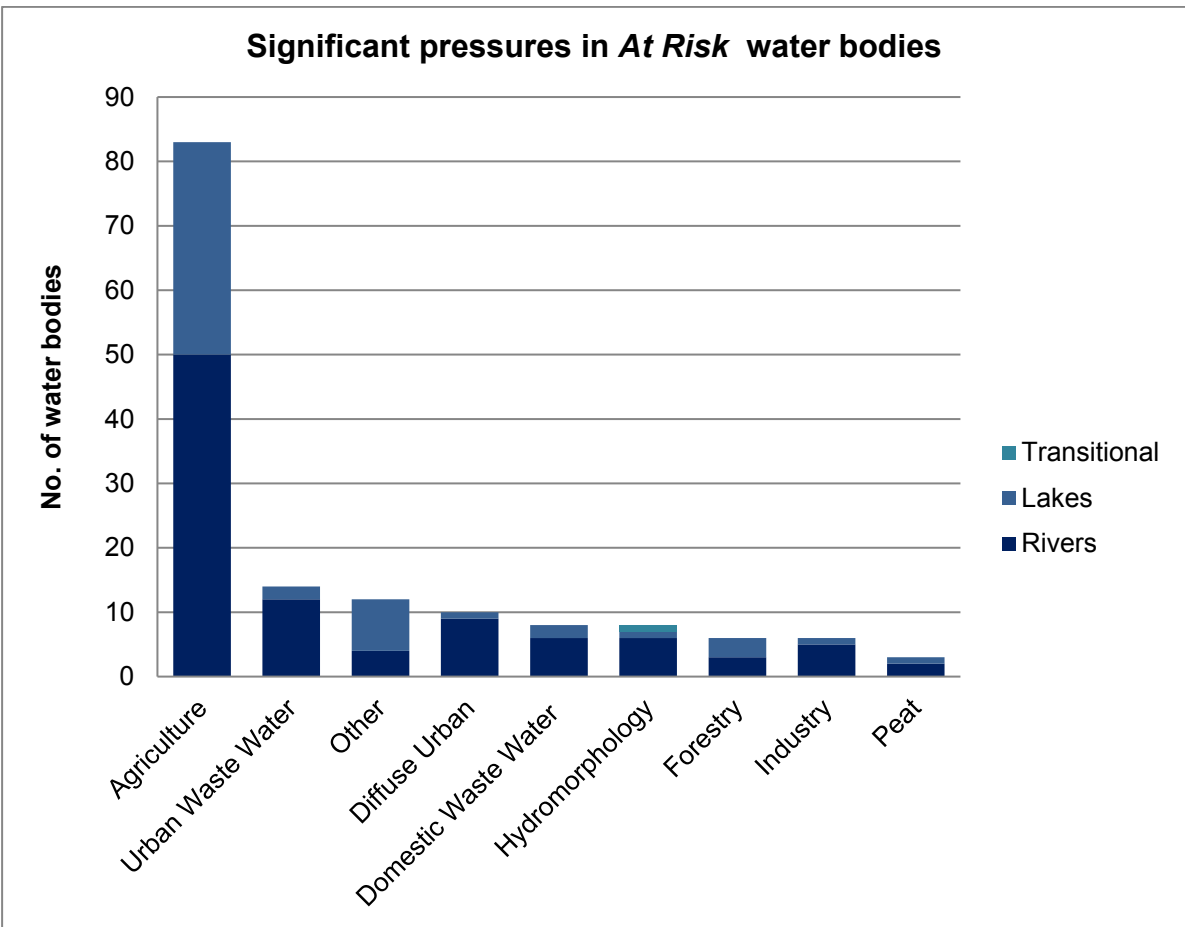


Figure 11. Significant pressures impacting on *At Risk* water bodies

4.2 Pressure types

4.2.1 Agriculture

- ◆ Agriculture is a significant pressure in 50 river and 33 lake water bodies; the affected water bodies are shown in Figure 12. The main impacts from agriculture include phosphorus loss to surface waters from, for example, direct discharges; or runoff from yards, roadways or other compacted surfaces, or runoff from poorly draining soils. Sediment can also be a problem from land drainage works, bank erosion from animal access or stream crossings. The pollution impact potential map showing areas of relative risk for phosphorus loss from agriculture to surface water is given in Appendix 6.

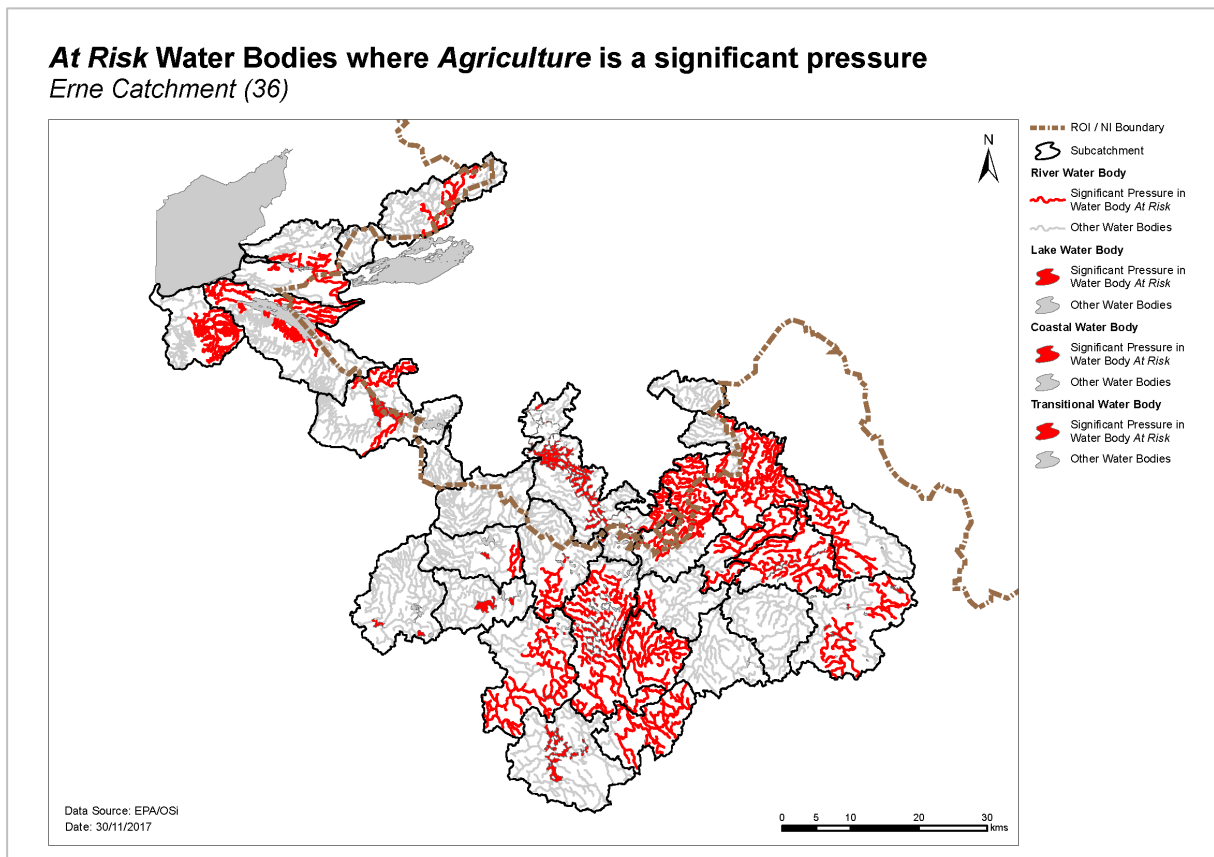


Figure 12. Water bodies that are *At Risk* and are impacted by agricultural activities

4.2.2 Urban waste water treatment plants

- ◆ Urban Waste Water Treatment Plants (WWTPs) and agglomeration networks have been identified as a significant pressure in 14 *At Risk* water bodies; details are given in Table 6 and Figure 13. Upgrade works at Cootehill WWTP, which impacts Dromore_070, are scheduled to be completed by 2024, while works on the Bundoran agglomeration network, which impacts Bradoge_020, and Ballinagh WWTP, which impacts Erne_070, are scheduled to be completed in 2018.

Table 6. Waste Water Treatment Plants and agglomerations identified as Significant Pressures in *At Risk* water bodies and expected completion dates for associated upgrade works, where applicable.

| Facility name | Facility Type | Water Body | 10-15 Ecological Status | Expected Completion Date |
|----------------------|----------------------|---------------------------------|--------------------------------|--------------------------|
| Ballybay D0207 | 2,001 to 10,000 p.e. | Dromore_040 | Poor | NA ¹ |
| Cootehill D0082 | 2,001 to 10,000 p.e. | Dromore_070 | Poor | 2024 |
| Clones D0206 | 2,001 to 10,000 p.e. | Finn (Monaghan)_040 | Moderate | NA ¹ |
| Clones D0206 | 2,001 to 10,000 p.e. | Finn (Monaghan)_050 | Poor | NA ¹ |
| Shercock D0495 | 500 to 1,000 p.e. | Sillan | Poor | NA ¹ |
| Shercock D0495 | 500 to 1,000 p.e. | Annalee_020 | Poor | NA ¹ |
| Smithborough D0464 | 500 to 1,000 p.e. | Finn (Monaghan)_020 | Moderate | NA ¹ |
| Newbliss D0458 | 500 to 1,000 p.e. | Finn (Monaghan)_030 | Moderate | NA ¹ |
| Threemilehouse A0020 | < 500 p.e. | Magherarney_010 | Poor | NA ¹ |
| Killeshandra D0499 | 500 to 1,000 p.e. | Cullies_050 | Poor | NA ¹ |
| Ballinagh D0501 | 1,001 to 2,000 p.e. | Erne_070 | Moderate | 2018 |
| Blacklion D0498 | 500 to 1,000p.e. | Lower Lough Macnean | Bad | NA ¹ |
| Pettigo A0461 | < 500 p.e. | Termon River (Pettigoe) | <i>Unassigned</i> ² | NA ¹ |
| Bundoran D0130 | 2,001 to 10,000 p.e. | <i>Bradoge_020</i> ³ | Moderate | 2018 |

4.2.3 Other significant pressures

Unknown Anthropogenic

- ◆ Three *At Risk* river water bodies and two lake water bodies have unknown pressures. These are Cross border water bodies with no readily identifiable, significant pressure Figure 14.

Invasive Species

- ◆ There are six *At Risk* surface water bodies impacted by Zebra mussels by Figure 15.

Abstraction

- ◆ One *At Risk* lake water body Corconnelly, being impacted by an abstraction, for a public drinking water supply.

¹ Currently not specified in improvement plans.

² Ecological Status is not available for Termon River (Pettigoe), however, following discussions with Donegal County Council, this water body was deemed to be *At Risk* of not meeting its environmental objectives.

³ The agglomeration network, rather than the WWTP, has been identified as a significant pressure impacting *Bradoge_020*.

At Risk Water Bodies where *Urban Waste Water* is a significant pressure
Erne Catchment (36)

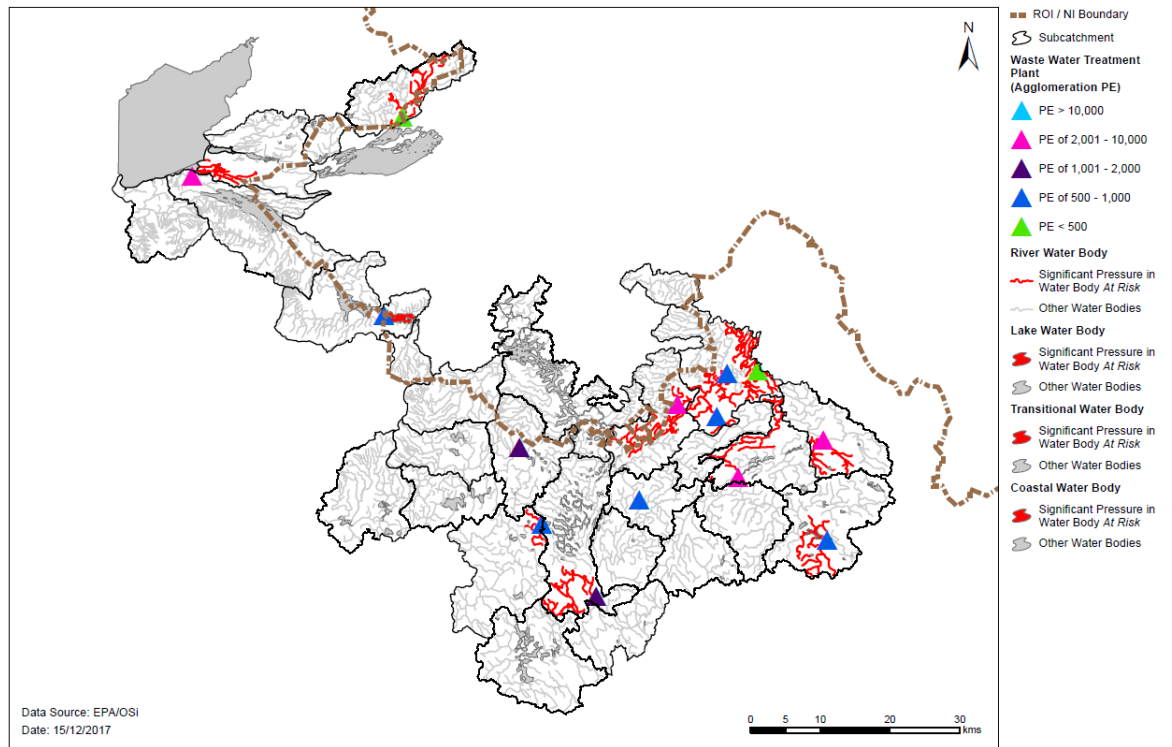


Figure 13. Water bodies that are *At Risk* and are impacted by Urban waste water

At Risk Water Bodies where *Other Anthropogenic Pressures* is a significant pressure
Erne Catchment (36)

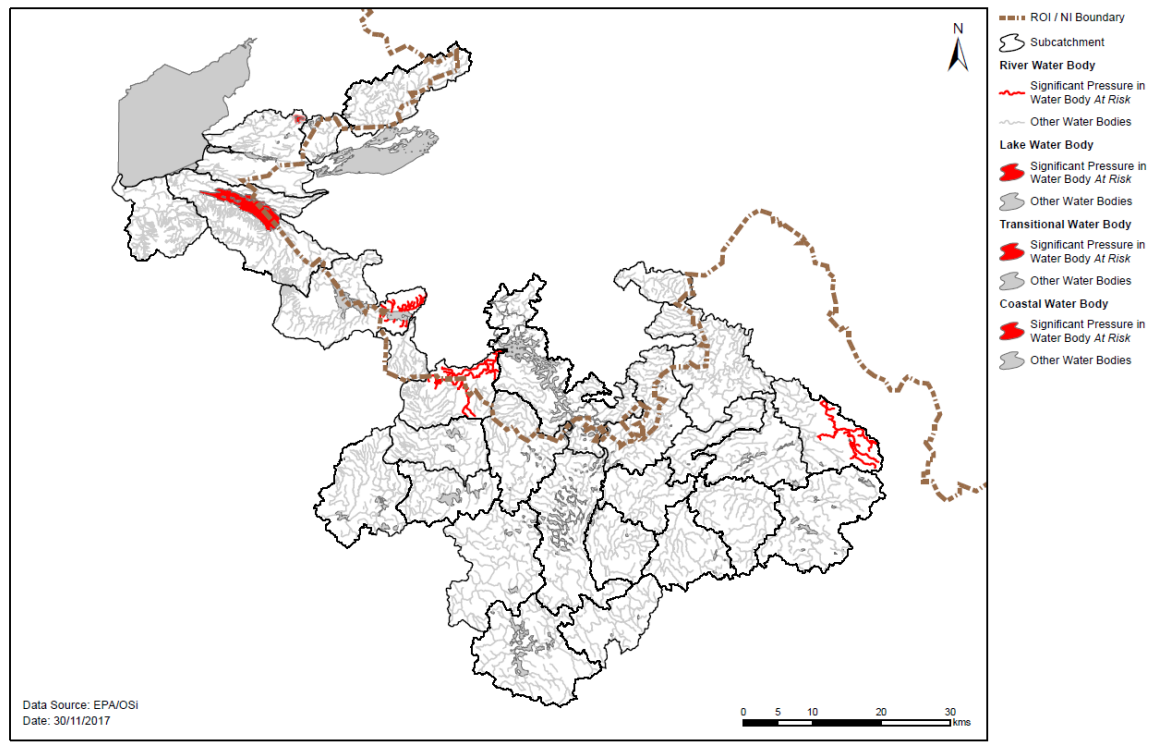


Figure 14. Water bodies that are *At Risk* and are impacted by other *Unknown Anthropogenic impacts*

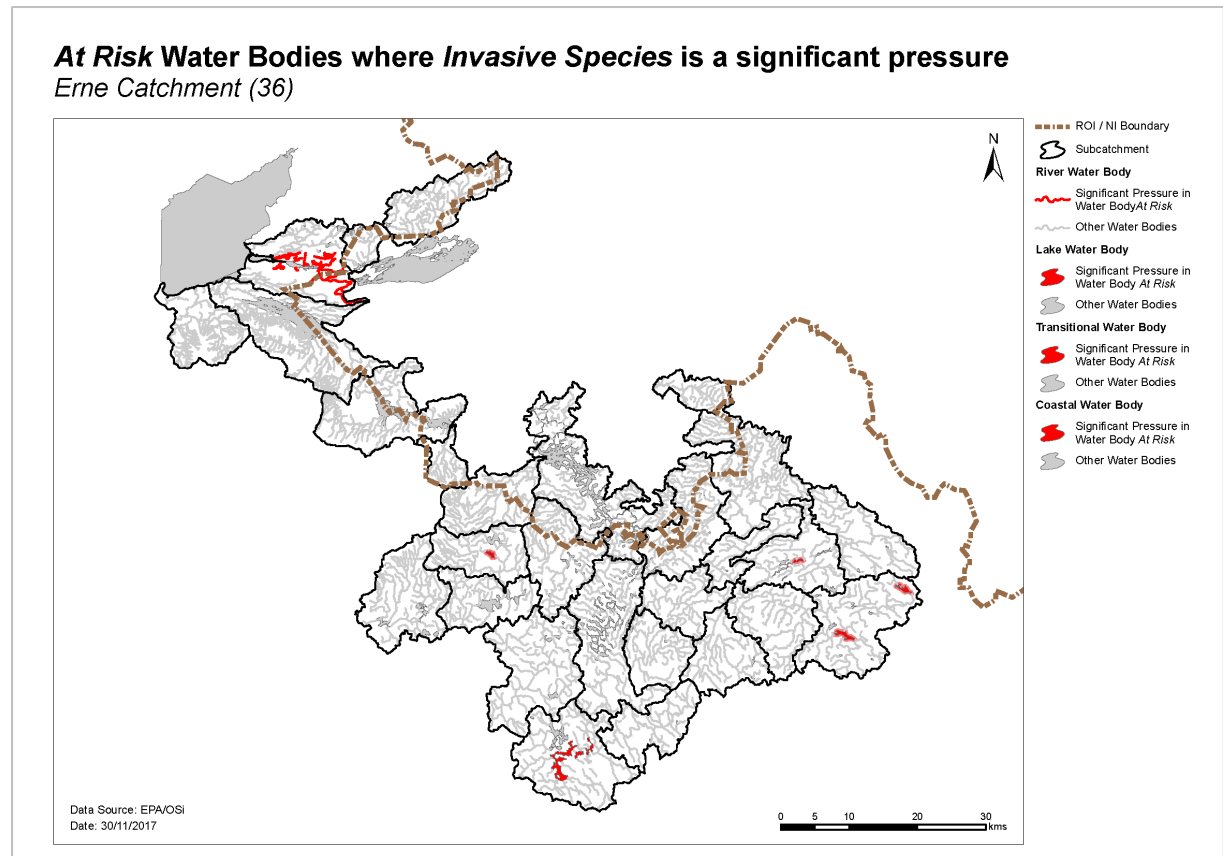


Figure 15. Water bodies that are *At Risk* and are impacted by Invasive Species

4.2.4 Diffuse urban

- ◆ Diffuse urban pressures, caused by misconnections, leaking sewers and runoff from paved and unpaved areas has been identified as a significant pressure in one lake and nine river water bodies in the Erne catchment. This pressure exists downstream of towns including Clones, Cavan and Ballybay. Elevated concentrations of phosphate and ammonia are the significant issues. The map showing water bodies which are *At Risk* where diffuse urban is a significant pressure is given Figure 16.

4.2.5 Domestic Waste water

- ◆ Domestic waste water has been identified as a significant pressure contributing nutrients in two lake and six river water bodies. Figure 17 shows water bodies *At Risk* from domestic waste water.

4.2.6 Hydromorphology

- ◆ River water bodies (6) within the Erne, Woodford [Cavan] and Cullies subcatchments, and a lake water body within the Blackwater [Newtowngore] subcatchment are subject to extensive modification. Drainage schemes are present which have led to altered flow and high levels of fine sediment. A weir is located at the outlet of Lough Bawn, which may be impacting on hydrological conditions within the downstream river water body of the Annalee subcatchment. The hydromorphological impacts in the Erne are also believed to be impacting on the fish status or potential in the Erne Estuary see Figure 18.

At Risk Water Bodies where *Diffuse Urban* is a significant pressure
Erne Catchment (36)

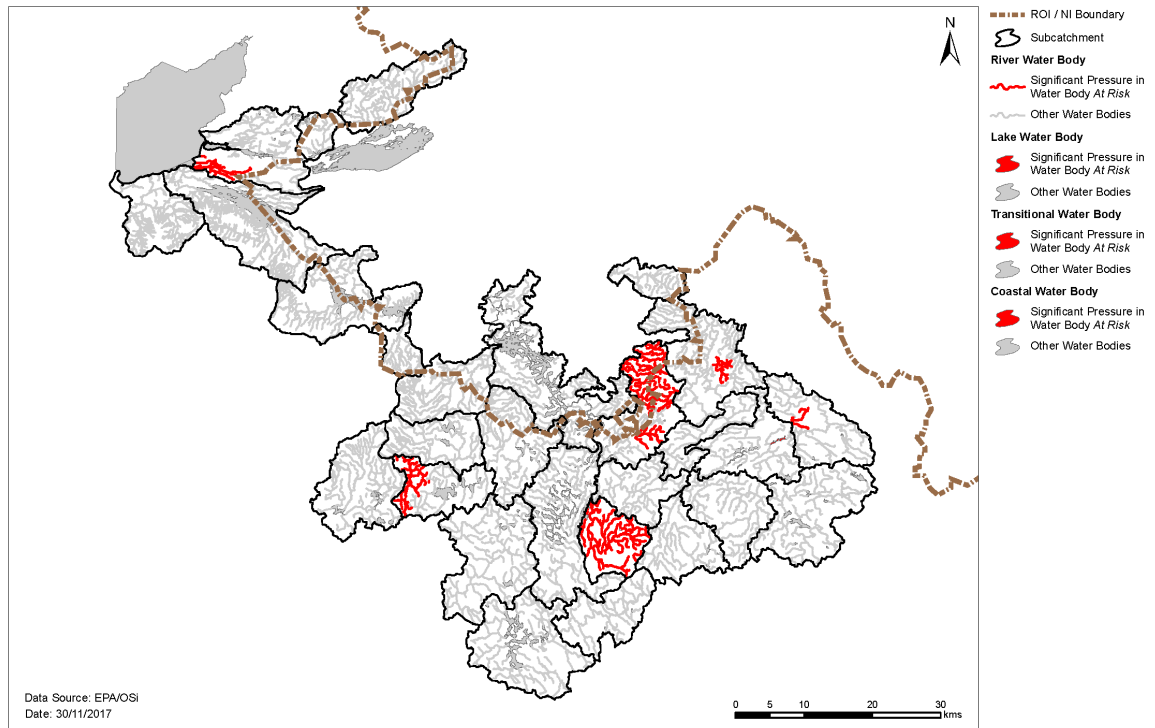


Figure 16. Water bodies that are *At Risk* and are impacted by Diffuse Urban

At Risk Water Bodies where *Domestic Waste Water* is a significant pressure
Erne Catchment (36)

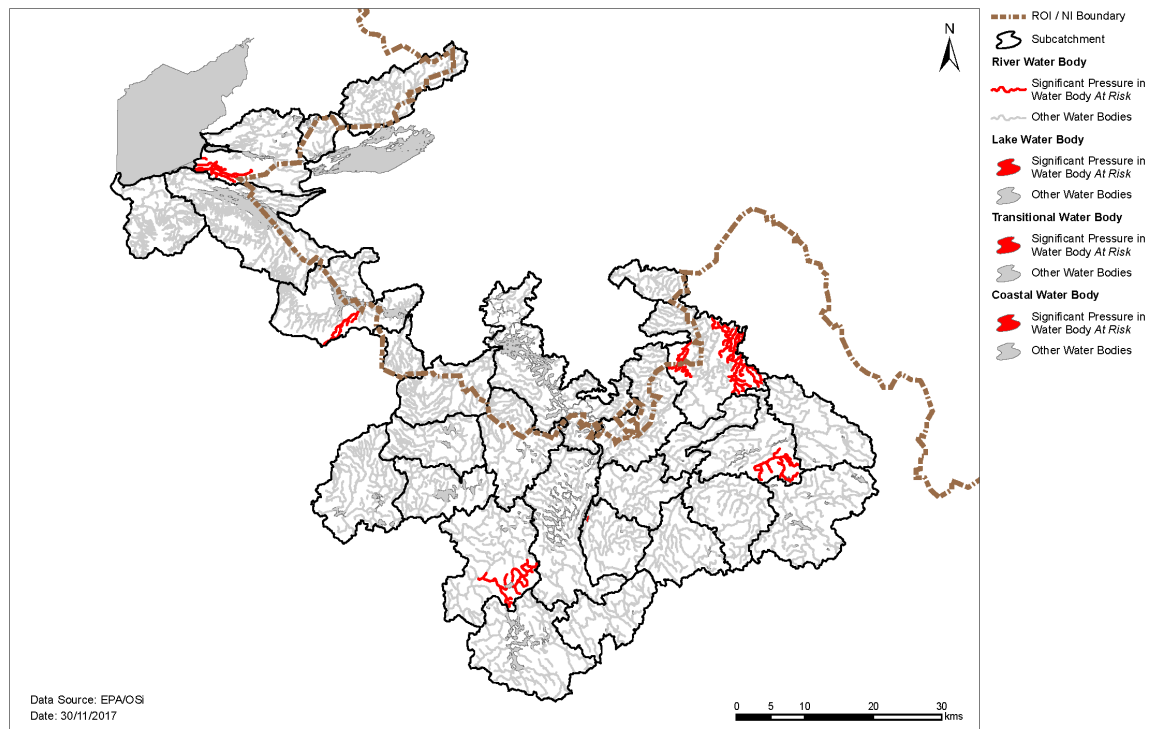


Figure 17. Water bodies that are *At Risk* and are impacted by Domestic Waste water

At Risk Water Bodies where Hydromorphology is a significant pressure

Erne Catchment (36)

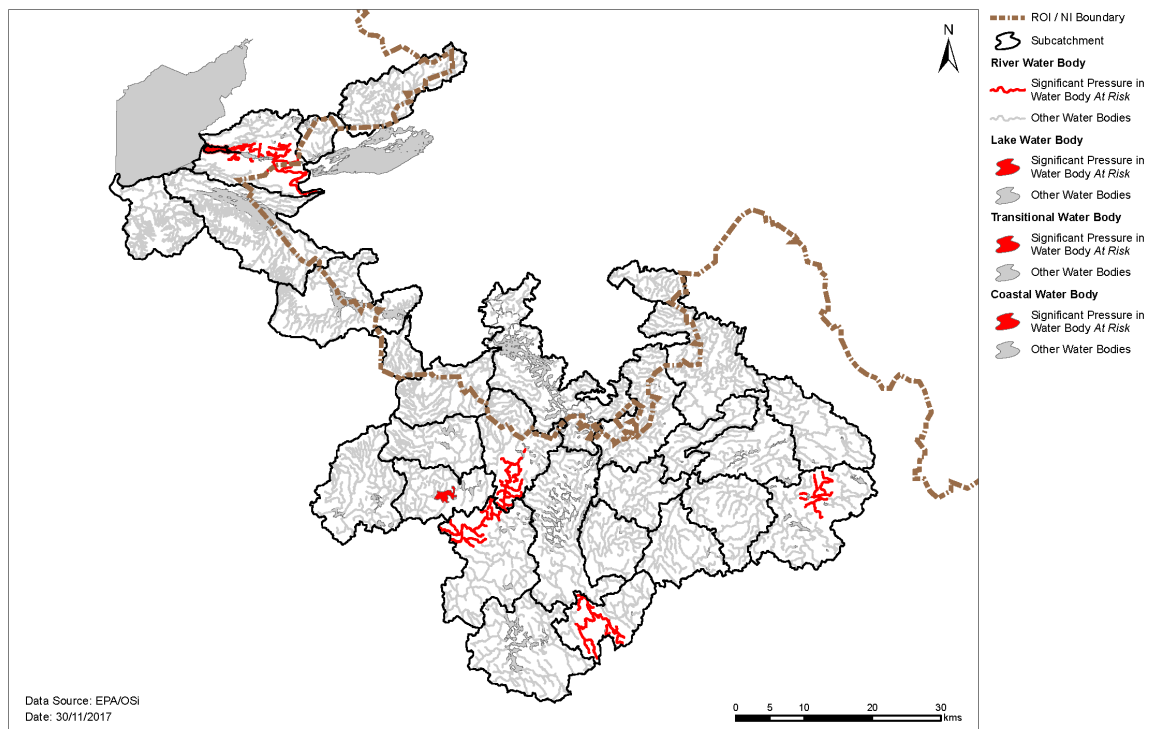


Figure 18. Water bodies that are *At Risk* and are impacted by Hydromorphology

4.2.7 Forestry

- ◆ Forestry has been identified as a significant pressure in three river and three lake water bodies, with nutrients and sediment identified as the associated significant issue. Subcatchments Cullies_SC_010 and Drowes_SC_010 have a large proportion of forestry, and are noted to have relatively intensive activities taking place, such as clearfelling. Figure 19 shows water bodies that are *At Risk* from forestry.

4.2.8 Industry

- ◆ Industry has been identified as a significant pressure in one lake and five river water bodies. Nutrient and organic impacts from industrial facilities, are the main issues of concern. Figure 20 shows water bodies *At Risk* from Industry.

4.2.9 Extractive Industry

Peat

- ◆ Peat workings incorporating drainage and extraction have been identified as a significant pressure in one lake and two river water bodies, with nutrients and sediment identified as the significant issue. Peat cutting as well as large areas of peat is driving these issues. Figure 21 shows water bodies that are *At Risk* from Peat.

At Risk Water Bodies where Forestry is a significant pressure
Erne Catchment (36)

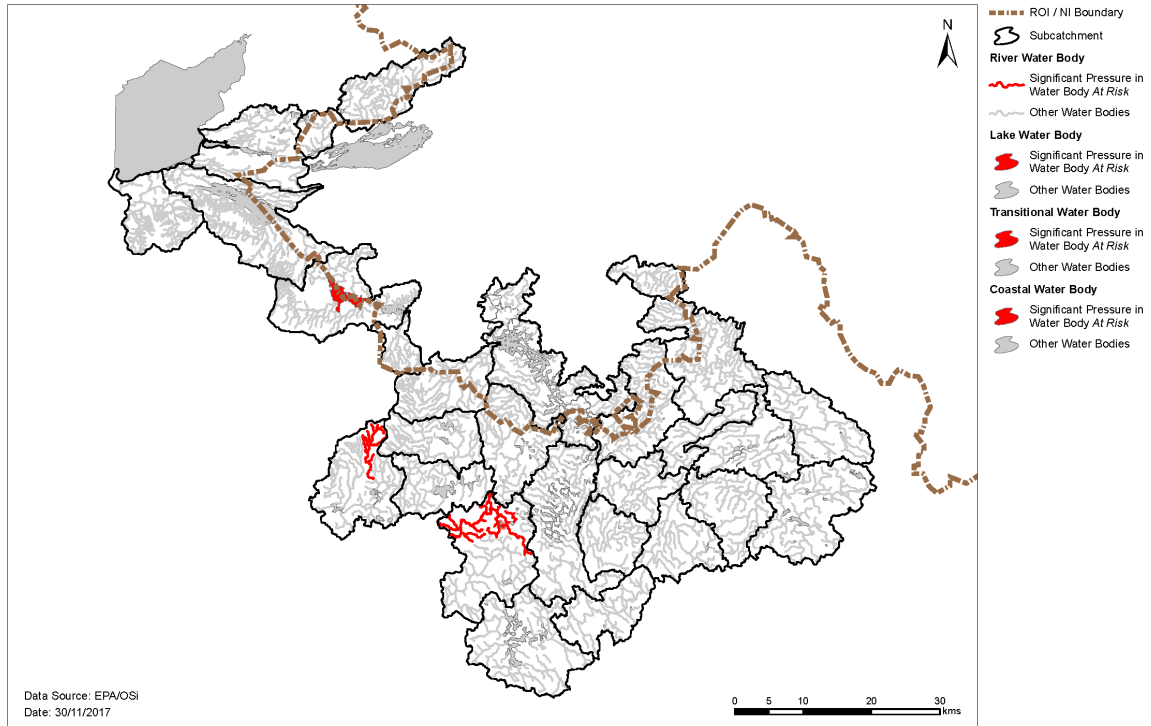


Figure 19. Water bodies that are *At Risk* and are impacted by Forestry

At Risk Water Bodies where Industry is a significant pressure
Erne Catchment (36)

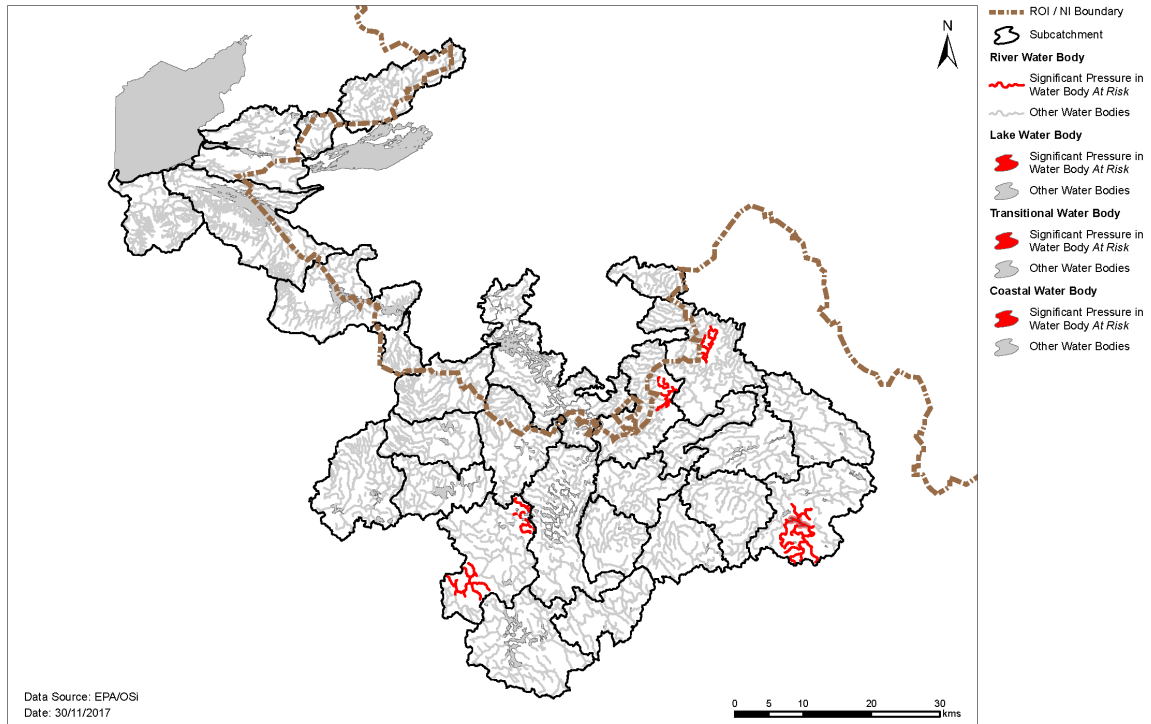


Figure 20. Water bodies that are *At Risk* and are impacted by Industry

At Risk Water Bodies where Extractive Industry is a significant pressure
Erne Catchment (36)

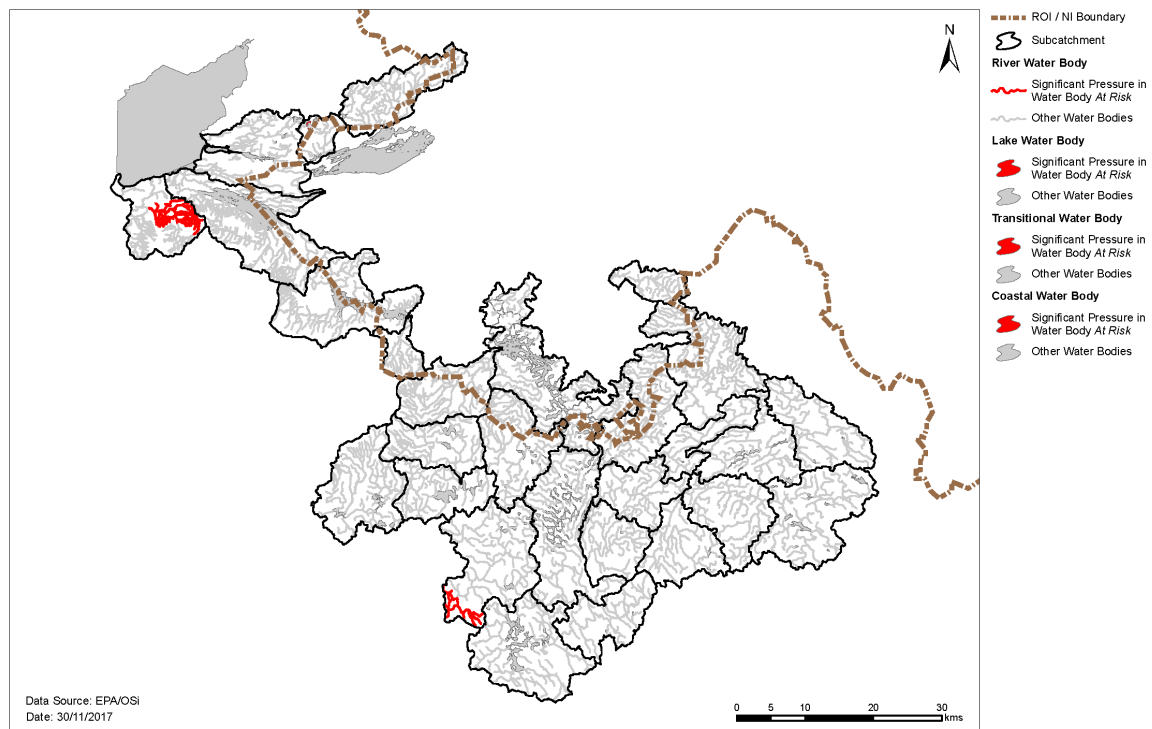


Figure 21. Water bodies that are *At Risk* and are impacted by peat drainage and extraction

5 Load reduction assessment

5.1 River water body load reductions

- ◆ Phosphorus is the main parameter influencing water quality in rivers in the catchment.
- ◆ For water bodies where phosphorus monitoring data are available, the reduction in P load that would be required to bring the mean concentration back to the EQS of 0.035 mg/l as P, can be estimated using a simple method based on the average 2013 to 2015 concentration and the average flow, or the estimated 30th percentile flow (Q30) where flow data are not available. The relative load reductions are ranked on a national scale from Very High (>1 kg/Ha/y), to High (0.5-1 kg/Ha/y), to Medium (0.25-0.5 kg/Ha/y) to Low (<0.25 kg/Ha/y). Note that P load reductions may also be required in other water bodies, but without chemistry monitoring data a quantitative estimate cannot be calculated.
- ◆ Of the water bodies in the Erne catchment with chemistry monitoring data, 17 had excessive P concentrations and required a load reduction (Table 9). The largest reductions will be needed in the Cavan_010 and Finn (Monaghan)_040 water bodies, followed by Erne_070, Cullies_050, Ballinagh_010 and Dromore_030. The load reductions needed elsewhere is typically low.

Table 7. Relative load reductions required in monitored water bodies that are *At Risk*.

| WATER BODY | P Load Reduction Required |
|---------------------|---------------------------|
| CAVAN_010 | V. High |
| FINN (MONAGHAN)_040 | V. High |
| ERNE_070 | High |
| CULLIES_050 | High |
| BALLINAGH_010 | High |
| DROMORE_030 | High |
| FINN (MONAGHAN)_020 | Med |
| CULLIES_040 | Med |
| ERNE_040 | Med |
| KNAPPAGH_010 | Med |
| ERNE_080 | Low |
| BUNNOE_010 | Low |
| ERNE_020 | Low |
| DROMORE_040 | Low |
| ERNE_010 | Low |
| MAGHERY_010 | Low |
| MAGHERY_020 | Low |

5.2 TraC load reductions

Some 18 estuaries in Ireland have been monitored on a continual basis since 1990 as part of Ireland’s commitment under the Convention for the Protection of the Marine Environment of the North-East Atlantic (the Ospar Convention). This has shown that generally over the long term, nutrients have decreased but further reduction will be required in many cases to support Good Ecological Status. However, many estuaries have not been monitored to the same degree, and where monitoring data is insufficient, an ongoing programme of modelling has been undertaken to estimate potential nutrient load removal from contributing sub-catchments.

Different estuaries may require reductions in different nutrients. Further modelling work is required to determine precisely what load reductions are required, but in the interim, further monitoring will be carried out to assess the improvements resulting from various planned measures, and to confirm the nature of the issues. Estuaries within the catchment are not nutrient limited and therefore do not require load reductions.

As part of the Irelands commitment to the Ospar Convention, nutrient flux or load monitoring has been carried out on the Erne Estuary since 1990 (Figure 21a and 21b). Further analysis of these nutrient load trends is available at <http://dx.doi.org/10.3318/BIOE.2016.23>.

Figure 21a – Total Nitrogen Load (Tonnes/year) 1990-2015

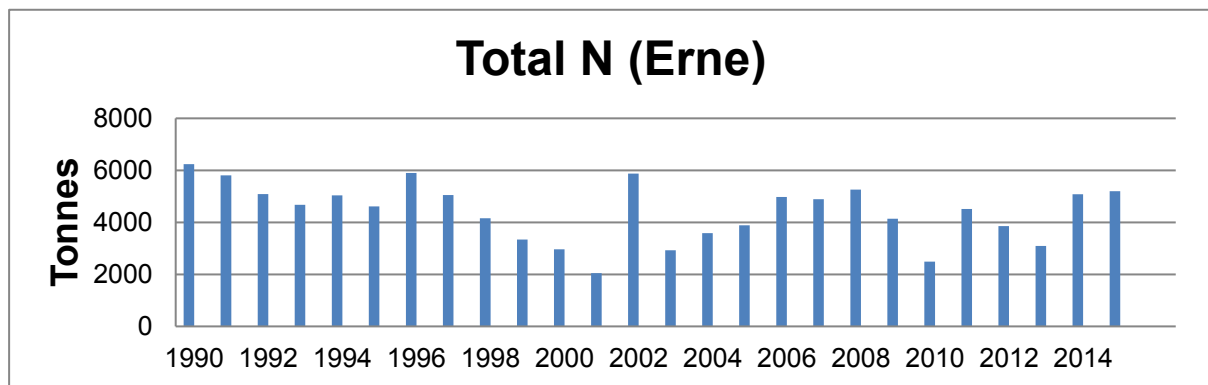
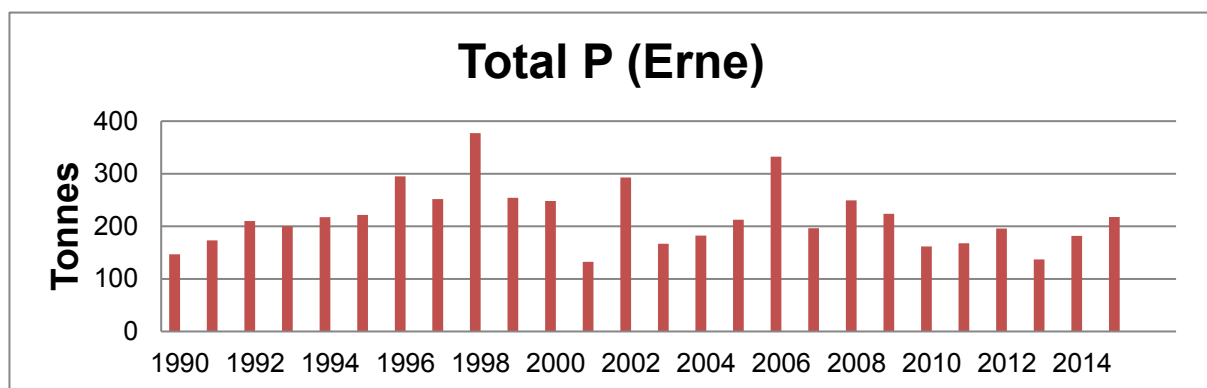


Figure 21b – Total Phosphorus Load (Tonnes/year) 1990-2015



6 Further characterisation and local catchment assessments

- ◆ Further characterisation through local catchment assessments is needed in 100 of the water bodies *At Risk* to refine the understanding of the significant pressures at the site/field scale so that specific and targeted measures can be identified (Table 8).
- ◆ In addition, further characterisation through local catchment assessments is needed in 114 of the water bodies in *Review* to refine the understanding of the significant pressures at the site/field scale so that, if necessary, specific and targeted measures can be identified (Table 8).

Table 8. Local Catchment Assessment Allocation for *At Risk* and *Review* River and Lake water bodies in the Catchment.

| Risk | IA 1 | IA 2 | IA 3 | IA 4 | IA 5 | IA 6 | IA 7 | IA 8 | IA 9 | Total |
|---|------|------|------|------|------|------|------|------|------|-------|
| At Risk | 60 | 4 | 3 | 2 | 4 | 10 | 34 | 2 | 25 | 144 |
| Review | 48 | 9 | 57 | | 3 | | 3 | | 16 | 135 |
| Note water bodies may have multiple categories of Local Catchment Assessments | | | | | | | | | | |

7 Catchment summary

- ◆ Of the 129 river water bodies in this catchment, 60 are *At Risk* of not meeting their WFD objective.

- ◆ There are 39 of the 132 lake water bodies in this catchment *At Risk* of not meeting their WFD objective.
- ◆ Two of the *At Risk* water bodies are High Ecological Status objective water bodies that are not meeting their objectives.
- ◆ One of the five transitional and coastal water bodies, Erne Estuary, is *At Risk* due to Moderate ecological status. The metric driving Moderate ecological status is fish status. Therefore, excess nutrients in the river and lake water bodies are not impacting water quality in the Erne Estuary.
- ◆ The significant issue in the river and lake water bodies is nutrients and the significant pressure is predominantly diffuse agriculture, followed by urban waste water treatment plants and agglomerations.

8 Areas for Action

The characterisation outcomes described above have highlighted that there is significant work to do in the catchment to protect and restore water quality, and meet the objectives of the WFD. During the development of the draft river basin management plan it became apparent that there would be a need to prioritise areas for collective action so that the best return on investment could be achieved. 190 Areas for action have been selected nationally in a process as described below. There are 11 areas for action in the Erne catchment.

8.1 Process of Selection

Following the publication of the draft river basin management plan in early 2017, the EPA and the Local Authority Waters and Communities Office (LAWCO) jointly led a collaborative regional workshop process to determine where, from a technical and scientific perspective, actions should be prioritised in the second cycle. The prioritisation process was based on the priorities in the draft river basin management plan, the evidence from the characterisation process, and the expertise, data and knowledge of public body staff with responsibilities for water and the different pressure types. The recommended areas for action selected during the workshops were then agreed by the Water and Environmental Regional Committees.

The recommended areas for action are an initial list of areas where action will be carried out in the second cycle. All water bodies that are *At Risk* still however, need to be addressed. As issues are resolved, areas for action will be removed from the list and new areas will be added. If additional monitoring shows that new issues have arisen, new areas may become a priority and may need to be added to the work programme.

The initial list of areas for action is not therefore considered as a closed or finite list; it simply represents the initial areas where work will be carried out during the second WFD planning cycle.

8.2 Outcomes of process

The outcomes for the Erne catchment are summarised below.

- ◆ Eleven recommended areas for actions (Table 9, Figure 22) were selected.
- ◆ These are the Maghery, Duff, Erne, Avaghlon, Cullies, Summerhill Kilroosky, Lough Melvin and Drowse, Templeport, Roo, Yellow (Ballinamore) and Annalee.
- ◆ These include 21 *At Risk* and 12 *Review* river and lake water bodies.

- ◆ Six groundwater bodies, that are *At Risk* or *Review* due to groundwater contribution of nutrients to surface water bodies, intersect with eight of the recommended areas for action, see Table 10. Actions taken to improve surface water will need to take account of the groundwater contribution to surface water.

A remaining one hundred and eighty-one (181) *At Risk* and *Review* surface water bodies were not included in the recommended areas for action for the second cycle. The distribution of these is presented in Figure 23. These include:

- ◆ sixty-four river water bodies, 44 *At Risk* and 20 *Review*,
- ◆ one hundred and fourteen lake water bodies, 34 *At Risk* and 80 *Review*, and
- ◆ two transitional water bodies and one coastal water body, one *At Risk* and two *Review*.

Table 9. Recommended Areas for Action in the Erne Catchment

| Recommended area for action | Number of water bodies | SCs | Local authority | Reason for Selection |
|-----------------------------|------------------------|---------------|-----------------|--|
| Maghery | 2 | 36_17 | Monaghan | <ul style="list-style-type: none"> • One deteriorated river water body. • Starting in the headwaters. • Multiple pressures which can be investigated at the same time. • A mixture of possible quick win and longer term challenge. |
| Duff | 2 | 36_28 | Leitrim Sligo | <ul style="list-style-type: none"> • Two deteriorated High Ecological Status objective water bodies that deteriorated recently to Good in the 2013-2015 monitoring cycle. • Starting in the headwaters. • Multiple pressures which can be investigated at the same time. • Possibility of a quick win. |
| Erne | 7 | 36_8 36_21 | Cavan | <ul style="list-style-type: none"> • Two deteriorated water bodies both of which have recently dropped in status to Poor in the 2013-2015 monitoring cycle. • Work planned by Cavan Co. Co. and potential to build on findings. • Starting in the headwaters. • Multiple pressures which can be investigated at the same time. • Two unassigned lake water bodies in the upper Erne system to be included to determine water quality. |
| Avaghlon | 2 | 36_10 | Monaghan | <ul style="list-style-type: none"> • Build on existing work by County Council who have a good understanding of the significant pressures. |
| Cullies | 2 | 36_19 | Cavan | <ul style="list-style-type: none"> • One deteriorated water body which recently dropped in status to Poor in the 2013-2015 monitoring cycle. • Starting at the headwaters. • Multiple pressures which can be investigated at the same time. |

| | | | | |
|--|--|--|--|---|
| | | | | <ul style="list-style-type: none">• Build on work undertaken by County Council including Septic tank awareness programme.• May link to Source protection study with raw water monitoring on going. |
|--|--|--|--|---|

Table 9 cont'd. Recommended Areas for Action in the Erne Catchment

| Recommended area for action | Number of water bodies | SCs | Local authority | Reason for Selection |
|-----------------------------|------------------------|-------|------------------|---|
| Summerhill Kilroosky | 4 | 36_14 | Monaghan NIEA | <ul style="list-style-type: none"> • One deteriorated lake water body. • Three unassigned lake water bodies in the Kilroosky Special Area of Conservation. • Monaghan Co. Co. Heritage officer working to source funds to look at water pollution in this cluster of lakes. • NIEA undertaking work on northern side of border, Cross Border Partnership on-going. |
| Lough Melvin and Drowse | 9 | 36_20 | Leitrim NIEA | <ul style="list-style-type: none"> • One Deteriorated water body, Drowse_010, with a Protected Area objective that is not being met. This water body recently dropped in status to Moderate in the 2013-2015 monitoring cycle. • Lough Melvin is also not meeting its Protected Area objective. • Previous catchment management plan in this area which can be built on and may inform and focus investigation. • Six unassigned river water bodies that flow into Lough Melvin are included to determine the respective water quality which may be impacting on the lake. • Community engagement possibilities in the area. • Long term challenge requiring cross agency approach. • Cross Border Partnership required. |
| Templeport | 2 | 36_6 | Cavan | <ul style="list-style-type: none"> • Build on recent action by Cavan Co. Co. relating to a direct discharge to Templeport Lake Stream. • Bunerky Lake included as it has similar pressures to the river water body. • The two water bodies included in the recommended action area are the only water bodies that are less than Good in this subcatchment. • Improvements in these water bodies may protect the current High status in the Blackwater(Newtowngor)_020 river water body. |
| Roo | 1 | 36_24 | Cavan | <ul style="list-style-type: none"> • One Deteriorated water body which was previously at High status. • County council familiar with pressures in the area. • Little activity and significant pressure point could be easy to identify. • Possibility of Quick win |
| Yellow (Ballinamore) | 1 | 36_15 | Leitrim | <ul style="list-style-type: none"> • Water body was at Good status in the 10-12 monitoring cycle. • Single significant pressure identified. • Possibility of Quick win |
| Annalee | 1 | 36_5 | Cavan | <ul style="list-style-type: none"> • Single significant pressure identified in this water body. • This is the only water body in this subcatchment that is at less than Good status. • Fish status driving ecological status with all other determinands at Good. |

Table 10. Groundwater bodies intersecting with surface water bodies in recommended areas for action

| Groundwater bodies | | | Intersecting surface water bodies | | Recommended Area for Action | |
|--------------------|-------------|--------|-----------------------------------|----------------------------|-----------------------------|----------------------|
| Code | Name | Risk | Code | Name | | |
| IE_NW_G_061 | Cavan | Review | IE_NW_36A021400 | Annalee_100 | Annalee | |
| | | Review | IE_NW_36A070600 | Avaghon Lake Stream_010 | Avaghlon | |
| | | Review | IE_NW_36_638 | Avaghon | | |
| | | Review | IE_NW_36C030300 | Cullies_010 | Cullies | |
| IE_NW_G_043 | Glenaniff | Review | IE_NW_36C030600 | Cullies_030 | | |
| IE_NW_G_073 | Tievebaun | Review | IE_NW_35D050250 | Duff_020 | Duff | |
| IEGBNI_NW_G_044 | Rossinver | Review | IE_NW_35D050100 | Duff_010 | | |
| | | Review | IE_NW_35D050250 | Duff_020 | | |
| IE_NW_G_061 | Cavan | Review | IE_NW_36E010100 | Erne_010 | Erne | |
| | | Review | IE_NW_36E010200 | Erne_020 | | |
| | | Review | IE_NW_36E010400 | Erne_030 | | |
| | | Review | IE_NW_36E010500 | Erne_040 | | |
| | | Review | IE_NW_36E010700 | Erne_050 | | |
| | | Review | IE_NW_36_316 | Graddum | | |
| | | Review | IE_NW_36_448 | Kill | | |
| IE_NW_G_043 | Glenaniff | Review | IE_NW_35B010400 | Ballagh_010 | Lough Melvin and Drowse | |
| | | Review | IE_NW_35S070870 | Sragarve_010 | | |
| IEGBNI_NW_G_044 | Rossinver | Review | IE_NW_35B010400 | Ballagh_010 | | |
| | | Review | IE_NW_35K380940 | Kinlough 35_010 | | |
| | | Review | IE_NW_35S070870 | Sragarve_010 | | |
| | | Review | UKGBNI1NW353504075 | County River (Carran West) | | |
| | | Review | UKGBNI1NW353504082 | Drowes_010 | | |
| | | Review | IE_NW_35_160 | Melvin | | |
| IEGBNI_NW_G_063 | Clones | Review | IE_NW_36M031200 | Maghery_020 | | Maghery |
| IEGBNI_NW_G_030 | Crom Castle | Review | IE_NW_36_301 | Burdautiers | | Summerhill Kilroosky |
| IEGBNI_NW_G_063 | Clones | Review | IE_NW_36_669 | Killrosky | | |

9 Environmental Objectives

The environmental objectives are the target status for each *At Risk* or *Review* water body and the date by which that status is expected to be achieved (Appendix 3). Where a water body is *Not at Risk* and is already at its target status, the environmental objective is deemed to have been met.

9.1 Surface Water

- ◆ Assuming resources are available and actions are taken in the recommended areas for action, of the 21 *At Risk* surface water bodies, it is predicted that 10 (48%) will improve by 2021 and eleven (52%) will achieve their objective by 2027.

- ◆ For the 12 *At Review* surface water bodies, the absence of information on these water bodies means that there is no scientific basis to quantify environmental objective dates, and therefore a 2027 date is set for these water bodies, see Table 11.

Table 11. Environmental objective dates for water bodies in the Areas for Action

| Risk Category | No. of Water Bodies | No. of WBs for 2021 Improvement | No. of WBs for 2027 Status Improvement |
|----------------|---------------------|---------------------------------|--|
| Rivers | | | |
| <i>At Risk</i> | 16 | 9 | 7 |
| <i>Review</i> | 7 | 0 | 7 |
| Lakes | | | |
| <i>At Risk</i> | 5 | 1 | 4 |
| <i>Review</i> | 5 | 0 | 5 |
| Total | 33 | 10 | 23 |

- ◆ Fifty-two surface water bodies have met their 2015 environmental objective. One of the 52 water bodies met their environmental objective for ecological status but failed to meet its protected area objectives.
- ◆ As action is not yet planned to be taken in the remaining 79 *At Risk* surface water bodies, a 2027 date is applied.
- ◆ For the 102 *At Review* surface water bodies, the absence of information on these water bodies means that there is no scientific basis to quantify an environmental objective date and therefore a 2027 date is applied, see Table 12.

Table 12. Environmental objectives dates in the *At Risk* and *Review* surface water bodies not included in Areas for Action

| Risk Category | No. of Water Bodies | No. of WBs for 2021 Improvement | No. of WBs for 2027 Status Improvement |
|----------------|---------------------|---------------------------------|--|
| Rivers | | | |
| <i>At Risk</i> | 44 | 0 | 44 |
| <i>Review</i> | 20 | 0 | 20 |
| Lakes | | | |
| <i>At Risk</i> | 34 | 0 | 34 |
| <i>Review</i> | 80 | 0 | 80 |
| TraCs | | | |
| <i>At Risk</i> | 1 | 0 | 1 |
| <i>Review</i> | 2 | 0 | 2 |
| Total | 181 | 0 | 181 |

9.2 Groundwater

- ◆ All 39 groundwater bodies in the catchment are Good status and, therefore, have met their environmental objectives

10 Acknowledgements

This Erne Catchment Assessment (Version 3) has been produced by the Catchment Science & Management Unit, EPA, with the assistance of the following:

- Cavan County Council
- Monaghan County Council.
- Leitrim County Council.
- Donegal County Council.
- Sligo County Council.
- Inland Fisheries Ireland.
- Local Authorities Waters & Communities Office.
- Irish Water.
- Northern Ireland Environment Agency.
- RPS Group.
- Ecological Monitoring & Assessment Unit, EPA.
- Hydrometric & Groundwater Section, EPA.
- Informatics Section, EPA.
- Laboratories, EPA.
- Office of Environmental Enforcement, EPA.
- DAFM Agriculture.
- DAFM Forest Service.
- Coillte.
- Teagasc.
- Health Service Executive.
- National Parks and Wildlife Service.
- Loughs Agency.
- National Federation of Group Water Schemes.
- Office of Public Works.

Recommended Areas for Action Erne Catchment (36)

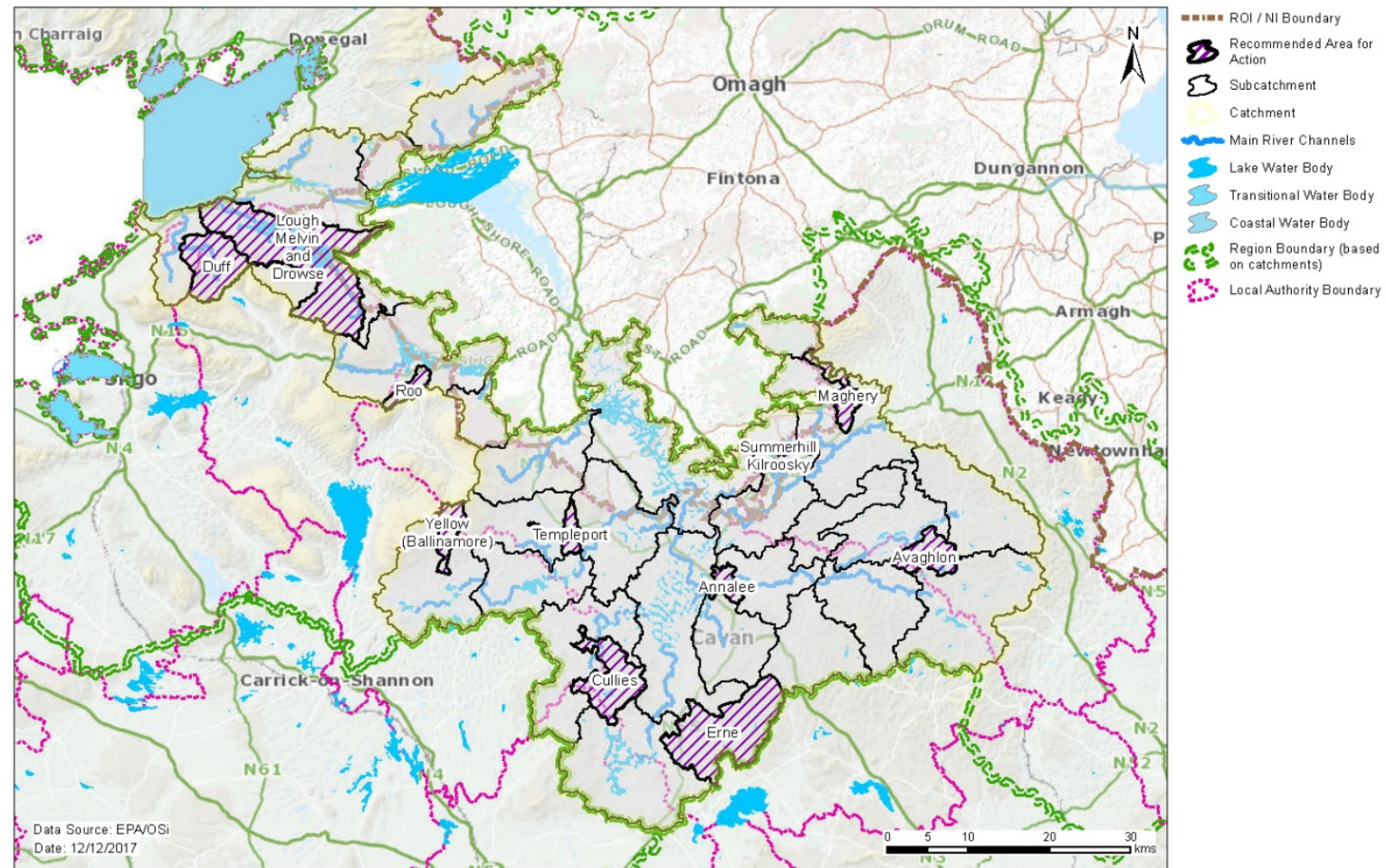


Figure 22. Location of Recommended Areas for Action in the Erne Catchment

Remaining *At Risk* and *Review* Water Bodies Erne Catchment (36)

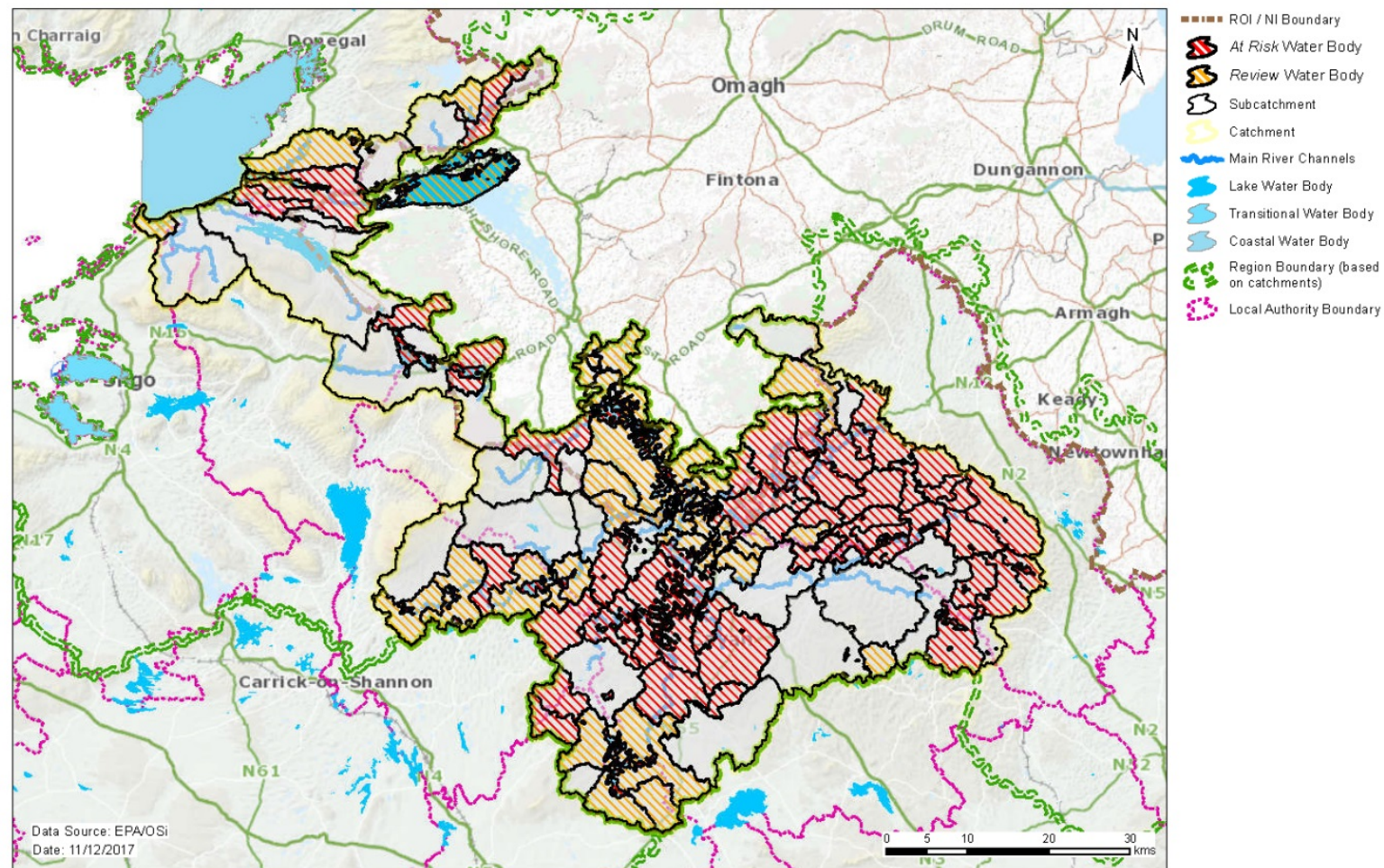


Figure 23. Location of *At Risk* and *Review* water bodies located outside Recommended Areas for Action in the Erne Catchment

Appendix 1 High ecological status objective water bodies

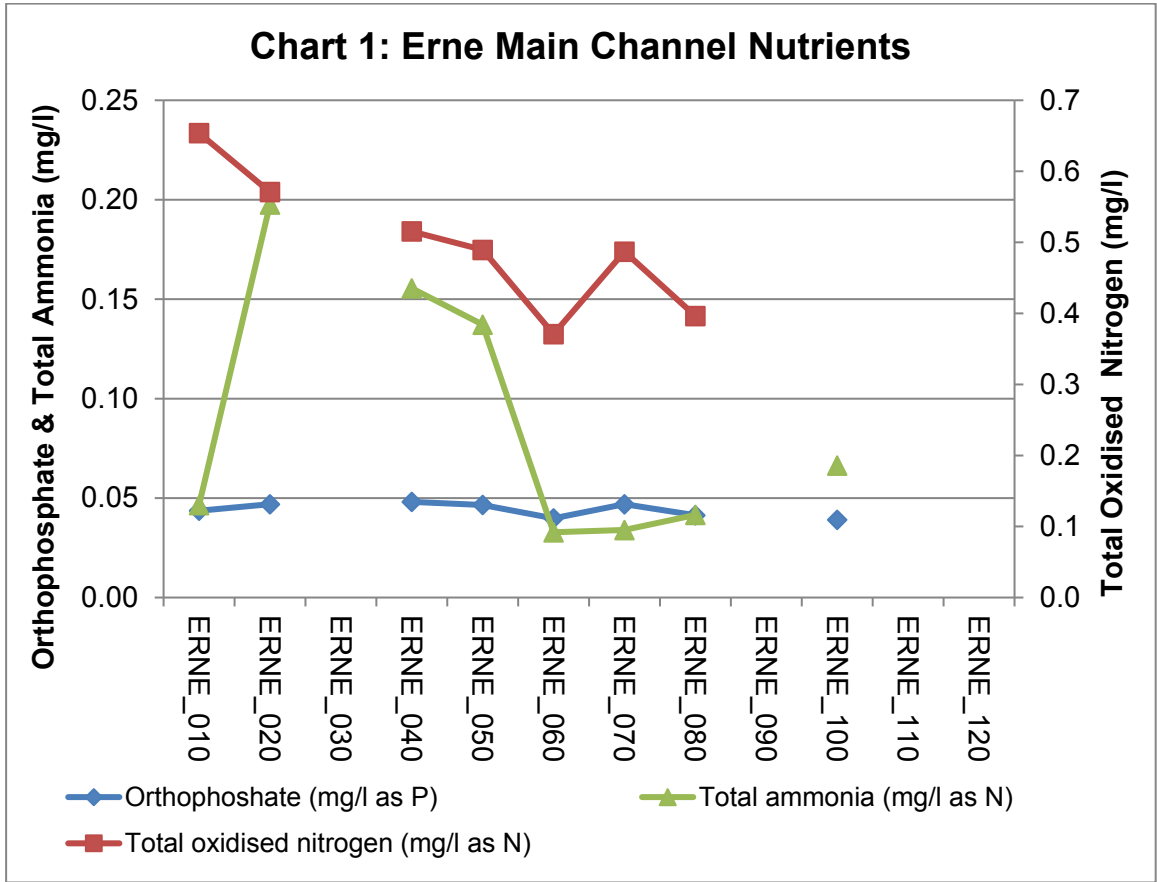
| Water body/ Site | Type | Codes | 2015 Status |
|---------------------------------|-------|-----------------|-------------|
| WOODFORD (CAVAN)_020 | River | IE_NW_36W010400 | High |
| AGHACASHLAUN_010 | River | IE_NW_36A030300 | High |
| GLENANIFF_010 | River | IE_NW_35G020200 | High |
| SWANLINBAR_010 | River | IE_NW_36S010100 | High |
| DUFF_010 | River | IE_NW_35D050100 | Good |
| DUFF_020 | River | IE_NW_35D050250 | Good |
| BLACKWATER (NEWTOWNGORE)_010 | River | IE_NW_36B040200 | High |

Appendix 2 Catchment Scale Nutrient concentrations and in-stream loads

The results of the in-stream water quality assessment for the Erne catchment are illustrated in Chart 1. Average orthophosphate concentrations along the main channel are high ranging from 0.039 to 0.048mg/l. The EQS (0.035mg/l) is exceeded at all monitoring points where data are available.

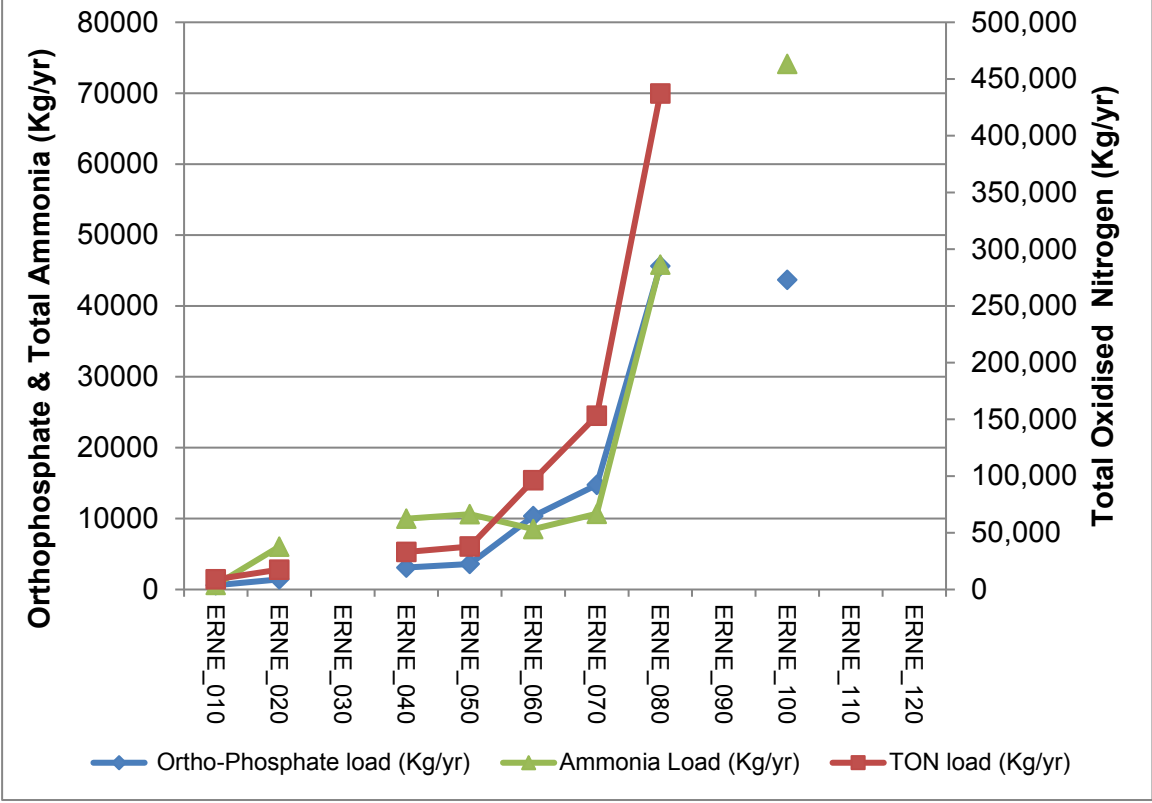
A large spike in average ammonia concentration (0.198mg/l) occurs at ERNE_020, downstream of which concentrations decrease, but remain above the EQS (0.065mg/l) as far as ERNE_050. Downstream of ERNE_050, ammonia is typically below the EQS. The mean concentration spike at ERNE_020 was heavily influenced by a comparative outlier in the dataset; a concentration of 1.96mg/l recorded in February 2014.

Total oxidised nitrogen (TON) concentrations are low (range: 0.37-0.65mg/l) along the main channel and decrease downstream of the headwaters.



The results of the nutrient loading trend assessment for the Erne channel are presented in Chart 3. Stream flow ranges from 0.4 to 35.6m³/s from ERNE_010 to ERNE_120. Between ERNE_010 and ERNE_070, nutrient loads generally increase with increasing stream flow. A substantial increase in flow between ERNE_070 and ERNE_080 results in a large increase orthophosphate, TON and ammonia loads. The loading trends for ammonia in the headwater water bodies shows that the higher concentrations correspond to water bodies with lower flows.

Chart 2: Erne Main Channel Nutrient Loading



Appendix 3 Summary information on *At Risk* and *Review* surface water bodies

| Subcatchment code | Water body code | Water body name | Water body type | Risk | Ecological Status 07-09 | Ecological Status 10-15 | High Ecological Status Objective Water Body Y/N | Significant Pressures | Date to Meet Environmental Objective | Recommended Area for Action Name |
|-------------------|-----------------|----------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_3 | IE_NW_36_409 | Killynenagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_3 | IE_NW_36B050300 | Bunnoe_010 | River | At Risk | Good | Poor | N | Ag | 2027 | |
| 36_3 | IE_NW_36B050400 | Bunnoe_020 | River | At Risk | Moderate | Poor | N | Ag | 2027 | |
| 36_3 | IE_NW_36B050500 | Bunnoe_030 | River | Review | Unassigned | Good | N | | 2027 | |
| 36_3 | IE_NW_36B050700 | Bunnoe_040 | River | At Risk | Good | Moderate | N | Ag | 2027 | |
| 36_4 | IE_NW_36_554 | Beaghy | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_4 | IE_NW_36_580 | Derrygid | Lake | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_4 | IE_NW_36_633 | Coalpit | Lake | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_4 | IE_NW_36_564 | Farnharn | Lake | At Risk | Unassigned | Bad | N | Ag,DWW | 2027 | |
| 36_4 | IE_NW_36C020300 | Cavan_010 | River | At Risk | Poor | Poor | N | Ag,DU | 2027 | |
| 36_4 | IE_NW_36C020400 | Cavan_020 | River | At Risk | Poor | Poor | N | Ag,DU | 2027 | |
| 36_5 | IE_NW_36A021150 | Annalee_090 | River | Review | Unassigned | Good | N | | 2027 | |
| 36_5 | IE_NW_36A021400 | Annalee_100 | River | At Risk | Moderate | Moderate | N | Ag | 2021 | Annalee |
| 36_6 | IE_NW_36_624 | Bunerky | Lake | At Risk | Moderate | Moderate | N | Ag,Other | 2027 | Templeport |
| 36_6 | IE_NW_36T010600 | Templeport Lake Stream_010 | River | At Risk | Unassigned | Poor | N | Ag | 2027 | Templeport |
| 36_7 | IE_NW_36_725 | Derrycassan West | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_7 | IE_NW_36_727 | Derrycassan East | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_7 | IE_NW_36_648 | Garadice | Lake | At Risk | Moderate | Poor | N | Ag,Hymo | 2027 | |
| 36_7 | IE_NW_36N010500 | Newtowngore Stream_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_7 | IE_NW_36_726 | Derrycassan Mid | Lake | At Risk | Moderate | Poor | N | Ag | 2027 | |
| 36_7 | IE_NW_36W010180 | Woodford (Cavan)_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_7 | IE_NW_36Y010620 | Yellow (Ballinamore)_030 | River | At Risk | Unassigned | Unassigned | N | DU | 2027 | |
| 36_8 | IE_NW_36_316 | Graddum | Lake | Review | Unassigned | Unassigned | N | | 2027 | Erne |
| 36_8 | IE_NW_36_448 | Kill | Lake | Review | Unassigned | Unassigned | N | | 2027 | Erne |
| 36_8 | IE_NW_36E010100 | Erne_010 | River | At Risk | Moderate | Poor | N | Ag | 2021 | Erne |
| 36_8 | IE_NW_36E010200 | Erne_020 | River | At Risk | Moderate | Poor | N | Ag | 2021 | Erne |
| 36_8 | IE_NW_36E010400 | Erne_030 | River | At Risk | Unassigned | Poor | N | Ag,Hymo | 2027 | Erne |
| 36_8 | IE_NW_36E010500 | Erne_040 | River | At Risk | Poor | Poor | N | Ag,Hymo | 2027 | Erne |
| 36_8 | IE_NW_36E010700 | Erne_050 | River | Review | Moderate | Good | N | | 2027 | Erne |
| 36_9 | IE_NW_36_378 | Asturrall | Lake | Review | Unassigned | Unassigned | N | | 2027 | |

| Subcatchment code | Water body code | Water body name | Water body type | Risk | Ecological Status 07-09 | Ecological Status 10-15 | High Ecological Status Objective Water Body Y/N | Significant Pressures | Date to Meet Environmental Objective | Recommended Area for Action Name |
|-------------------|-----------------|-------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_9 | IE_NW_36_420 | Naglare | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_9 | IE_NW_36_515 | Acanon | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_10 | IE_NW_36_349 | Drumsaul | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_10 | IE_NW_36_402 | Drum | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_10 | IE_NW_36_415 | Drumgole | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_10 | IE_NW_36_460 | Coragh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_10 | IE_NW_36_525a | Drumore | Lake | At Risk | Poor | Poor | N | Ag | 2027 | |
| 36_10 | IE_NW_36_525b | Drumlona | Lake | At Risk | Moderate | Poor | N | Ag,Other | 2027 | |
| 36_10 | IE_NW_36_526 | Inner | Lake | At Risk | Bad | Bad | N | Ag | 2027 | |
| 36_10 | IE_NW_36_638 | Avaghon | Lake | At Risk | Moderate | Moderate | N | Ag,DWW | 2021 | Avaghlon |
| 36_10 | IE_NW_36_647 | White Rockcorry | Lake | At Risk | Moderate | Poor | N | Ag,DU | 2027 | |
| 36_10 | IE_NW_36A070600 | Avaghon Lake Stream_010 | River | At Risk | Poor | Poor | N | Ag,DWW | 2027 | Avaghlon |
| 36_10 | IE_NW_36D020500 | Dromore_050 | River | At Risk | Poor | Moderate | N | Ag | 2027 | |
| 36_10 | IE_NW_36D020600 | Dromore_060 | River | At Risk | Unassigned | Poor | N | Ag | 2027 | |
| 36_10 | IE_NW_36D020700 | Dromore_070 | River | At Risk | Poor | Poor | N | Ag,UWW | 2027 | |
| 36_11 | IE_NW_36M020070 | Madabawn Stream_010 | River | Review | Moderate | Good | N | | 2027 | |
| 36_12 | IE_NW_36_382 | Toome Crinkill | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_12 | IE_NW_36_641 | Creeve | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_12 | IE_NW_36D020075 | Dromore_010 | River | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_12 | IE_NW_36D020090 | Dromore_020 | River | At Risk | Unassigned | Moderate | N | Ag | 2027 | |
| 36_12 | IE_NW_36D020150 | Dromore_030 | River | At Risk | Moderate | Poor | N | Ag,DU | 2027 | |
| 36_12 | IE_NW_36D020300 | Dromore_040 | River | At Risk | Poor | Poor | N | Ag,UWW | 2027 | |
| 36_12 | IE_NW_36M080200 | Major Lough Stream_010 | River | At Risk | Good | Poor | N | Other | 2027 | |
| 36_13 | IE_NW_36_207 | Holy | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_247 | Clonmullig | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_391 | Anoneen | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_410 | Tomkinroad | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_385 | Cullinaghan | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_13 | IE_NW_36_468 | Clonty | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_470 | Corraback | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_486 | Killynaher | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36_500 | Long | Lake | Review | Unassigned | Unassigned | N | | 2027 | |

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|-------------------|--------------------|--------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_13 | IE_NW_36_513 | Kilywilly | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | UKGBNI1NW363602029 | Derryhooley Tributary | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | UKGBNI1NW363604083 | Woodford River | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_13 | IE_NW_36R010600 | Rag (Cavan)_010 | River | At Risk | Unassigned | Poor | N | Ag,Hymo | 2027 | |
| 36_14 | IE_NW_36_301 | Burdautiers | Lake | Review | Unassigned | Unassigned | N | | 2027 | Summerhill Kilroosky |
| 36_14 | IE_NW_36_339 | Ramages | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36_192 | Corconnelly | Lake | At Risk | Unassigned | Moderate | N | Other | 2027 | |
| 36_14 | IE_NW_36_343 | Drumgorry | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36_368 | Dummys | Lake | Review | Unassigned | Unassigned | N | | 2027 | Summerhill Kilroosky |
| 36_14 | IE_NW_36_394 | Drumlaney | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36_489 | Killybandrick | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36_669 | Killrosky | Lake | Review | Unassigned | Unassigned | N | | 2027 | Summerhill Kilroosky |
| 36_14 | IE_NW_36_677 | Castle CN | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36F170840 | Fastry_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | IE_NW_36_672 | Erne Upper | Lake | At Risk | Bad | Poor | N | Ag | 2027 | |
| 36_14 | IE_NW_36G750800 | Gortnana 36_010 | River | At Risk | Unassigned | Unassigned | N | DU | 2027 | |
| 36_14 | IE_NW_36_721 | Summerhill | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | Summerhill Kilroosky |
| 36_14 | IE_NW_36F010500 | Finn (Monaghan)_040 | River | At Risk | Moderate | Moderate | N | Ag,DU,Ind, UWW | 2027 | |
| 36_14 | IE_NW_36M620820 | May_Hill_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_14 | UKGBNI1NW363604066 | Lackey River_010 | River | At Risk | Unassigned | Unassigned | N | Ag,DU | 2027 | |
| 36_14 | UKGBNI1NW363604080 | Finn (Monaghan)_050 | River | At Risk | Moderate | Poor | N | Ag,UWW | 2027 | |
| 36_15 | IE_NW_26_736 | Fenagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_15 | IE_NW_36_642 | St Johns | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_15 | IE_NW_36A030900 | Adhacashlaun_030 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_15 | IE_NW_36_614 | Drumlaheen | Lake | At Risk | Good | Poor | N | Ag | 2027 | |
| 36_15 | IE_NW_36Y010400 | Yellow (Ballinamore)_020 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_15 | IE_NW_36_665 | Scur | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_15 | IE_NW_36Y010200 | Yellow (Ballinamore)_010 | River | At Risk | Poor | Moderate | N | For | 2021 | Yellow (Ballinamore) |
| 36_16 | IE_NW_36_331 | Cornalara | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_16 | IE_NW_36_336 | Mill MN | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_16 | IE_NW_36_421 | Annaghierin | Lake | Review | Unassigned | Unassigned | N | | 2027 | |

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|-------------------|--------------------|------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_16 | IE_NW_36_635 | Baraghy | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_16 | IE_NW_36_363 | Tacker | Lake | At Risk | Moderate | Poor | N | Ag | 2027 | |
| 36_16 | IE_NW_36_684 | Namachree | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_16 | IE_NW_36_528 | Sillan | Lake | At Risk | Poor | Poor | N | Ag,Ind,Oth er,UWW | 2027 | |
| 36_16 | IE_NW_36_623 | Bawn MN | Lake | At Risk | Unassigned | Bad | N | Ag | 2027 | |
| 36_16 | IE_NW_36K010100 | Knappagh_010 | River | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_16 | IE_NW_36_671 | Egish | Lake | At Risk | Bad | Bad | N | Ag,Other | 2027 | |
| 36_16 | IE_NW_36A020150 | Annalee_020 | River | At Risk | Poor | Poor | N | Ag,Ind,UW W | 2027 | |
| 36_16 | IE_NW_36K010200 | Knappagh_020 | River | At Risk | Poor | Poor | N | Ag | 2027 | |
| 36_16 | IE_NW_36K010400 | Knappagh_030 | River | At Risk | Unassigned | Poor | N | Hymo | 2027 | |
| 36_17 | IE_NB_03_51 | Greagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_17 | IE_NB_03_71 | Corcaghan | Lake | Review | Poor | Unassigned | N | | 2027 | |
| 36_17 | IE_NB_03_97 | Ballagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_17 | IE_NW_36_267 | Hollywood | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_17 | IE_NW_36_278 | Black Fermanagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_17 | IE_NW_36F010200 | Finn (Monaghan)_020 | River | At Risk | Moderate | Moderate | N | Ag,UWW | 2027 | |
| 36_17 | IE_NW_36F010400 | Finn (Monaghan)_030 | River | At Risk | Unassigned | Moderate | N | Ag,UWW | 2027 | |
| 36_17 | IE_NW_36M010150 | Magherarney_010 | River | At Risk | Unassigned | Poor | N | Ag,DWW,U WW | 2027 | |
| 36_17 | IE_NW_36M010200 | Magherarney_020 | River | At Risk | Poor | Poor | N | Ag,DU | 2027 | |
| 36_17 | IE_NW_36M030900 | Maghery_010 | River | At Risk | Moderate | Poor | N | Ag | 2021 | Maghery |
| 36_17 | IE_NW_36M031200 | Maghery_020 | River | At Risk | Poor | Poor | N | Ag,Ind | 2027 | Maghery |
| 36_17 | UKGBNI1NW363604079 | Finn River (Tattymore) | River | Review | Good | Good | N | | 2027 | |
| 36_17 | UKGBNI1NW363604084 | Finn (Monaghan)_010 | River | At Risk | Poor | Moderate | N | Ag,DWW | 2027 | |
| 36_18 | IE_NW_36_346 | Naback | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_18 | IE_NW_36M170890 | Mulrick_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_18 | IE_NW_36_723 | Gowna North | Lake | At Risk | Moderate | Bad | N | Ag | 2027 | |
| 36_18 | IE_NW_36_724 | Gowna South | Lake | At Risk | Moderate | Poor | N | Ag,Other | 2027 | |
| 36_18 | IE_NW_36E010900 | Erne_060 | River | Review | Moderate | Good | N | | 2027 | |
| 36_19 | IE_NW_36_559 | Aghabane | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_19 | IE_NW_36_574 | Town | Lake | Review | Unassigned | Unassigned | N | | 2027 | |

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|-------------------|--------------------|----------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_19 | IE_NW_36_430 | Garty | Lake | At Risk | Poor | Moderate | N | Ag | 2027 | |
| 36_19 | IE_NW_36_575 | Derry | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_19 | IE_NW_36_573 | Bawn CN | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_19 | IE_NW_36_599 | Derreskit | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_19 | IE_NW_36_632 | Disert | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_19 | IE_NW_36_597 | Mill CN | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_19 | IE_NW_36_615 | Glasshouse | Lake | At Risk | Bad | Bad | N | Ag,For | 2027 | |
| 36_19 | IE_NW_36C030300 | Cullies_010 | River | At Risk | Moderate | Poor | N | Ag,DWW | 2021 | Cullies |
| 36_19 | IE_NW_36C030600 | Cullies_030 | River | At Risk | Poor | Poor | N | Ag | 2027 | Cullies |
| 36_19 | IE_NW_36C030700 | Cullies_040 | River | At Risk | Moderate | Moderate | N | Ag,For | 2027 | |
| 36_19 | IE_NW_36C030900 | Cullies_050 | River | At Risk | Poor | Poor | N | Ind,UWW | 2027 | |
| 36_19 | IE_NW_36L020800 | Laheen Stream_010 | River | At Risk | Moderate | Poor | N | For,Hymo | 2027 | |
| 36_19 | IE_NW_36L030300 | Legga Stream_010 | River | At Risk | Moderate | Moderate | N | Ag,Peat | 2027 | |
| 36_19 | IE_NW_36L030700 | Legga Stream_020 | River | At Risk | Moderate | Moderate | N | Ag,Ind | 2027 | |
| 36_20 | IE_NW_35B010400 | Ballagh_010 | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35K380940 | Kinlough 35_010 | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35_143 | Lattone | Lake | At Risk | Bad | Bad | N | For | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35_160 | Melvin | Lake | At Risk | Moderate | Moderate | N | Other | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35L660960 | Lattone 35_010 | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35R320460 | Rosfriar_010 | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_35S070870 | Sragarve_010 | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | UKGBNI1NW353504075 | County River (Carran West) | River | Review | Unassigned | Unassigned | N | | 2027 | Lough Melvin and Drowse |
| 36_20 | UKGBNI1NW353504082 | Drowes_010 | River | At Risk | Good | Moderate | N | Ag | 2027 | Lough Melvin and Drowse |
| 36_20 | IE_NW_020_0000 | Bundoran Bay | Coastal | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_20 | IE_NW_020_0100 | Drowes Estuary | Transitional | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_261 | Bun | Lake | Review | Unassigned | Unassigned | N | | 2027 | |

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|-------------------|-----------------|----------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_21 | IE_NW_36_277 | Round | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_318 | Corrarod | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_324 | Cornaseer | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_367 | Commons | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_386 | Derrygeeraghan | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_458 | Tonawolly | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_465 | Parisee | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_400 | Derrybrick | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36_432 | Ardan | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36_476 | Tullyroan | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_477 | Black CN | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_490 | Drumellis | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_504 | Drumlane Or Garfinny | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_505 | Putigan | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_521 | Drummany | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_561 | Tully CN | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_517 | Annagh | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36_565 | Pleasure | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_581 | Broompark | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_603 | Deraik | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_628 | Carrs | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_640 | Tullyguide | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_618 | Atrain | Lake | At Risk | Unassigned | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36_652 | Inchin | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36_661 | Oughter North | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36B010100 | Ballinagh_010 | River | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_21 | IE_NW_36_655 | Corglass | Lake | At Risk | Moderate | Bad | N | Ag | 2027 | |
| 36_21 | IE_NW_36_657 | Oughter South | Lake | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36E011440 | Erne_100 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_21 | IE_NW_36E011100 | Erne_070 | River | At Risk | Moderate | Moderate | N | Ag,UWW | 2027 | |
| 36_21 | IE_NW_36E011300 | Erne_080 | River | At Risk | Moderate | Moderate | N | Ag | 2027 | |
| 36_21 | IE_NW_36E011410 | Erne_090 | River | At Risk | Moderate | Moderate | N | Ag | 2027 | |

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|-------------------|--------------------|-------------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_22 | IE_NW_36_369 | Derryhoo | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_441 | Grilly | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_444 | Edenterriff | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_472 | Faharlagh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_718 | Kilylea | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_719 | Quivvy | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | IE_NW_36_720 | Derrykerrib | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | UKGBNI1NW363602063 | Upper Lough Erne | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_22 | UKGBNI1NW363604067 | Starraghen Tributary | River | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_22 | UKGBNI1NW363604081 | Erne_110 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_23 | UKGBNI1NW363604054 | Swanlinbar River | River | At Risk | Unassigned | Unassigned | N | Other | 2027 | |
| 36_24 | UKGBNI1NW363601036 | Black River | River | At Risk | Unassigned | Unassigned | N | Ag | 2027 | |
| 36_24 | IE_NW_36_445 | Macnean | Lake | At Risk | Bad | Bad | N | UWW | 2027 | |
| 36_24 | IE_NW_36_673 | Macnean Upper | Lake | At Risk | Moderate | Moderate | N | Ag,For | 2027 | |
| 36_24 | IE_NW_36R020200 | Roo_010 | River | At Risk | High | Poor | N | Ag,DWW | 2021 | Roo |
| 36_24 | UKGBNI1NW363602093 | Drumharriff Burn | River | At Risk | Unassigned | Unassigned | N | Other | 2027 | |
| 36_25 | IE_NW_36_142 | Aghalough | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_25 | IE_NW_36S530890 | Sessiaghkeelta 36_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_25 | UKGBNI1NW363604064 | Termon River (Pettigoe) | River | At Risk | Unassigned | Unassigned | N | Ag,UWW | 2027 | |
| 36_25 | UKGBNI3NW0006 | Erne Lower Kesh | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_26 | UKGBNI3NW0022 | Scolban | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_26 | IE_NW_36_651 | Tullynassidagh | Lake | At Risk | Good | Moderate | N | Peat | 2027 | |
| 36_27 | IE_NW_36_710 | Columbkille | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_27 | IE_NW_36_717 | Assaroe | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_27 | IE_NW_35B070200 | Bradoge_020 | River | At Risk | Moderate | Moderate | N | DU,DWW,UWW | 2027 | |
| 36_27 | IE_NW_36A010300 | Abbey_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_27 | IE_NW_36_715 | Golagh | Lake | At Risk | Good | Moderate | N | Other | 2027 | |
| 36_27 | UKGBNI3NW0029 | Keenaghan | Lake | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_27 | UKGBNI1NW363604085 | Erne_120 | River | At Risk | Moderate | Moderate | N | Ag,Hymo,Other | 2027 | |
| 36_27 | IE_NW_030_0100 | Erne Estuary | Transitional | At Risk | Good | Moderate | N | Hymo | 2027 | |

| Subcatchment code | Water body code | Water body name | Water body type | Risk | Ecological Status 07-09 | Ecological Status 10-15 | High Ecological Status Objective Water Body Y/N | Significant Pressures | Date to Meet Environmental Objective | Recommended Area for Action Name |
|-------------------|-----------------|--------------------|-----------------|---------|-------------------------|-------------------------|---|-----------------------|--------------------------------------|----------------------------------|
| 36_28 | IE_WE_35M540870 | Mullaghmore 35_010 | River | Review | Unassigned | Unassigned | N | | 2027 | |
| 36_28 | IE_NW_35D050100 | Duff_010 | River | At Risk | High | Good | Y | Ag | 2021 | Duff |
| 36_28 | IE_NW_35D050250 | Duff_020 | River | At Risk | High | Good | Y | Ag,Peat | 2021 | Duff |

Ag: Agriculture

M+Q: Mines and Quarries

DWW: Domestic Waste Water

Peat: Peat Drainage and Extraction

For: Forestry

DU: Diffuse Urban

Hymo: Hydromorphology

UWW: Urban Waste Water

Ind: Industry

Note: Significant Pressures for Review water bodies have not been included as they will need to be confirmed as part of an Investigative Assessment.

Protected Area: If a water body is one or more of the following: Drinking Water Protected Area; Bathing Water; Shellfish Area; Nutrient Sensitive Area or; a Natura 2000 site with a water dependent qualifying interest with a water quality and/or quantity conservation objective, then it has been highlighted as a protected area in this table.

Appendix 4 Drinking water supplies in the catchment

| Scheme Code | Scheme Name | Water Body | Water Body Code |
|----------------|------------------------------|---|-----------------|
| 0200PRI2009 | Corlough GWS Spring 1 | Anierin-Cuilcagh East GWB | IEGBNI_NW_G_035 |
| | Corlough GWS Spring 2 | Anierin-Cuilcagh East GWB | IEGBNI_NW_G_035 |
| | Corlough GWS Spring 3 | Anierin-Cuilcagh East GWB | IEGBNI_NW_G_035 |
| | Corlough GWS Spring 4 | Anierin-Cuilcagh East GWB | IEGBNI_NW_G_035 |
| 0200PRI2023 | Milltown GWS | Killashandra GWB | IE_NW_G_062 |
| 0200PRI2003 | Templeport GWS Borehole 1 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| | Templeport GWS Borehole 2 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| 0200PRI2020 | Kildallan GWS Borehole 1 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| | Kildallan GWS Borehole 2 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| 1700PRI1002100 | Carrigallen Gpr Well 1 | Cavan GWB | IE_NW_G_061 |
| | Carrigallen Gpr Well 2 | Cavan GWB | IE_NW_G_061 |
| | Carrigallen Gpr Well 3 | Cavan GWB | IE_NW_G_061 |
| 1700PRI1111 | Drumeela Gpr | Killashandra GWB | IE_NW_G_062 |
| 2700PRI1019 | Ballintrillick GWS | Rossinver GWB | IEGBNI_NW_G_044 |
| 2400PRI2019 | Magheraclaone GWSS | Comertagh Lough LWB (not designated, therefore RWB referenced) | IE_NW_36A020080 |
| | Magheraclaone GWSS | Graghlonge Or Beagh Lough LWB (not designated, therefore RWB referenced) | IE_NW_36A020080 |
| 0200PRI2001 | Annagh GWS | Annagh Lough LWB | IE_NW_36_517 |
| 0200PRI2007 | Bunroe GWS | Killynenagh LWB | IE_NW_36_409 |
| 0200PRI2011 | Crossdoney GWS | Lough Attrain LWB | IE_NW_36_618 |
| 0200PRI2012 | Crosserlough GWS | Graddum LWB | IE_NW_36_316 |
| 0200PRI2017 | Erne Valley GWS | Garty LWB | IE_NW_36_430 |
| 0200PRI2021 | Kill GWS | Black Lough LWB (not designated, therefore RWB referenced) | IE_NW_36A020600 |
| 0200PRI2023 | Milltown GWS | Derrybrick Lough LWB | IE_NW_36_400 |
| 0200PRI2024 | Mountainlodge GWS | Lough Asturral LWB | IE_NW_36_378 |
| 2400PRI2012 | Corduff-Corracharra GWSS | Namachree LWB | IE_NW_36_684 |
| 2400PRI2015 | Doohamlet GWSS | Toome Crinkill Lough LWB | IE_NW_36_382 |
| 2400PRI2016 | Drumgole GWSS | Annaghmakerrig Lough LWB (not designated, therefore RWB referenced) | IE_NW_36B050300 |

| Scheme Code | Scheme Name | Water Body | Water Body Code |
|-------------|------------------------------------|---|-----------------|
| 2400PRI2021 | Stranoodan GWSS | White Rockcorry LWB | IE_NW_36_647 |
| 2400PRI2011 | Aughnashalvey GWSS | Killcoran LWB | IE_NW_36_329 |
| 0200PRI2004 | Barraghy GWS | ANNALEE_030 RWB | IE_NW_36A020350 |
| 0200PRI2013 | Dernakesh GWS | ANNALEE_030 RWB | IE_NW_36A020350 |
| 0200PRI2014 | Dhuish GWS | ANNALEE_020 RWB | IE_NW_36A020150 |
| 0200PUB1004 | Ballyconnell PWS Borehole 1 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| | Ballyconnell PWS Borehole 2 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| 0200PUB1007 | Bawnboy PWS Borehole 1 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| | Bawnboy PWS Borehole 2 | Newtown-Ballyconnell GWB | IEGBNI_NW_G_031 |
| 0200PUB1017 | Mountain Spring | Ballinamore-Swanlinbar GWB | IEGBNI_NW_G_034 |
| 2400PUB1010 | Smithboro Templetate Borehole 1 | Clones GWB | IEGBNI_NW_G_063 |
| | Smithboro Templetate Borehole 2 | Clones GWB | IEGBNI_NW_G_063 |
| 0600PUB1104 | Pettigo WTP | Ballyshannon East GWB | IEGBNI_NW_G_011 |
| 0600PUB1105 | Ballyshannon | Ballyshannon GWB | IE_NW_G_072 |
| | Ballyshannon | Ballyshannon GWB | IE_NW_G_072 |
| | Ballyshannon | Ballyshannon GWB | IE_NW_G_072 |
| | Ballyshannon | Lough Unshin LWB | IE_NW_36_712 |
| 1700PUB4500 | Kiltyclogher | Kiltyclogher GWB | IE_NW_G_074 |
| 2400PUB1002 | Clones | Clones GWB | IEGBNI_NW_G_063 |
| | Clones | Clones GWB | IEGBNI_NW_G_063 |
| | Clones | Carnroe Lake LWB (<i>not designated, therefore RWB referenced</i>) | IE_NW_36G750800 |
| | Clones | Skerrick Lake LWB (<i>not designated, therefore RWB referenced</i>) | IE_NW_36G750800 |
| | Clones | Corconnelly Lough LWB | IE_NW_36_192 |
| 0600PUB1108 | Bundoran Urban | Melvin LWB | IE_NW_35_160 |
| 0200PUB1011 | Cavan PWS | Acanon LWB | IE_NW_36_515 |
| 0200PUB1011 | Cootehill PWS | Lough Coragh LWB | IE_NW_36_460 |
| 2000PUB1011 | Gowna | Lough Gowna North LWB | IE_NW_36_723 |
| 2400PUB1001 | LERWSS | Lough Bawn MN LWB | IE_NW_36_623 |
| 2400PUB1003 | Newbliss | Feagh Lough LWB (<i>not designated, therefore RWB referenced</i>) | IE_NW_36F010400 |
| 2400PUB1024 | Monaghan | Corcaghan LWB | IE_NB_03_71 |
| | Monaghan | Blackraw & Greagh Lough LWB | IE_NB_03_51 |
| 0200PUB1008 | Belturbet PWS | Erne_090 RWB | IE_NW_36E011410 |

Appendix 5 Prioritisation of water bodies with Natura 2000 site qualifying interests

Note that additional water dependent species have been added that are not qualifying interests within the SACs (i.e. Arctic char (*Salvelinus alpinus*) has been added to Lough Melvin SAC).

| SAC Name | Relevant Qualifying interests | Target status | Water body type | Water bodies | Status (risk) | Prioritise? | Code | Survey data? |
|--|-------------------------------|--------------------|-----------------|---------------|--------------------|-------------|--------------|--------------|
| Boleybrack Mountain SAC 002032 | none | | | | | | | |
| Cuilcagh – Anierin Uplands SACs 000584 | Potential 3110/3160 | At least Good | Lake | Nabellbeg | Unassigned (NAR) | No | IE_NW_36_201 | Yes |
| Arroo Mountain SAC 001403 | 7220 | Good GW level | Groundwater | Glenaniff | Good (R) | No | IE_NW_G_043 | Yes |
| | | | Groundwater | Rossinver | Good (R) | No | IE_NW_G_044 | Yes |
| Lough Oughter and Associated Loughs SAC 000007 | 3150 | Good | Lake | Derrygid | Unassigned (AR) | Yes | IE_NW_36_580 | No |
| | | | Lake | Coalpit | Unassigned (AR) | Yes | IE_NW_36_633 | No |
| | | | Lake | Erne Upper | Poor (AT RISK) | Yes | IE_NW_36_672 | No |
| | | | Lake | Corglass | Bad (AT RISK) | Yes | IE_NW_36_655 | No |
| | | | Lake | Farnharn | Bad (AT RISK) | Yes | IE_NW_36_564 | No |
| | | | Lake | Ardan | Moderate (AT RISK) | No | IE_NW_36_432 | No |
| | | | Lake | Derrybrick | Moderate (AT RISK) | No | IE_NW_36_400 | No |
| | | | Lake | Oughter South | Moderate (AT RISK) | No | IE_NW_36_657 | No |
| | | | Lake | Atrain | Moderate (AT RISK) | No | IE_NW_36_618 | No |
| | | | Lake | Annagh | Moderate (AT RISK) | No | IE_NW_36_517 | No |
| | | | Lake | Mill CN | Moderate (AT RISK) | No | IE_NW_36_597 | No |
| | | | Lake | Cullinaghan | Moderate (AT RISK) | No | IE_NW_36_385 | No |
| Lake | Bawn CN | Moderate (AT RISK) | No | IE_NW_36_573 | No | | | |

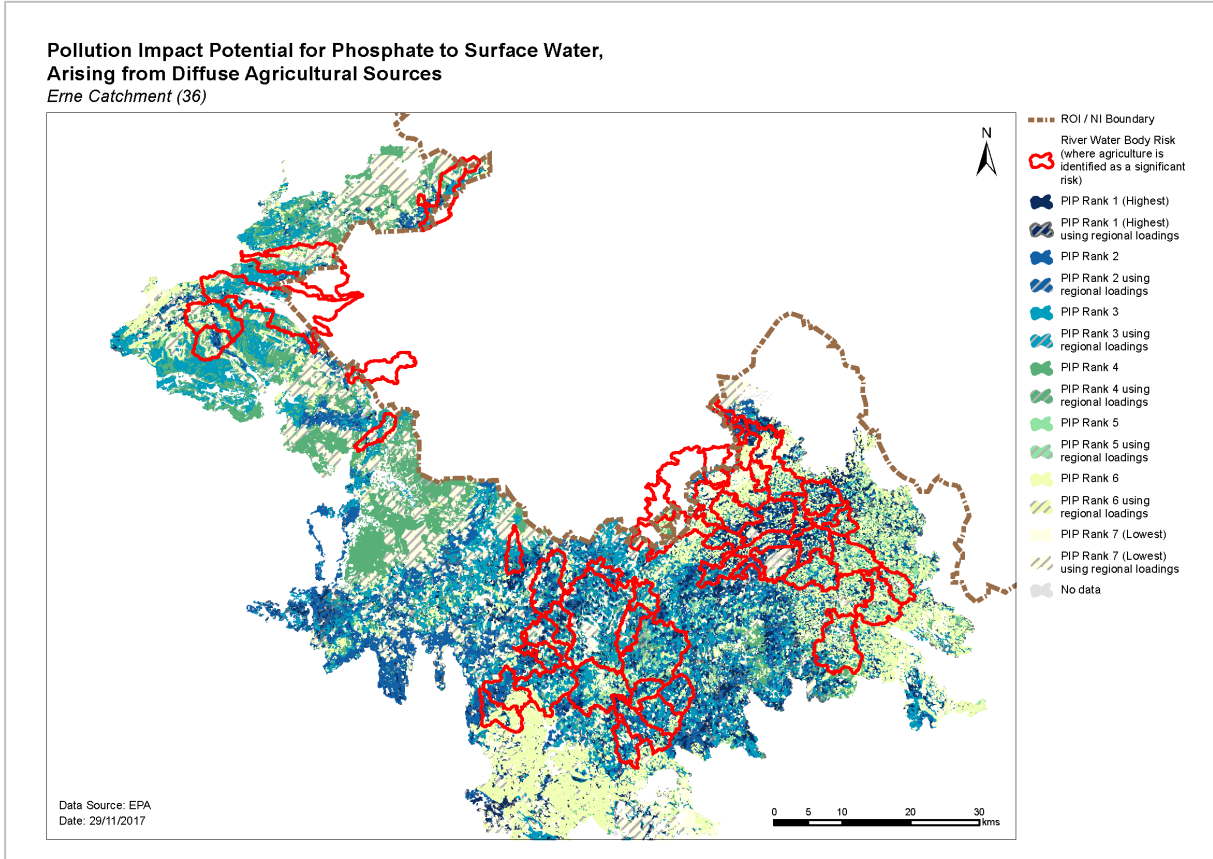
| SAC Name | Relevant Qualifying interests | Target status | Water type | body | Water bodies | Status (risk) | Prioritise? | Code | Survey data? |
|--|-------------------------------|----------------|----------------|------|---------------|----------------|-------------|--------------|--------------|
| Lough Oughter and Associated Loughs SAC 000007 | 3150 | Good | Lake | | Anoneen | Unassigned (R) | No | IE_NW_36_391 | No |
| | | | Lake | | Quivvy | Unassigned (R) | No | IE_NW_36_719 | No |
| | | | Lake | | Derrykerrib | Unassigned (R) | No | IE_NW_36_720 | No |
| | | | Lake | | Kilylea | Unassigned (R) | No | IE_NW_36_718 | No |
| | | | Lake | | Edenterriff | Unassigned (R) | No | IE_NW_36_444 | No |
| | | | Lake | | Faharlagh | Unassigned (R) | No | IE_NW_36_472 | No |
| | | | Lake | | Castle CN | Unassigned (R) | No | IE_NW_36_677 | No |
| | | | Lake | | Grilly | Unassigned (R) | No | IE_NW_36_441 | No |
| | | | Lake | | Corraback | Unassigned (R) | No | IE_NW_36_470 | No |
| | | | Lake | | Kilywilly | Unassigned (R) | No | IE_NW_36_513 | No |
| | | | Lake | | Tomkinroad | Unassigned (R) | No | IE_NW_36_410 | No |
| | | | Lake | | Holy | Unassigned (R) | No | IE_NW_36_207 | No |
| | | | Lake | | Clonmullig | Unassigned (R) | No | IE_NW_36_247 | No |
| | | | Lake | | Long | Unassigned (R) | No | IE_NW_36_500 | No |
| | | | Lake | | Killynaher | Unassigned (R) | No | IE_NW_36_486 | No |
| | | | Lake | | Drumlaney | Unassigned (R) | No | IE_NW_36_394 | No |
| | | | Lake | | Derryhoo | Unassigned (R) | No | IE_NW_36_369 | No |
| | | | Lake | | Killybandrick | Unassigned (R) | No | IE_NW_36_489 | No |
| | | | Lake | | Drumgorry | Unassigned (R) | No | IE_NW_36_343 | No |
| | | | Lake | | Parisee | Unassigned (R) | No | IE_NW_36_465 | No |
| | | | Lake | | Corrarod | Unassigned (R) | No | IE_NW_36_318 | No |
| | | | Lake | | Drumellis | Unassigned (R) | No | IE_NW_36_490 | No |
| | | | Lake | | Commons | Unassigned (R) | No | IE_NW_36_367 | No |
| | | | Lake | | Round | Unassigned (R) | No | IE_NW_36_277 | No |
| | | | Lake | | Putigan | Unassigned (R) | No | IE_NW_36_505 | No |
| | | | Lake | | Bun | Unassigned (R) | No | IE_NW_36_261 | No |
| | | | Lake | | Tonawolly | Unassigned (R) | No | IE_NW_36_458 | No |
| | | | Lake | | Tulyroan | Unassigned (R) | No | IE_NW-36_476 | No |
| Lake | | Bun | Unassigned (R) | No | IE_NW_36_261 | No | | | |
| Lake | | Derrygeeraghan | Unassigned (R) | No | IE_NW_36_386 | No | | | |
| Lake | | Black CN | Unassigned (R) | No | IE_NW_36_477 | No | | | |
| Lake | | Drummany | Unassigned (R) | No | IE_NW_36_521 | No | | | |
| Lake | | Oughter North | Unassigned (R) | No | IE_NW_36_661 | No | | | |

| SAC Name | Relevant Qualifying interests | Target status | Water type | body | Water bodies | Status (risk) | Prioritise? | Code | Survey data? |
|--|-------------------------------|-------------------|----------------|--------|----------------------|--------------------|-------------|--------------|--------------|
| Lough Oughter and Associated Loughs SAC 000007 | 3150 | Good | Lake | | Drumlane or Garfinny | Unassigned (R) | No | IE_NW_36_504 | No |
| | | | Lake | | Inchin | Unassigned (R) | No | IE_NW_36_652 | No |
| | | | Lake | | Tully CN | Unassigned (R) | No | IE_NW_36_561 | No |
| | | | Lake | | Deraik | Unassigned (R) | No | IE_NW_36_603 | No |
| | | | Lake | | Carrs | Unassigned (R) | No | IE_NW_36_628 | No |
| | | | Lake | | Tullguide | Unassigned (R) | No | IE_NW_36_640 | No |
| | | | Lake | | Broompark | Unassigned (R) | No | IE_NW_36_581 | No |
| | | | Lake | | Pleasure | Unassigned (R) | No | IE_NW_36_565 | No |
| | | | Lake | | Town | Unassigned (R) | No | IE_NW_36_574 | No |
| | | | Lake | | Derry | Unassigned (R) | No | IE_NW_36_575 | No |
| | | | Lake | | Aghabane | Unassigned (R) | No | IE_NW_36_559 | No |
| | | | Lake | | Disert | Unassigned (R) | No | IE_NW_36_632 | No |
| Lake | | Derreskit | Unassigned (R) | No | IE_NW_36_599 | No | | | |
| Kilroosky Lough Cluster SAC 001786 | 3140 | At least Good | Lake | | Summerhill | Moderate (AT RISK) | Yes | IE_NW_36_721 | No |
| | | | Lake | | Dummys | Unassigned (R) | No | IE_NW_36_368 | No |
| | | | Lake | | Killrosky | Unassigned (R) | No | IE_NW_36_669 | No |
| | | | Lake | | Burdautiers | Unassigned (R) | No | IE_NW_36_301 | No |
| | 1092 | At least Moderate | Lake | | Killrosky | Unassigned (R) | No | IE_NW_36_669 | No |
| 7230 | Good GW level | Groundwater | | Clones | Good (R) | No | IE_NW_G_063 | No | |
| Lough Melvin SAC 000428 | 3130 | At least Good | Lake | | Melvin | Moderate (AT RISK) | Yes | IE_NW_35_160 | No |
| | 1106 | Good | Lake | | Melvin | Moderate (AT RISK) | Yes | IE_NW_35_160 | No |
| | Artic char (not listed) | Good | Lake | | Melvin | Moderate (AT RISK) | Yes | IE_NW_35_160 | No |
| Lough Golagh and Breasy Hill SAC 002164 | none | | | | | | | | |
| Tamur Bog SAC 001992 | none | | | | | | | | |
| Lough Nageage SAC 002135 | none | | | | | | | | |

| SAC Name | Relevant Qualifying interests | Target status | Water body type | Water bodies | Status (risk) | Prioritise? | Code | Survey data? |
|---|-------------------------------|---------------|-----------------|---------------------------------------|---------------|-------------|--------------|--------------|
| Dunmuckrum Turloughs SAC 002303 | 3180 | At least Good | Groundwater | GWDTE-Dunmuckrum Turlough (SAC002303) | Good (R) | No | IE_NW_G_095 | No |
| Bunduff Lough And Machair/Trawalua/Mullaghmore SAC 000625 | 21A0 | Good GW level | Groundwater | Tullaghan-Lough Melvin | Good (NAR) | No | IE_NW_G_014 | Yes |
| | | | Groundwater | Grange East GWB | Good (NAR) | No | IE_WE_G_0062 | Yes |
| | 7230 | Good GW level | Groundwater | Tullaghan-Lough Melvin | Good (NAR) | No | IE_NW_G_014 | Yes |
| | | | Groundwater | Grange East GWB | Good (NAR) | No | IE_WE_G_0062 | Yes |
| Ben Bulben, Gleniff And Glenade Complex SAC 000623 | 7220 | Good GW level | Groundwater | Largydonnell | Good (NAR) | No | IE_NW_G_045 | No |
| | | | Groundwater | Tievebaun | Good (R) | No | IE_NW_G_073 | No |
| | | | Groundwater | Rossinver | Good (R) | No | IE_NW_G_044 | No |
| | 7230 | Good GW level | Groundwater | Largydonnell | Good (NAR) | No | IE_NW_G_045 | No |
| | | | Groundwater | Tievebaun | Good (R) | No | IE_NW_G_073 | No |
| | | | Groundwater | Rossinver | Good (R) | No | IE_NW_G_044 | No |
| Corratirrim SAC 000979 | None | | | | | | | |

Appendix 6 Pollution Impact Potential (PIP) Map for Phosphorus

For areas where agriculture is deemed as the significant pressure, areas of high risk to surface water can be targeted. The map below shows relative risk of loss of phosphorus to surface water. The risk of phosphorus losses is strongly correlated on whether the land is poorly draining or free draining and the loadings applied i.e. significant loadings applied on poorly draining areas result in a high potential risk to surface water. However, this figure does not imply that actual losses from these areas are occurring but is a useful tool for informing where resources should be focused (i.e. by allowing high risk areas to be identified and prioritised for further investigation). PIP maps are available online at a scale of 1:20,000 and can be accessed by public bodies via the EDEN process.



Appendix 7 Local Catchment Assessment Categories

| Category | Assessment & Measures Evaluation Details |
|----------|---|
| IA1 | Further information provision (e.g. from IFI, LAs, EPA) |
| IA2 | Point source desk-based assessment |
| IA3 | Assessment of unassigned status water bodies, requiring field visit(s) |
| IA4 | Regulated point sources, requiring field visit/s |
| IA5 | Stream (catchment) walk to evaluate multiple sources in a defined (1 km) river stretch (used as the basis for estimating resource requirements) |
| IA6 | Stream (catchment) walk in urban areas |
| IA7 | Stream (catchment) walk along >1 km river stretches |
| IA8 | Stream (catchment) walk along high ecological status (HES) objective rivers |
| IA9 | Lakes assessment, requiring field visits |
| IA10 | Groundwater assessments, requiring field visits |