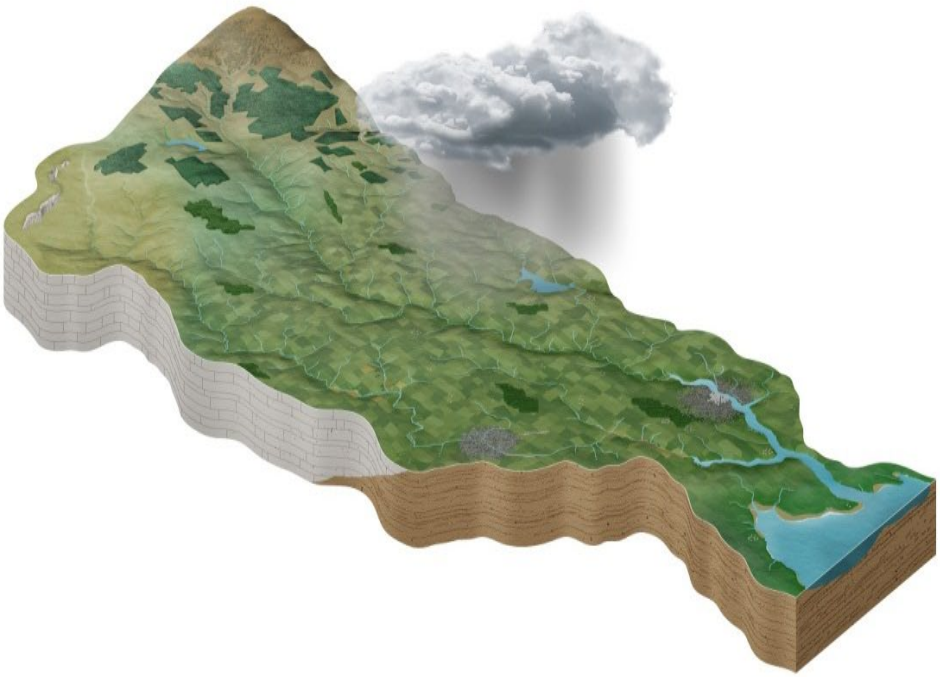
3rd Cycle Draft
Blackwater (Munster) Catchment Report
(HA 18)



Catchment Science & Management Unit

Environmental Protection Agency

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Preface

This document provides a summary of the water quality assessment outcomes for the Blackwater (Munster) Catchment, which have been compiled and assessed by the EPA, with the assistance of the Local Authority Waters Programme (LAWPRO), local authorities and RPS consultants to inform the draft 3rd Cycle River Basin Management Plan. The information presented includes status and risk categories of all waterbodies, details on protected areas, significant issues, significant pressures, source load apportionment modelling and load reduction assessments for nutrients where applicable, an overview of the 2nd Cycle Areas for Action and a list of proposed 3rd Cycle Areas for Action. These characterisation assessments are largely based on information available to the end of 2018, including the WFD Status Assessment for 2013-2018. Protected Area assessments are based on water quality information up to 2018 for Natura 2000 and Salmonid Waters; 2019 for Drinking Water; and 2020 for Nutrient Sensitive Areas and Bathing Waters.

The purpose of this draft report is to provide an overview of the situation in the catchment, draw comparison between Cycle 2 and Cycle 3, and help support the draft River Basin Management Plan 2022-2027 consultation process. Once the consultation process is completed the report will be finalised to reflect any changes and comments made as a result of the consultation process.

Water Framework Directive – key dates and terminology	
Cycle 2 – EPA Characterisation and Assessment	Characterisation and assessment to inform the Cycle 2 RBMP was largely based on 2010-2015 WFD monitoring data.
Cycle 2 Catchment Assessments	Catchment Assessments based on the Cycle 2 characterisation and assessment were published in September 2018.
2nd Cycle River Basin Management Plan (RBMP) 2018-2021	This plan was for WFD Cycle 2 which runs from 2016-2021. This RBMP was published late, with this plan covering 2018-2021.
2nd Cycle Areas for Action	These 189 Areas for Action were selected under the RBMP 2018-2021
Cycle 3 -EPA Characterisation and Assessment	Cycle 3 runs from 2022-2027. Assessments to inform the Cycle 3 RBMP is largely based on 2013-2018 WFD monitoring data. This is the latest WFD monitoring assessment period for which all data are available.
Cycle 3 Catchment Assessments	Catchment Assessments based on the Cycle 3 characterisation and assessment were published in August 2021.
3rd Cycle River Basin Management Plan 2022-2027	This draft RBMP is for WFD Cycle 3 which runs from 2022-2027. Public consultation on this plan by the DHLGH and LAWPRO is taking place in late 2021 and early 2022.
3rd Cycle Recommended Areas for Action – Protection/ Restoration/Projects	These recommended Areas for Action have been identified in the draft RBMP 2022-2027 and feedback can be given in the public consultation on this plan. They fall into 3 categories – Areas for Protection, Areas for Restoration and Catchment Projects.

Table of Contents

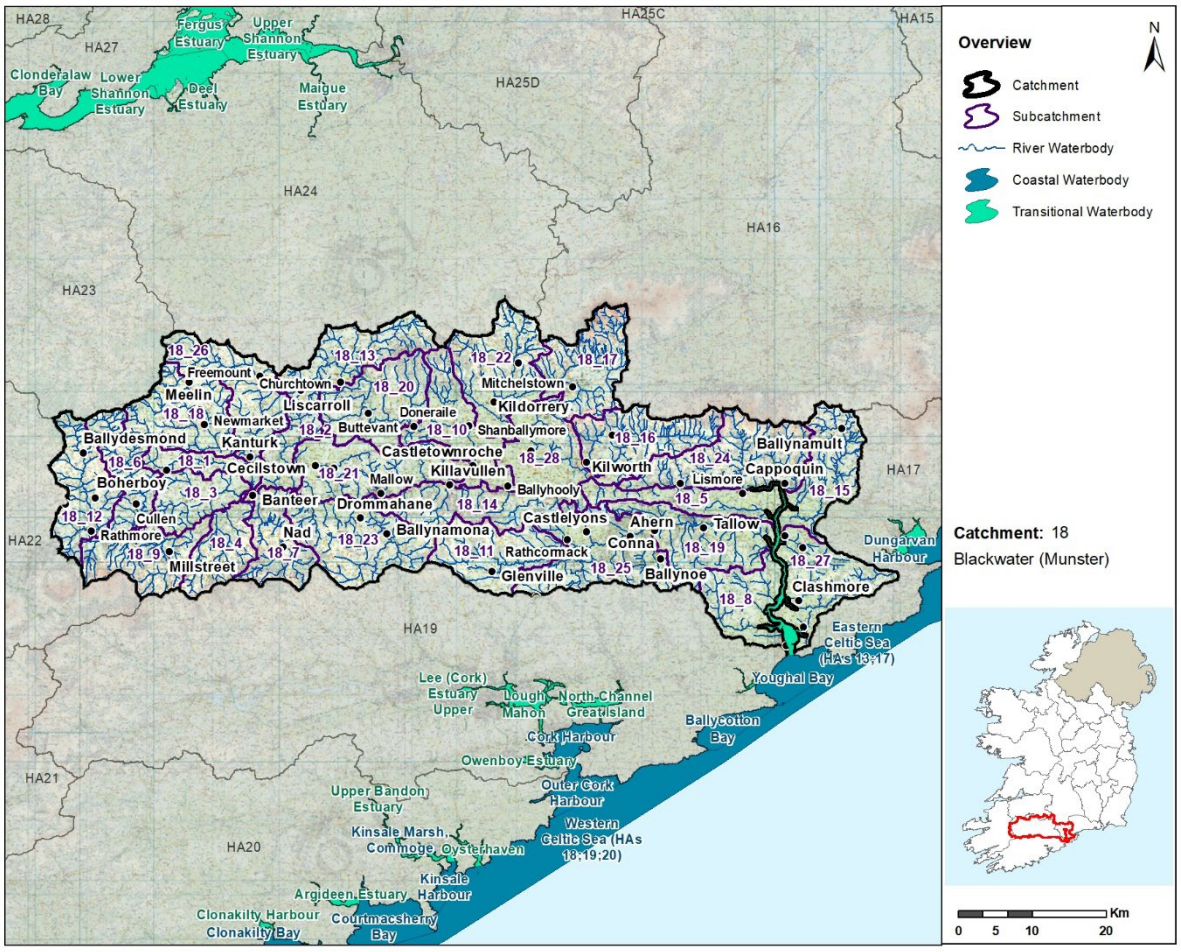
List of Figures

List of Tables

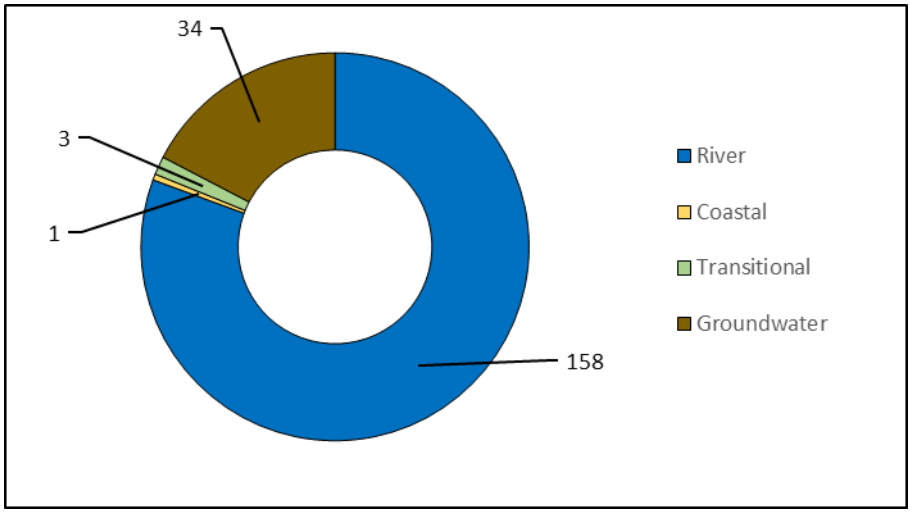
1 Introduction

This report aims to provide an overview of the water quality status, risk, key issues and significant pressures for all waterbodies in the catchment based on the Characterisation Assessment undertaken for the 3rd Cycle River Basin Management Plan. In addition, a comparative overview of the water quality in the Blackwater (Munster) catchment between Cycle 2 and Cycle 3 characterisation is provided along with a summary of the progress made in the 2nd Cycle Areas for Action. The recommended list for the 3rd Cycle Areas for Action is also provided.

To provide context, the Blackwater (Munster) catchment includes the area drained by the River Blackwater and all streams entering tidal water between East Point and Knockaverry, Youghal, Co. Cork, draining a total area of 3,310km² (Figure 1). The largest urban centre in the catchment is Mallow. The other main urban centres in this catchment are Fermoy, Mitchelstown, Youghal, Kanturk and Millstreet. The total population of the catchment is approximately 109,030 with a population density of 33 people per km².



The Blackwater (Munster) catchment is divided into 28 subcatchments (Figure 1) with 158 river waterbodies, three transitional waterbodies (Lower Blackwater M Estuary / Youghal Harbour, Lackaroe (Glendine Estuary) & Upper Blackwater M Estuary), one coastal waterbody (Youghal Bay) and 34 groundwater bodies. There are no lakes waterbodies in the catchment (Figure 2).



2 Waterbody Overview

2.1 Waterbody Status

- This assessment to inform the 3rd Cycle RBMP is largely based on WFD monitoring data for the period 2013-2018, which is the latest WFD monitoring assessment period for which all data are available.

- For this assessment to inform Cycle 3, there are 17 waterbodies achieving High Status, 122 achieving Good Status, 23 achieving Moderate Status and 11 at Poor Status. There are 23 waterbodies that do not have status assigned for Cycle 3. All waterbodies must achieve at least Good Ecological status.

- There are 51 river waterbodies that must achieve High Ecological Status (HES) in this catchment. These waterbodies are listed in Appendix 1. Of the 51 HES Environmental Objective waterbodies, 12 are achieving High Status while 31 waterbodies are at Good Status, three waterbodies (Blackwater (Munster)_040, Blackwater (Munster)_160 & Blackwater (Munster)_220) are at Moderate Status, one waterbody (Allow_060) is at Poor Status and four waterbodies (Allow_040, Blackwater (Munster)_130, Blackwater (Munster)_140 & Blackwater (Munster)_180) are currently unassigned.

- The overall number of waterbodies achieving High Status has decreased by six, from 23 to 17, between Cycle 2 and Cycle 3 (Figure 3 & Table 1). The number of waterbodies at Moderate Status decreased by seven, from 30 to 23. The number of Poor Status waterbodies decreased by one waterbody, from 12 to 11 and the number of Good Status waterbodies increased from 108 to 122.

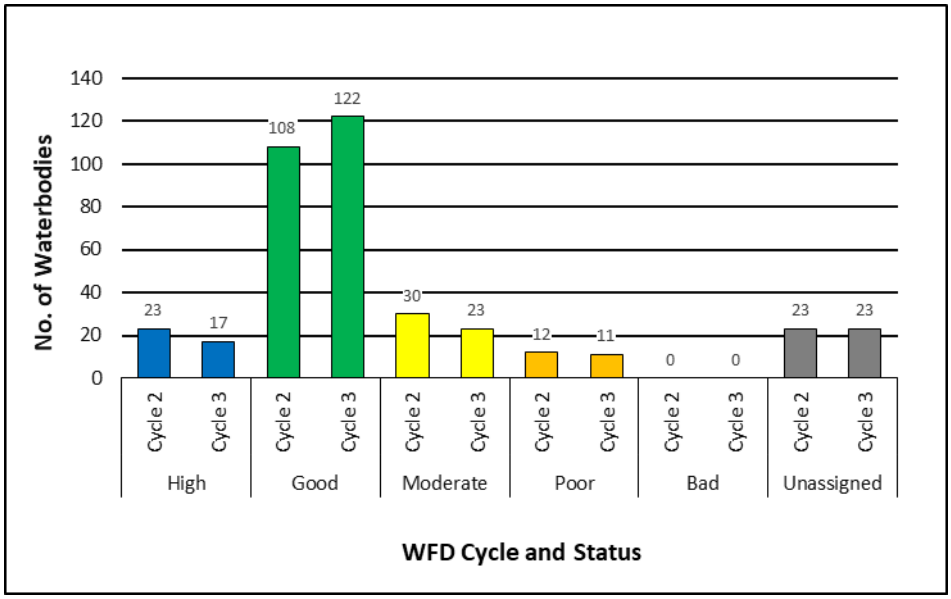


Table 1: Waterbody Status Breakdown Table (All Waterbodies)

2013-2018 Status	River		Lake		Transitional		Coastal		Groundwater		Total	
	Cycle 2	Cycle 3	Cycle 2	Cycle 3	Cycle 2	Cycle 3	Cycle 2	Cycle 3	Cycle 2	Cycle 3	**Cycle 2**	**Cycle 3**
High	22	16	0	0	1	1	0	0	0	0	**23**	**17**
Good	74	90	0	0	0	0	1	0	33	32	**108**	**122**
Moderate	29	21	0	0	1	1	0	1	0	0	**30**	**23**
Poor	11	9	0	0	0	0	0	0	1	2	**12**	**11**
Bad	0	0	0	0	0	0	0	0	0	0	**0**	**0**
Un-assigned	22	22	0	0	1	1	0	0	0	0	**23**	**23**
Total	158	158	0	0	3	3	1	1	34	34	**196**	**196**

- Figure 4 illustrates the change in status between Cycle 2 (assessment based largely on 2010-2015 WFD Monitoring data) and Cycle 3 (assessment largely based on 2013-2018 WFD monitoring data. Over this period 18 (10%) waterbodies have improved in status, 140 (81%) waterbodies have remained unchanged and 15 (9%) waterbodies have declined in status.[1]

- There is an overall improvement in status of three waterbodies across the catchment since the Cycle 2 assessment.

[1] Unassigned waterbodies have not been considered in this Status class change assessment and therefore are not represented in Figure 5. Percentage displayed in Figure 4 are in relation to the total number of waterbodies with status assigned in both cycles, as opposed to total number of all waterbodies.

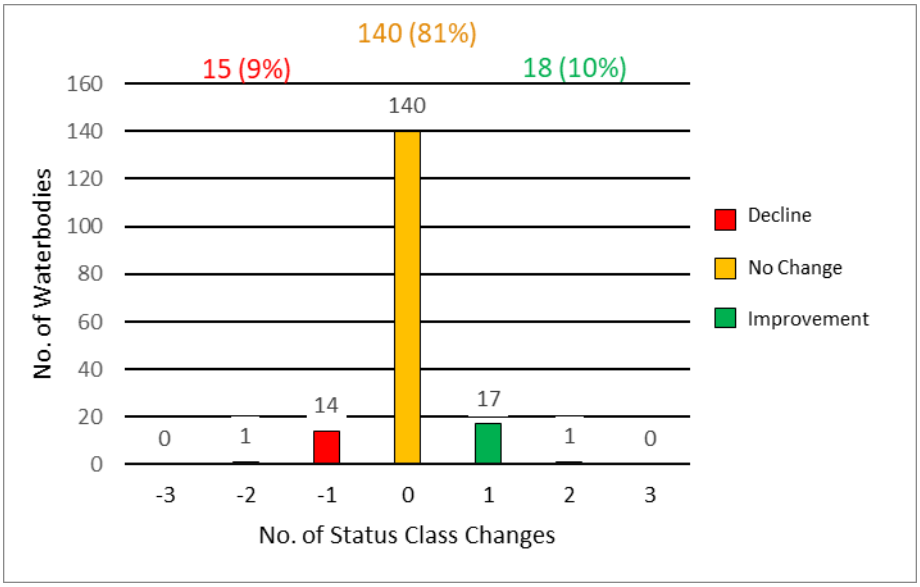


Figure 4: Status Class Changes between Cycle 2 and Cycle 3

2.2 Protected Areas

2.2.1 Drinking Water

- There are nine surface waterbodies in the catchment identified as Drinking Water Protected Areas (DWPA) based on water abstraction data on the abstraction register and from other sources in 2018. All groundwater bodies nationally are identified as DWPA. DWPA layers can be viewed at https://gis.epa.ie/EPAMaps/Water - see *Protected Areas - Drinking Water*.

- All waterbodies in the catchment met the DWPA objective in 2019.

- For more detailed information please see the EPA reports on drinking water quality in 2019 for Public Supplies[2] and Private Supplies[3].

2.2.2 Bathing Waters

- There are four bathing waters in or directly adjacent to the catchment identified under the Bathing Water Regulations 2008.

- Three of the four bathing waters had an Excellent classification in 2020, the remaining bathing waterbody (Youghal, Claycastle) had a Good classification.

- For more detailed information please see the EPA report on bathing water quality in 2020[4].

2.2.3 Shellfish Areas

- There are no designated shellfish areas in the catchment.

[2] https://www.epa.ie/publications/compliance--enforcement/drinking-water/annual-drinking-water-reports/drinking-water-quality-in-public-supplies-2019.php

[3] https://www.epa.ie/publications/compliance--enforcement/drinking-water/annual-drinking-water-reports/focus-on-private-water-supplies-2019.php

[4] https://www.epa.ie/publications/monitoring--assessment/freshwater--marine/bathing-water-quality-in-ireland-2020-.php

The locations of Protected Areas associated with Public Health (Drinking Water, Bathing Water and Shellfish Areas, where applicable) are illustrated in Figure 5 below.

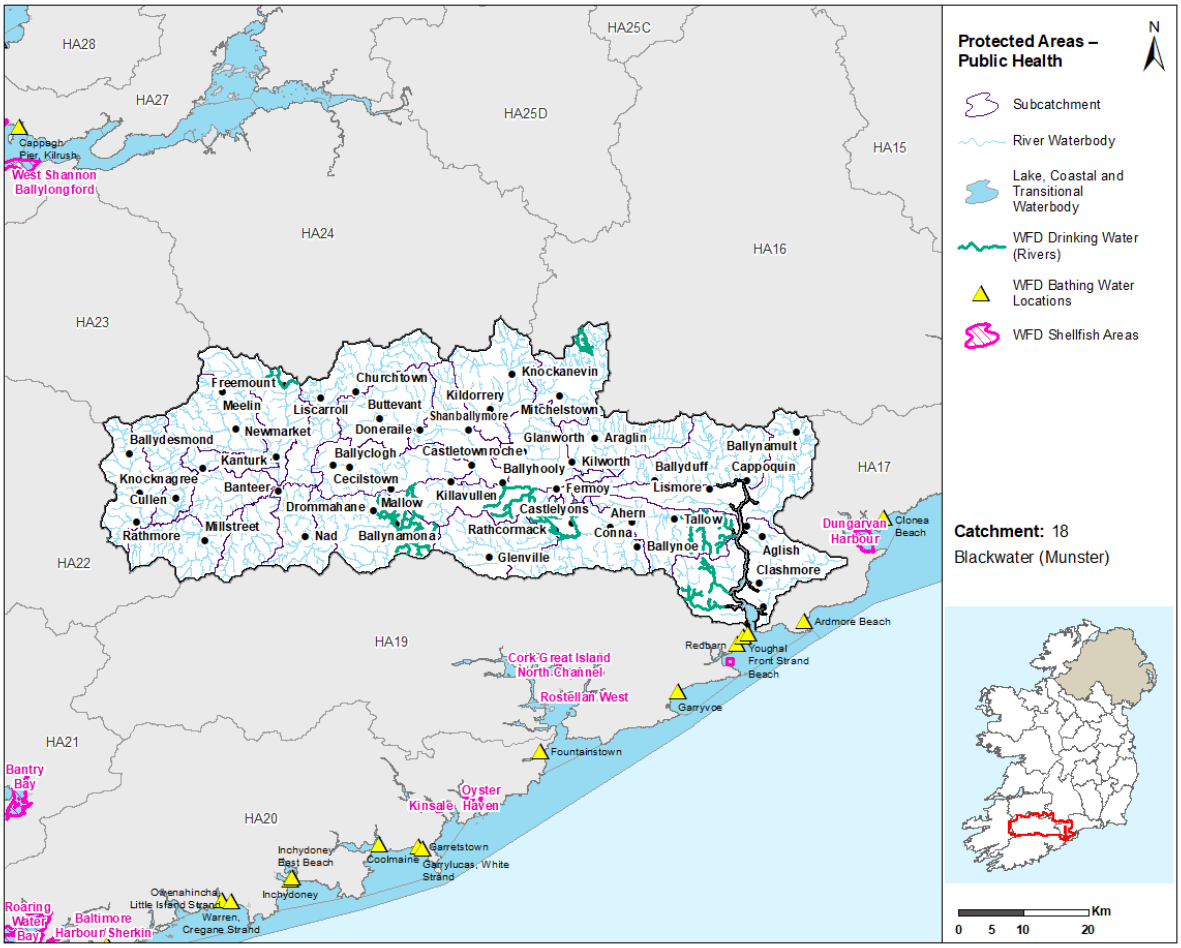


Figure 5: Protected Areas – Public Health

2.2.4 Natura 2000 Sites and Salmonid Waters

- Many of the habitats and species listed for protection in the Birds and Habitats Directives are water dependent. The Special Protection Areas (SPAs) and Special Areas of Conservation (SACs) with water dependent habitats or species in this catchment are presented in Figure 6, along with waterbodies designated as salmonid waters (S.I. No. 293 of 1988) and waterbodies with Fresh Water Pearl Mussel habitat, where identified.

- There are five SACs in this catchment, all of which have water dependent habitats or species. The waterbodies within these SACs were assessed for associated water dependent habitats and species and if they met the supporting requirements for habitats and species using their 2013-2018 WFD status. For the purposes of the assessment, it was assumed that Good ecological status is adequate to meet the supporting conditions of all habitats and species with the exception of the Freshwater Pearl Mussel, which has additional requirements for supporting conditions set out in the Freshwater Pearl Mussel Regulations (S.I. No 296 of 2009) for macroinvertebrates, filamentous algae, phytobenthos, macrophytes and siltation.

- Specific water supporting conditions have not been identified for the dependent bird species in the SPAs and so waterbodies associated with SPAs are not included in this assessment.

Results of the overall assessment for this catchment are outlined in

Table 2 below, information at a waterbody level can be viewed at Catchments.ie.[5]

Table 2: Natura 2000 Network Assessment Summary

Water Body Type	Total No.	Meeting the Requirements	Did not meet the Requirements	Unknown*
Rivers	113	58	34	21
Transitional & Coastal	4	1	2	1

**As the waterbody status was unassigned.*

- There are 30 river waterbodies with FWPM habitats, two of which had achieved the required macroinvertebrate standard as set out in the FWPM Regulations, five were not assessed.
- There are no groundwater bodies delineated and assessed as Groundwater Dependent Terrestrial Ecosystems for this catchment.
- Water dependent SACs/ SPAs (including FWPM SAC sub-catchments) and salmonid waters in the catchment are illustrated in Figure 6.

[5] https://www.catchments.ie/download/catchments-assessments-protected-areas-supporting-documents/

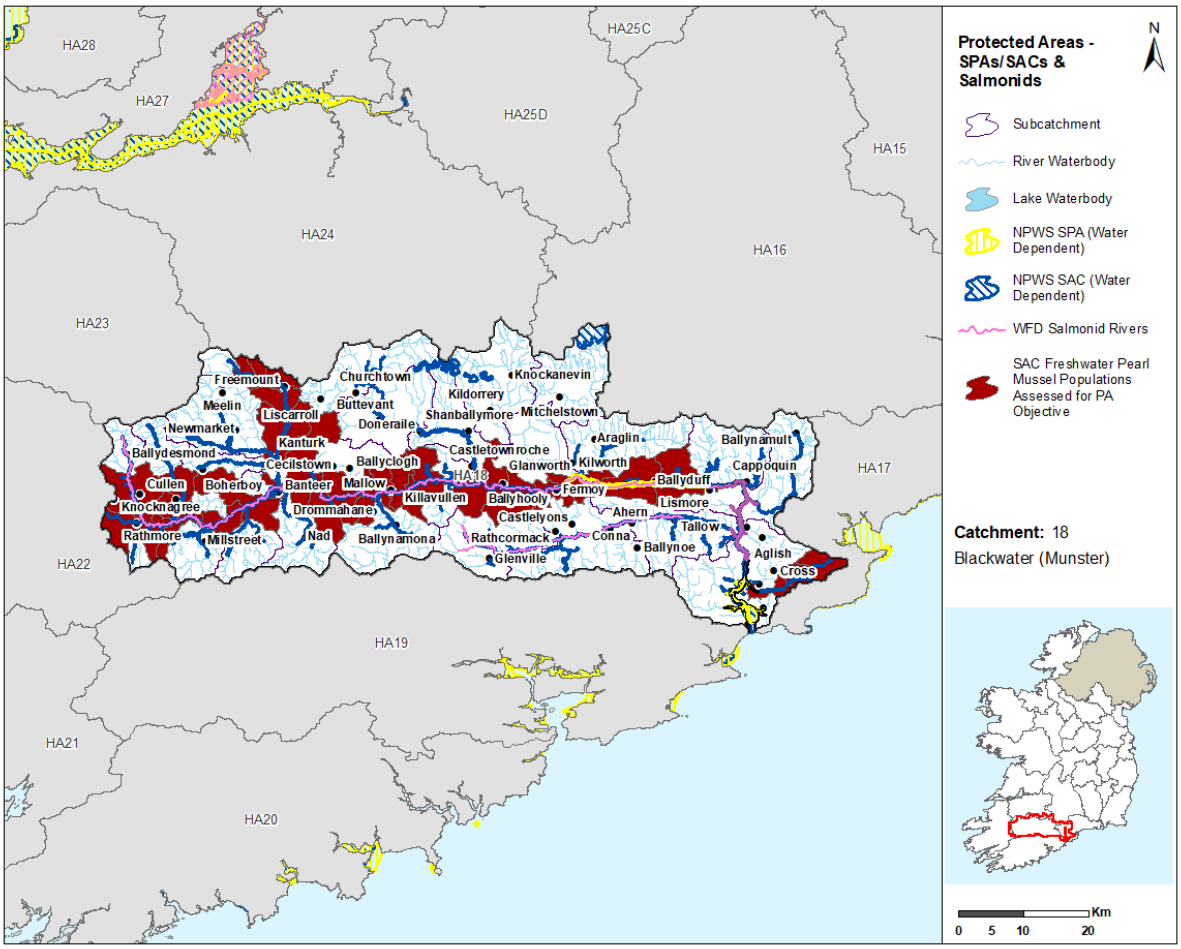


Figure 6: Water Dependent SPAs / SACs and Salmonid Waters

2.2.5 Nutrient Sensitive Areas

- The EPA carried out a review of Nutrient Sensitive Areas (NSAs) downstream of large urban waste water discharges in 2020. Once the regulations are in place, and nutrient sensitive areas have been identified, additional nutrient removal must be applied (if not already applied) to waste water treatment plants discharging to the sensitive area. If this treatment was in place the objective was deemed to have been met.

- There are five NSAs in the catchment and these are downstream of three urban wastewater agglomerations. The list of NSAs, associated agglomerations and intersecting water bodies are provided in Table 3.

- NSA objectives are being met in all of the NSAs in the catchment.

Table 3: Nutrient sensitive areas in the catchment

Nutrient Sensitive Area	Agglomeration		Water body		Objective met?		Comment
	Name	Code	Name	Code	Yes	No	
Blackwater River (140-190)	Mallow	D0052-01	Blackwater (Munster)_140	IE_SW_18B021720	✓		Tertiary Treatment in place
			Blackwater (Munster)_150	IE_SW_18B021800			
			Blackwater (Munster)_160	IE_SW_18B021900			
			Blackwater (Munster)_170	IE_SW_18B022000			
			Blackwater (Munster)_180	IE_SW_18B022100			
			Blackwater (Munster)_190	IE_SW_18B022300			
Blackwater River (190-210)	Fermoy	D0058-01	Blackwater (Munster)_190	IE_SW_18B022300	✓		Tertiary Treatment in place
			Blackwater (Munster)_200	IE_SW_18B022450			
			Blackwater (Munster)_210	IE_SW_18B022500			
Blackwater River (220)	Fermoy	D0058-01	Blackwater (Munster)_210	IE_SW_18B022500	✓		Tertiary Treatment in place
Blackwater Estuary (Upper)	Fermoy	D0058-01	Blackwater Estuary	IE_SW_190_0400	✓		Tertiary Treatment in place
Lower Blackwater Estuary	Youghal	D0139-01	Blackwater Estuary	IE_SW_190_0400	✓		Tertiary Treatment in place

2.3 Heavily Modified Waterbodies

- Based on the 1st and 2nd RBMPs there are currently no designated heavily modified water body (HMWB) in the catchment. There will be a consultation period on HMWBs for the 3rd Cycle RBMP and this will be completed for inclusion in the 3rd Cycle Final RBMP.

2.4 Artificial Waterbodies

- There are no artificial waterbodies (AWBs) present in the Blackwater (Munster) Catchment.

3 Waterbody Risk

3.1 Overview of Risk

- A waterbody that is *At Risk* means that either the waterbody is currently not achieving its Water Framework Directive (WFD) environmental objective of Good or High Ecological Status or that there is an upward trend in nutrients or ammonia and if this trend continues the waterbody Status will decline by the end of Cycle 3 and will fail to meet its environmental objective.

- A waterbody can be considered as *Review* for the following three reasons:

- The waterbody does not have status assigned to it yet, it is referred to as an unassigned waterbody, and therefore there is not enough evidence to determine if it is *At Risk* or *Not At Risk*.
- The waterbody has shown some slight evidence or improvement, but more evidence is needed before it can be considered as *Not At Risk.*
- Measures are planned or have already been implemented for the waterbody and no further measures should be applied until there is enough time to assess if these measures are working.

- A waterbody is *Not At Risk* when it is achieving its environmental objective of either High or Good Status and that there is no evidence indicating that there is a trend towards status decline.

- In total there are 196 waterbodies in the Blackwater (Munster) Catchment and 53 (27%) of these are currently *At Risk*, 33 (17%) in *Review* and 110 (56%) are *Not At Risk*.

3.2 Surface Waters

- For the 158 river waterbodies, 43 (27%) are *At Risk*, 25 (16%) are in *Review* and 90 (57%) are *Not At Risk*.

- For the three transitional waterbodies, one (Lower Blackwater M Estuary / Youghal Harbour) is *At Risk* and two (Lackaroe (Glendine Estuary) & Upper Blackwater M Estuary) are in *Review.*

- The only coastal waterbody in the catchment (Youghal Bay) is *At Risk*.

- The largest proportion of *At Risk* waterbodies are found in rivers, accounting for 43 (81%) of 53 *At Risk* waterbodies. Figure 7 gives an overview of the breakdown of risk across waterbody types for both Cycle 2 and Cycle 3.

- Overall, there is a decrease in eight *At Risk* waterbodies, an increase in one *Review* waterbody and an increase of seven *Not At Risk* waterbodies between Cycle 2 and Cycle 3.

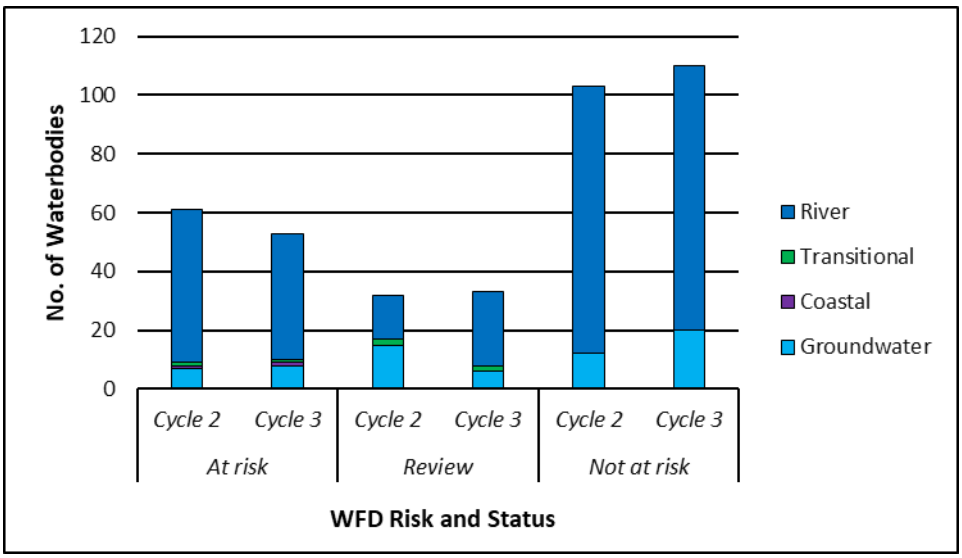


Figure 7: Number of waterbodies in each risk category

- The location of the *At Risk, Review and Not At Risk* surface waterbodies for Cycle 3 are shown in Figure 8 while the surface waterbodies that have experienced a change in risk between Cycle 2 and Cycle 3 are shown in Figure 9.

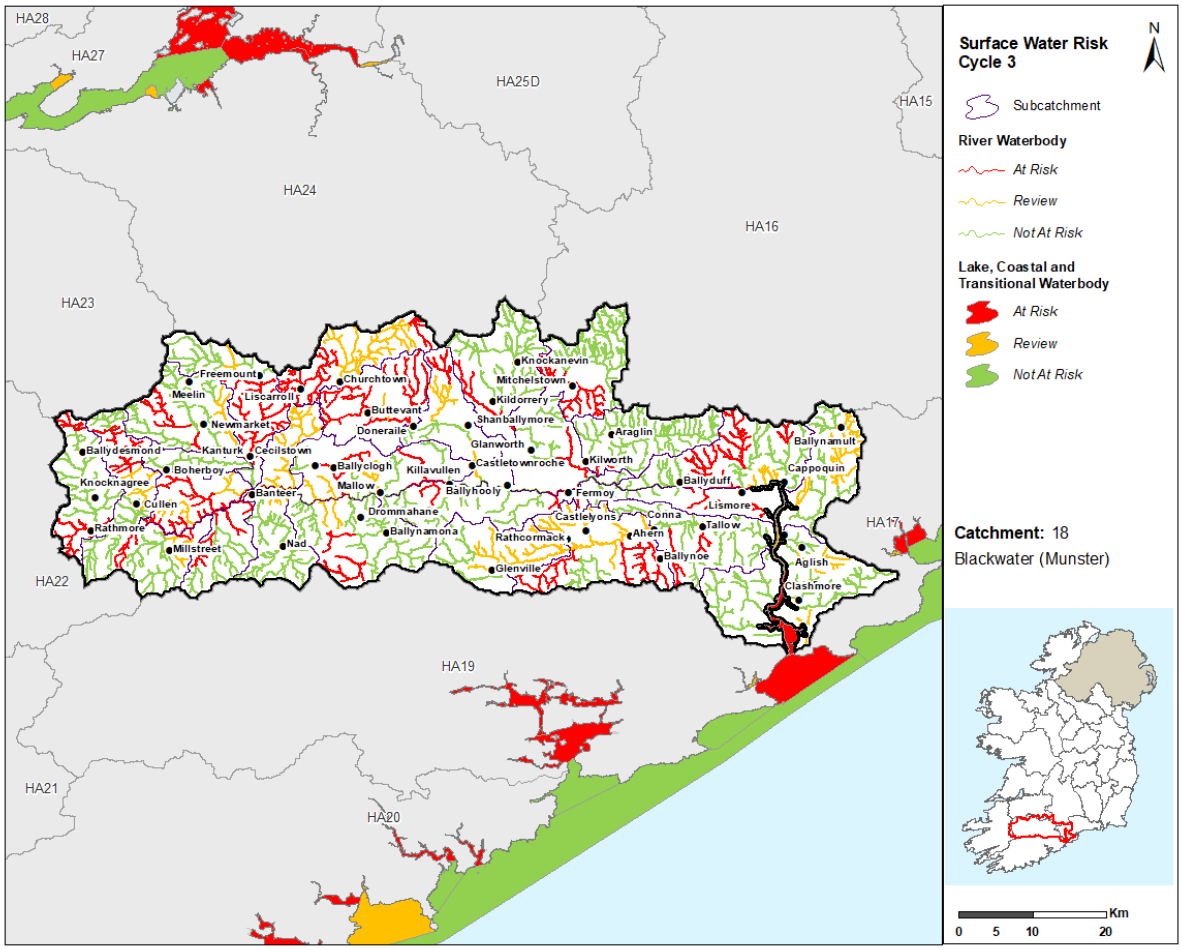


Figure 8: Surface Water Risk Cycle 3

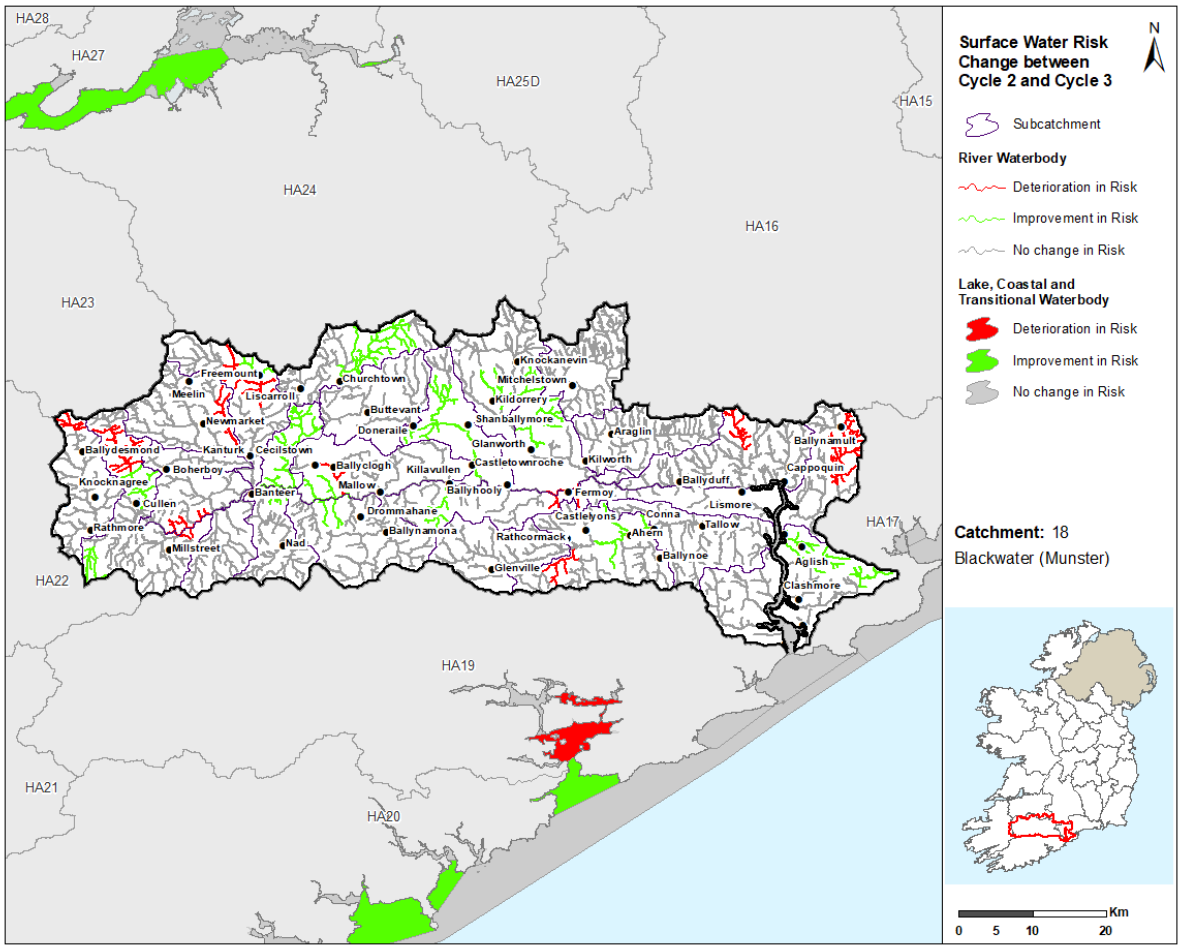


Figure 9: Surface Water Risk Change between Cycle 2 and Cycle 3

3.3 Groundwater

- For the 34 groundwater bodies, eight (24%) are *At Risk*, six (18%) are in *Review* and 20 (59%) are *Not At Risk.*

- In Cycle 2, there were seven groundwater bodies *At Risk* in this catchment, 15 in *Review* and 12 *Not At Risk*.

- The location of the *At Risk, Review and Not At Risk* groundwater bodies for Cycle 3 are shown in Figure 10 while the groundwater bodies that have experienced a change in risk between Cycle 2 and 3 are shown in Figure 11.

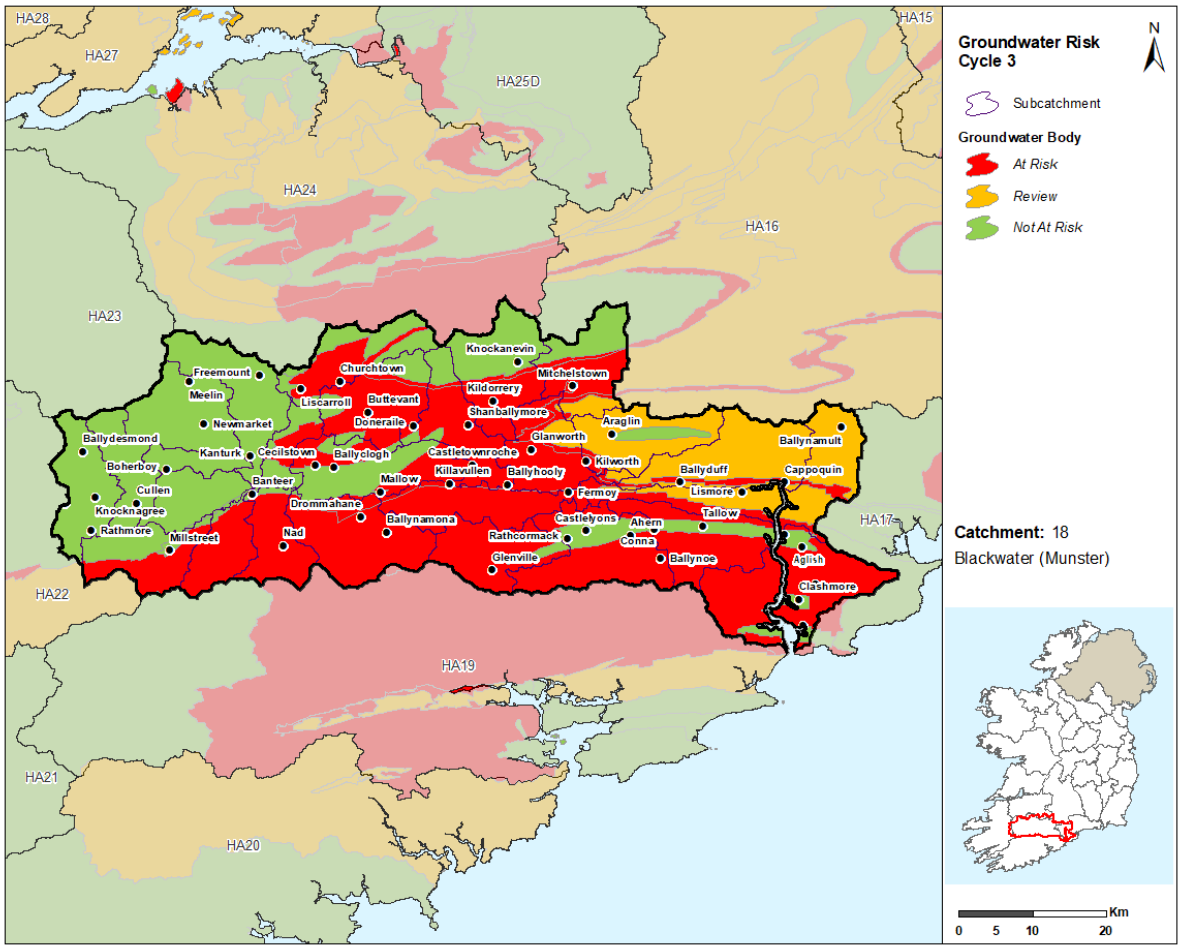


Figure 10: Cycle 3 Groundwater Body Risk

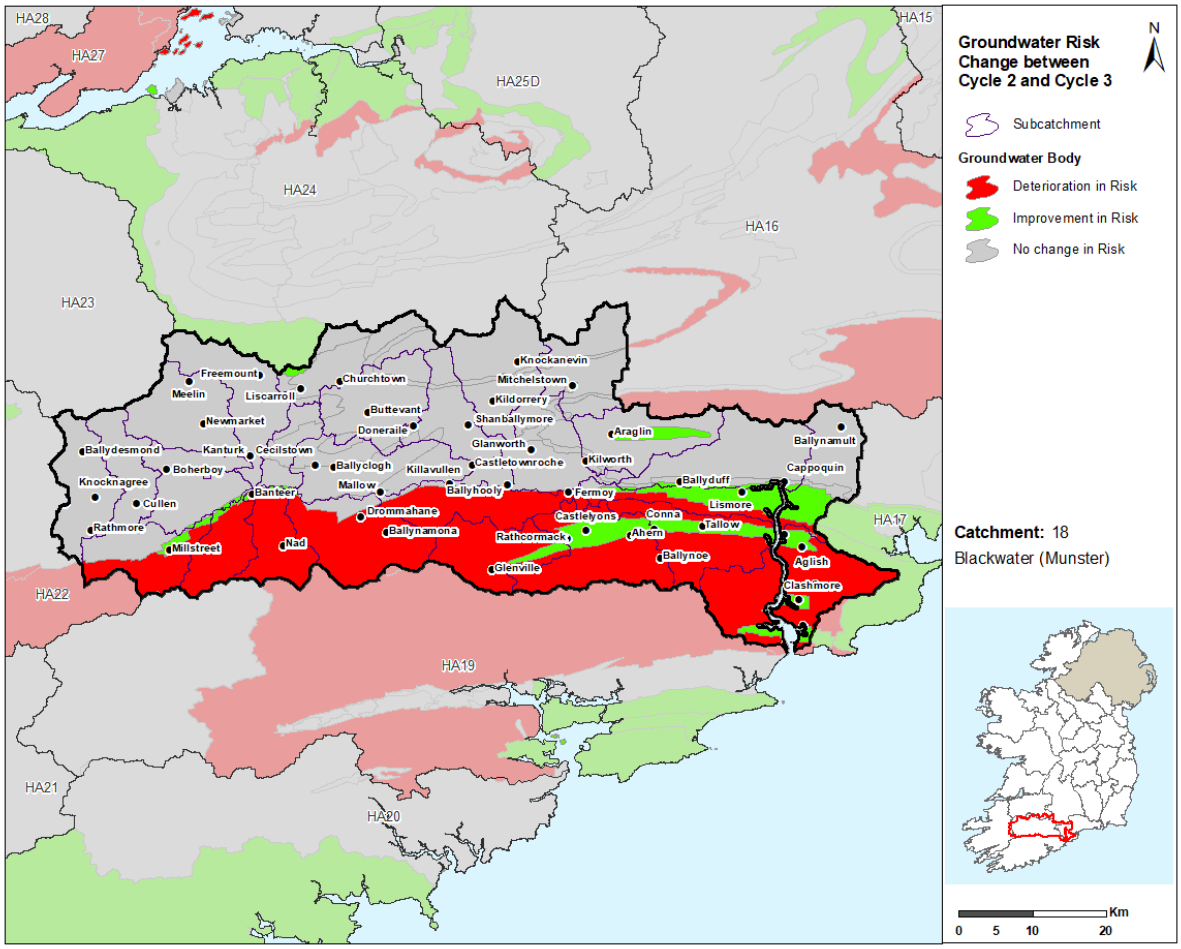


Figure 11: Groundwater Body Risk Change between Cycle 2 & Cycle 3

3.4 Heavily Modified Waterbodies

- There are no designated heavily modified water bodies (HMWB) in the Blackwater (Munster) catchment. There may be changes to HMWB designation once the Cycle 3 HMWB assessment has been completed and consulted on for the 3rd Cycle Final RBMP.

3.5 Artificial Waterbodies

- There are no artificial waterbodies (AWBs) present in the Blackwater (Munster) Catchment.

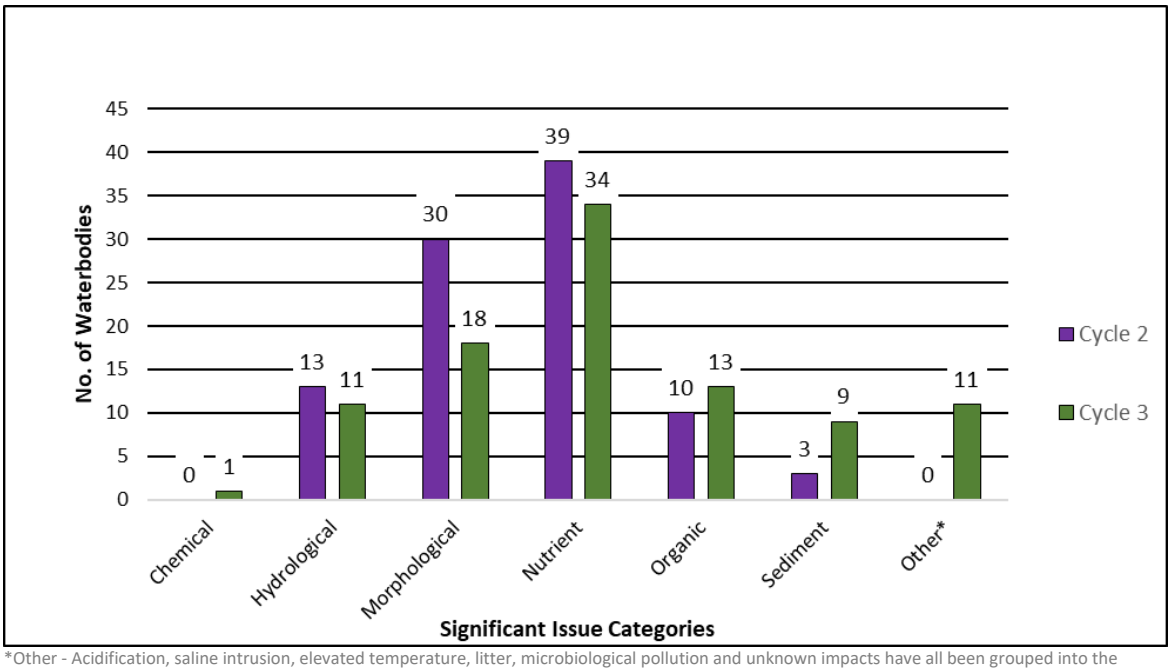
4 Significant Issues in *At Risk* Waterbodies

4.1 All Waterbodies

- Despite a reduction in the number of waterbodies impacted, excess nutrients remain the most prevalent issue in the Blackwater (Munster) Catchment (Figure 12) impacting 34 waterbodies in Cycle 3. Morphological issues are impacting 18 waterbodies, organic pollution is impacting 13, hydrological impacts are affecting 11, sediment issues are impacting nine and chemical pollution is impacting one groundwater body (Glenville). There are also 11 *At Risk* waterbodies where the impact type falls under the other category.

- For rivers, the main significant issues are nutrient pollution (25), morphological issues (18), hydrological issues (11), organic pollution (11), sediment (9) and unknown impacts (4).
- The only *At Risk* transitional waterbody (Lower Blackwater M Estuary / Youghal Harbour) is impacted by nutrient and organic pollution.
- The only *At Risk* coastal waterbody (Youghal Bay) is impacted by nutrient and organic pollution.
- Nutrient pollution is the issue in seven of the eight *At Risk* groundwater and the impact in the remaining waterbody bodies Glenville is chemical pollution. There are additional impacts types attributed to seven of these groundwater body mainly unknown impact type or diminution of quality of associated surface waters for chemical reasons.

♦ Between Cycle 2 and Cycle 3 the biggest change is the increase in the number of waterbodies impacted by sediment, which increased by six, from three to nine. There was also a significant decrease in the number of waterbodies deemed to be impacted by hydromorphological pressures in the same period.



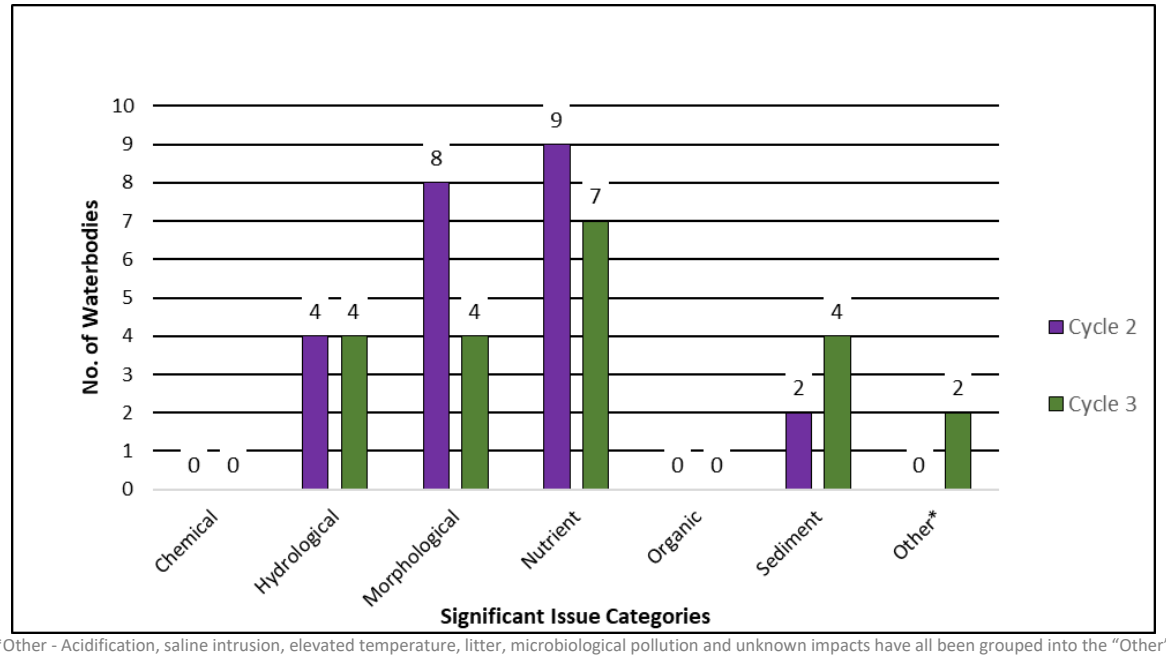
*Other - Acidification, saline intrusion, elevated temperature, litter, microbiological pollution and unknown impacts have all been grouped into the "Other" issues category for the purpose of this report

Figure 12: Significant Issues across all *At Risk* WBs between Cycle 2 and Cycle 3

4.2 High Status Objective Waterbodies

♦ In Cycle 3 for High Status Objective waterbodies nutrient issues are impacting seven of the 13 High Status Objective waterbodies (all rivers) currently *At Risk* (Figure 13). Sediment, hydrological and morphological issues are each impacting four waterbodies. The impact types in Araglin (Blackwater)_040 and Owennashad_010 are unknown.

♦ Between Cycle 2 and Cycle 3 the number of waterbodies with nutrient issues have decreased by two from nine to seven, Morphological issues decreased from eight to four waterbodies, Sediment issues increased by two, from two to four. The number of waterbodies impacted by hydrological issues remained at four since Cycle 2.



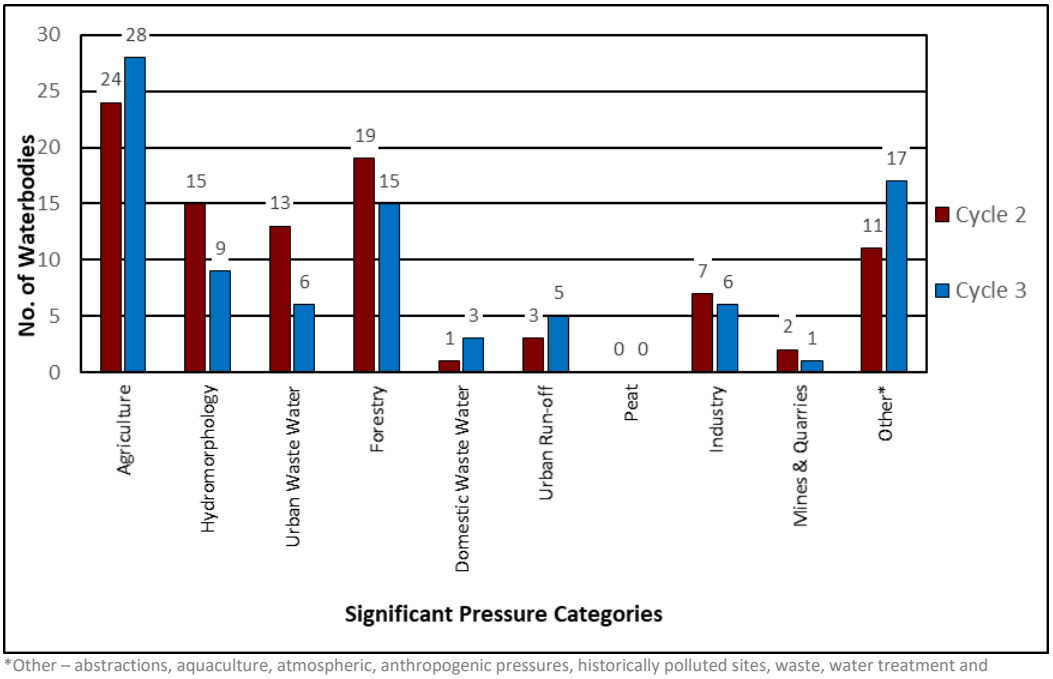
*Other - Acidification, saline intrusion, elevated temperature, litter, microbiological pollution and unknown impacts have all been grouped into the "Other" issues category for the purpose of this report

Figure 13: Significant Issues in *At Risk* High Status Objective Waterbodies

5 Significant pressures in *At Risk* Waterbodies

5.1 All Waterbodies

- Where waterbodies have been classed as *At Risk*, significant pressures have been identified.
- Figure 14 shows a breakdown of the number of *At Risk* waterbodies in each significant pressure category.
- The significant pressure affecting the greatest number of waterbodies is agriculture, followed by forestry, hydromorphology, urban waste water, urban run-off, industry, abstractions (other), domestic waste water and mines & quarries, historically polluted sites (other) and windfarms (other). There are also 14 waterbodies impacted by unknown pressure types.
- When comparing Cycle 2 and Cycle 3 the biggest change is a decrease of seven waterbodies where urban wastewater was a significant pressure in Cycle 2 from 13 to six waterbodies in Cycle 3.



*Other – abstractions, aquaculture, atmospheric, anthropogenic pressures, historically polluted sites, waste, water treatment and invasive species have all been grouped into the "Other" pressure category for the purpose of this report

Figure 14: Significant Pressure (All *At Risk* Waterbodies)

5.1.1 Pressure Type

5.1.1.1 Agriculture

- Agriculture is a significant pressure in 19 river waterbodies, one transitional waterbody (Lower Blackwater M Estuary / Youghal Harbour), one coastal waterbody (Youghal Bay) and seven groundwater bodies in Cycle 3. 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 remains an issue since Cycle 2. High nitrates concentrations have been identified many in waterbodies across the catchment in Cycle 3, which has contributed to an increase in the number of waterbodies impacted by nutrient pollution from agricultural sources. Sediment can also be a problem from land drainage works, bank erosion from animal access or stream crossings.

5.1.1.2 Other significant pressures

- *Abstraction*

  Abstractions for Allow Regional public water supply was identified as significant pressure in two river waterbodies (Allow_050 & Allow_060) with altered habitat due to hydrological changes identified as the primary issue.

  Historically Polluted Sites

  There has been a history of elevated Ammonia concentrations from a historical landfill (S22-02773) in the upper reaches of the subcatchment and Funshion River and is likely to be a significant source of Ammonia in Gradoge_010.

  Windfarm

  The construction of a large windfarm in proximity to Blackwater (Munster)_010 river waterbody was identified as a source of sediment contributing to the decline in status of the waterbody since Cycle 2.

- *Unknown anthropogenic*

The significant pressures impacting 10 river waterbodies three groundwater bodies (Ballinhassig East,
Cappoquin Kiltorcan & Mitchelstown) are unknown.

5.1.1.3 Forestry

- Forestry remains a significant pressure in 15 waterbodies (13 rivers and two groundwater bodies) in Cycle 3. The issues are a range of forestry activities taking place that include clearfelling and drainage, which have resulted in heavy siltation and excess nutrients in surface water bodies. Losses of sediment from access roads and during road construction; losses of nutrients during aerial fertilisation and impacts from public access were also identified in Cycle 2.

5.1.1.4 Hydromorphology

- Hydromorphology is a significant pressure in nine river waterbodies. Channelisation is the dominant hydromorphology subcategory in the catchment with three river waterbodies (Awbeg (Buttevant)_030, Awbeg (Buttevant) (West)_020 & Clyda_010) within the catchment subject to extensive modification mainly due to drainage schemes. Land drainage, river bank erosion, dams/barriers/ weirs and embankments are each impacting two river waterbodies. Land drainage was identified as the pressure subcategory in Allow_060 and Glenlara_010 river waterbodies impacting habitats due to hydrological and morphological changes in the rivers. River bank erosion in Awbeg (Buttevant)_030 and Blackwater (Munster)_060 are causing hydrological and morphological impacts. The completed flood scheme in Blackwater (Munster)_190 and the weir in Ballylough Stream_010 are potentially impacting the morphology within the rivers which in turn are having a negative impact on habitats. Embankments have been identified as the hydromorphological sub category impacting habitats in Blackwater (Munster)_090 and Owennashad_020 river waterbodies.

5.1.1.5 Urban waste water

- Urban waste water agglomerations have been identified as a significant pressure in six *At Risk* river waterbodies (Table 4).

- The Mitchelstown agglomeration, which impacts Funshion_030 and Gradoge_010 due to be upgraded in 2024.

Table 4: Waste Water Treatment Agglomerations identified as significant pressures in *At Risk* waterbodies in Cycle 3

Facility name	Facility Type	Waterbody	2013-18 Ecological Status	Irish Water's Expected CIP Completion Date[6]
Kanturk D0203	Agglomeration PE of 2,001 to 10,000	ALLOW_060	Poor	N/A
Buttevant D0303	Combined Sewer Overflows	AWBEG (Buttevant)_020	Moderate	N/A
Ballynoe A0343	Agglomeration PE < 500	DOUGLAS (BRIDE)_010	Poor	N/A
Watergrasshill D0201	Agglomeration PE of 2,001 to 10,000	FLESK (BRIDE)_010	Poor	N/A
Mitchelstown D0202	Agglomeration PE of 2,001 to 10,000	FUNSHION_030	Poor	2024

[6] Based on Irish Water's Capital Investment Programme (2020-2024) as of February 2021 and may be subject to change.

Mitchelstown D0202	Combined Sewer Overflows	GRADOGE_010	Poor	2024

- Urban waste water significant pressures impacted seven less waterbodies than in Cycle 2 (a decrease from 13 to six waterbodies impacted). The following Agglomerations were listed as pressures in Cycle 2 but are not on the list of significant pressures in Cycle 3.
    - Shanballymore (A0331)
    - Castletownroche (D0293)
    - Killavullen (D0447)
    - Ballyclough (D0441)
    - Bridebridge (A0333)
    - Cullen (A0342)
    - Banteer (D0448)

5.1.1.6 Industry

- Industry is considered a significant pressure in five river waterbodies and one groundwater body, Industrial Facility (P0404-01) in Cycle 3. These point source discharges, causing mainly nutrient and organic issues, arise from industrial discharges (Table 5).

Table 5: Breakdown of Cycle 3 Industry Significant Pressures in the Blackwater (Munster) Catchment

Waterbody Code	Waterbody Name	Waterbody Type	Emission Type	Name	Impact
IE_SW_18A020490	ALLOW_060	River	IE	North Cork Co-Op Creameries Limited	Nutrient
IE_SW_18F040500	FLESK (BRIDE)_010	River	IE	Kepak Cork	Nutrient
IE_SW_18F050310	FUNSHION_030	River	IE	Dairygold Co-operative Society Limited (Castlefarm)	Nutrient & Organic
IE_SW_18F051100	FUNSHION_080	River	IE	Mr Eoin O'Brien	Nutrient
IE_SW_18F051100	FUNSHION_080	River	Section 4	N/A*	Nutrient
IE_SW_18G130200	GRADOGE_010	River	IE	Dairygold Co-operative Society Limited (Castlefarm	Nutrient & Organic
IE_SW_G_064	Industrial Facility (P0404-01)	Groundwater	IPC	Dairygold Co-operative Society Limited (Castlefarm)	Nutrient & Diminution of quality of associated surface waters for chemical reasons

*Name of facility not provided during characterisation

5.1.1.7 Urban run-off

- Diffuse urban pressures, caused by misconnections, leaking sewers and runoff from paved and unpaved areas, have been identified as a significant pressure in five river waterbodies are impacted by Mitchelstown, Buttevant, Doneraile, Fermoy and Tallow urban areas. Nutrient and organic pollutions are the significant issues.

5.1.1.8 Domestic waste water

- Domestic waste water has been identified as a significant pressure in two river waterbodies (Owenbaun (Rathcool)_020 & Blackwater (Munster)_160) and Ballinhassig East groundwater body. This is due to a concentration of domestic waste water treatment systems in close proximity to the waterbodies located on areas of high susceptibility to phosphate transport via near surface pathways and areas of high susceptibility to nitrate transport via sub-surface pathways. The significant issue is excess nutrients and ammonia entering surface waters.

5.1.1.9 Mines & Quarries

- A quarry has been identified as a pressure in Blackwater (Munster)_220 due to excess sediment impacting on habitat morphology.

Figure 15 – Figure 17 illustrates the locations of waterbodies for the three most common pressures in order of prevalence (agriculture, forestry & hydromorphology) within the catchment in Cycle 3.

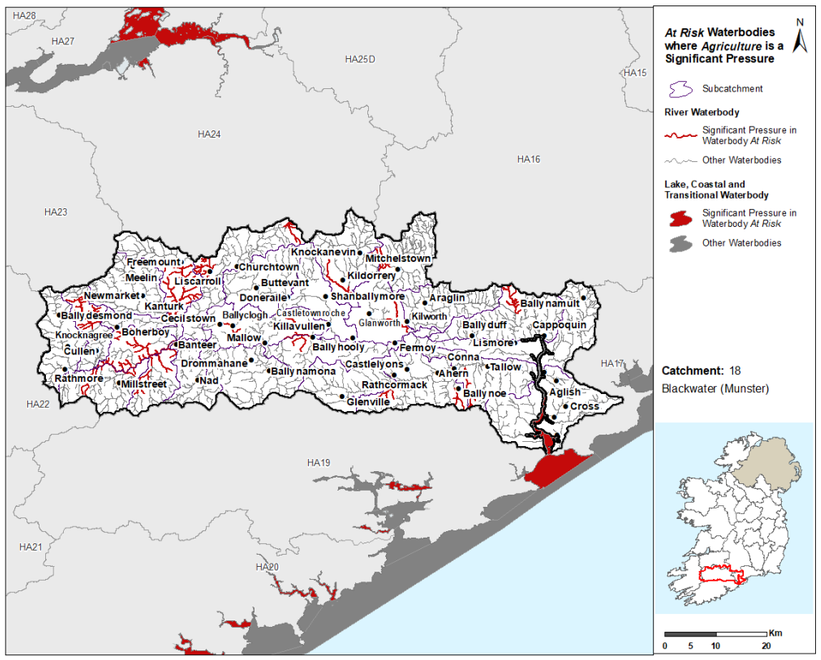


Figure 15: Locations of Waterbodies where Agriculture is a Significant Pressure

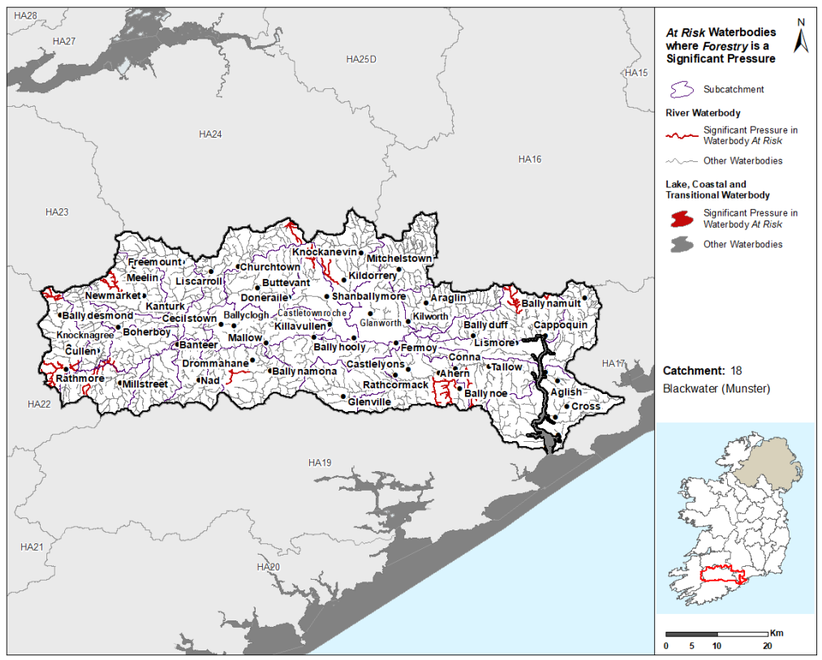


Figure 16: Locations of Waterbodies where Forestry is a Significant Pressure

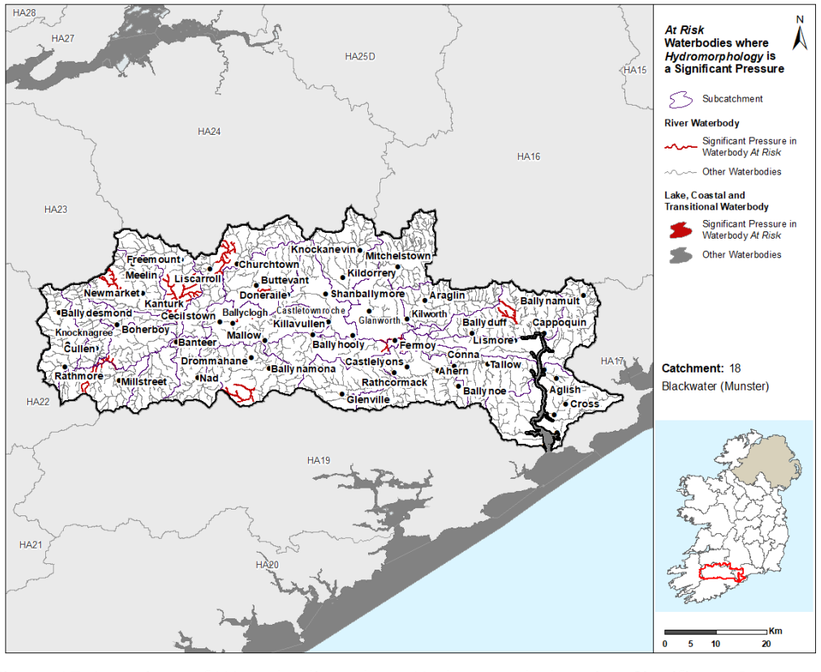
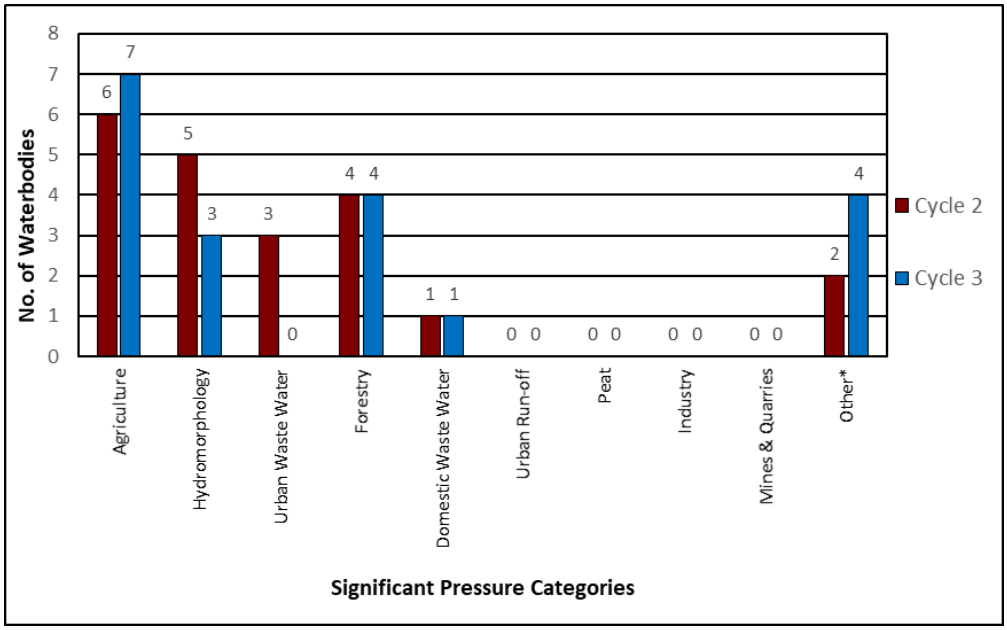


Figure 17: Locations of Waterbodies where Hydromorphology is a Significant Pressure

5.2 High Status Objective Waterbodies

- Agriculture is also the dominant significant pressure in High Status Objective waterbodies, with agricultural pressures identified in seven out of the 13 *At Risk* High Status Objective waterbodies.



*Other – abstractions, aquaculture, atmospheric, anthropogenic pressures, historically polluted sites, waste, water treatment and invasive species have all been grouped into the "Other" pressure category for the purpose of this report

Figure 18: Significant Pressure in *At Risk* High Status Objective Waterbodies

6 Source Load Apportionment Modelling (SLAM)

- The EPA has developed Source Load Apportionment Models (SLAM) for both P and N which estimate the proportion of the phosphorus and nitrogen inputs, respectively, to waters in each catchment that comes from each sector.

- The main data inputs for the model for agriculture are the 2018 land parcel (LPIS) and animal (AIMs) data from the Department of Agriculture Food and the Marine. The Urban Waste Water (UWW) data comes from Irish Water's discharge monitoring data. The model also calculates the inputs from a range of other sectors, including for example, forestry, septic tanks, peat, urban runoff and atmospheric deposition.

- In the catchment pasture and arable land is responsible for 86% and 9% of the nitrogen load respectively while land in pasture, forestry and discharges from urban waste water contribute 37%, 25% and 16% of the phosphorus loadings for the catchment respectively (Figure 17).

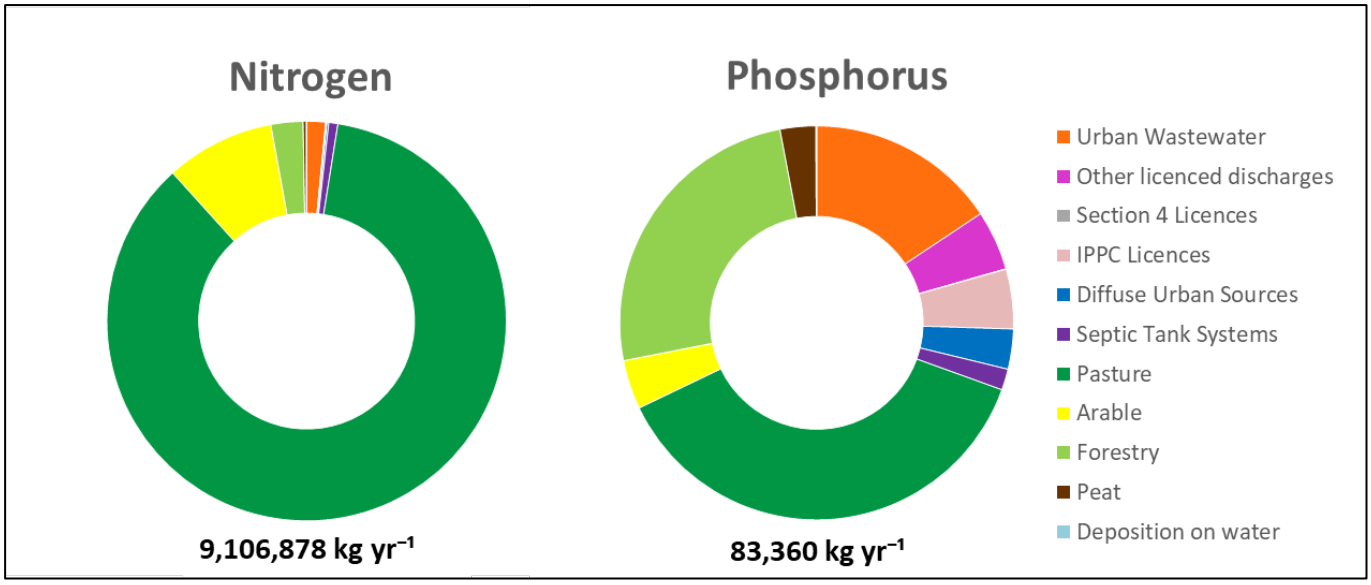


Figure 19: Estimated Proportions of N & P from Each Sector in the Blackwater (Munster) Catchment

7 Load Reduction Assessment

7.1 Nitrogen Load Reduction

- An assessment was undertaken to determine if nitrogen reductions in rivers, streams and lakes are required for Transitional and Coastal (TRACs) waterbodies to achieve their WFD environmental objective. The outcome of the assessment indicated that 10 of the 46 catchments require N reductions in our inland waters to restore some TRAC waterbodies. The assessment report can be found at https://www.catchments.ie/assessment-of-the-catchments-that-need-reductions-in-nitrogen-concentrations-to-achieve-water-quality-objectives.

- The N reduction required in the Blackwater Munster Catchment is considered to be high and ranges from 500-2000 t N/yr.

- Source load apportionment modelling indicates that the main sources of N in the catchment are 86% pasture, 9% arable, 2% Urban waste water and 4% from miscellaneous sources.

7.2 Phosphorous / Sediment Load Reduction

- Further modelling work is required to determine if and what P load reductions are required.

Figure 20 highlights areas where agricultural measures for nitrogen, sediment and phosphorus should be targeted. Waterbodies with orange fill are areas where nitrogen measures should be targeted, waterbodies with blue fill are areas where sediment or phosphorus should be targeted and waterbodies with orange and blue hatching highlight areas where multiple measures (phosphorus /sediment and nitrogen) are required. Pollution Impact Potential mapping for both phosphorus and nitrogen in the catchment are provided in Appendix 2.

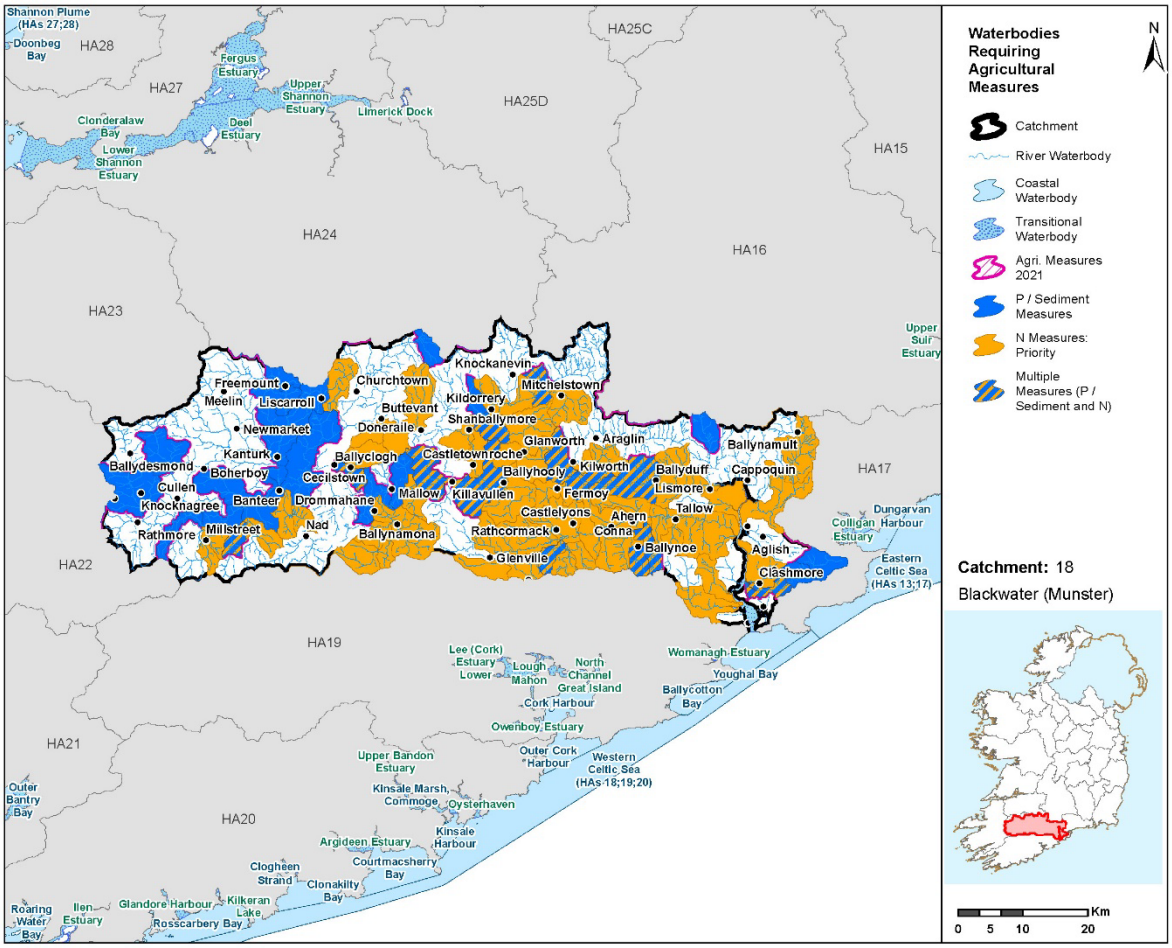


Figure 20: Waterbodies where Agricultural Measures should be Targeted

8 2nd Cycle Areas for Action

8.1 Area for Action Overview

- There were eight Areas for Action, comprising of 13 waterbodies, selected for further characterisation and action in the catchment for the 2nd Cycle River Basin Management Plan. The Areas for Action in the catchment are listed in Table 6 and shown in Figure 21. LAWPRO, in conjunction with local authorities and stakeholders from the South-eastern and South-western Regional Operational Committees, have been working in these areas since 2018.

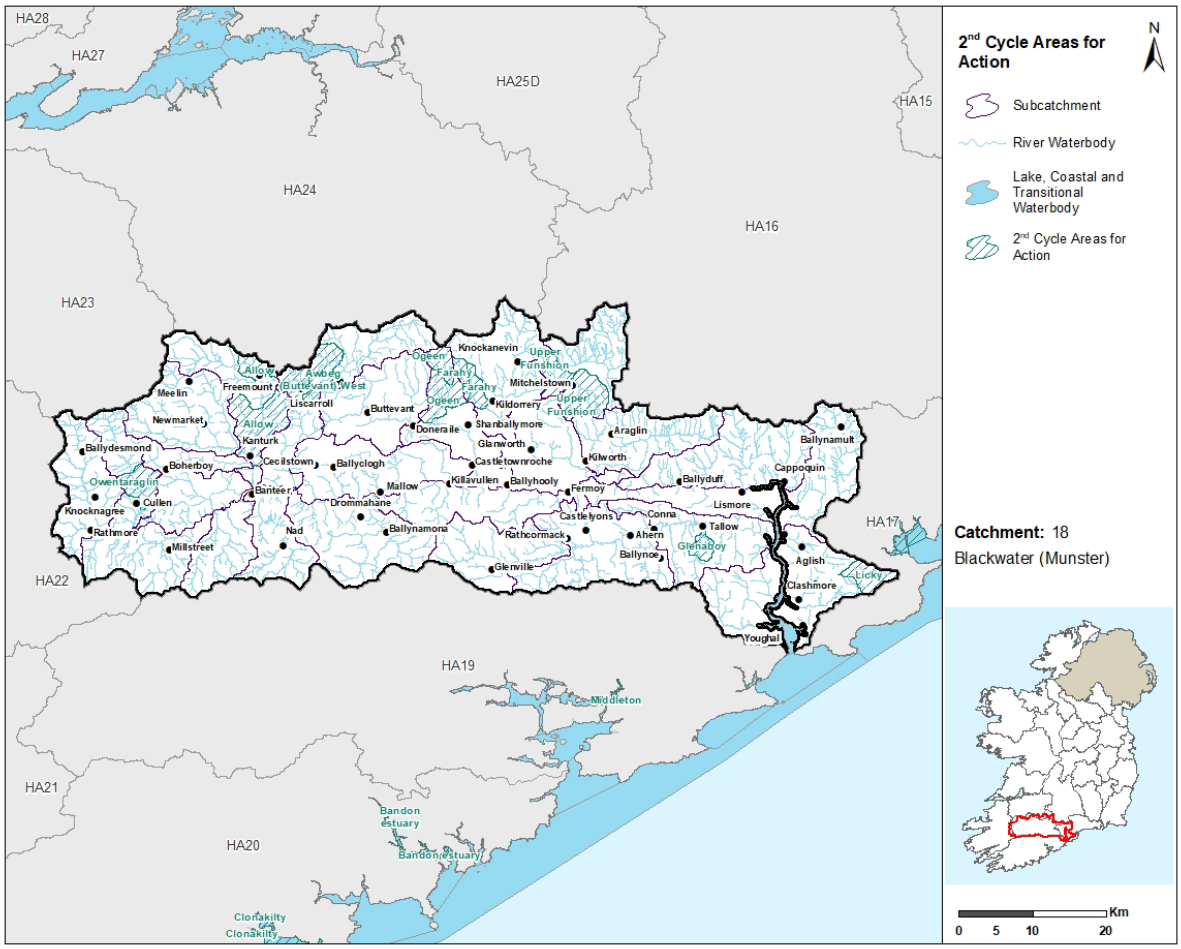


Figure 21: 2nd Cycle Areas for Action Locations

Table 6: 2nd Cycle Areas for Action

2nd Cycle Area for Action	Number of Waterbodies	Sub-catchment	Local Authority	Reason for Selection
Owentaraglin	1	18_6	Cork	• Five deteriorated Water bodies. • Three water bodies on the main channel only dropped to less than Good status in the last monitoring cycle. • Starts at the Headwaters. • Supports salmonid and SAC protected areas • Build on planned improvements in Ballybofey/Stranorlar WWTP upgrade. • Cross Border Partnership with Loughs Agency on-going. • Supports improvement of the Foyle-Faughan estuary
Allow	2	18_26	Cork	• Failing to meet protected area objectives for Freshwater Pearl Mussel (19 of 27 catchments of S.I. 296 2009). • Build on proposed improvements at Kanturk WWTP • Life project on this water body – potential to build on previous work with Teagasc, NPWS, IFI. • Building on previous community and farmer engagement.

2nd Cycle Area for Action	Number of Waterbodies	Sub-catchment	Local Authority	Reason for Selection
				• One deteriorated water body. • One potential 'quick win'.
Ogeen	2	18_10	Cork	• Failing to meet protected area objectives for Freshwater Pearl Mussel (19 of 27 catchments of S.I. 296 2009). • Opportunity for Forest Service and Coillte to work together. • Two deteriorated High Ecological Status objective water bodies. • Tributaries to main channel of the Awbeg, which is *At Risk*.
Farahy	2	18_22	Cork	• Community groups in the area. • Two deteriorated water bodies. • Tributaries to Funshion_050, a deteriorated HES objective water body.
Upper Funshion	2	18_17	Cork	• Building on proposed improvements at Mitchelstown WWTP • Two water bodies are failing to meet protected area objectives for Freshwater Pearl Mussel (19 of 27 catchments of S.I. 296 2009). • Two deteriorated water bodies.
Awbeg (Buttevant) West	2	18_13	Cork	• Test case for drainage issues. • Upper reaches of subcatchment, headwaters to *At Risk* water bodies. • Failing to meet protected area objectives for Crayfish. • The IFI reported this is a good trout river. • Two deteriorated water bodies.
Glenaboy	1	18_19	Waterford	• Test case for diffuse urban issues. • Building on existing work by IFI. • Headwater tributary to the main channel of the Bridge (Blackwater) • One deteriorated water body.
Licky	1	18_27	Waterford	• Failing to meet protected area objectives for Freshwater Pearl Mussel (19 of 27 catchments of S.I. 296 2009). • Building on existing work by Inland Fisheries Ireland. • Heritage: St Declans trail crosses the river Licky. • One deteriorated water body.

8.2 Status Change in 2nd Cycle Areas for Action

- For Cycle 3, of the 13 waterbodies in the 2nd Cycle Areas for Action, there are four waterbodies (Licky_010, Ogeen_010, Ogeen_020 & Owentaraglin_030) at Good Status, three waterbodies (Farahy_010, Farahy_020 & Glenaboy_020) at Moderate Status, five waterbodies at Poor Status (Allow_060, Awbeg (Buttevant) (West)_010, Awbeg (Buttevant) (West)_020, Funshion_030 & Gradoge_010) and one waterbody (Allow_040) where status has not been assigned.

- There is an overall improvement in the status of three of the 2nd cycle Areas for Action waterbodies across the catchment.[7]

- Of the 12 waterbodies within the 2nd Cycle Areas for Action which had status assigned, nine experienced no change in status between Cycle 2 and Cycle 3 and three waterbodies experienced an improvement (Figure 22). The three waterbody improvements were across Licky and Ogeen Areas for Action.

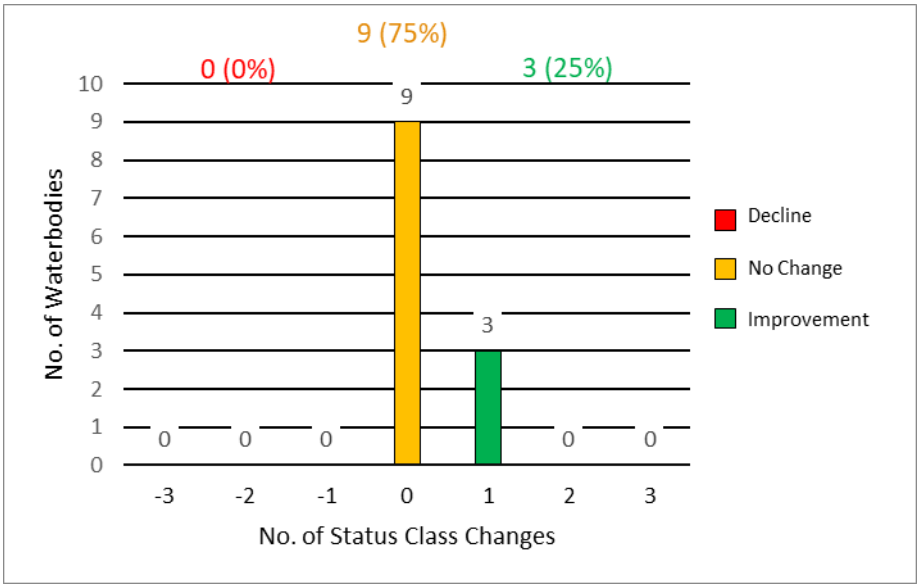


Figure 22: 2nd Cycle Area for Action Waterbody Status Class Changes between Cycle 2 and Cycle 3

8.3 Waterbody Risk in 2nd Cycle Areas for Action

- For the 13 waterbodies in the 2nd Cycle Areas for Action, nine (69%) of these are currently *At Risk,* two (15%) are in *Review* and two (15%) are *Not At Risk*.

- All nine *At Risk* waterbodies are river waterbodies. Figure 23 gives an overview of the breakdown of risk across waterbody types for both Cycle 2 and Cycle 3 in 2nd Cycle Areas for Action.

- Overall there is a decrease from 12 to nine *At Risk* waterbodies in 2nd Cycle Areas for Action between Cycle 2 and Cycle 3. Ogeen_020 and Owentaraglin_030 were *At Risk* in Cycle 2 but are currently in *Review*. Licky_010 was *At Risk* in Cycle 2 but is *Not At Risk* in Cycle 3.

[7] Status class change cannot be calculated for waterbodies where status has not been assigned in either cycle 2 or 3 and therefore these waterbodies are not represented in Figure 18. Percentage displayed in the chart below are in relation to the total number of waterbodies with status assigned in both cycles, as opposed to total number of all waterbodies.

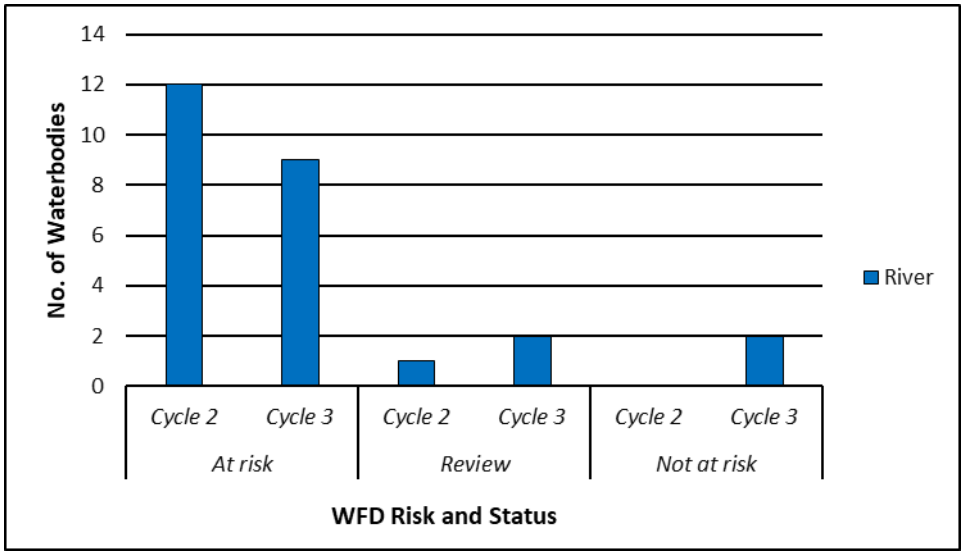
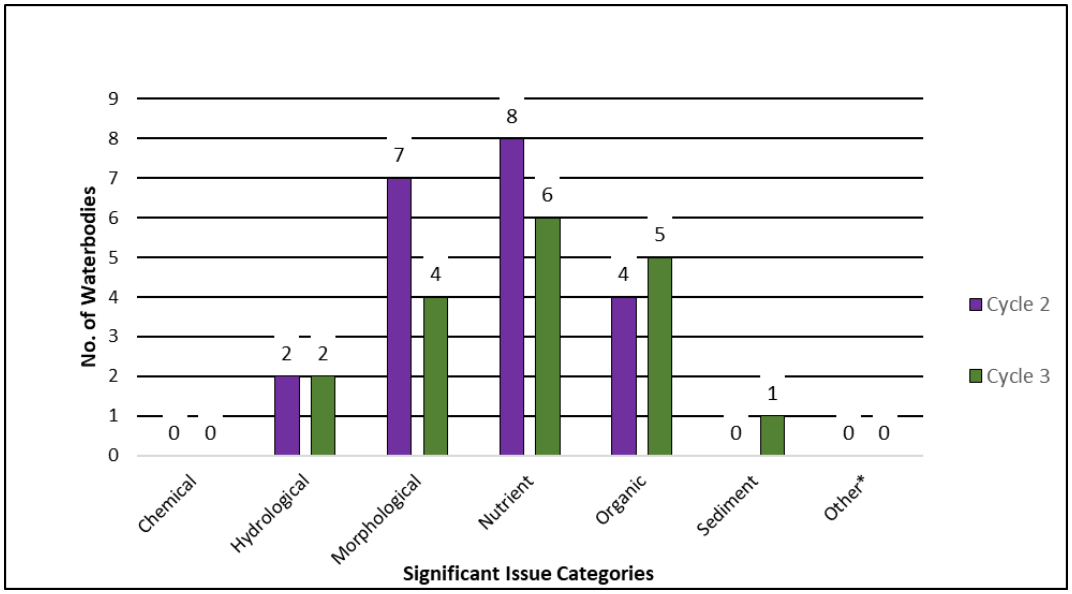


Figure 23: Number of waterbodies in each risk category in 2nd Cycle Areas for Action

8.4 Significant Issues in 2nd Cycle Areas for Action

- Based on the EPA assessment for Cycle 3, the significant issue in the 2nd Cycle Areas for Action is nutrient pollution impacting six waterbodies (Figure 24). This is followed by organic pollution impacting five waterbodies, morphological issues which are impacting four waterbodies, hydrological issues are impacting two waterbodies and sediment is impacting one waterbody.

- The number of 2nd Cycle Areas for Action waterbodies associated with morphological significant issues have reduced from seven to four between Cycle 2 and Cycle 3 and nutrient have reduced from eight to six waterbodies in the same period. The number of waterbodies impacted by organic pollution and sediment issues have each increased by one, from four to five and from zero to one, respectively. The numbers of waterbodies impacted by hydrological issues remain unchanged since Cycle 2.



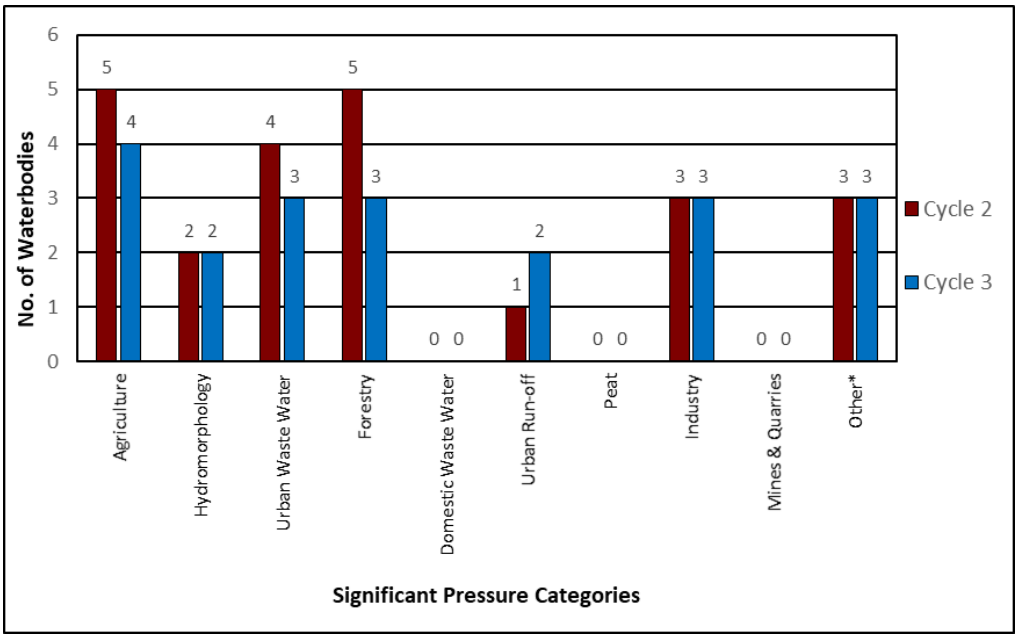
*Other - Acidification, saline intrusion, elevated temperature, litter, microbiological pollution and unknown impacts have all been grouped into the "Other" issues category for the purpose of this report

Figure 24: Significant Issues across all 2nd Cycle Areas for Action Waterbodies

8.5 Significant Pressure in 2nd Cycle Areas for Action

- For Cycle 3, in 2nd Cycle Areas for Action waterbodies in the catchment the dominant significant pressures are:
  - Agriculture - four waterbodies impacted in Cycle 3, a decrease by one since Cycle 2.
  - Forestry – three waterbodies (Farahy_010, Farahy_020 & Ogeen_010) impacted in Cycle 3, a reduction by two since Cycle 2.
  - Hydromorphology – two waterbodies (Allow_060, Awbeg (Buttevant) (West)_020) remain impacted in Cycle 3.
  - Urban Waste Water - three waterbodies (Allow_060, Funshion_030 & Gradoge_010) impacted in Cycle 3, a reduction by one (Owentaraglin_030) since Cycle 2.
  - Industry - three waterbodies (Allow_060, Funshion_030 & Gradoge_010) remain impacted in Cycle 3.
  - Urban Run-off – two waterbodies (Gradoge_010 & Glenaboy_020) impacted in Cycle 3. Urban run-off was deemed a pressure in Gradoge_010 for Cycle 2.
  - Other – three waterbodies are impacted by pressures that fall under the other category as illustrated in Figure 25. Abstraction for water supply is impacting Allow_060 river waterbody. Nutrient and organic pollution form a historically polluted landfill site is impacting Gradoge_010 river waterbody. The significant pressure type in Farahy_010 is unknown.

- When comparing the significant pressures in the 2nd Cycle Areas for Action between Cycle 2 and 3 there has been no change in the number of waterbodies affected by hydromorphological pressures run-off, Industry or other. The number of waterbodies impacted by agricultural, urban wastewater and forestry have all decreased, from five to four, from four to three and from five to three respectively. The number of waterbodies impacted by urban run-off have increased by one, from one to two.



*Other – abstractions, aquaculture, atmospheric, anthropogenic pressures, historically polluted sites, waste, water treatment and invasive species have all been grouped into the "Other" pressure category for the purpose of this report

Figure 25: Significant Pressures in 2nd Cycle Area for Action Waterbodies

9 3rd Cycle Recommended Areas for Action

9.1 Recommended Areas for Action Overview

- For the 3rd Cycle Draft River Basin Management Plan Areas for Action have been extended out to not only include Prioritised Areas for Action undertaken by LAWPRO which focussed on restoring waterbodies, but to also include restoration work undertaken by all agencies under Areas for Restoration. In addition, protection work is included under Areas for Protection and research, pilot schemes and community initiatives are included under Catchment Projects. The aim of the 3rd Cycle Plan is to capture all activity that is working to restore, improve and/or protect waterbodies.

- The Recommended 3rd Cycle Areas for Action list will be included in the Draft River Basin Management Plan and will be finalised after the consultation period.

- There are 20 Areas for Action, comprising of 76 waterbodies, recommended for further characterisation and action in the catchment for the 3rd Cycle River Basin Management Plan. 31 of the 76 waterbodies in the 3rd Cycle Recommended Areas for Action are *At Risk*, 11 are in *Review* and 34 are *Not At Risk.* The 20 Recommended Areas for Action consist of one Area for Protection, 18 Areas for Restoration and one Catchment Project. LAWPRO are the proposed lead organisation in 12 Recommended Areas for Action, Cork County Council are the proposed lead in six Recommended Areas for Action, NFGWS are the proposed lead in the Blackpool Recommended Area for Action and Duhallow Farming for Blue Dot EIP is the proposed lead for the remaining Recommended Area for Action. The Recommended Areas for Action in the catchment are listed in Table 7 and shown in Figure 26. The reason for selecting each waterbody in a Recommended Area for Action is provided in Appendix 3.

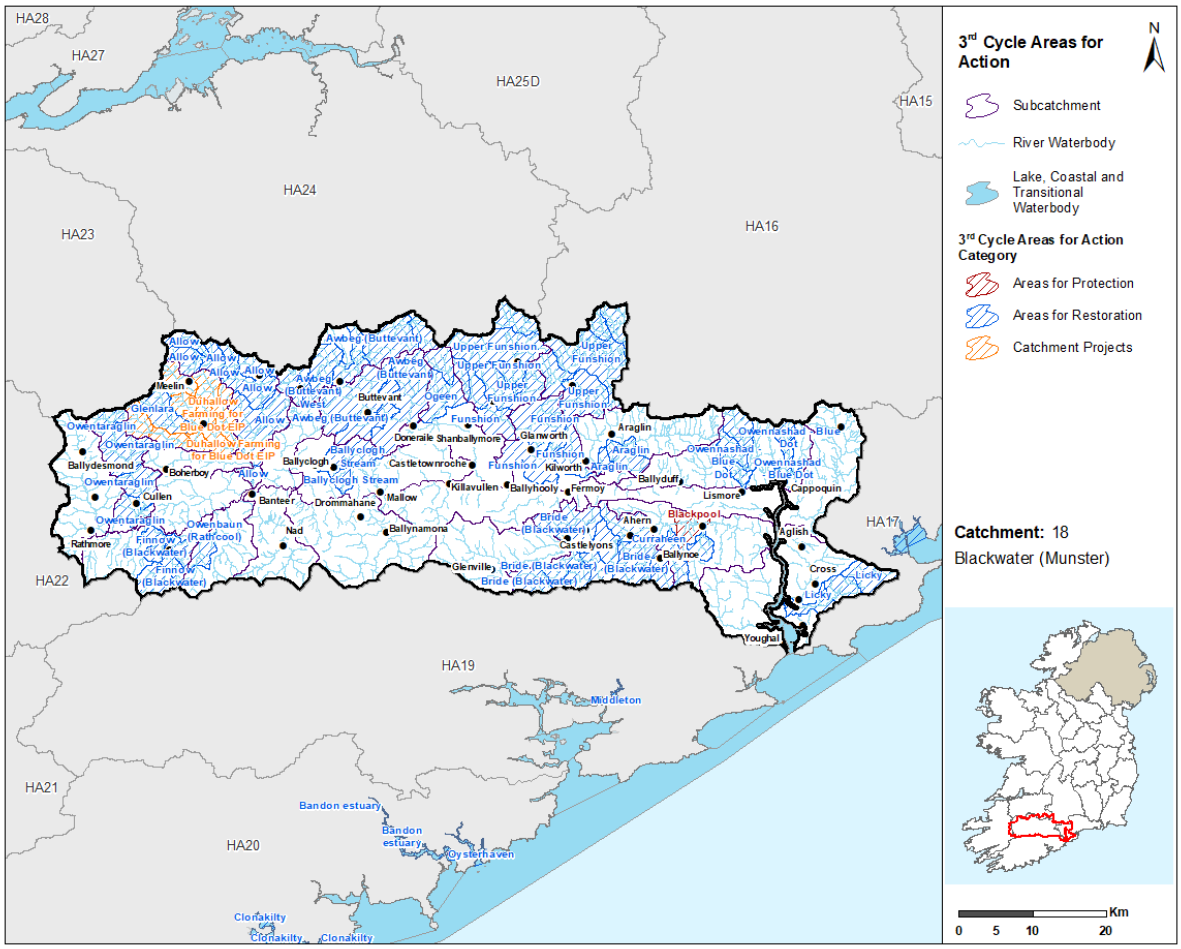


Figure 26: 3rd Cycle Recommended Areas for Action Locations

Table 7: 3rd Cycle Recommended Areas for Action Breakdown

3rd Cycle Recommended Areas for Action	Number of Waterbodies	Recommended Areas for Action Category	Recommended Areas for Action Sub-category	Lead Organisation
Allow	8	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Araglin	2	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Awbeg (Buttevant)	7	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Awbeg (Buttevant) West	2	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Upper Funshion	9	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Bride (Blackwater)	9	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Blackpool	1	Protection	Public Health Areas for Protection NFGWS, IW, HSE, LAs, SFPA	NFGWS
Ballyclogh Stream	2	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Curraheen	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council

3rd Cycle Recommended Areas for Action	Number of Waterbodies	Recommended Areas for Action Category	Recommended Areas for Action Sub-category	Lead Organisation
Duhallow Farming for Blue Dot EIP	8	Catchment Projects	EIP	Duhallow Farming for Blue Dot EIP
Farahy	2	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Finnow (Blackwater)	4	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Funshion	4	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Glenaboy	1	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Glenlara	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Owennashad - Blue Dot	5	Restoration	Blue Dot Areas for Action LAWPRO and Others	LAWPRO
Licky	3	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Ogeen	2	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
OWENBAUN (RATHCOOL)	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Owentaraglin	4	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO

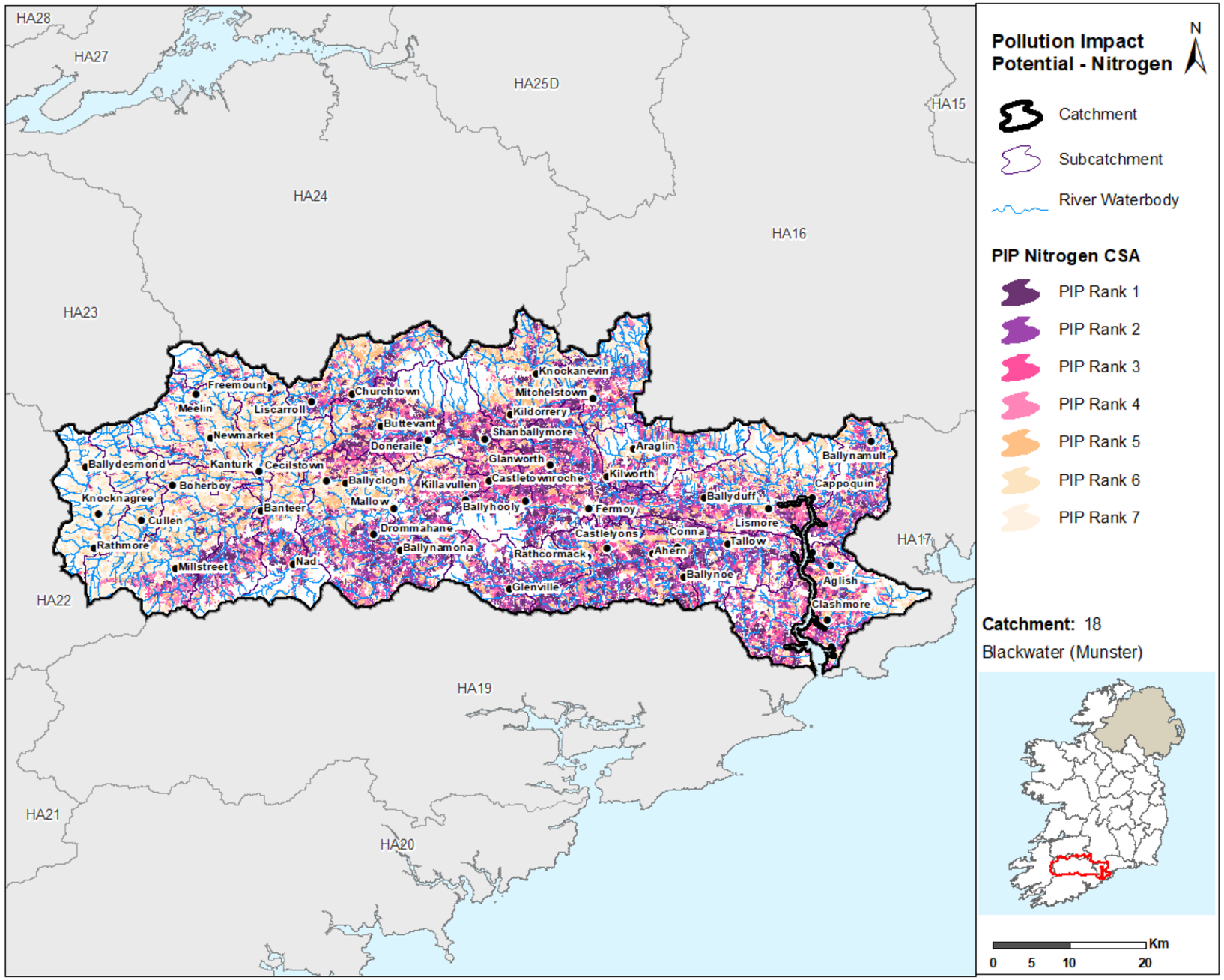
10 Catchment Summary

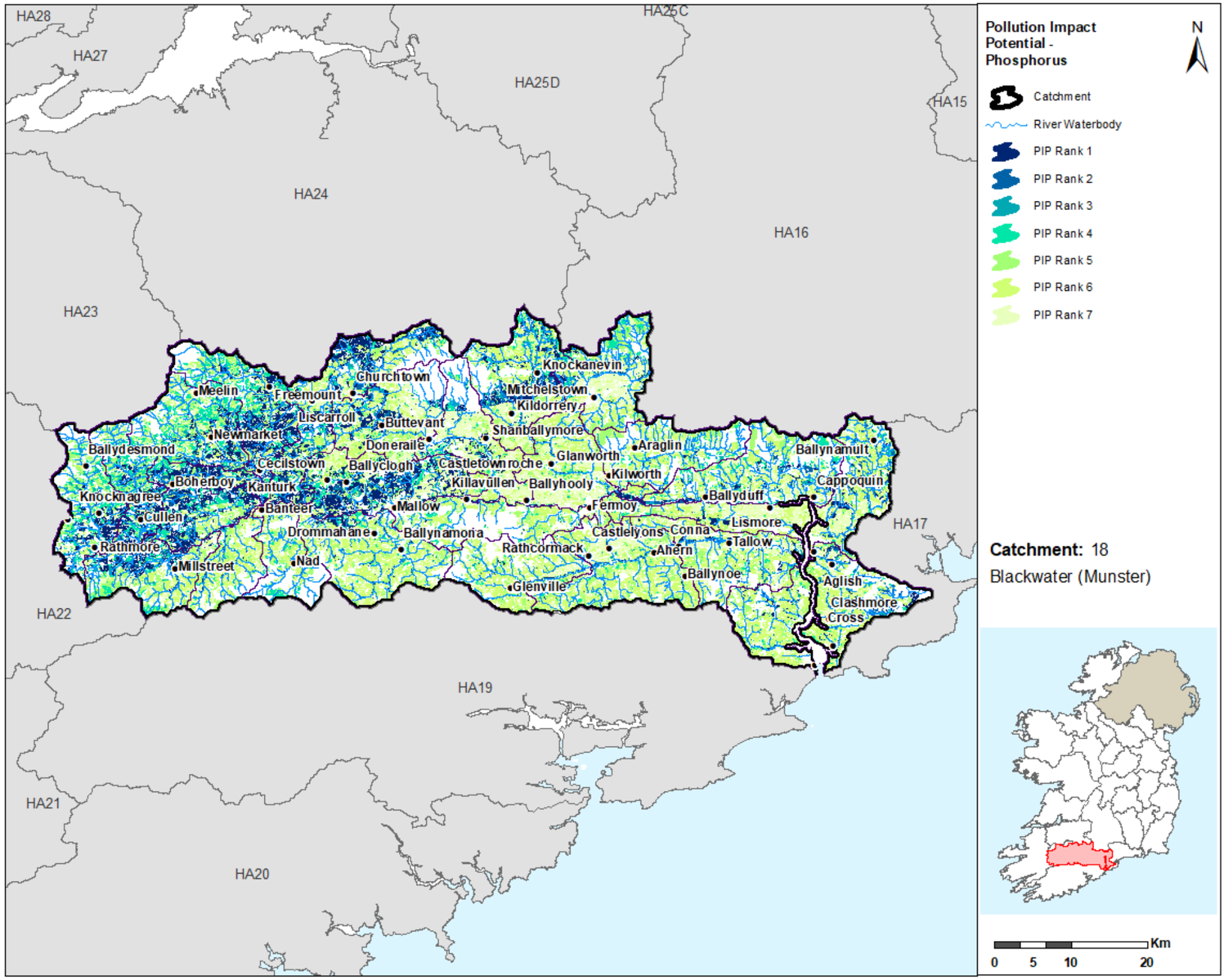
- Of the 158 river waterbodies, 43 are *At Risk* of not meeting their WFD objectives.
- One out of three transitional waterbodies in the catchment are *At Risk* and are impacted by eutrophication. Agriculture is the significant pressure.
- The only coastal waterbody (Youghal Bay) in the catchment is *At Risk* of not meeting its WFD objective.
- Eight out of 34 groundwater bodies are *At Risk*.
- There has been an overall improvement across the catchment with 53 waterbodies *At Risk* in Cycle 3 compared to 61 waterbodies *At Risk* in Cycle 2.
- The main significant issues are impacts from nutrient pollution, followed by morphological issues, organic pollution, hydrological impacts and sediment.
- The main significant pressures are agricultural pressures followed by forestry and hydromorphological pressures.
- There has been an overall improvement in terms of status change. The numbers of waterbodies impacted by nutrient, morphological issues and hydrological impacts have reduced however the number of waterbodies impacted by organic and sediment issues from agricultural pressures have increased.
- 12 waterbodies were *At Risk* in Cycle 2 and nine waterbodies are *At Risk* in Cycle 3. The changes in risk occurred in waterbodies where agriculture, domestic wastewater and urban waste water pressures were considered significant in Cycle 2 but are no longer a significant pressure in Cycle 3.
- There are 20 3rd Cycle Recommended Areas for Action for Cycle 3. They comprise of 76 waterbodies with 31 waterbodies *At Risk*, 11 in *Review* and 34 *Not At Risk*.

Appendix 1
High ecological status objective waterbodies

Waterbody Name	Waterbody Type	Waterbody Code	Status 2013-2018
ALLOW_030	**River**	IE_SW_18A020100	Good
ALLOW_050	**River**	IE_SW_18A020300	Good
ARAGLIN (BLACKWATER)_040	**River**	IE_SW_18A030500	Good
BEHANAGH_010	**River**	IE_SW_18B010300	High
BLACKWATER (MUNSTER)_050	**River**	IE_SW_18B020600	High
BLACKWATER (MUNSTER)_060	**River**	IE_SW_18B020750	Good
BLACKWATER (MUNSTER)_070	**River**	IE_SW_18B020900	Good
BLACKWATER (MUNSTER)_080	**River**	IE_SW_18B021000	Good
BLACKWATER (MUNSTER)_090	**River**	IE_SW_18B021200	Good
BLACKWATER (MUNSTER)_110	**River**	IE_SW_18B021400	Good
CLYDA_010	**River**	IE_SW_18C020070	Good
CLYDA_020	**River**	IE_SW_18C020090	High
DALUA_030	**River**	IE_SW_18D010300	Good
FUNSHION_050	**River**	IE_SW_18F050700	Good
GLEN (BANTEER)_010	**River**	IE_SW_18G040600	High
GLEN (BANTEER)_020	**River**	IE_SW_18G040900	High
GLEN (BANTEER)_030	**River**	IE_SW_18G041100	High
GLENAKEEFE_010	**River**	IE_SW_18G060200	High
GLENAKEEFE_020	**River**	IE_SW_18G060400	High
GLENNAFALLIA_010	**River**	IE_SW_18G100040	Good
GLENSHELANE_010	**River**	IE_SW_18G110300	High
MONAVUGGA_010	**River**	IE_SW_18M010100	High
NAD_010	**River**	IE_SW_18N010400	High
OGEEN_010	**River**	IE_SW_18O010200	Good
OGEEN_020	**River**	IE_SW_18O010400	Good
OWENANARE_020	**River**	IE_SW_18O040600	Good
OWENBAUN (RATHCOOL)_020	**River**	IE_SW_18O050900	Good
OWENNASHAD_010	**River**	IE_SW_18O080060	Good
OWENNASHAD_020	**River**	IE_SW_18O080140	Good
OWENTARAGLIN_030	**River**	IE_SW_18O091100	Good
OWENTARAGLIN_040	**River**	IE_SW_18O091200	High

Appendix 2
Pollution Impact Potential Mapping




HA28
HA27
HA25C
HA25D
HA15
HA24
HA16
HA23
HA17
HA22
HA19
HA21
HA20
Knockanevin
Churchtown
Meelin
Freemount
Mitchelstown
Kildorrery
Liscarroll
Buttevant
Shanballymore
Newmarket
Doneraile
Araglin
Ballynamult
Ballydesmond
Glanworth
Cecilstown
Ballyclogh
Castletownroche
Kilworth
Boherboy
Kanturk
Killavullen
Ballyhooly
Cappoquin
Knocknagree
Ballyduff
Banteer
Mallow
Fermoy
Cullen
Lismore
Drommahane
Ballynamona
Castlelyons
Conna
Tallow
Rathmore
Rathcormack
Ahern
Millstreet
Nad
Ballynoe
Aglish
Glenville
Clashmore
Cross
Pollution Impact Potential - Phosphorus
N
Catchment
River Waterbody
PIP Rank 1
PIP Rank 2
PIP Rank 3
PIP Rank 4
PIP Rank 5
PIP Rank 6
PIP Rank 7
Catchment: 18
Blackwater (Munster)
Km
0
5
10
20

Appendix 3
Summary information on all waterbodies in the Blackwater (Munster) Catchment

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_26	IE_SW_18A020020	ALLOW_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Allow	Inputting waterbody to existing PAA. Expand PAA Farming for Blue Dot EIP
18_26	IE_SW_18A020050	ALLOW_020	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No		Allow	Inputting waterbody to existing PAA. Expand PAA Inputting to HES objective waterbody Farming for Blue Dot EIP NPWS priority habitat/species
18_26	IE_SW_18A020100	ALLOW_030	River	*Not At Risk*	*Review*	High	Good	Yes		Allow	Inputting waterbody to existing PAA. Expand PAA Farming for Blue Dot EIP Deteriorated HES objective waterbody NPWS priority habitat/species
18_26	IE_SW_18A020200	ALLOW_040	River	*Review*	*Not At Risk*	Unassigned	Unassigned	No		Allow	Existing PAA waterbody. Transition strategy
18_26	IE_SW_18A020300	ALLOW_050	River	*Not At Risk*	*At Risk*	High	Good	Yes	Ag, Other	Allow	Inputting waterbody to existing PAA. Expand PAA Farming for Blue Dot EIP Deteriorated HES objective waterbody NPWS priority habitat/species
18_26	IE_SW_18A020490	ALLOW_060	River	*At Risk*	*At Risk*	Poor	Poor	No	Ag, Hymo, Ind, Other, UWW	Allow	Existing PAA waterbody. Transition strategy
18_26	IE_SW_18A020600	ALLOW_070	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Allow	NPWS priority habitat/species
18_16	IE_SW_18A030080	ARAGLIN (BLACKWATER)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_16	IE_SW_18A030200	ARAGLIN (BLACKWATER)_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_16	IE_SW_18A030350	ARAGLIN (BLACKWATER)_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Araglin	Araglin. Has history of Q5 & 4/5, most of river is currently Q4. Work to get it back to High Status?Araglin. Has history of Q5 & 4/5, most of river is currently Q4. Work to get it back to High Status? NPWS priority habitat/species
18_16	IE_SW_18A030500	ARAGLIN (BLACKWATER)_040	River	*At Risk*	*At Risk*	Good	Good	Yes	Other	Araglin	Araglin. Has history of Q5 & 4/5, most of river is currently Q4. Work to get it back to High Status?Araglin. Has history of Q5 & 4/5, most of river is currently Q4. Work to get it back to High Status? NPWS priority habitat/species

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_13	IE_SW_18A050550	AWBEG (Buttevant)_010	River	*At Risk*	*Review*	Moderate	Good	No		Awbeg (Buttevant)	NPWS priority habitat/species Downstream of existing PAA. Q values improved but high OP & N. Complex catchment with multiple pressures SC 18_20 is proposed as an AFA. Headwaters should be included
18_20	IE_SW_18A050700	AWBEG (Buttevant)_020	River	*At Risk*	*At Risk*	Poor	Moderate	No	Other, UR, UWW	Awbeg (Buttevant)	NPWS priority habitat/species Downstream of existing PAA. Q values improved but high OP & N. Complex catchment with multiple pressures SC 18_20 is proposed as an AFA.
18_20	IE_SW_18A050900	AWBEG (Buttevant)_030	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Hymo	Awbeg (Buttevant)	NPWS priority habitat/species SC 18_20 is proposed as an AFA for LAWPRO. 3 of 4 Wbs are *At Risk*
18_20	IE_SW_18A051000	AWBEG (Buttevant)_040	River	*At Risk*	*At Risk*	Poor	Poor	No	UR	Awbeg (Buttevant)	NPWS priority habitat/species SC 18_20 is proposed as an AFA for LAWPRO. 3 of 4 Wbs are *At Risk*
18_10	IE_SW_18A051100	AWBEG (Buttevant)_050	River	*At Risk*	*Not At Risk*	Moderate	Good	No			
18_10	IE_SW_18A051200	AWBEG (Buttevant)_060	River	*At Risk*	*Not At Risk*	Moderate	Good	No			
18_10	IE_SW_18A051300	AWBEG (Buttevant)_070	River	*At Risk*	*Review*	Moderate	Good	No			
18_9	IE_SW_18A070200	AWNASKIRTAUN_010	River	*At Risk*	*Not At Risk*	Moderate	High	No			
18_13	IE_SW_18A080120	AWBEG (BUTTEVANT) (EAST)_010	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Ag, For	Awbeg (Buttevant)	*At Risk* waterbody, not previously proposed. Expand AFA to include
18_13	IE_SW_18A080250	AWBEG (BUTTEVANT) (EAST)_020	River	*At Risk*	*Review*	Moderate	Good	No		Awbeg (Buttevant)	Connects waterbodies for protection/restoration
18_13	IE_SW_18A090300	AWBEG (BUTTEVANT) (WEST)_010	River	*At Risk*	*At Risk*	Poor	Poor	No	Ag	Awbeg (Buttevant) West	Existing PAA waterbody. ASSAP work won't be complete
18_13	IE_SW_18A090400	AWBEG (BUTTEVANT) (WEST)_020	River	*At Risk*	*At Risk*	Poor	Poor	No	Hymo	Awbeg (Buttevant) West	Existing PAA waterbody. ASSAP work won't be complete
18_27	IE_SW_18A110680	ABARTAGH_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_17	IE_SW_18B010300	BEHANAGH_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes		Upper Funshion	Headwaters to Funshion 10. Expand PAA to include inputting waterbodies, under SC approach 18_17
18_12	IE_SW_18B020050	BLACKWATER (MUNSTER)_010	River	*Not At Risk*	*At Risk*	Good	Moderate	No	For, Other		
18_12	IE_SW_18B020075	BLACKWATER (MUNSTER)_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_12	IE_SW_18B020200	BLACKWATER (MUNSTER)_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_12	IE_SW_18B020400	BLACKWATER (MUNSTER)_040	River	*At Risk*	*At Risk*	Moderate	Moderate	No	For		
18_6, 18_9	IE_SW_18B020600	BLACKWATER (MUNSTER)_050	River	*Not At Risk*	*Not At Risk*	High	High	Yes			

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_3, 18_9	IE_SW_18B020750	BLACKWATER (MUNSTER)_060	River	*At Risk*	*At Risk*	Good	Good	Yes	Ag, For, Hymo		
18_3, 18_9	IE_SW_18B020900	BLACKWATER (MUNSTER)_070	River	*Not At Risk*	*At Risk*	High	Good	Yes	Ag, Other		
18_3, 18_4	IE_SW_18B021000	BLACKWATER (MUNSTER)_080	River	*At Risk*	*At Risk*	Good	Good	Yes	Ag		
18_2, 18_7	IE_SW_18B021200	BLACKWATER (MUNSTER)_090	River	*At Risk*	*Review*	Good	Good	Yes			
18_21, 18_23	IE_SW_18B021300	BLACKWATER (MUNSTER)_100	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_21, 18_23	IE_SW_18B021400	BLACKWATER (MUNSTER)_110	River	*At Risk*	*Review*	Good	Good	Yes			
18_21, 18_23	IE_SW_18B021510	BLACKWATER (MUNSTER)_120	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_14, 18_21	IE_SW_18B021600	BLACKWATER (MUNSTER)_130	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_14, 18_21	IE_SW_18B021720	BLACKWATER (MUNSTER)_140	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_14, 18_21	IE_SW_18B021800	BLACKWATER (MUNSTER)_150	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_14, 18_21	IE_SW_18B021900	BLACKWATER (MUNSTER)_160	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Ag, DWW, Other		
18_10, 18_14	IE_SW_18B022000	BLACKWATER (MUNSTER)_170	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_14, 18_28	IE_SW_18B022100	BLACKWATER (MUNSTER)_180	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_14, 18_28	IE_SW_18B022300	BLACKWATER (MUNSTER)_190	River	*Not At Risk*	*At Risk*	Good	Good	No	Hymo, UR		
18_28, 18_5	IE_SW_18B022450	BLACKWATER (MUNSTER)_200	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_24, 18_5	IE_SW_18B022500	BLACKWATER (MUNSTER)_210	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_24, 18_5	IE_SW_18B022700	BLACKWATER (MUNSTER)_220	River	*At Risk*	*At Risk*	Moderate	Moderate	No	M+Q		
18_11	IE_SW_18B050050	BRIDE (BLACKWATER)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_11	IE_SW_18B050320	BRIDE (BLACKWATER)_020	River	*Review*	*Review*	Good	Good	No			
18_25	IE_SW_18B050400	BRIDE (BLACKWATER)_030	River	*Review*	*Review*	Unassigned	Unassigned	No		Bride (Blackwater)	NPWS priority habitat/species. Include under SC approach 18_25
18_25	IE_SW_18B050500	BRIDE (BLACKWATER)_040	River	*At Risk*	*Review*	Moderate	Good	No		Bride (Blackwater)	Active EIP (BRIDE Project). Within a protected area. *At Risk* for 3rd cycle. Include under SC approach for 18_25
18_25	IE_SW_18B050600	BRIDE (BLACKWATER)_050	River	*At Risk*	*Review*	Moderate	Good	No		Bride (Blackwater)	Active EIP (BRIDE Project). Within a protected area. *At Risk* for 3rd cycle.

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
											Groundwater abstraction sources proposed for inclusion as an Area for Action Include under SC approach 18_25
18_19	IE_SW_18B050700	BRIDE (BLACKWATER)_060	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_19	IE_SW_18B050820	BRIDE (BLACKWATER)_070	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Blackpool	Groundwater abstraction sources proposed for inclusion as an area for action. NPWS priority habitat/species
18_19	IE_SW_18B051000	Bride [Waterford]_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_1	IE_SW_18B060100	BROGEEN_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_1	IE_SW_18B060300	BROGEEN_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_1	IE_SW_18B060800	BROGEEN_030	River	*Not At Risk*	*Not At Risk*	High	Good	No			
18_21	IE_SW_18B080300	BALLYCLOGH STREAM_010	River	*At Risk*	*At Risk*	Poor	Poor	No	Hymo	Ballyclogh Stream	Builds on ongoing work of CCC. Nutrient issues here. Upstream of the Blackwater SAC NPWS priority habitat/species
18_21	IE_SW_18B080500	BALLYCLOGH STREAM_020	River	*Review*	*At Risk*	Good	Moderate	No	Ag	Ballyclogh Stream	Builds on ongoing work of CCC. Nutrient issues here. Upstream of the Blackwater SAC NPWS priority habitat/species
18_16	IE_SW_18B100400	BALLARD STREAM_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_23	IE_SW_18C020070	CLYDA_010	River	*At Risk*	*At Risk*	Good	Good	Yes	Hymo		
18_23	IE_SW_18C020090	CLYDA_020	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_23	IE_SW_18C020300	CLYDA_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_11	IE_SW_18C030400	COOM_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_19	IE_SW_18C060400	CURRAHEEN (CORK)_010	River	*At Risk*	*At Risk*	Poor	Moderate	No	Ag, For	Curraheen	Builds on ongoing work of CCC Sediment issues.
18_16	IE_SW_18C070300	CRINNAGHTANE_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_18	IE_SW_18D010050	DALUA_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Duhallow Farming for Blue Dot EIP	Part of Duhallow Farming for Blue Dot EIP NPWS priority habitat/species
18_18	IE_SW_18D010200	DALUA_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Duhallow Farming for Blue Dot EIP	Part of Duhallow Farming for Blue Dot EIP NPWS priority habitat/species
18_18	IE_SW_18D010300	DALUA_030	River	*At Risk*	*At Risk*	Good	Good	Yes	Other	Duhallow Farming for Blue Dot EIP	Part of Duhallow Farming for Blue Dot EIP NPWS priority habitat/species
18_18	IE_SW_18D010500	DALUA_040	River	*Not At Risk*	*Not At Risk*	Good	High	No		Duhallow Farming for Blue Dot EIP	Part of Duhallow Farming for Blue Dot EIP NPWS priority habitat/species
18_25	IE_SW_18D020300	DOUGLAS (BRIDE)_010	River	*At Risk*	*At Risk*	Poor	Poor	No	Ag, UWW	Bride (Blackwater)	Elevated P & Ammonia, Ballynoe WWTP, Agri. Douglas 20 is a large catchment with no nutrient data. Upstream Conna RWS

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_25	IE_SW_18D020800	DOUGLAS (BRIDE)_020	River	*At Risk*	*At Risk*	Moderate	Moderate	No	For	Bride (Blackwater)	Elevated P & Ammonia, Ballynoe WWTP, Agri. Douglas 20 is a large catchment with no nutrient data. Upstream Conna RWS
18_16	IE_SW_18D030500	DOUGLAS (ARAGLIN)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_22	IE_SW_18F010300	FARAHY_010	River	*At Risk*	*At Risk*	Moderate	Moderate	No	For, Other	Farahy	Existing PAA waterbody. ASSAP work may not be complete
18_22	IE_SW_18F010500	FARAHY_020	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Ag, For	Farahy	Existing PAA waterbody. ASSAP work may not be complete
18_15	IE_SW_18F020100	FINISK_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_15	IE_SW_18F020300	FINISK_020	River	*Not At Risk*	*Review*	Good	Moderate	No			
18_15	IE_SW_18F020500	FINISK_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_9	IE_SW_18F030060	FINNOW (BLACKWATER)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Finnow (Blackwater)	Was all at Q 4/5 or 5 in past, now at Q4. Can it be improved & brought to High Status? NPWS priority habitat/species
18_9	IE_SW_18F030200	FINNOW (BLACKWATER)_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Finnow (Blackwater)	Was all at Q 4/5 or 5 in past, now at Q4. Can it be improved & brought to High Status?
18_9	IE_SW_18F030300	FINNOW (BLACKWATER)_030	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No		Finnow (Blackwater)	Was all at Q 4/5 or 5 in past, now at Q4. Can it be improved & brought to High Status? NPWS priority habitat/species
18_9	IE_SW_18F030400	FINNOW (BLACKWATER)_040	River	*Review*	*Review*	Good	Good	No		Finnow (Blackwater)	Was all at Q 4/5 or 5 in past, now at Q4. Can it be improved & brought to High Status? NPWS priority habitat/species
18_25	IE_SW_18F040500	FLESK (BRIDE)_010	River	*At Risk*	*At Risk*	Poor	Poor	No	Ind, UWW	Bride (Blackwater)	Combined pressures from forestry, agriculture, IPC & WWTP. High OP & Ammonia. Potential impacts on Bride 30.
18_25	IE_SW_18F041000	FLESK (BRIDE)_020	River	*Not At Risk*	*At Risk*	Good	Moderate	No	Ag	Bride (Blackwater)	Combined pressures from forestry, agriculture, IPC & WWTP. High OP & Ammonia. Potential impacts on Bride 30. NPWS priority habitat/species
18_17	IE_SW_18F050030	FUNSHION_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Upper Funshion	Expand PAA to include inputting waterbodies. SC approach for 18_17.
18_17	IE_SW_18F050100	FUNSHION_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Upper Funshion	Expand PAA to include inputting waterbodies. SC approach for 18_17.
18_17	IE_SW_18F050310	FUNSHION_030	River	*At Risk*	*At Risk*	Poor	Poor	No	Ag, Ind, UWW	Upper Funshion	Existing PAA waterbody. FC not yet commenced so ASSAP work programme won't be complete
18_22	IE_SW_18F050600	FUNSHION_040	River	*Review*	*Not At Risk*	Good	Good	No		Upper Funshion	Groundwater abstraction sources proposed for inclusion as an Area for Action Builds on work completed in Farahy_010 & _020 Within a protected area. Good work with Funshion Catchment Management Group Expand PAA

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_22	IE_SW_18F050700	FUNSHION_050	River	*At Risk*	*At Risk*	Good	Good	Yes	Ag	Funshion	Expand PAA Funshion Catchment Management Group active presence in the catchment
18_28	IE_SW_18F050800	FUNSHION_060	River	*At Risk*	*Not At Risk*	Moderate	Good	No		Funshion	Connect waterbodies identified for protection/restoration groundwater abstraction sources proposed for inclusion as an Area for Action Funshion Catchment Management Group active presence in the catchment
18_28	IE_SW_18F050900	FUNSHION_070	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Funshion	Connects waterbodies identified for restoration/ protection Funshion Catchment Management Group active presence in the catchment
18_28	IE_SW_18F051100	FUNSHION_080	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Ag, Ind, Other	Funshion	Combined pressures from motorway, agriculture, WWTP, IPC, etc. Glencorra Stream & Funshion 18F051100 both at Q3/4NPWS priority habitat/species Groundwater abstraction sources proposed for inclusion as an Area for Action NPWS priority habitat/species Funshion Catchment Management Group active presence in the catchment
18_15	IE_SW_18F060300	FARNANE_010	River	*Not At Risk*	*Not At Risk*	High	High	No			
18_11	IE_SW_18G020400	GLASHANABRACK_010	River	*Not At Risk*	*Not At Risk*	High	Good	No			
18_11	IE_SW_18G020500	GLASHANABRACK_020	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_26	IE_SW_18G030500	GLASHAWEE (ALLOW)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Allow	Expand PAA NPWS priority habitat/species
18_7	IE_SW_18G040600	GLEN (BANTEER)_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_7	IE_SW_18G040900	GLEN (BANTEER)_020	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_7	IE_SW_18G041100	GLEN (BANTEER)_030	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_19	IE_SW_18G050200	GLENABOY_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_19	IE_SW_18G050600	GLENABOY_020	River	*At Risk*	*At Risk*	Moderate	Moderate	No	UR	Glenaboy	LAWPRO: Existing PAA NPWS Blackwater River SAC White clayed crayfish, estuaries
18_24	IE_SW_18G060200	GLENAKEEFE_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_24	IE_SW_18G060400	GLENAKEEFE_020	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_8	IE_SW_18G070300	GLENDINE (BLACKWATER)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_18	IE_SW_18G080500	GLENLARA_010	River	*At Risk*	*At Risk*	Moderate	Moderate	No	For, Hymo	Glenlara	Forestry/Land drainage issues. Elevated OP & Ammonia. Sediment an issue. NPWS priority habitat/species
18_24	IE_SW_18G100040	GLENNAFALLIA_010	River	*At Risk*	*At Risk*	Good	Good	Yes	For	Owennashad - Blue Dot	*At Risk* HSO wb - not proposed

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_24	IE_SW_18G100200	GLENNAFALLIA_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Owennashad - Blue Dot	NPWS: Blackwater SAC, Estuaries, Austropotamobius pallipes
18_24	IE_SW_18G110300	GLENSHELANE_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_27	IE_SW_18G120200	GOISH_010	River	*At Risk*	*Review*	Moderate	Good	No			
18_27	IE_SW_18G120300	GOISH_020	River	*At Risk*	*Not At Risk*	Moderate	Good	No			
18_17	IE_SW_18G130200	GRADOGE_010	River	*At Risk*	*At Risk*	Poor	Poor	No	Ind, Other, UR, UWW	Upper Funshion	Existing PAA waterbody. FC not yet commenced so ASSAP work programme won't be complete
18_8	IE_SW_18H010790	HARROWHILL_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_25	IE_SW_18K020500	KNOPPOGE_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Bride (Blackwater)	NPWS priority habitat/species. Include under SC approach 18_25
18_3	IE_SW_18K030940	KEALE STREAM_010	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_27	IE_SW_18K540860	KILMEEDY_WEST_010	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_3	IE_SW_18K980670	KNOCKANEROE_010	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_27	IE_SW_18L010100	LICKY_010	River	*At Risk*	*Not At Risk*	Moderate	Good	No		Licky	LAWPRO: Existing PAA NPWS: Blackwater R SAC estuaries, white clawed crayfish Unique pop. Of FPM
18_27	IE_SW_18L010150	LICKY_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Licky	LAWPRO: extend the PAA into the AR downstream wb NPWS: Blackwater R SAC estuaries, white clawed crayfish Unique pop. Of FPM
18_27	IE_SW_18L010200	LICKY_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Licky	LAWPRO: extend the PAA into the AR downstream wb NPWS: Blackwater R SAC estuaries, white clawed crayfish Unique pop. Of FPM
18_23	IE_SW_18L020900	LYRE_010	River	*At Risk*	*At Risk*	Moderate	Moderate	No	For		
18_23	IE_SW_18L021100	LYRE_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_24	IE_SW_18L220930	LYRENACALLEE_EAST_010	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_21	IE_SW_18L450760	LISDUGGAN_NORTH_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_20	IE_SW_18L570860	LACKFRANCIS_010	River	*Review*	*Review*	Unassigned	Unassigned	No		Awbeg (Buttevant)	NPWS priority habitat/species SC 18_20 is proposed as an AFA for LAWPRO. 3 of 4 Wbs are *At Risk*
18_24	IE_SW_18M010100	MONAVUGGA_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_15	IE_SW_18M260940	MONEYGORM_010	River	*Review*	*Review*	Unassigned	Unassigned	No			
18_8	IE_SW_18M310560	MUCKRIDGE_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_21	IE_SW_18M670920	MONANIMY_LOWER_010	River	*Not At Risk*	*Not At Risk*	Unassigned	Unassigned	No			
18_7	IE_SW_18N010400	NAD_010	River	*Not At Risk*	*Not At Risk*	High	High	Yes			
18_10	IE_SW_18O010200	OGEEN_010	River	*At Risk*	*At Risk*	Moderate	Good	Yes	For	Ogeen	Existing PAA waterbody. LCA not yet commenced so ASSAP work programme is unlikely to be complete by Dec 211

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_10	IE_SW_18O010400	OGEEN_020	River	*At Risk*	*Review*	Moderate	Good	Yes		Ogeen	Existing PAA waterbody. FC not yet commenced so ASSAP work programme wont be complete
18_5	IE_SW_18O020400	OWBEG (WATERFORD)_010	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Other		
18_5	IE_SW_18O020800	OWBEG (WATERFORD)_020	River	*At Risk*	*At Risk*	Moderate	Moderate	No	Other		
18_25	IE_SW_18O030300	OWENAGEERAGH_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Bride (Blackwater)	NPWS priority habitat/species. Include under SC approach 18_25
18_18	IE_SW_18O040200	OWENANARE_010	River	*Not At Risk*	*Not At Risk*	High	High	No		Duhallow Farming for Blue Dot EIP	Part of Duhallow Farming for Blue Dot EIP NPWS priority habitat/species
18_18	IE_SW_18O040600	OWENANARE_020	River	*Not At Risk*	*Review*	High	Good	Yes		Duhallow Farming for Blue Dot EIP	Part of the Duhallow farming for Blue Dot EIP
18_4	IE_SW_18O050500	OWENBAUN (RATHCOOL)_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_4	IE_SW_18O050900	OWENBAUN (RATHCOOL)_020	River	*At Risk*	*At Risk*	Good	Good	Yes	Ag, DWW	Owenbaun (Rathcool)	Proposed by Cork Co Co as lead. Builds on their existing work programme
18_18	IE_SW_18O060500	OWENKEAL_010	River	*Not At Risk*	*Not At Risk*	High	Good	No		Duhallow Farming for Blue Dot EIP	Part of the Duhallow farming for Blue Dot EIP
18_18	IE_SW_18O060600	OWENKEAL_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Duhallow Farming for Blue Dot EIP	Part of the Duhallow farming for Blue Dot EIP
18_9	IE_SW_18O070700	OWENNAGLOO_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_24	IE_SW_18O080060	OWENNASHAD_010	River	*Not At Risk*	*At Risk*	High	Good	Yes	Ag, For	Owennashad - Blue Dot	*At Risk* HSO wb - not proposed
18_24	IE_SW_18O080140	OWENNASHAD_020	River	*At Risk*	*At Risk*	Good	Good	Yes	Hymo	Owennashad - Blue Dot	NPWS: Blackwater SAC, estuaries, Austropotamobius pallipes
18_24	IE_SW_18O080200	OWENNASHAD_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Owennashad - Blue Dot	NPWS: Blackwater SAC, estuaries, Austropotamobius pallipes Other Owennashad wb *At Risk*
18_6	IE_SW_18O090400	OWENTARAGLIN_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Owentaraglin	NPWS priority habitat/species Expand PAA to include inputting waterbodies
18_6	IE_SW_18O090900	OWENTARAGLIN_020	River	*Not At Risk*	*At Risk*	Good	Moderate	No	Ag, Other	Owentaraglin	NPWS priority habitat/species Deteriorated upstream waterbody to an existing HSO PAA waterbody Expand PAA to include inputting waterbodies
18_6	IE_SW_18O091100	OWENTARAGLIN_030	River	*At Risk*	*Review*	Good	Good	Yes		Owentaraglin	Existing PAA waterbody. ASSAP work may not be complete
18_6	IE_SW_18O091200	OWENTARAGLIN_040	River	*Not At Risk*	*Not At Risk*	High	High	Yes		Owentaraglin	NPWS priority habitat/species Expand PAA under SC approach
18_13	IE_SW_18O120820	Oakfront_010	River	*Review*	*Review*	Unassigned	Unassigned	No			

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_4	IE_SW_18R010400	RATHCOOL_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_4	IE_SW_18R010700	RATHCOOL_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_14	IE_SW_18R020500	ROSS (KILLAVULLEN)_010	River	*At Risk*	*Not At Risk*	Moderate	Good	No			
18_22	IE_SW_18S030200	SHEEP_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Upper Funshion	Headwaters to Sheep 20, which is requested by NFGWS. Include under SC approach
18_22	IE_SW_18S030400	SHEEP_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Upper Funshion	Connects waterbodies identified for restoration/ protection groundwater abstraction sources proposed for inclusion as an Area for Action
18_22	IE_SW_18S030600	SHEEP_030	River	*Not At Risk*	*Not At Risk*	Good	Good	No		Upper Funshion	Connects waterbodies identified for restoration/ protection Expand PAA
18_8	IE_SW_18T030300	TOURIG_010	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_8	IE_SW_18T030700	TOURIG_020	River	*Not At Risk*	*Not At Risk*	Good	Good	No			
17_5, 18_27, 18_8, 19_12, 19_16	IE_SW_020_0000	Youghal Bay	Coastal	*At Risk*	*At Risk*	Good	Moderate	No	Ag		
17_5, 18_15, 18_19, 18_27, 18_5, 18_8	IE_SW_020_0100	Lower Blackwater M Estuary / Youghal Harbour	Transitional	*At Risk*	*At Risk*	Moderate	Moderate	No	Ag		
18_8	IE_SW_020_0400	Lackaroe (Glendine Estuary)	Transitional	*Review*	*Review*	Unassigned	Unassigned	No			
18_15, 18_24, 18_5	IE_SW_020_0500	Upper Blackwater M Estuary	Transitional	*Review*	*Review*	High	High	No			
17_4, 17_6, 18_15	IE_SE_G_014	Ballyknock	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
15_11, 15_2, 16_1, 16_12, 16_15, 16_16, 16_17, 16_19, 16_23, 16_24, 16_25, 16_27, 16_29, 16_3, 16_7, 16_8, 18_17	IE_SE_G_030	Carrick-on-Suir	Groundwater	*At Risk*	*At Risk*	Good	Good	No	Ag		
15_11, 15_15, 16_1, 16_10, 16_11, 16_12, 16_14, 16_15, 16_16, 16_17, 16_18, 16_20, 16_21, 16_23, 16_24, 16_25, 16_26, 16_27, 16_29, 16_3,	IE_SE_G_040	Clonmel	Groundwater	*Review*	*Review*	Good	Good	No			

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
16_6, 16_7, 16_8, 16_9, 18_17											
17_4, 17_6, 18_15	IE_SE_G_052	Dungarvan	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
17_5, 17_6, 18_15, 18_27	IE_SE_G_073	Helvick Head	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
16_17, 16_3, 17_3, 17_4, 17_6, 18_15	IE_SE_G_085	Kilrion	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
16_14, 16_20, 16_26, 18_17, 18_22, 24_3	IE_SE_G_087	Knockaskallen	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
16_1, 16_16, 16_17, 16_25, 16_3, 16_7, 17_3, 17_4, 17_6, 18_15, 18_16, 18_17, 18_24	IE_SE_G_154	Comeragh	Groundwater	*Not At Risk*	*Review*	Good	Good	No			
18_12, 18_18, 18_26, 18_6, 22_17, 22_5, 22_9, 23_1, 23_12, 23_13, 23_2, 23_3, 23_4, 23_5, 23_6, 23_7, 23_8, 24_14, 24_7, 24_9	IE_SH_G_001	Abbeyfeale	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_13, 18_26, 23_1, 23_12, 23_3, 23_5, 24_1, 24_14, 24_15, 24_5, 24_6, 24_7, 24_9	IE_SH_G_030	Ballylongford	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
16_13, 16_20, 18_10, 18_13, 18_22, 24_11,	IE_SH_G_055	Charleville	Groundwater	*At Risk*	*At Risk*	Good	Good	No	Ag		

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
24_15, 24_2, 24_3, 24_6											
18_16	IE_SW_G_001	Araglin	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
18_11, 18_19, 18_23, 18_25, 18_7, 18_8, 19_1, 19_10, 19_11, 19_13, 19_14, 19_15, 19_16, 19_17, 19_18, 19_2, 19_3, 19_5, 19_6, 19_7, 19_8, 19_9, 20_10, 20_13, 20_14, 20_5	IE_SW_G_004	Ballinhassig East	Groundwater	*Review*	*At Risk*	Good	Good	No	Ag, DWW, Other		
18_4, 18_7, 18_9, 19_10, 19_14, 19_18, 19_3, 19_4, 19_6, 19_7, 19_9, 20_10, 20_6, 21_19, 21_7, 22_8	IE_SW_G_005	Ballinhassig West	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
16_20, 16_26, 18_10, 18_13, 18_17, 18_20, 18_22, 24_11, 24_3	IE_SW_G_010	Ballyhoura	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
16_26, 18_10, 18_13, 18_17, 18_20, 18_22, 24_11	IE_SW_G_011	Ballyhoura Kiltorcan	Groundwater	*At Risk*	*At Risk*	Good	Good	No	Ag, For		
18_2, 18_21, 18_23, 18_3, 18_4, 18_7, 18_9	IE_SW_G_018	Banteer	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
18_12, 18_9, 19_10, 19_4, 21_1, 21_10, 21_12, 21_13, 21_4, 21_5, 21_7, 22_10, 22_11, 22_12,	IE_SW_G_022	Cahersiveen	Groundwater	*Not At Risk*	*Review*	Good	Good	No			

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
22_13, 22_14, 22_16, 22_3, 22_6, 22_7, 22_8											
16_1, 17_6, 18_15, 18_16, 18_17, 18_22, 18_24, 18_28, 18_5	IE_SW_G_025	Cappoquin Kiltorcan	Groundwater	*At Risk*	*At Risk*	Good	Good	No	Ag, Other		
17_5, 17_6, 18_10, 18_11, 18_12, 18_14, 18_15, 18_19, 18_21, 18_23, 18_25, 18_27, 18_28, 18_4, 18_5, 18_7, 18_8, 18_9, 19_11, 19_13, 19_16, 19_18, 19_4, 19_5, 19_7, 19_8, 22_16, 22_8	IE_SW_G_037	Glenville	Groundwater	*Review*	*At Risk*	Good	Good	No	Ag		
18_20, 18_21	IE_SW_G_044	Kilmaclenine	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
16_1, 16_25, 16_3, 17_6, 18_15, 18_16, 18_17, 18_24, 18_28	IE_SW_G_047	Knockmealdown	Groundwater	*Review*	*Review*	Good	Good	No			
17_6, 18_15, 18_24, 18_5	IE_SW_G_050	Lismore	Groundwater	*At Risk*	*Review*	Good	Good	No			
18_8, 19_12, 19_13, 19_16, 19_2	IE_SW_G_058	Midleton	Groundwater	*Review*	*Review*	Good	Good	No			
18_17, 18_28	IE_SW_G_064	Industrial Facility (P0404-01)	Groundwater	*At Risk*	*At Risk*	Poor	Poor	No	Ind		
18_13, 24_11	IE_SW_G_068	Newtown Ballyhay	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			

Subcatchment Code	Waterbody Code	Waterbody Name	Waterbody Type	Risk 10-15	Risk 13-18	Status 10-15	Status 13-18	High Ecological Status Objective Waterbody	Significant Pressures	Recommended Areas for Action Name	Recommended Areas for Action (reasons for selection)
18_1, 18_10, 18_12, 18_13, 18_18, 18_2, 18_20, 18_21, 18_23, 18_26, 18_3, 18_4, 18_6, 18_7, 18_9, 22_16, 22_9, 23_2, 23_4, 23_5, 24_14, 24_15	IE_SW_G_070	Rathmore West	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_13, 24_11, 24_15, 24_6	IE_SW_G_071	Rathnacally	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_12, 22_1, 22_12, 22_14, 22_15, 22_16, 22_17, 22_2, 22_5, 22_6, 22_9, 23_13, 23_4, 23_8	IE_SW_G_073	Scartaglin	Groundwater	*Not At Risk*	*Not At Risk*	Good	Good	No			
18_11, 18_15, 18_19, 18_25, 18_27, 18_5	IE_SW_G_074	Tallow	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
18_8	IE_SW_G_075	Tourig Group 1	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
18_27	IE_SW_G_076	Tourig Group 2	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
17_5, 18_27	IE_SW_G_077	Tourig Group 3	Groundwater	*Review*	*Not At Risk*	Good	Good	No			
16_1, 16_26, 18_10, 18_13, 18_14, 18_16, 18_17, 18_2, 18_20, 18_21, 18_22, 18_23, 18_26, 18_28, 18_5, 24_15	IE_SW_G_082	Mitchelstown	Groundwater	*At Risk*	*At Risk*	Good	Poor	No	Ag, For, Other		

Ag: Agriculture

DWW: Domestic Waste Water

For: Forestry

Hymo: Hydromorphology

Ind: Industry

M+Q: Mines and Quarries

Peat: Peat Drainage and Extraction

UR: Urban Run-off

UWW: Urban Waste Water

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