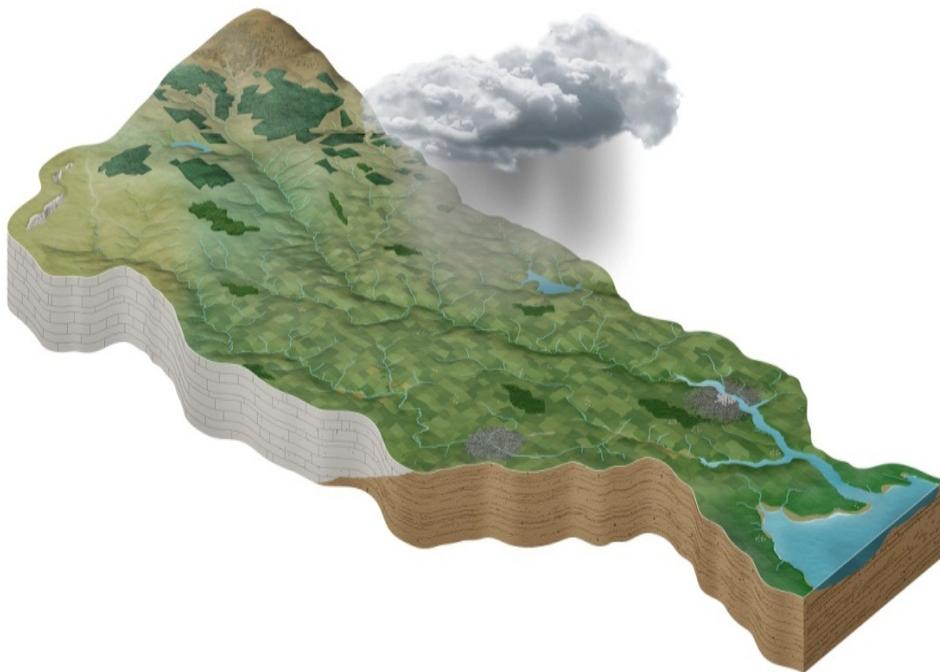


# 3<sup>rd</sup> Cycle Draft Bandon Ilen Catchment Report (HA 20)



**Catchment Science & Management Unit**

**Environmental Protection Agency**

August 2021

Version no. 1

## Preface

This document provides a summary of the water quality assessment outcomes for the Bandon Ilen 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 3<sup>rd</sup> 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 2<sup>nd</sup> Cycle Areas for Action and a list of proposed 3<sup>rd</sup> 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.

<b>Water Framework Directive – key dates and terminology</b>	
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.
2 <sup>nd</sup> 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.
2 <sup>nd</sup> 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.
3 <sup>rd</sup> 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.
3 <sup>rd</sup> 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

1	Introduction.....	6
2	Waterbody Overview.....	7
2.1	Waterbody Status .....	7
2.2	Protected Areas .....	9
2.3	Heavily Modified Waterbodies.....	14
2.4	Artificial Waterbodies .....	14
3	Waterbody Risk .....	14
3.1	Overview of Risk .....	14
3.2	Surface Waters.....	15
3.3	Groundwater.....	17
3.4	Heavily Modified Waterbodies.....	19
3.5	Artificial Waterbodies .....	19
4	Significant Issues in <i>At Risk</i> Waterbodies .....	19
4.1	All Waterbodies .....	19
4.2	High Status Objective Waterbodies .....	20
5	Significant pressures in <i>At Risk</i> Waterbodies.....	21
5.1	All Waterbodies .....	21
5.2	High Status Objective Waterbodies .....	26
6	Source Load Apportionment Modelling (SLAM) .....	26
7	Load Reduction Assessment .....	27
7.1	Nitrogen Load Reduction .....	27
7.2	Phosphorous / Sediment Load Reduction .....	27
8	2 <sup>nd</sup> Cycle Areas for Action .....	28
8.1	Area for Action Overview .....	28
8.2	Status Change in 2 <sup>nd</sup> Cycle Areas for Action .....	30
8.3	Waterbody Risk in 2 <sup>nd</sup> Cycle Areas for Action .....	31
8.4	Significant Issues in 2 <sup>nd</sup> Cycle Areas for Action.....	32
8.5	Significant Pressure in 2 <sup>nd</sup> Cycle Areas for Action .....	33
9	3 <sup>rd</sup> Cycle Recommended Areas for Action .....	33
9.1	Recommended Areas for Action Overview .....	33
10	Catchment Summary .....	35

## List of Figures

Figure 1: Overview of subcatchments in the Bandon Ilen catchment .....	6
Figure 2: Waterbody types and numbers in the Bandon Ilen Catchment. ....	7
Figure 3: Waterbody Status Breakdown (All waterbodies).....	8
Figure 4: Status Class Changes between Cycle 2 and Cycle 3 .....	9
Figure 5: Protected Areas – Public Health.....	11
Figure 6: Water Dependent SPAs / SACs and Salmonid Waters .....	13
Figure 7: Number of waterbodies in each risk category .....	15
Figure 8: Surface Water Risk Cycle 3 .....	16
Figure 9: Surface Water Risk Change between Cycle 2 and Cycle 3 .....	17
Figure 10: Cycle 3 Groundwater Body Risk .....	18
Figure 11: Groundwater Body Risk Change between Cycle 2 & Cycle 3 .....	19
Figure 12: Significant Issues across all <i>At Risk</i> WBs between Cycle 2 and Cycle 3.....	20
Figure 13: Significant Issues in <i>At Risk</i> High Status Objective Waterbodies .....	21
Figure 14: Significant Pressure (All <i>At Risk</i> Waterbodies) .....	22
Figure 15: Locations of Waterbodies where Agriculture is a Significant Pressure.....	25
Figure 16: Locations of Waterbodies where Urban Waste Water is a Significant Pressure .....	25
Figure 17: Locations of Waterbodies where Hydromorphology is a Significant Pressure .....	25
Figure 18: Locations of Waterbodies where Forestry is a Significant Pressure .....	25
Figure 19: Locations of Waterbodies where Urban Run-off is a Significant Pressure .....	25
Figure 20: Significant Pressure in <i>At Risk</i> High Status Objective Waterbodies .....	26
Figure 21: Estimated Proportions of N & P from Each Sector in the Bandon Ilen Catchment.....	27
Figure 22: Waterbodies where Agricultural Measures should be Targeted .....	28
Figure 23: 2 <sup>nd</sup> Cycle Areas for Action Locations .....	29
Figure 24: 2 <sup>nd</sup> Cycle Area for Action Waterbody Status Class Changes between Cycle 2 and Cycle 3 .....	31
Figure 25: Number of waterbodies in each risk category in 2 <sup>nd</sup> Cycle Areas for Action .....	32
Figure 26: Significant Issues across all 2 <sup>nd</sup> Cycle Areas for Action Waterbodies .....	32
Figure 27: Significant Pressures in 2 <sup>nd</sup> Cycle Area for Action Waterbodies .....	33
Figure 28: 3 <sup>rd</sup> Cycle Recommended Areas for Action Locations .....	34

## List of Tables

Table 1: Waterbody Status Breakdown Table (All Waterbodies).....	8
Table 2: Designated shellfish areas in the catchment.....	10
Table 3: Natura 2000 Network Assessment Summary.....	12
Table 4: Nutrient sensitive areas in the catchment .....	14
Table 5: Waste Water Treatment Agglomerations identified as significant pressures in <i>At Risk</i> waterbodies in Cycle 3 .....	23
Table 6: 2 <sup>nd</sup> Cycle Areas for Action .....	29
Table 7: 3 <sup>rd</sup> Cycle Recommended Areas for Action Breakdown.....	34

# 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 3<sup>rd</sup> Cycle River Basin Management Plan. In addition, a comparative overview of the water quality in the Bandon Ilen catchment between Cycle 2 and Cycle 3 characterisation is provided along with a summary of the progress made in the 2<sup>nd</sup> Cycle Areas for Action. The recommended list for the 3<sup>rd</sup> Cycle Areas for Action is also provided.

To provide context, the Bandon Ilen catchment includes the area drained by the Rivers Bandon and Ilen and all streams entering tidal water between Templebreedy Battery and Mizen Head, Co. Cork, draining a total area of 1,803km<sup>2</sup> (Figure 1). The largest urban centre in the catchment is Bandon. The other main urban centres in this catchment are Kinsale, Clonakilty, Skibbereen and Dunmanway. The total population of the catchment is approximately 71,211 with a population density of 39 people per km<sup>2</sup>.

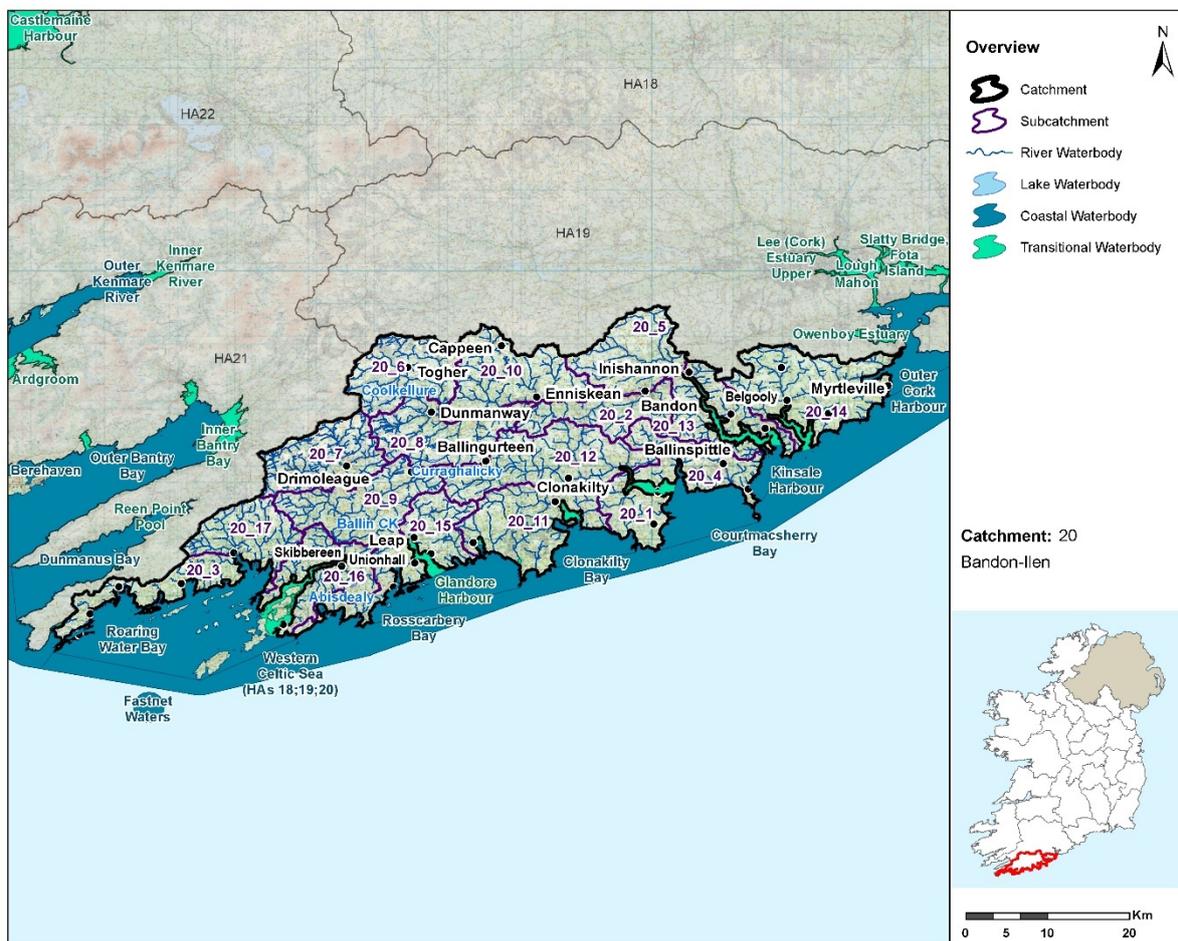


Figure 1: Overview of subcatchments in the Bandon Ilen catchment

The Bandon Ilen catchment is divided into 17 subcatchments (Figure 1) with 87 river waterbodies, six lakes, 11 transitional, 15 coastal waterbodies and nine groundwater bodies (Figure 2).

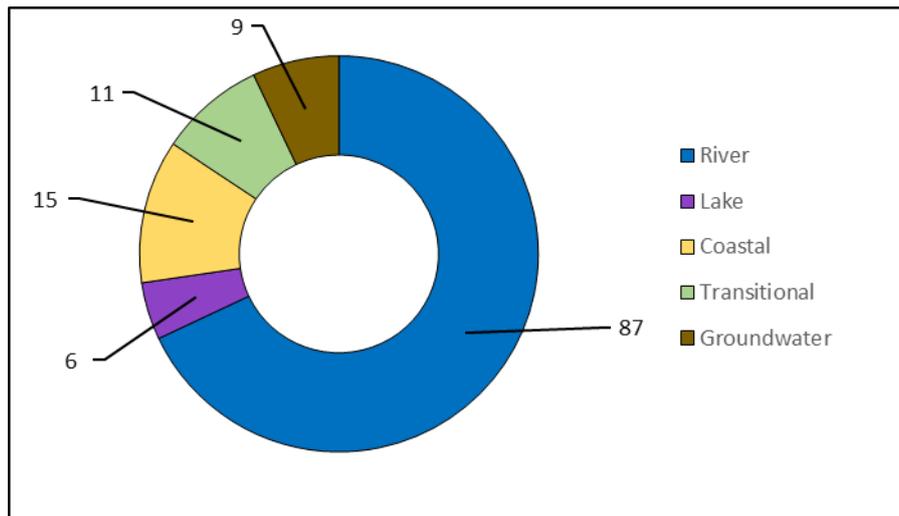


Figure 2: Waterbody types and numbers in the Bandon Ilen Catchment.

## 2 Waterbody Overview

### 2.1 Waterbody Status

- ◆ This assessment to inform the 3<sup>rd</sup> 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 For Cycle 3, there are nine waterbodies achieving High Status, 51 achieving Good Status, 13 achieving Moderate Status, six Poor Status waterbodies and one Bad Status waterbody (Kilkeran Lake). There are 48 waterbodies in the catchment that do not have status assigned for Cycle 3. All waterbodies must achieve at least Good Ecological status.
- ◆ There are 15 river waterbodies that must achieve High Ecological Status (HES) in this catchment. These waterbodies are listed in Appendix 1. Of the 15 HES Environmental Objective waterbodies, seven river waterbodies are achieving High Status while six waterbodies are at Good Status, one waterbody (Bandon\_030) is at Moderate Status and one waterbody (Diny\_010) is at Poor Status.
- ◆ The overall number of waterbodies achieving High Status has increased from eight to nine between Cycle 2 and Cycle 3 (Figure 3 & Table 1). However, one river waterbody (Burncourt\_020) declined from High Status to Good Status and two river waterbodies (Lingaun\_010 & Aughnaglanny\_010) declined from High Status to Moderate Status. There was an improvement from Moderate Status to High Status in two river waterbodies (Aherlow\_040 & Clodiagh (Portlaw)\_010) and an improvement from Good Status to High Status in the Aherlow\_070.

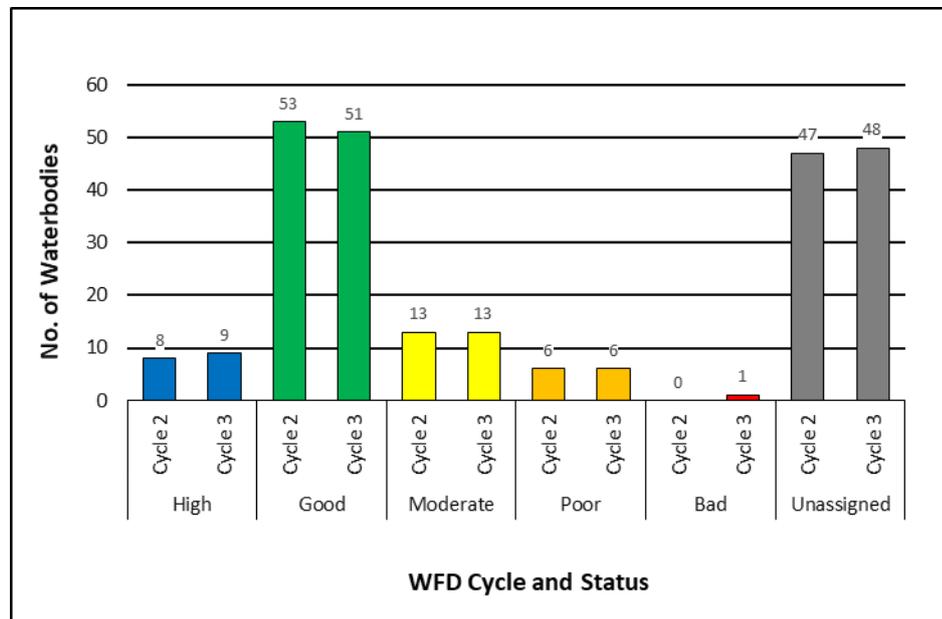


Figure 3: Waterbody Status Breakdown (All waterbodies)

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	8	9	0	0	0	0	0	0	0	0	8	9
Good	41	35	1	2	0	0	3	5	8	9	53	51
Moderate	5	8	3	3	4	2	1	0	0	0	13	13
Poor	0	2	2	1	2	3	1	0	1	0	6	6
Bad	0	0	0	0	0	1	0	0	0	0	0	1
Un-assigned	33	33	0	0	5	5	9	10	0	0	47	48
<b>Total</b>	87	87	6	6	11	11	14	15	9	9	127	128

- ◆ 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 nine (11%) waterbodies have improved in status, 60 (75%) waterbodies have remained unchanged and 11 (14%) waterbodies have declined in status.<sup>1</sup>

<sup>1</sup> 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.

- ◆ There is an overall decline in the status of two waterbodies across the catchment since the Cycle 2 assessment.

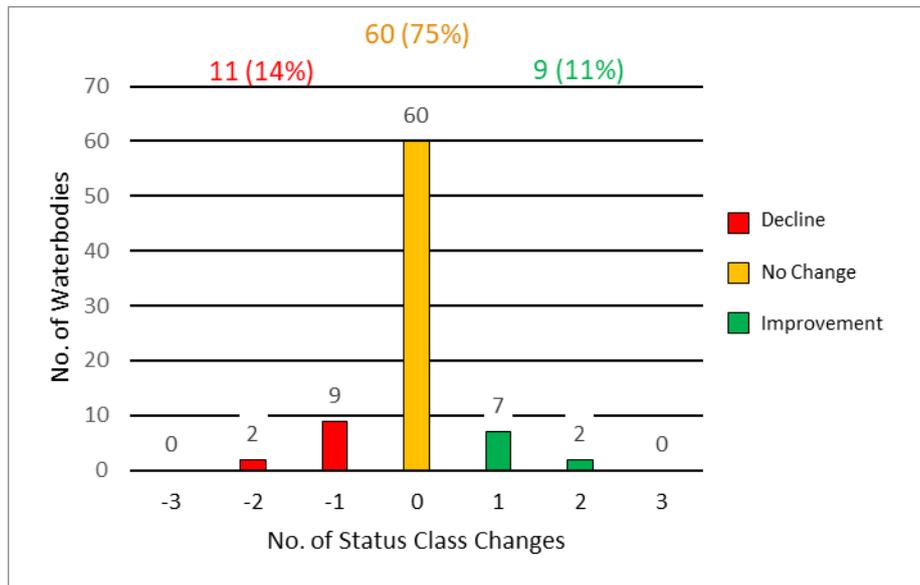


Figure 4: Status Class Changes between Cycle 2 and Cycle 3

## 2.2 Protected Areas

### 2.2.1 Drinking Water

- ◆ There are 15 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 drinking waters 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](#)<sup>2</sup> and [Private Supplies](#)<sup>3</sup>.

### 2.2.2 Bathing Waters

- ◆ There are nine bathing waters in or directly adjacent to the catchment identified under the Bathing Water Regulations 2008.
- ◆ eight of the nine bathing waters had an Excellent classification for 2020, the remaining bathing water (Coolmaine) had a Good classification.
- ◆ For more detailed information please see the EPA report on [bathing water quality in 2020](#)<sup>4</sup>.

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

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

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

### 2.2.3 Shellfish Areas

- ◆ There are four designated shellfish area in the catchment.
- ◆ The Marine Institute assessed the average dissolved concentrations for metals in shellfish waters for the period 2016-2019 and the microbial quality in shellfish flesh for 2018. This assessment was used to determine if the WFD protected area objective for shellfish areas was met.
- ◆ Details on the shellfish area and its associated waterbody is summarised in Table 2.

Table 2: Designated shellfish areas in the catchment

Shellfish area		Water body intersection		Objective met?	
Name	Code	Name	Code	Yes	No
Roaring Water Bay	IEPA2_0014	Roaring Water Bay	IE_SW_140_000	✓	
Oyster Haven	IEPA2_0050	Oysterhaven	IE_SW_070_0100	✓	
Baltimore Harbour/Sherkin	IEPA2_0051	Ilen Estuary	IE_SW_130_0100		✓
		Roaring Water Bay	IE_SW_140_000		
Kinsale	IEPA2_0062	Lower Bandon Estuary	IE_SW_080_0100		✓

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

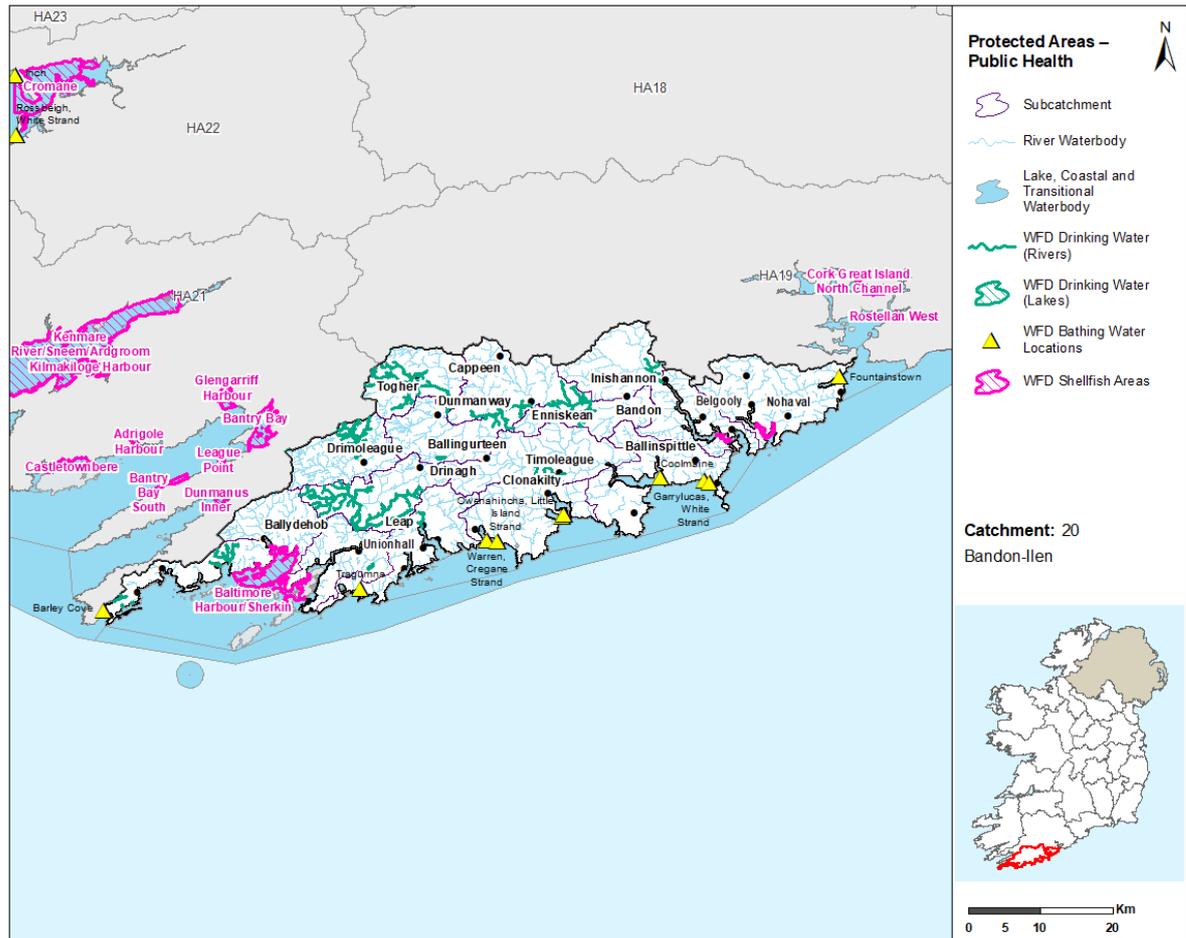


Figure 5: Protected Areas – Public Health

#### 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 nine 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 3 below, information at a waterbody level can be viewed at [Catchments.ie](https://www.catchments.ie).<sup>5</sup>

Table 3: Natura 2000 Network Assessment Summary

<b>Water Body Type</b>	<b>Total No.</b>	<b>Meeting the Requirements</b>	<b>Did not meet the Requirements</b>	<b>Unknown*</b>
Rivers	9	1	3	5
Transitional & Coastal	4	3	1	0

*\*As the waterbody status was unassigned.*

- ◆ There are three river waterbodies with FWPM habitats, none of which had achieved the required macroinvertebrate standard as set out in the FWPM Regulations.
- ◆ 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.

---

<sup>5</sup><https://www.catchments.ie/download/catchments-assessments-protected-areas-supporting-documents/>

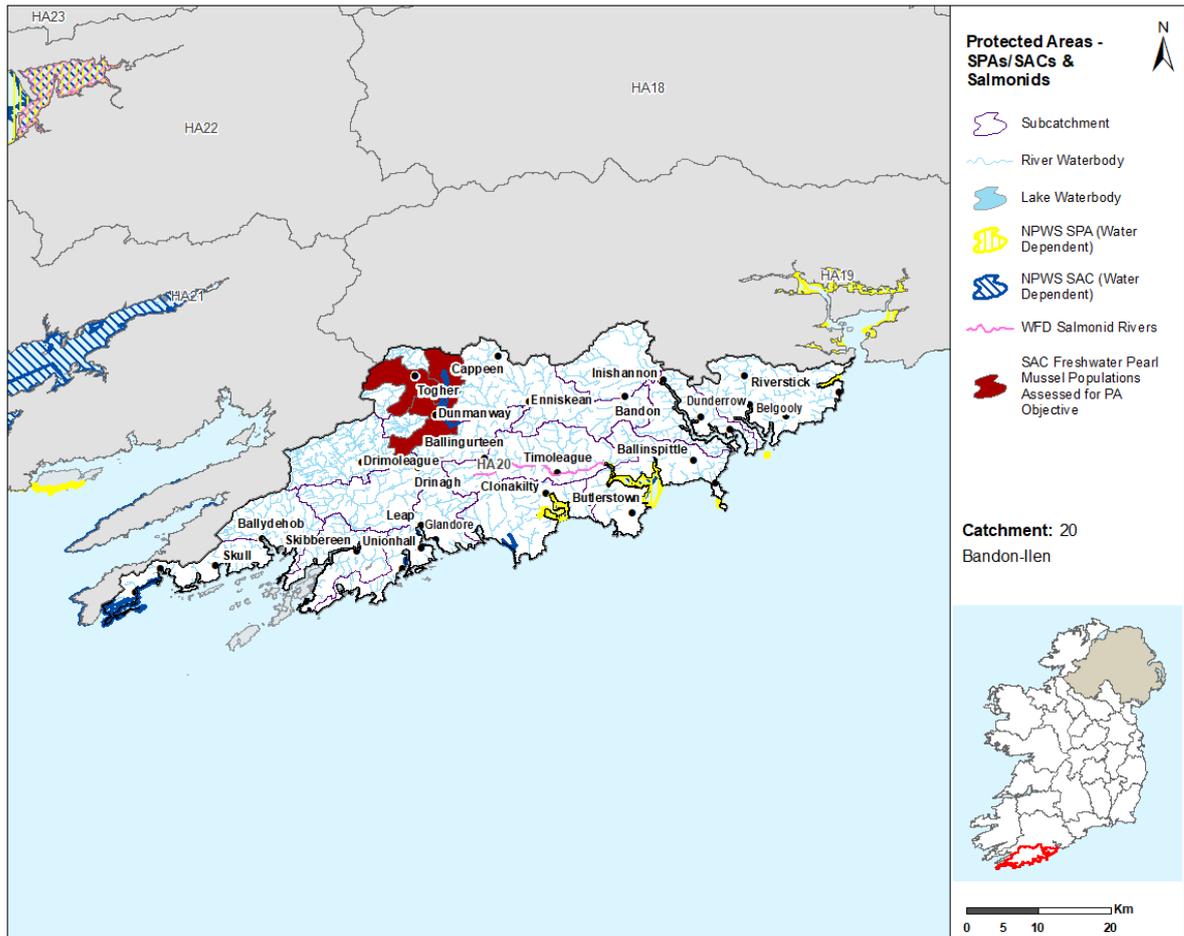


Figure 6: Water Dependent SPAs / SACs and Salmonid Waters

### 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 two NSAs in the catchment and these are downstream of two urban wastewater agglomerations. The list of NSAs, associated agglomerations and intersecting water bodies are provided in Table 4.
- ◆ NSA objectives are being met in one of the two NSAs in the catchment.

Table 4: Nutrient sensitive areas in the catchment

Nutrient Sensitive Area	Agglomeration		Water body		Objective met?		Comment
	Name	Code	Name	Code	Yes	No	
Bandon Estuary (upper and Lower)	Bandon	D0136-01	Lower Bandon Estuary	IE_SW_080_0100		✓	Secondary Treatment in Place
			Upper Bandon Estuary	IE_SW_080_0300			
Clonakilty Harbour	Clonakilty	D0051-01	Clonakilty Harbour	IE_SW_100_0100	✓		Tertiary Treatment in place

## 2.3 Heavily Modified Waterbodies

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

## 2.4 Artificial Waterbodies

- ◆ There are no Artificial Waterbodies (AWBs) present in the Bandon Ilen 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 128 waterbodies in the Bandon-Ilen Catchment and 27 (21%) are *At Risk*, 34 (27%) in *Review* and 67 (52%) are *Not At Risk*.

### 3.2 Surface Waters

- ◆ For the 87 river waterbodies in the catchment, 13 (15%) are *At Risk*, 19 (22%) are in *Review* and 55 (63%) are *Not At Risk*.
- ◆ For the six lake waterbodies in the catchment, four (67%) are *At Risk* and two (33%) are *Not At Risk*. Abisdealy, Ballin CK, Coolkellure & Curragalicky are the *At Risk* lake waterbodies in Cycle 3.
- ◆ For the 11 transitional waterbodies in the catchment, seven (64%) are *At Risk* and four (36%) are in *Review*.
- ◆ For the 15 coastal waterbodies in the catchment, two (13%) are *At Risk*, eight (53%) are in *Review* and five (33%) are *Not At Risk*. Clonakilty Bay & Rosscarbery Bay are the *At Risk* coastal waterbodies in the catchment.
- ◆ The largest proportion of *At Risk* waterbodies are found in rivers, accounting for 13 (48%) of 27 *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 an increase by one in the number of *At Risk* waterbodies and a reduction of one in the number of *Not At Risk* waterbodies between Cycle 2 and Cycle 3. There is one additional waterbody (Lough Hyne coastal waterbody) in the catchment in Cycle 3 which explains the additional *Review* waterbody.

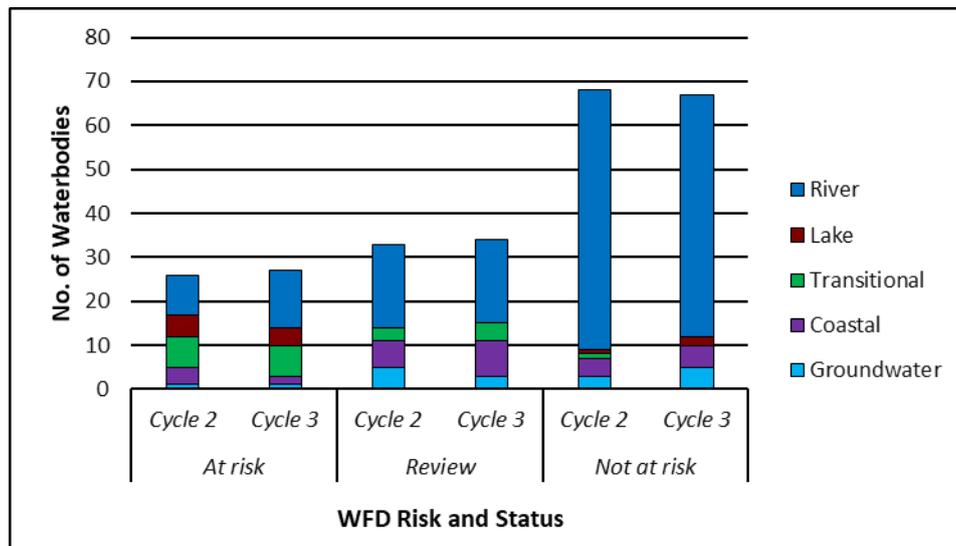


Figure 7: Number of waterbodies in each risk category

- ◆ 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.

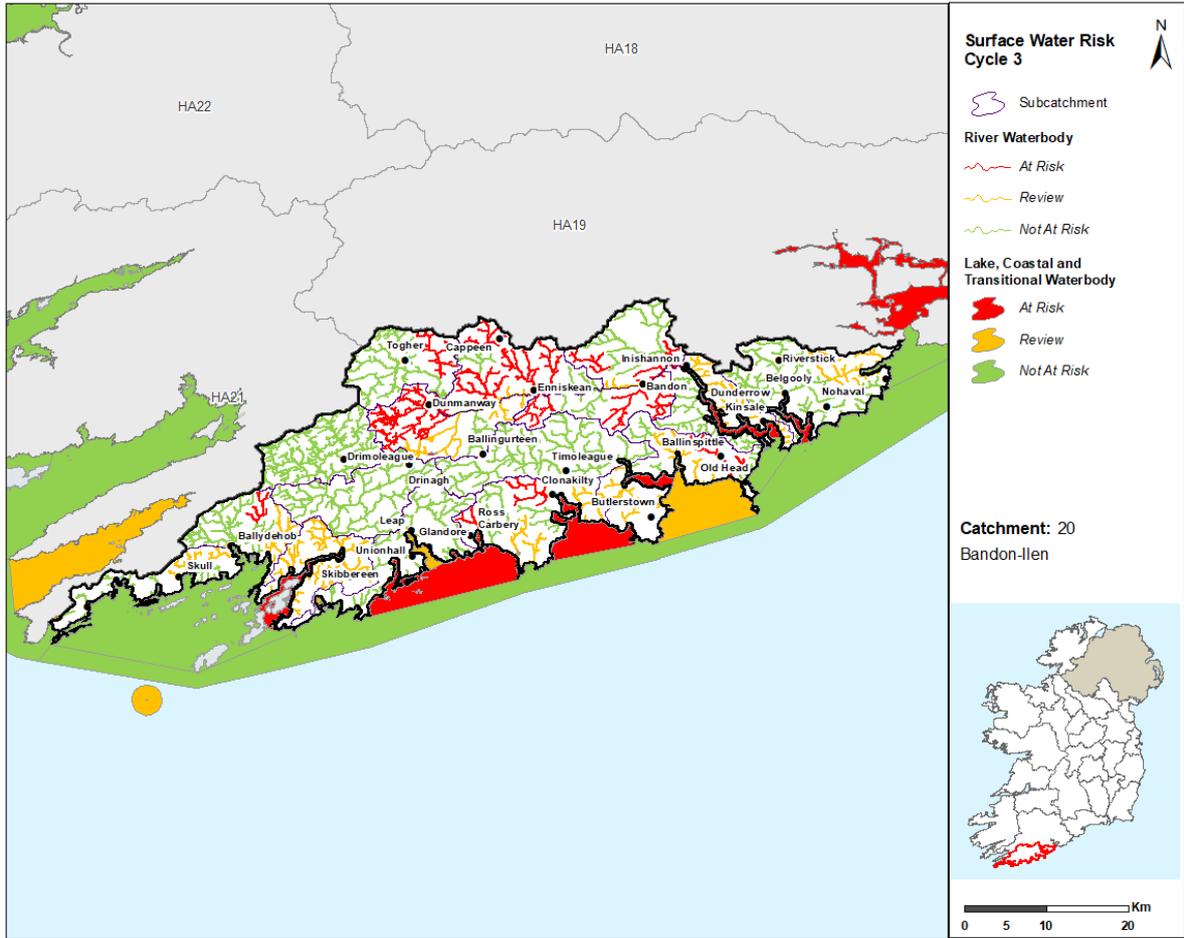


Figure 8: Surface Water Risk Cycle 3

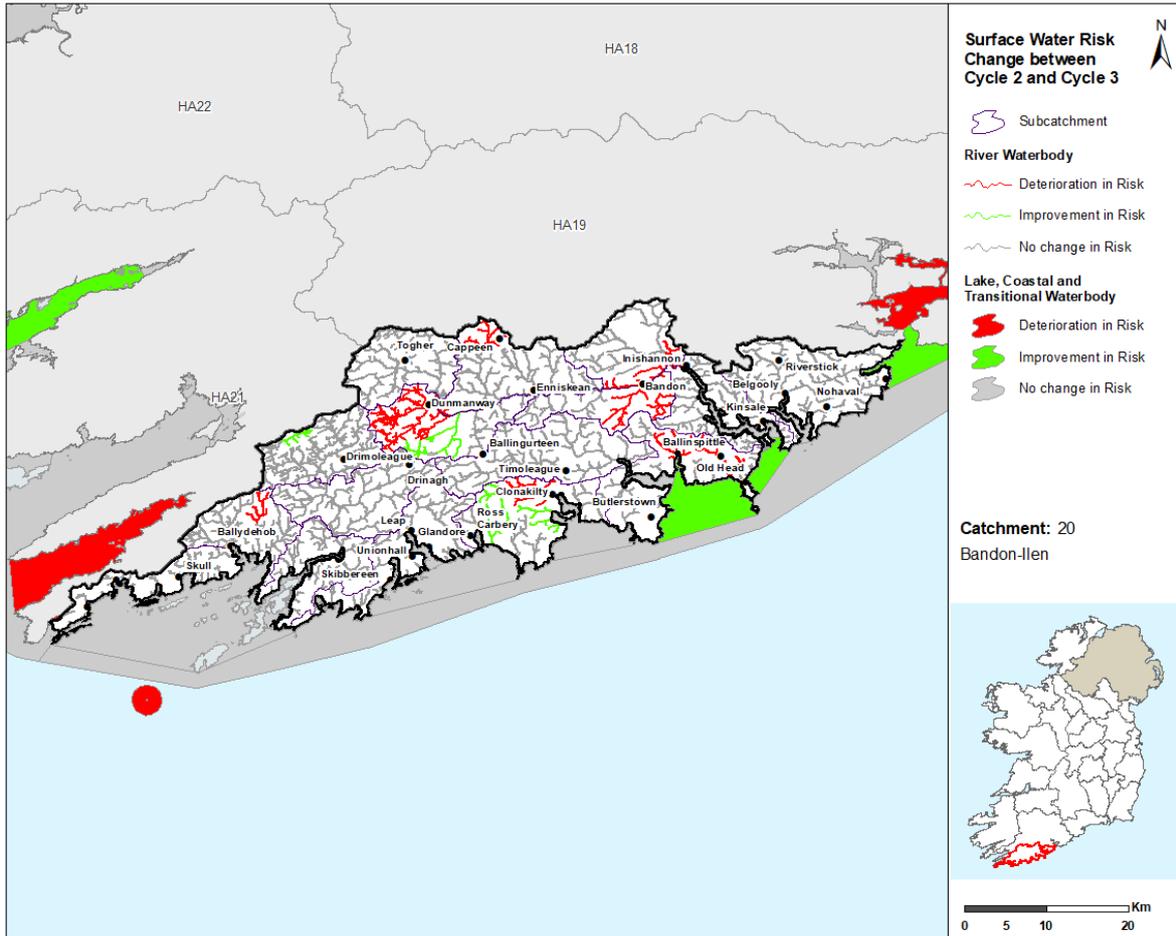


Figure 9: Surface Water Risk Change between Cycle 2 and Cycle 3

### 3.3 Groundwater

- ◆ For the nine groundwater bodies in the catchment, one (11%) is *At Risk*, three (33%) are in *Review* and five (56%) are *Not At Risk*. Ballinhassig East is the *At Risk* groundwater body in Cycle 3. However, it should be noted that the majority of the Ballinhassig East groundwater underlies the Lee Catchment (HA19) and only a negligible portion crosses the Bandon Ilen Catchment boundary in the north east of the catchment.
- ◆ In Cycle 2, there was one groundwater body (Waste Facility (W0089-02)) *At Risk* in this catchment, 16 in *Review* and 13 *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.

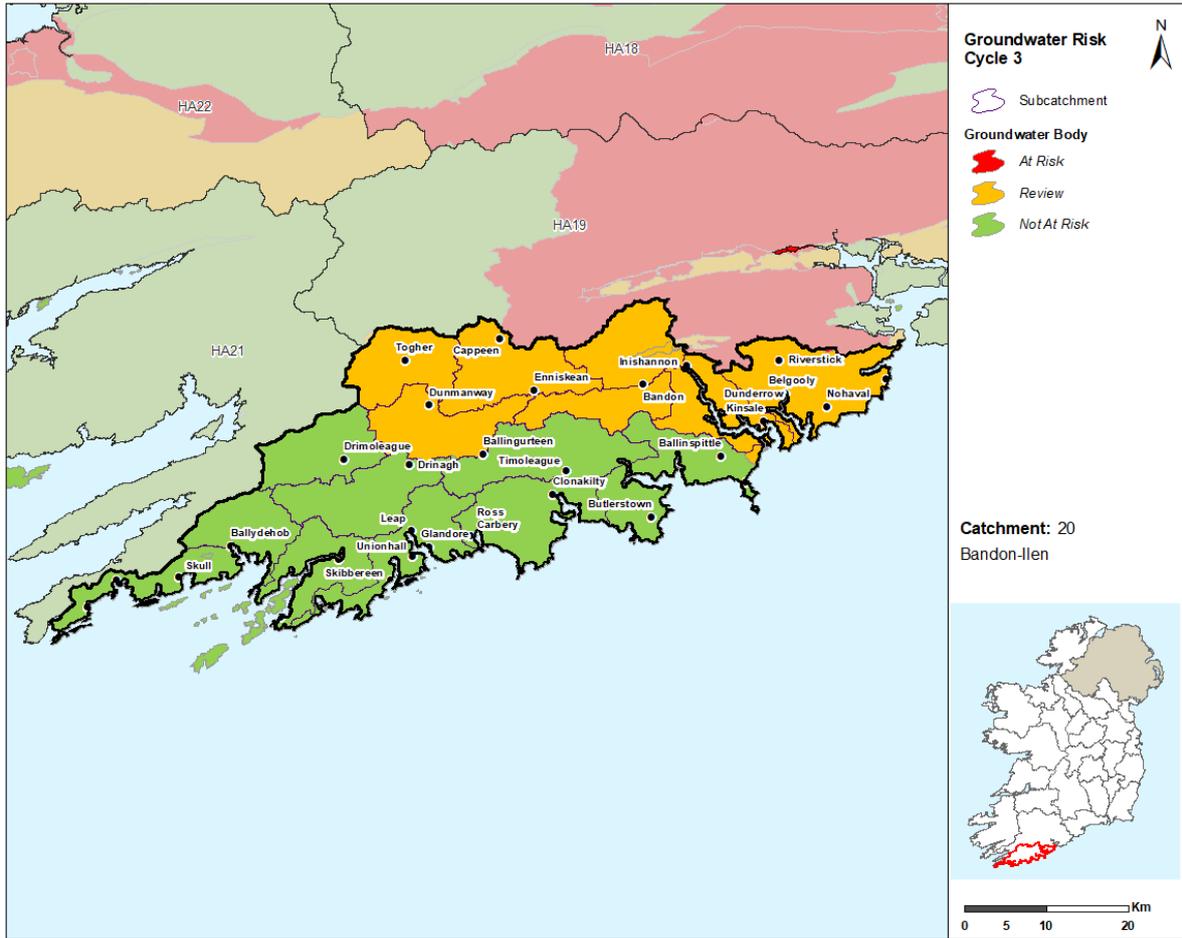


Figure 10: Cycle 3 Groundwater Body Risk

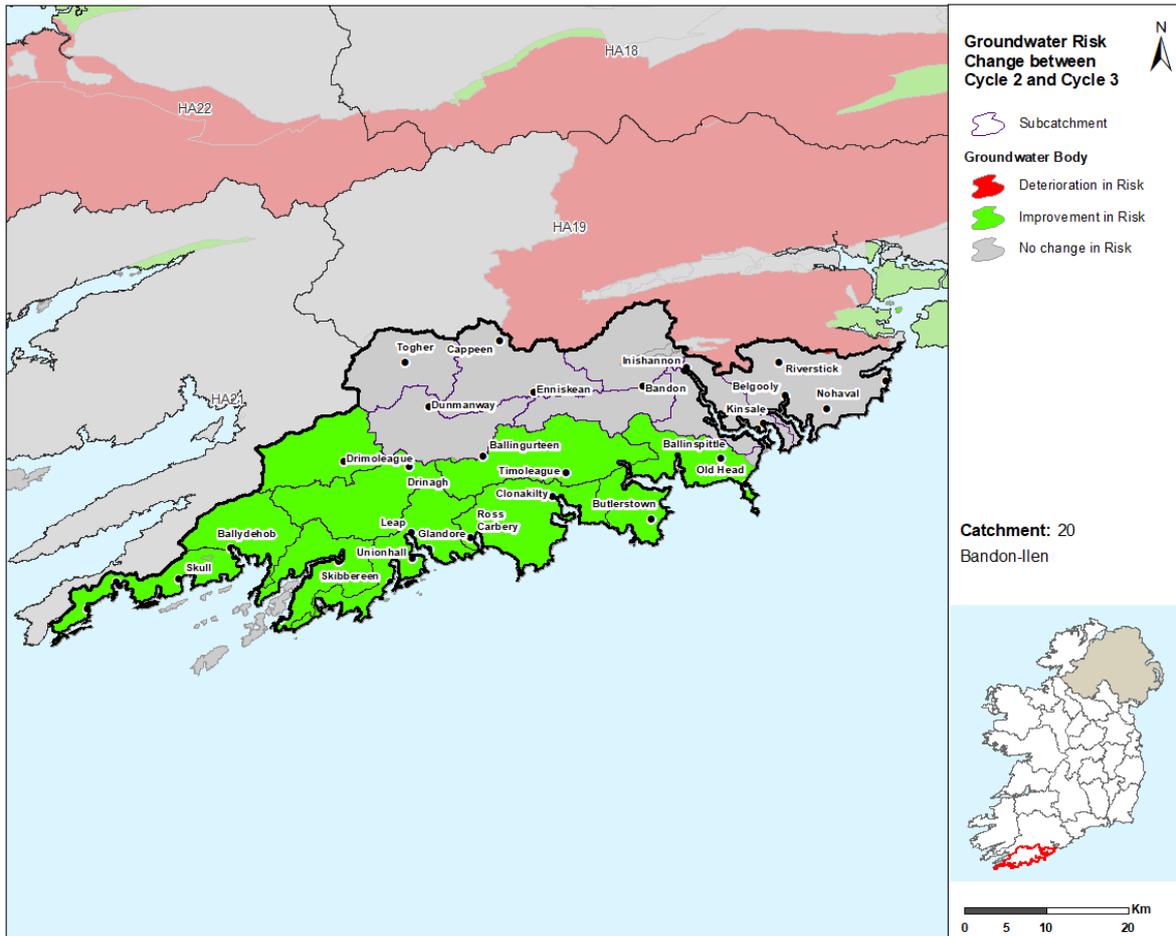


Figure 11: Groundwater Body Risk Change between Cycle 2 & Cycle 3

### 3.4 Heavily Modified Waterbodies

- ◆ There are no designated heavily modified water bodies (HMWB) in the Bandon Ilen catchment. There may be changes to HMWB designation once the Cycle 3 HMWB assessment has been completed and consulted on for the 3<sup>rd</sup> Cycle Final RBMP.

### 3.5 Artificial Waterbodies

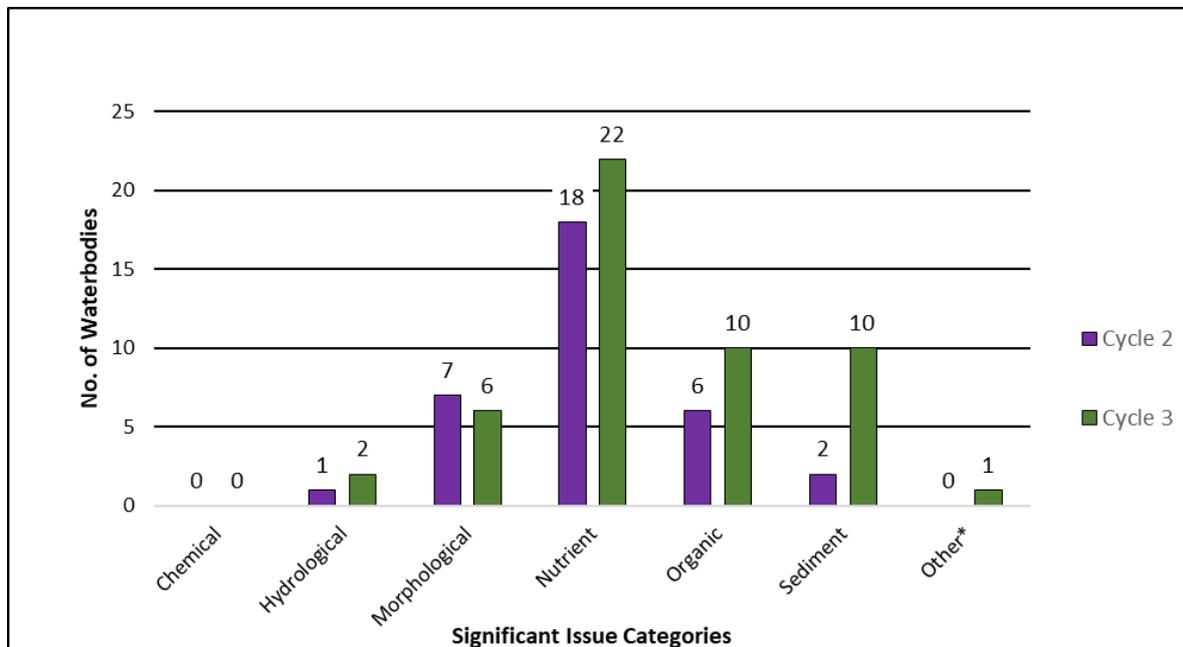
- ◆ There are no artificial waterbodies present in the Bandon-Ilen Catchment.

## 4 Significant Issues in *At Risk* Waterbodies

### 4.1 All Waterbodies

- ◆ Excess nutrients remain the most prevalent issue in the Bandon Ilen Catchment (Figure 12) impacting 22 waterbodies in Cycle 3. Organic pollution and sediment issues are each impacting 10 waterbodies, morphological and hydrological impacts are affecting six and two waterbodies, respectively.
  - For rivers, the main significant issues are nutrient pollution (10), sediment (9), morphological impacts (6), organic pollution (4) and hydrological impacts (1).

- For Lakes, the main significant issues are nutrient pollution (2), sediment (1) and hydrological impacts (1).
  - For transitional waterbodies the significant issues are nutrient (7) and organic (5) pollution.
  - Nutrient pollution is the issue in Rosscarberry Bay and Clonakilty Bay coastal waterbodies. Organic pollution is also an issue in Clonakilty Bay.
  - The impact type in the *At Risk* groundwater body (Ballinhassig East) is unknown for Cycle 3.
- ◆ Between Cycle 2 and Cycle 3 the number of waterbodies with sediment issues have increased by eight, from two to 10. The number of waterbodies with nutrients issues have increased by four from 18 to 22. The number of waterbodies impacted by organic pollution has increased by four from six to 10. The number of waterbodies impacted by hydrological issues has increased by one from one to two. The number of waterbodies impacted by hydrological issues has increased by one from one to two.
  - ◆ The numbers of waterbodies with morphological issues have reduced from seven to six between Cycle 2 and Cycle 3.

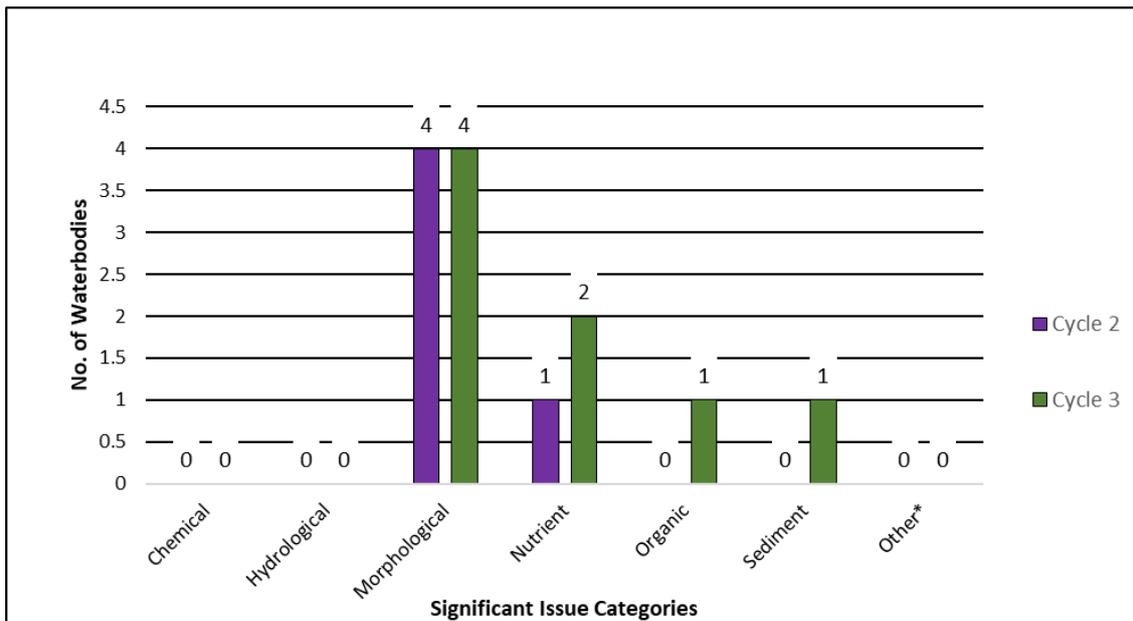


\*Other - Acidification, saline intrusion, elevated temperature, litter, microbiological pollution and unknown impacts have all been grouped into the "Other" issues category for the purpose of this report

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 morphological issues are impacting all four High Status Objective waterbodies (Leamawaddra\_010, Caha\_020, Blackwater (Bandon)\_030 & Ballymahane\_010) currently *At Risk* (Figure 13). Caha\_020 is also impacted by sediment, nutrients and organic pollution. In addition to morphological issues, Blackwater (Bandon)\_030 is impacted by nutrients.



\*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

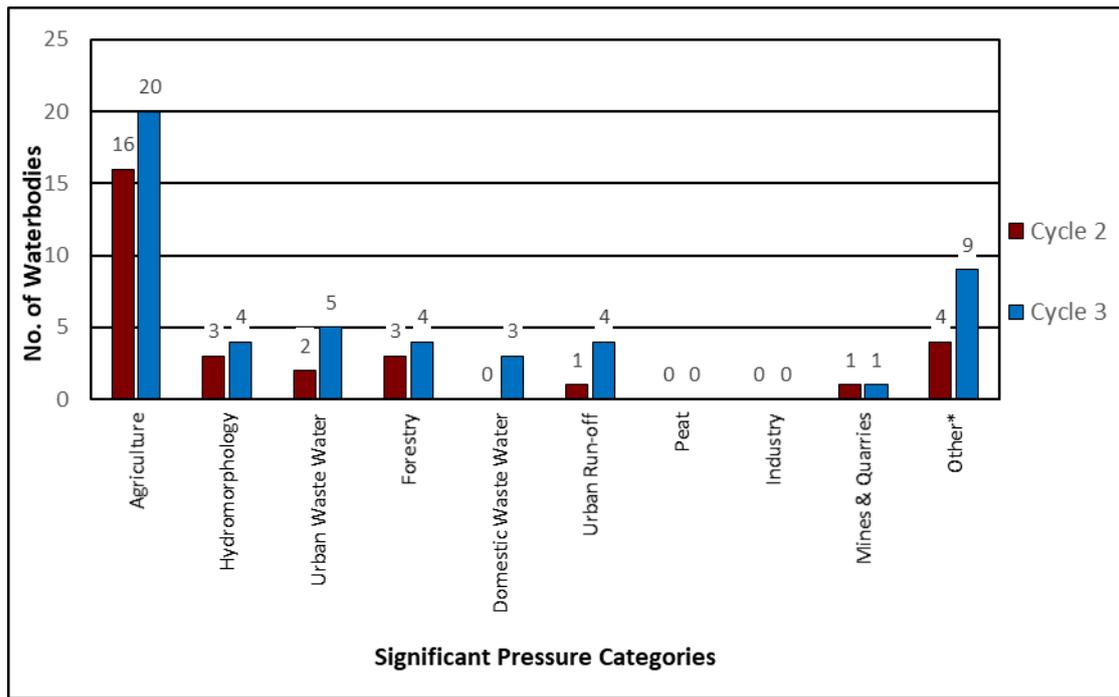
Figure 13: Significant Issues in *At Risk* High Status Objective Waterbodies

## 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 other<sup>6</sup>, urban waste water, forestry, hydromorphology, urban run-off, domestic waste water and mines & quarries.
- ◆ When comparing Cycle 2 and Cycle 3 the biggest change is an increase of four waterbodies where agriculture is a significant pressure, from 16 waterbodies in Cycle 2 to 20 waterbodies in Cycle 3. This suggests that agricultural pressures are the main reason for the overall decline in status of waterbodies since Cycle 2. However, all other significant pressure categories have experienced an increase with the expectation of mines & quarries which remained at one.

<sup>6</sup> 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



\*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 nine river waterbodies, one lake waterbody (Abisdealy), seven transitional waterbodies, two coastal waterbodies (Clonakilty Bay & Rosscarberry Bay) and Ballinhassig East groundwater body in Cycle 3. The issues related to farming in this catchment are generally related to loss of phosphorus and ammonia loss to surface waters from, for example, direct discharges; or runoff from yards, roadways or other compacted surfaces, or runoff from poorly draining soils on pastoral lands. 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

- ◆ *Invasive species*  
Invasive non-native (montbretia and non-native pine) plant species were identified during the 2018 as one of the significant pressures along the banks of the Leamawaddra\_010 river waterbody. These invasive species are altering habitats and contributing to the less than High hydromorphological conditions and preventing the waterbody from achieving its High Status Objective.
- ◆ *Other Anthropogenic Pressure – Windfarms*  
Siltation from construction activities associated with a windfarm was identified as the pressure leading to sediment issues in Caha\_020.
- ◆ *Unknown anthropogenic*  
The significant pressures impacting five river waterbodies (Bandon\_060, Bandon\_090, Bandon\_100, Ballinspittle\_010 & Clonakilty Stream\_010), one lake waterbody (Curraghally) and one groundwater body (Ballinhassig East) are unknown.

### 5.1.1.3 Urban waste water

- ◆ Urban waste water agglomerations have been identified as a significant pressure in five *At Risk* river waterbodies (
- ◆ Table 5). Two out of the five agglomeration (Courtmacsherry and Timoleague and Bandon) identified as significant pressures, are scheduled to be upgraded in 2021.

Table 5: 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 <sup>7</sup>
Courtmacsherry and Timoleague D0294	Agglomeration PE > 10,000	Argideen Estuary	Poor	2021
Skibbereen D0166	Combined Sewer Overflows	Ilen Estuary	Moderate	N/A
Dunmanway D0160	Combined Sewer Overflows	BANDON_030	Moderate	N/A
Bandon D0136	Combined Sewer Overflows	BANDON_090	Moderate	2021
Bandon D0136	Combined Sewer Overflows	BANDON_100	Moderate	2021

- ◆ Urban waste water significant pressures impacted three more waterbodies than in Cycle 2 (an increase from two to five waterbodies impacted). The following Agglomerations are pressures in Cycle 3 but were not significant pressures in Cycle 2.
  - Dunmanway (D0160)
  - Bandon (D0135)

### 5.1.1.4 Forestry

- ◆ Forestry is a significant pressure in three river waterbodies (Blackwater (Bandon)\_010, Caha\_020 & Diny\_010) and one lake waterbody (Coolkellure) in Cycle 3. The issues are a range of forestry activities taking place particularly clearfelling and drainage, which have resulted in heavy siltation and altered habitats due to hydrological changes in surface water bodies. Nutrients issues in the Coolkellure lake water body have been attributed to forestry pressures.

### 5.1.1.5 Hydromorphology

- ◆ Hydromorphology is a significant in three river waterbodies (Ballymahane\_010, Caha\_020 & Leamawaddra\_010) and one lake waterbody (Ballin CK) in Cycle 3. Channelisation is impacting Ballymahane\_010. Land drainage is impacting Caha\_020. Overgrazing is impacting on Leamawaddra\_010 river waterbody, altering habitat due to morphological changes and sediment issues. A weir present at the outlet of Ballin CK lake waterbody is restricting flows out of the lake and is deemed to be altering habitat due to hydrological changes.

### 5.1.1.6 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 three river waterbodies (Bandon\_090, Bandon\_100 & Clonakilty Stream\_010) and one transitional waterbody (Ilen

---

<sup>7</sup> Based on Irish Water's Capital Investment Programme (2020-2024) as of February 2021 and may be subject to change.

Estuary) impacted by bandon, Clonakilty and Skibbereen urban areas. Nutrient and organic pollution are the significant issues.

#### **5.1.1.7 Domestic waste water**

- ◆ Domestic waste water has been identified as a significant pressure in two river waterbodies (Bandon\_090, Bandon\_100) and Ballinhassig East groundwater body. This is due to a concentration of domestic waste water treatment systems in close proximity to the water bodies. The significant issue is excess nutrients entering surface waters. Castlewoods DPI site was identified as the communal domestic waste water system deemed a significant pressure in the bandon\_090 and contributing to nutrient and organic loads in the downstream Bandon\_100.

#### **5.1.1.8 Mines & Quarries**

- ◆ Cork County Council reported that there are two quarries (unnamed) that do not have section 4 licences. The quarries are listed as significant pressures on the Caha\_020 river waterbody with altered habitats due to morphological changes as the impact.

Figure 15 – Figure 19 illustrates the locations of waterbodies for the five most common pressures in order of prevalence (agriculture, urban waste water, hydromorphology, forestry and urban run-off) within the catchment in Cycle 3.

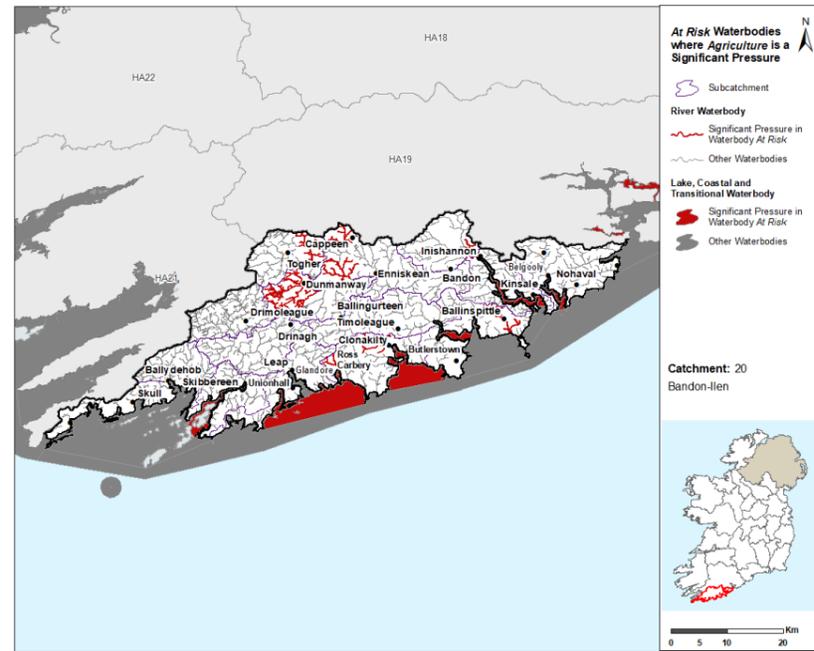


Figure 15: Locations of Waterbodies where Agriculture is a Significant Pressure

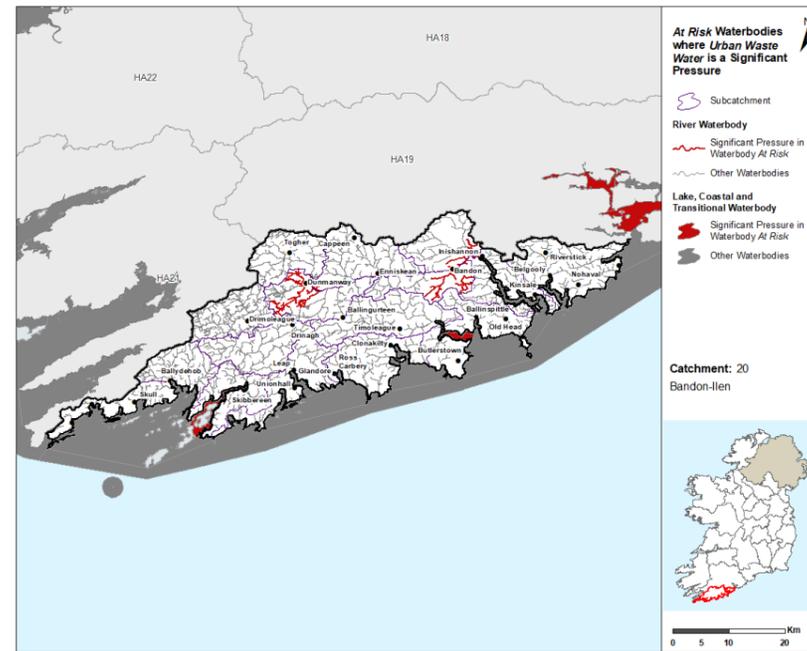


Figure 16: Locations of Waterbodies where Urban Waste Water is a Significant Pressure

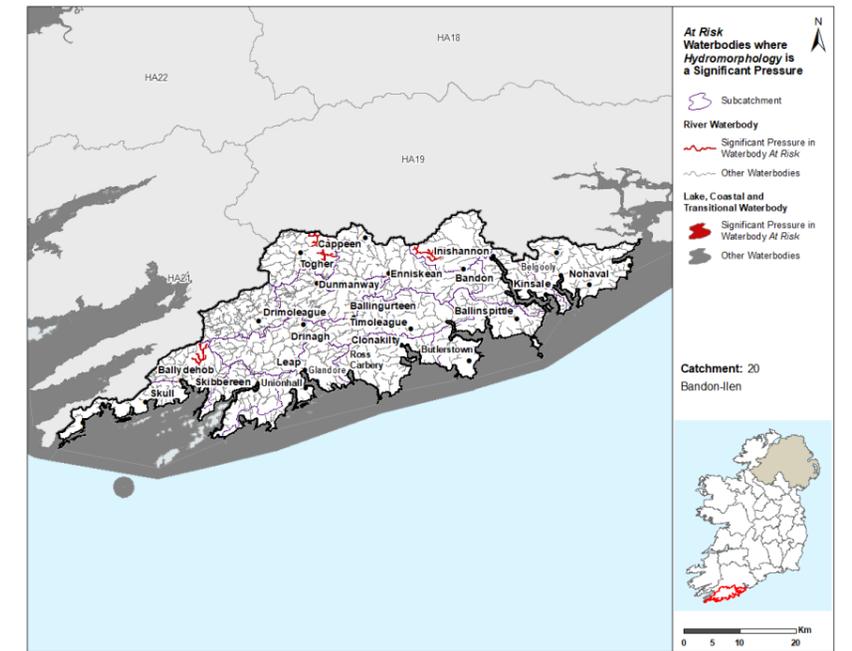


Figure 17: Locations of Waterbodies where Hydromorphology is a Significant Pressure

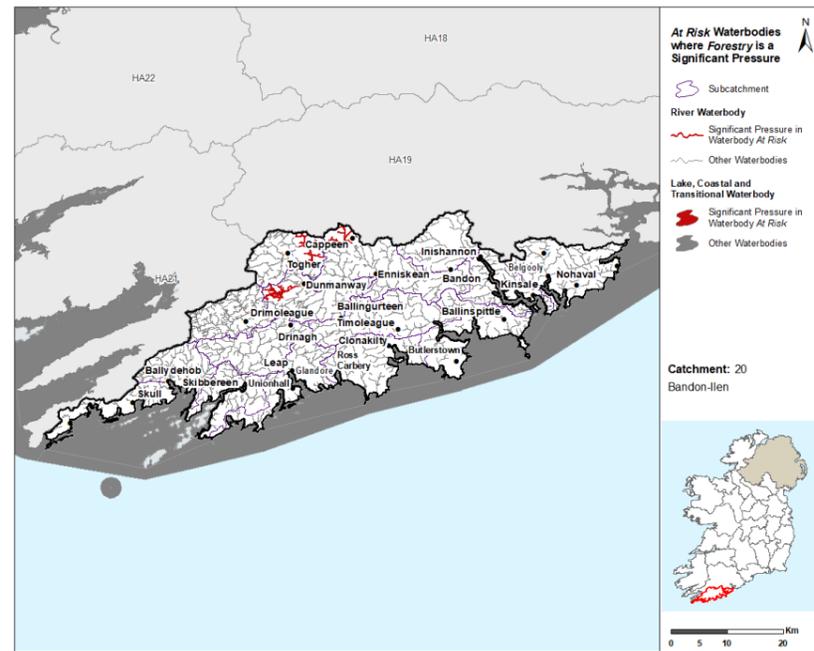


Figure 18: Locations of Waterbodies where Forestry is a Significant Pressure

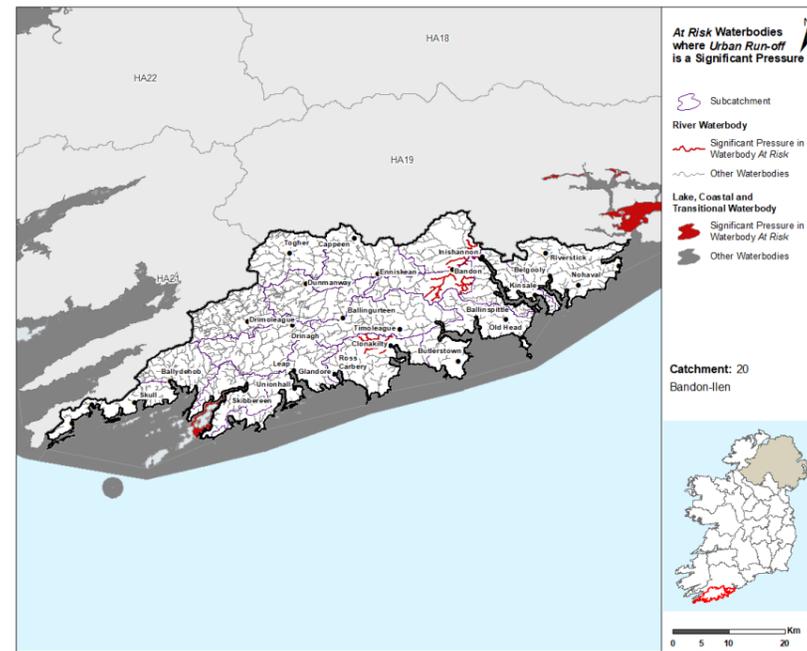
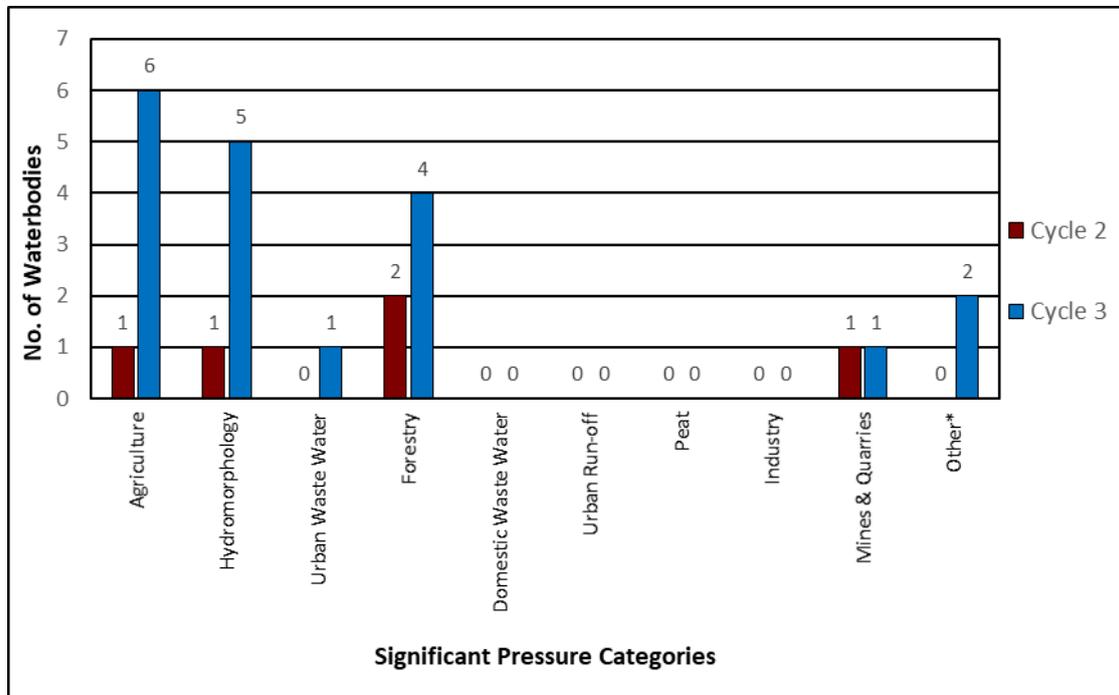


Figure 19: Locations of Waterbodies where Urban Run-off is a Significant Pressure

## 5.2 High Status Objective Waterbodies

- ◆ Hydromorphological pressures are the main significant pressure in High Status Objective waterbodies, identified in three out of the four *At Risk*, High Status Objective waterbodies. Agricultural pressures are impacting two waterbodies, forestry and mines & quarries are each impacting one waterbody.



\*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 20: 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 90% and 7% of the nitrogen load respectively while land in pasture contributes 26% and discharges from urban waste water, IPPC discharges and other Licenced discharges each contribute 19% of the phosphorus loadings for the catchment (Figure 17).

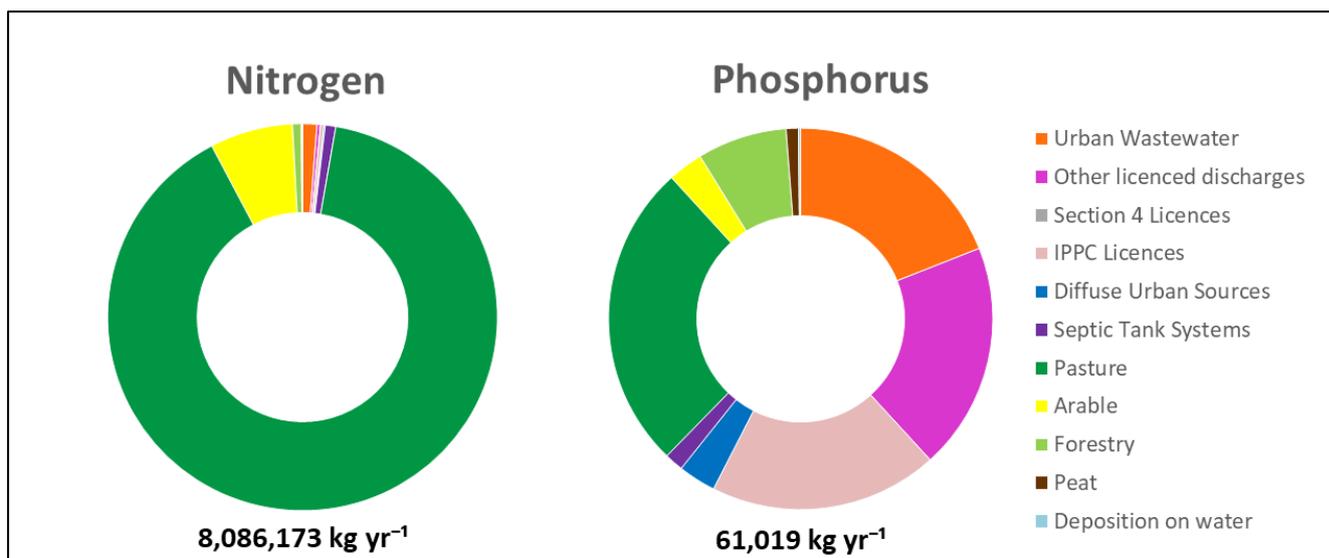


Figure 21: Estimated Proportions of N & P from Each Sector in the Bandon Ilen Catchment

## 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 Bandon Ilen 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 90% pasture, 7% arable, 1% Urban waste water and 2% 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 22 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.

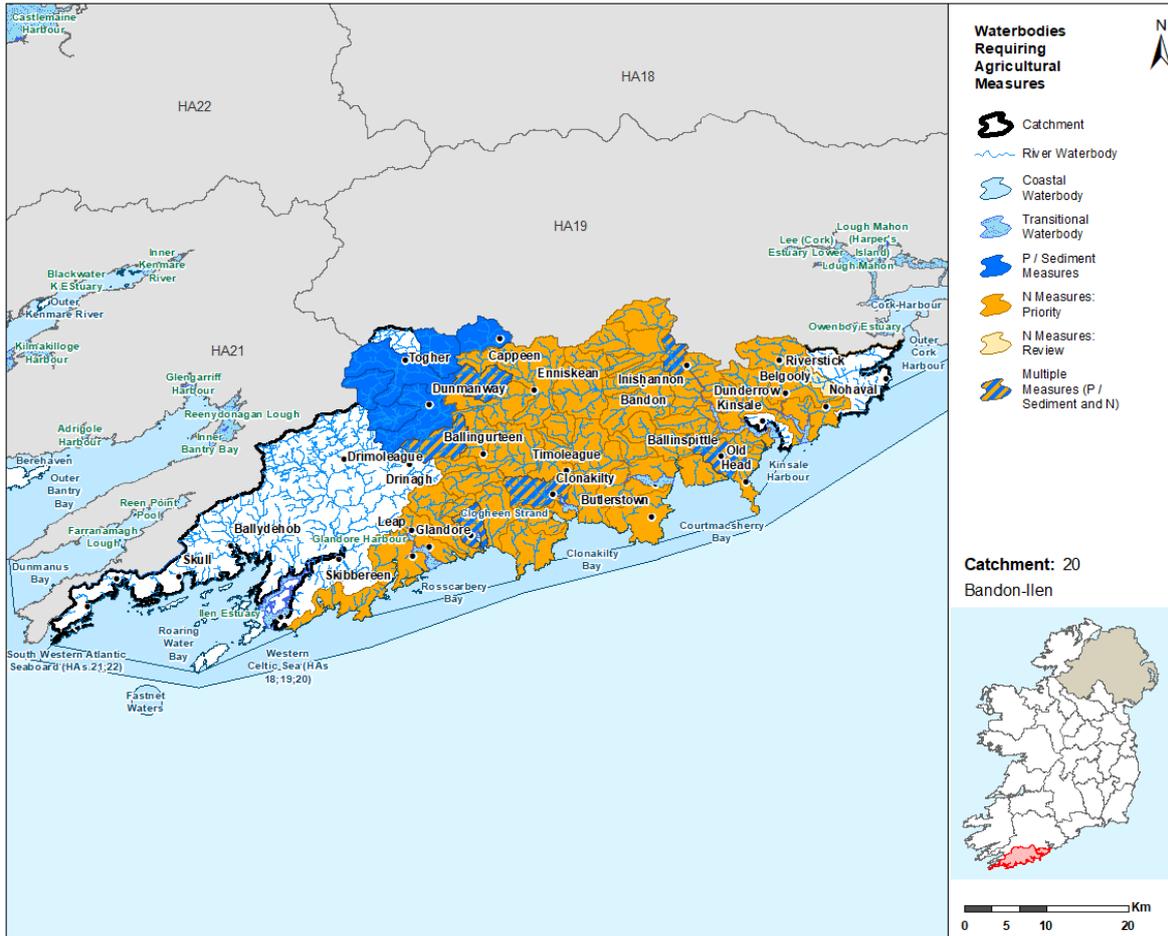


Figure 22: Waterbodies where Agricultural Measures should be Targeted

## 8 2<sup>nd</sup> Cycle Areas for Action

### 8.1 Area for Action Overview

- ◆ There were five Areas for Action, comprising of 16 waterbodies, selected for further characterisation and action in the catchment for the 2<sup>nd</sup> Cycle River Basin Management Plan. The Areas for Action in the catchment are listed in Table 6 and shown in Figure 23. LAWPRO, in conjunction with local authorities and stakeholders from the South-western Regional Operational Committee, have been working in these areas since 2018.

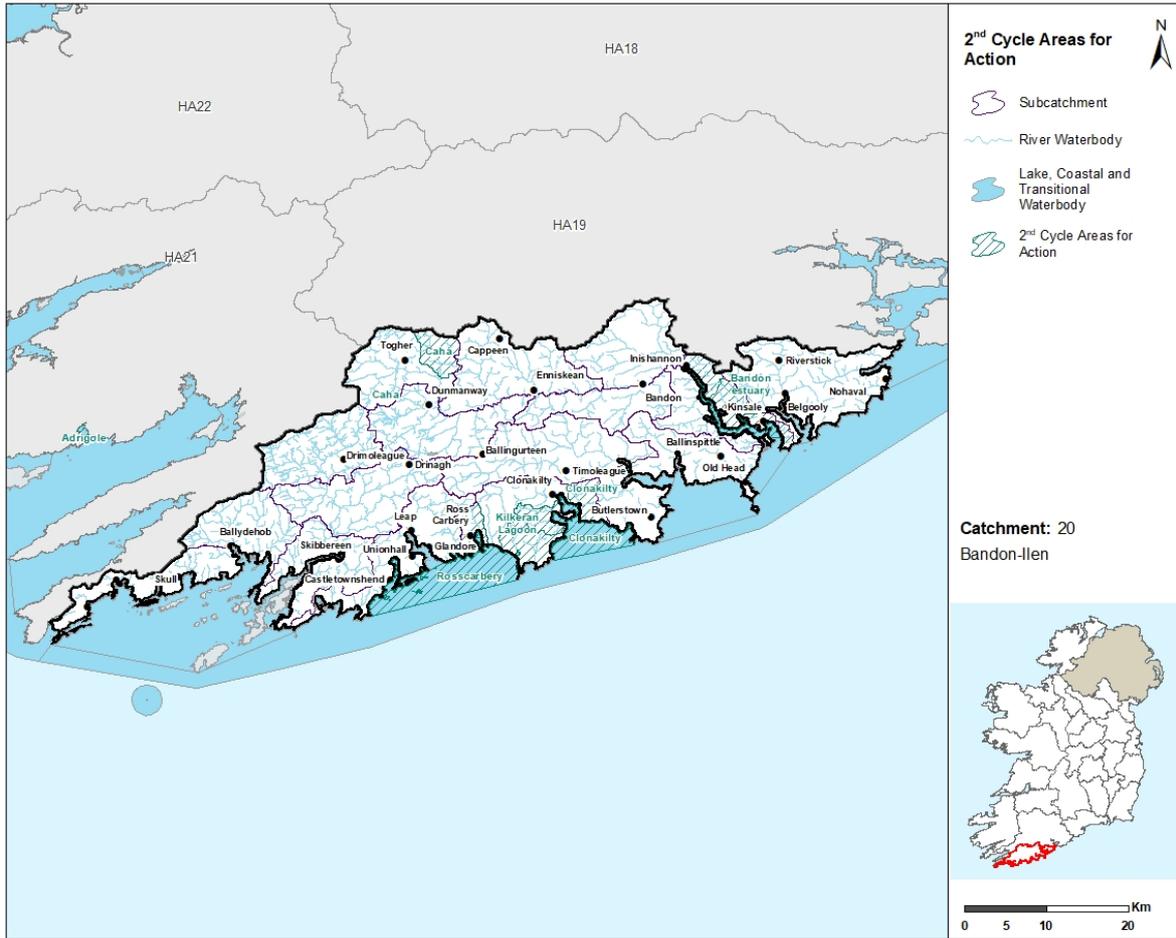


Figure 23: 2<sup>nd</sup> Cycle Areas for Action Locations

Table 6: 2<sup>nd</sup> Cycle Areas for Action

2 <sup>nd</sup> Cycle Area for Action	Number of Waterbodies	Sub-catchment	Local Authority	Reason for Selection
<b>Kilkieran Lagoon</b>	2	20_11	Cork	<ul style="list-style-type: none"> <li>• Failing to meet protected area objectives for a Natura habitat (1150 coastal lagoon).</li> <li>• Active community group linked to heritage issues</li> <li>• Manageable area</li> <li>• High amenity area.</li> </ul>
<b>Clonakilty</b>	4	20_11	Cork	<ul style="list-style-type: none"> <li>• Potential estuary project</li> <li>• Building on proposed improvements for WWTP.</li> <li>• Small catchment discharging into estuary.</li> <li>• Headwaters flowing into Clonakilty harbour.</li> <li>• The coastal waterbody is failing to meet protected area objectives for bathing water.</li> <li>• One deteriorated waterbody.</li> </ul>
<b>Bandon estuary</b>	5	20_13	Cork	<ul style="list-style-type: none"> <li>• Potential estuary project.</li> <li>• Lower Bandon estuary is failing to meet protected area objectives for Shellfish (Kinsale).</li> <li>• Building on proposed improvements at Bandon and Innishannon WWTP.</li> <li>• Headwater streams to Bandon estuary.</li> </ul>
<b>Caha</b>	2	20_6	Cork	<ul style="list-style-type: none"> <li>• Failing to meet protected area objectives for Freshwater Pearl Mussel (19 of 27 catchments of</li> </ul>

2 <sup>nd</sup> Cycle Area for Action	Number of Waterbodies	Sub-catchment	Local Authority	Reason for Selection
				S.I. 296 2009). <ul style="list-style-type: none"> <li>• Bandon rivers trust in the area.</li> <li>• Deteriorated HES objective waterbody.</li> </ul>
<b>Rosscarbery</b>	3	20_11	Cork	<ul style="list-style-type: none"> <li>• Rosscarbery harbour is unassigned but algal blooms have increased in size and frequency.</li> <li>• Building on proposed improvements at Cortmascherry and Timoleague WWTP</li> <li>• Headwater streams flowing directly into Rosscarbery Harbour and Bay.</li> </ul>

## 8.2 Status Change in 2<sup>nd</sup> Cycle Areas for Action

- ◆ For Cycle 3, of the 16 waterbodies in the 2<sup>nd</sup> Cycle Areas for Action, there are three waterbodies at Good Status (Caha\_020, Carhoo\_010 & Clonakilty Bay), three waterbodies at Moderate Status (Tinneel Stream\_010, Coolkellure lake waterbody & Lower Bandon Estuary), two waterbodies at Poor Status (Clonakilty Harbour coastal waterbody & Upper Bandon Estuary), one waterbody at Bad Status (Kilkeran Lake) and seven waterbodies where status has not been assigned.
- ◆ There is an overall decline in the status of one 2<sup>nd</sup> cycle Areas for Action waterbody (two improvements and three declines) across the catchment.<sup>8</sup>
- ◆ Of the nine waterbodies within the 2<sup>nd</sup> Cycle Areas for Action which had status assigned, four experienced no change in status between Cycle 2 and Cycle 3, two waterbodies (Carhoo\_010 & Clonakilty Bay) experienced an improvement and three waterbodies (Upper Bandon Estuary, Clonakilty Harbour & Kilkeran Lake) were subject to deterioration in status (Figure 24). The two waterbody improvements were in the Clonakilty Area for Action. The waterbodies which experienced decline were in Bandon estuary, Clonakilty and Kilkeran Lagoon Areas for Action.

---

<sup>8</sup> 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.

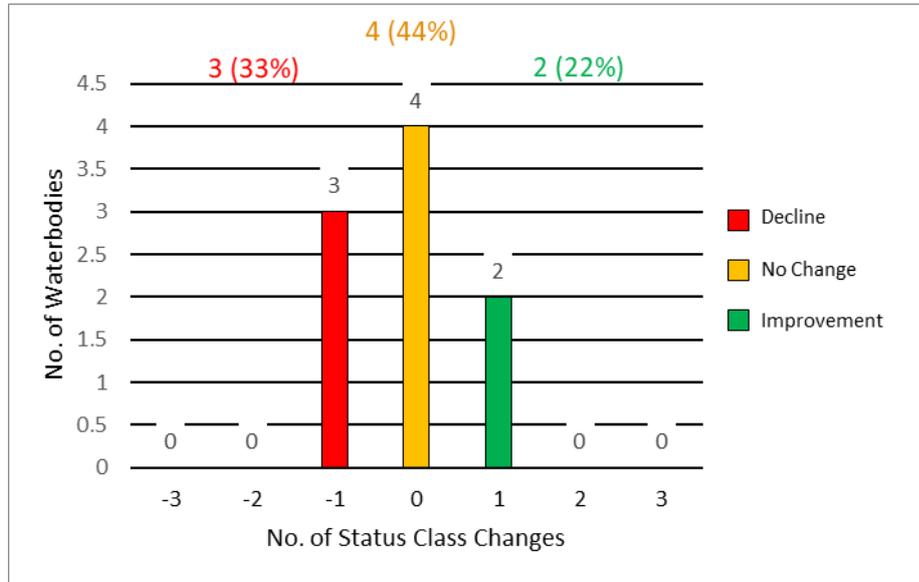


Figure 24: 2<sup>nd</sup> Cycle Area for Action Waterbody Status Class Changes between Cycle 2 and Cycle 3

### 8.3 Waterbody Risk in 2<sup>nd</sup> Cycle Areas for Action

- ◆ For the 16 waterbodies in the 2<sup>nd</sup> Cycle Areas for Action, nine (56%) of these are *At Risk*, six (38%) in *Review* and one (6%) is *Not At Risk*.
- ◆ Of the eight river waterbodies in 2<sup>nd</sup> Cycle Areas for Action, two (25%) are *At Risk*, five (63%) are in *Review* and one (13%) is *Not At Risk*. Caha\_020 and Tinneel Stream\_010 are the *At Risk* river waterbodies.
- ◆ The only lake waterbody (Coolkellure) in a Cycle 2 Area for Action is *At Risk*.
- ◆ Of the five transitional waterbodies in 2<sup>nd</sup> Cycle Areas for Action, four (80%) are *At Risk* and one (20%) is in *Review*. Lower Bandon Estuary, Upper Bandon Estuary, Clonakilty Harbour & Rosscarbery Harbour are the *At Risk* transitional waterbodies.
- ◆ Both of the coastal waterbodies (Clonakilty Bay & Rosscarbery) Bay in 2<sup>nd</sup> Cycle Areas for Action are *At Risk*.
- ◆ Figure 25 gives an overview of the breakdown of risk across waterbody types for both Cycle 2 and Cycle 3 in 2<sup>nd</sup> Cycle Areas for Action.
- ◆ Overall there is a decrease from 10 to nine *At Risk* waterbodies in 2<sup>nd</sup> Cycle Areas for Action between Cycle 2 and Cycle 3. Carhoo\_010 river waterbody improved to *Not At Risk*.

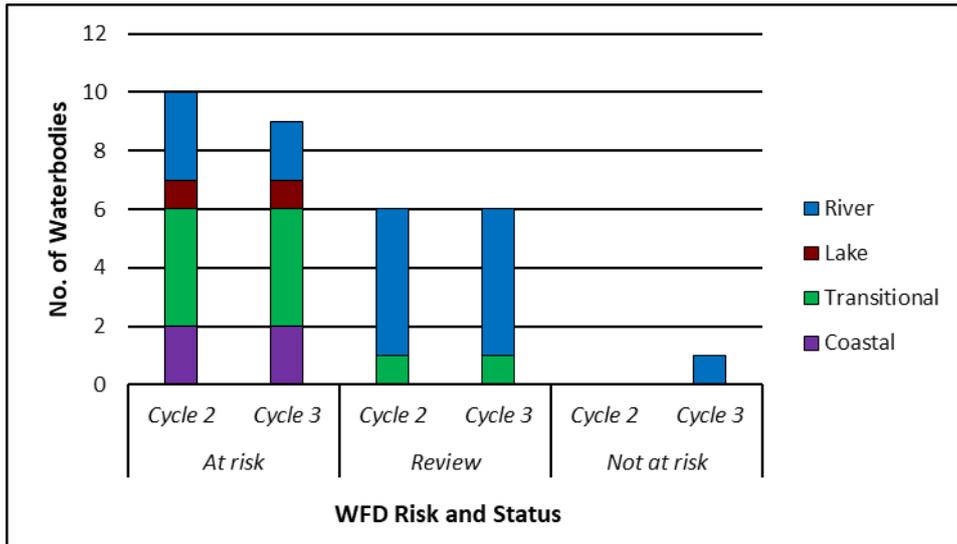
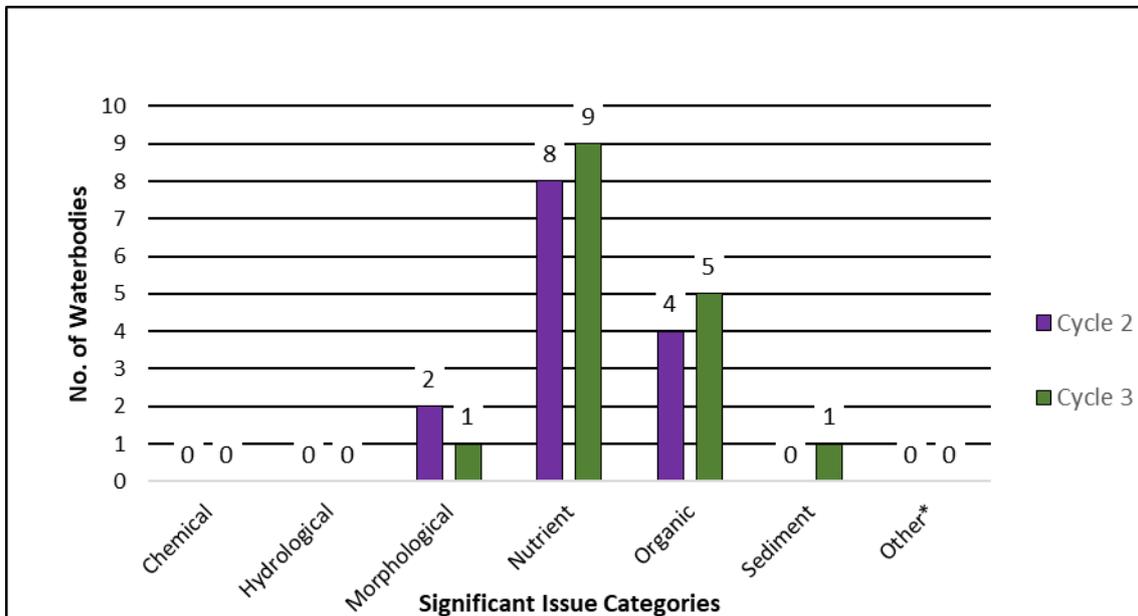


Figure 25: Number of waterbodies in each risk category in 2<sup>nd</sup> Cycle Areas for Action

#### 8.4 Significant Issues in 2<sup>nd</sup> Cycle Areas for Action

- ◆ Based on the EPA assessment for Cycle 3, the significant issue in the 2<sup>nd</sup> Cycle Areas for Action is nutrient pollution, impacting nine waterbodies (Figure 26). This is followed by organic pollution which is impacting five waterbodies, sediment impacting one waterbody (Caha\_020) and morphological impacts, impacting one waterbody (Caha\_020).
- ◆ The number of 2<sup>nd</sup> Cycle Areas for Action waterbodies associated with morphological significant issues have reduced by one, from two to one between Cycle 2 and Cycle 3. The number of waterbodies impacted by nutrient pollution, organic pollution and sediment issues have each increased by one since Cycle 2.

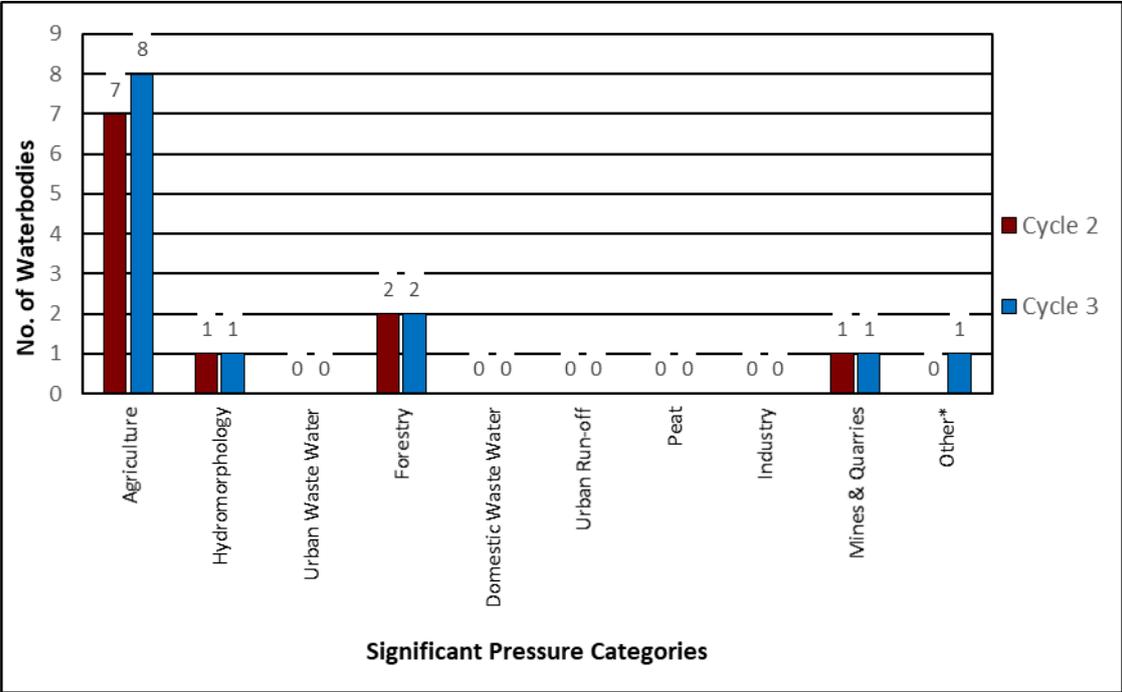


\*Other - Acidification, saline intrusion, elevated temperature, litter, microbiological pollution and unknown impacts have all been grouped into the "Other" issues category for the purpose of this report

Figure 26: Significant Issues across all 2<sup>nd</sup> Cycle Areas for Action Waterbodies

### 8.5 Significant Pressure in 2<sup>nd</sup> Cycle Areas for Action

- ◆ For Cycle 3, in 2<sup>nd</sup> Cycle Areas for Action waterbodies in the catchment the dominant significant pressures are:
  - Agriculture – eight waterbodies are impacted in Cycle 3, an increase of from seven waterbodies in Cycle 2.
  - Forestry – two waterbodies (Caha\_020 & Coolkellure) remain impacted in Cycle 3.
  - Hydromorphology – one waterbody (Caha\_020) remains impacted in Cycle 3.
  - Mines & quarries – one waterbody (Caha\_020) remains impacted in Cycle 3.
  - Other – In Caha\_020 there is also an unknown additional pressure contributing to the sediment load which was not identified in Cycle 2.
  
- ◆ When comparing the significant pressures in the 2<sup>nd</sup> Cycle Areas for Action between Cycle 2 and 3 there has been no change in the number of waterbodies affected by each significant pressure category in the catchment with the exception of agriculture and unknown anthropogenic pressure type which each increase by one waterbody.



\*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 27: Significant Pressures in 2<sup>nd</sup> Cycle Area for Action Waterbodies

## 9 3<sup>rd</sup> Cycle Recommended Areas for Action

### 9.1 Recommended Areas for Action Overview

- ◆ For the 3<sup>rd</sup> 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 3<sup>rd</sup> Cycle Plan is to capture all activity that is working to restore, improve and/or protect waterbodies.

- ◆ There are 14 Recommended Areas for Action, comprising of 39 waterbodies, selected for further characterisation and action in the catchment for the 3<sup>rd</sup> Cycle River Basin Management Plan. 21 of the 39 waterbodies in the 3<sup>rd</sup> Cycle Recommended Areas for Action are *At Risk*, nine are in *Review* and nine are *Not At Risk*. The 14 Recommended Areas for Action consist of one Area for Protection, 12 Areas for Restoration and one Catchment Project. LAWPRO are the proposed lead organisation in five Recommended Areas for Action, Cork County Council are the proposed lead in Recommended Areas for Action and IFI are the proposed lead in the remaining Recommended Area for Action (Ilenn). The Recommended Areas for Action in the catchment are listed in Table 7 and shown in Figure 28. The reason for selecting each waterbody in a Recommended Area for Action is provided in Appendix 3.

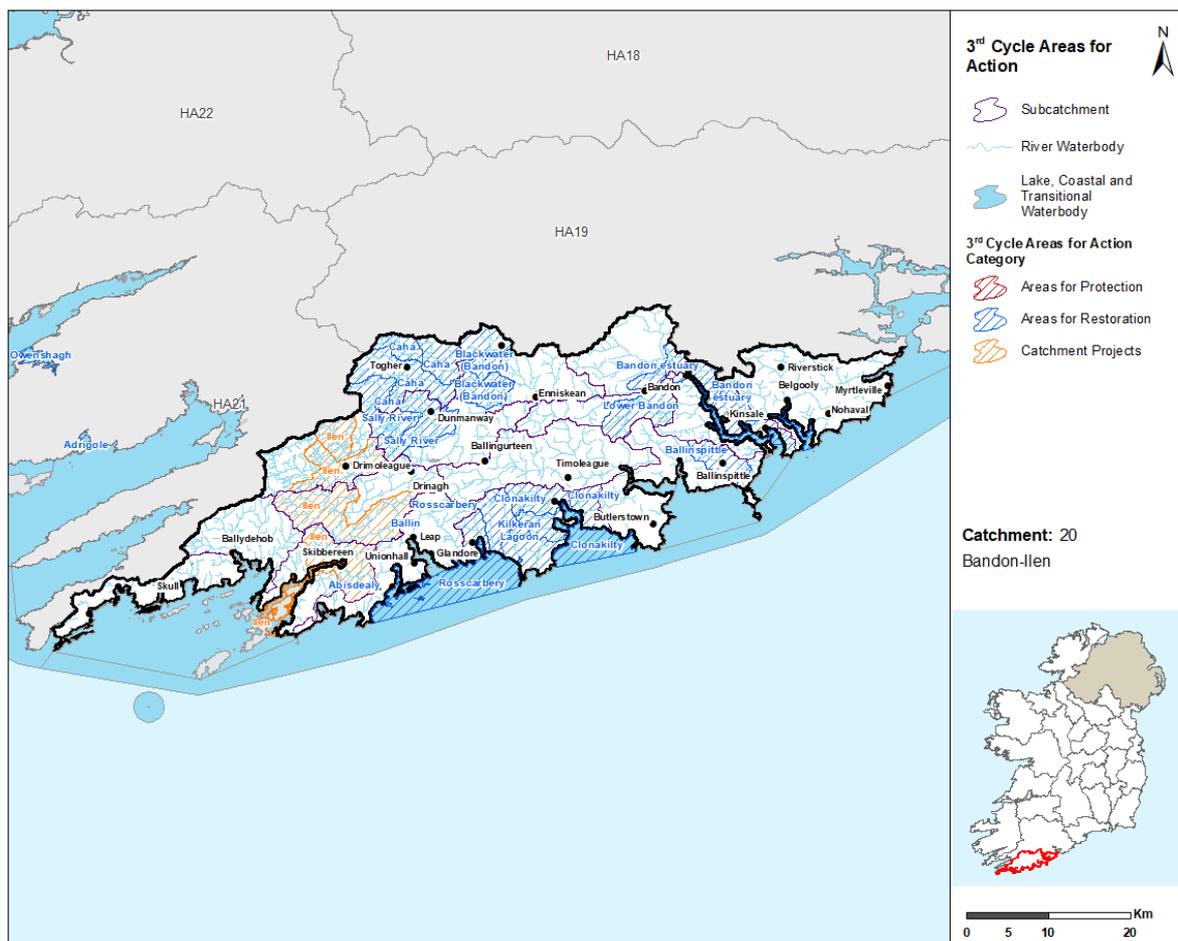


Figure 28: 3<sup>rd</sup> Cycle Recommended Areas for Action Locations

Table 7: 3<sup>rd</sup> 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
Caha	5	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Sally River	2	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Lower Bandon	2	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
Blackwater (Bandon)	3	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Ballinspittle	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Clonakilty	5	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Bandon estuary	5	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Kilkeran Lagoon	2	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Ilen	5	Catchment Projects	Public Body Research	IFI
Rosscarbery	4	Restoration	Prioritised Areas for Action LAWPRO	LAWPRO
Abisdealy	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Ballin	1	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Oysterhaven	2	Restoration	LA Areas for Restoration Local Authorities	Cork County Council
Lissagriffin Lake	1	Protection	LA Areas for Protection Local Authorities	Cork County Council

## 10 Catchment Summary

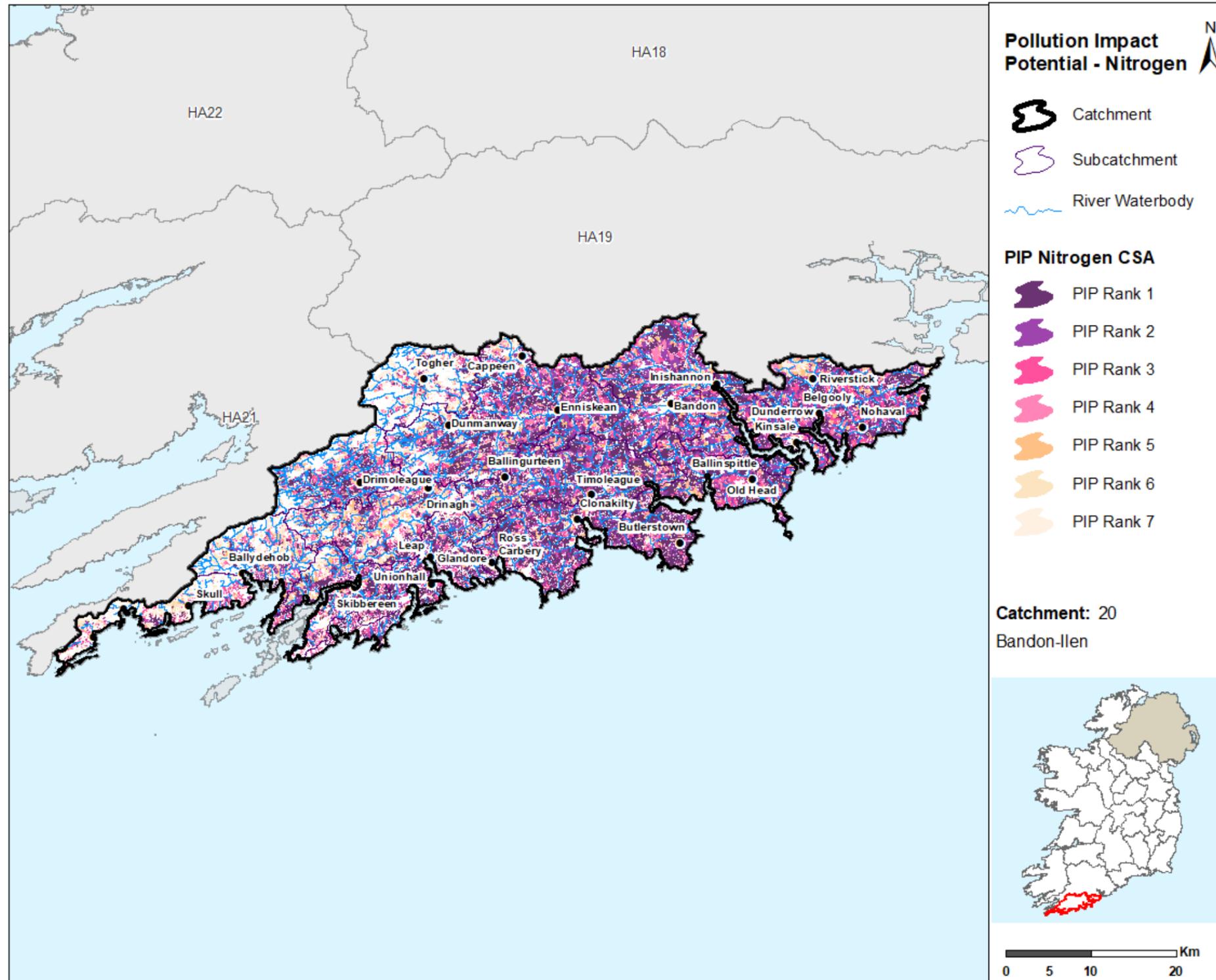
- Of the 87 river waterbodies, 13 are *At Risk* of not meeting their WFD objectives.
- Four out of six lake waterbodies are *At Risk* of not meeting their WFD objectives.
- Seven out of 11 transitional waterbodies in the catchment are *At Risk* and are impacted by eutrophication. Agriculture is the significant pressure.
- Two out of 15 coastal waterbodies are *At Risk* of not meeting their WFD objectives.
- One out of nine groundwater bodies is *At Risk*.
- There has been a slight deterioration across the catchment with 27 waterbodies *At Risk* in Cycle 3 compared to 26 waterbodies *At Risk* in Cycle 2.
- The main significant issues are impacts from nutrient pollution, followed by sediment, organic pollution and morphological impacts.
- The main significant pressures are agricultural pressures followed by urban waste water, forestry and hydromorphological pressures and urban run-off.
- Between Cycle 2 and Cycle 3 there was an increase in the number of waterbodies in all significant pressure categories with the exception of mines & quarries which remains the same.
- In the 2<sup>nd</sup> Cycle Areas for Action, 10 waterbodies were *At Risk* in Cycle 2 and nine waterbodies are *At Risk* in Cycle 3. Carhoo\_010 changed from *At Risk* to *Not at Risk*. Hydromorphology (channelization) was a significant pressure in Cycle 2 but is no longer a significant pressure in Cycle 3.
- There are 14 3<sup>rd</sup> Cycle Recommended Areas for Action for Cycle 3. They comprise of 39 waterbodies with 21 waterbodies *At Risk*, nine in *Review* and nine *Not At Risk*.

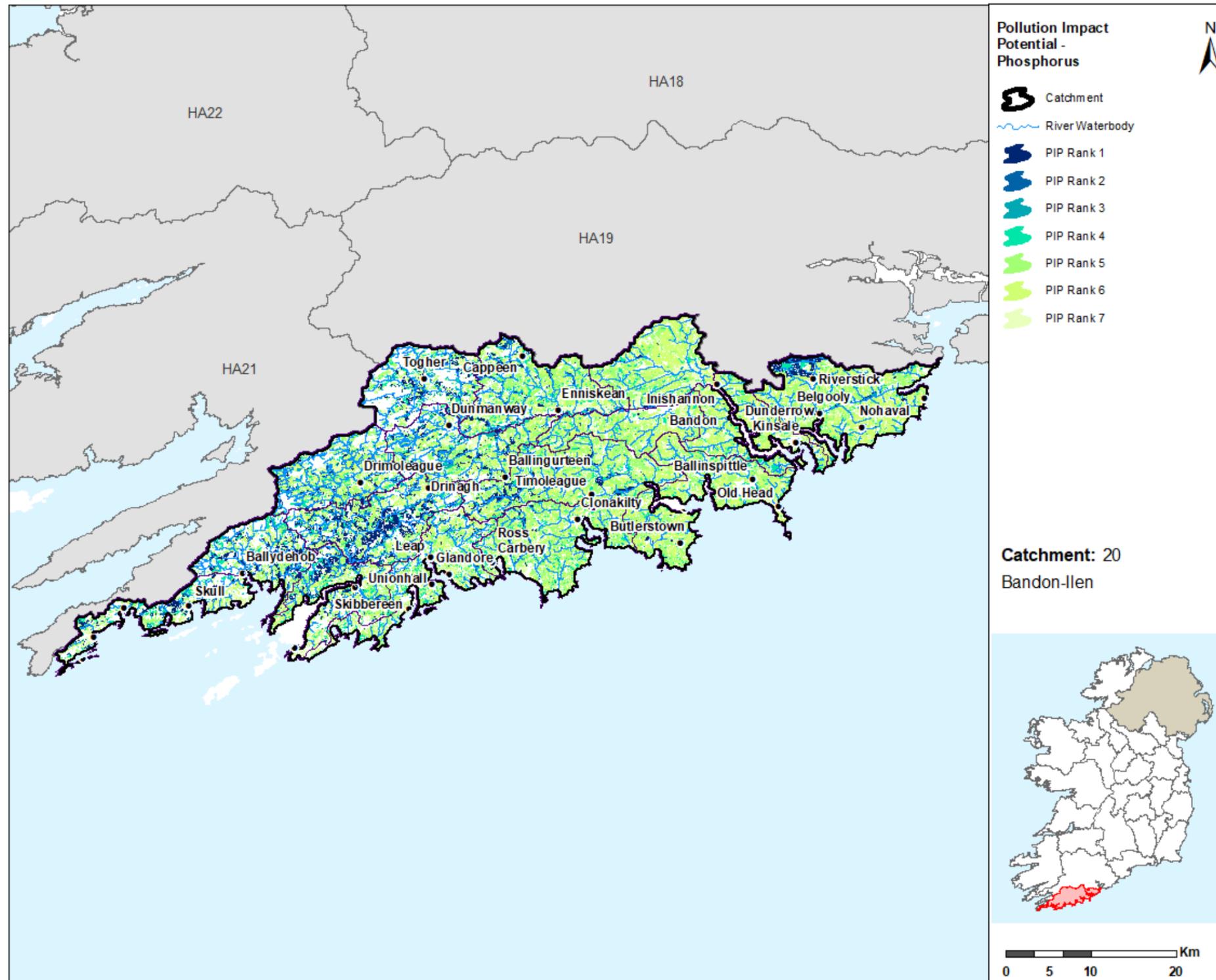
## Appendix 1

### High ecological status objective waterbodies

Waterbody Name	Waterbody Type	Waterbody Code	Status 2013-2018
BALLYMAHANE_010	River	IE_SW_20B010700	Good
BLACKWATER (BANDON)_030	River	IE_SW_20B040800	Good
BRINNY_020	River	IE_SW_20B070100	High
CAHA_010	River	IE_SW_20C010400	High
CAHA_020	River	IE_SW_20C010700	Good
GLASHAGLORAGH (CORK)_010	River	IE_SW_20G020400	High
ILEN_030	River	IE_SW_20I010300	High
LEAMAWADDRA_010	River	IE_SW_20L010200	Good
LEAMAWADDRA_020	River	IE_SW_20L010400	High
OWENNASHINGAUN_010	River	IE_SW_20O020200	High
OWENNASHINGAUN_020	River	IE_SW_20O020700	High

## Appendix 2 Pollution Impact Potential Mapping





## Appendix 3

### Summary information on all waterbodies in the Bandon Ilen 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)
20_12	IE_SW_20A020045	ARGIDEEN_010	River	Not at risk	Not at risk	Good	Good	No			
20_12	IE_SW_20A020060	ARGIDEEN_020	River	Not at risk	Not at risk	Good	Good	No			
20_12	IE_SW_20A020100	ARGIDEEN_030	River	Not at risk	Not at risk	Good	Good	No			
20_12	IE_SW_20A020200	ARGIDEEN_040	River	Not at risk	Not at risk	Good	Good	No			
20_4	IE_SW_20A300900	ARTITEIGE_010	River	Review	Review	Unassigned	Unassigned	No			
20_3	IE_SW_20A360930	ARDUSLOUGH_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_15	IE_SW_20A430910	Ardgehane_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_5	IE_SW_20B010700	BALLYMAHANE_010	River	At risk	At risk	Good	Good	Yes	Hymo		
20_5	IE_SW_20B011000	BALLYMAHANE_020	River	Not at risk	Not at risk	Good	Good	No			
20_6	IE_SW_20B020050	BANDON_010	River	Not at risk	Not at risk	Good	Good	No		Caha	Expand PAA under SC approach for 20_6
20_6	IE_SW_20B020200	BANDON_020	River	Not at risk	Not at risk	Good	Good	No		Caha	Connects waterbodies identified for restoration/protection. Expand PAA
20_10, 20_8	IE_SW_20B020300	BANDON_030	River	Not at risk	At risk	Good	Moderate	No	Ag, UWW	Sally River	At Risk waterbody failing to meet its WFD objective. Multiple pressures including urban, forestry, agriculture and hydromorphology (areas of land reclamation/improvement are evident in catchment). Also wind farm and sand/gravel pit. Builds on existing work of CCC.
20_10, 20_8	IE_SW_20B020400	BANDON_040	River	Not at risk	Not at risk	Good	Good	No			
20_10, 20_8	IE_SW_20B020550	BANDON_050	River	Review	Review	Good	Good	No			
20_10, 20_2	IE_SW_20B020600	BANDON_060	River	At risk	At risk	Moderate	Moderate	No	Other		
20_10, 20_2	IE_SW_20B020700	BANDON_070	River	Not at risk	Not at risk	Good	Good	No			
20_2, 20_5	IE_SW_20B020780	BANDON_080	River	Not at risk	Review	Unassigned	Unassigned	No			
20_2, 20_5	IE_SW_20B020800	BANDON_090	River	Review	At risk	Good	Moderate	No	DWW, Other, UR, UWW	Lower Bandon	Review status waterbody which is failing to meet its WFD objective. Level 1 abstraction catchment. Builds on existing work of CCC. Potential pressures from Bandon WWTP, & AIBP Bandon discharge, Major flood relief works, Intensive dairy & tillage catchment.
20_13, 20_5	IE_SW_20B020900	BANDON_100	River	Review	At risk	Good	Moderate	No	Ag, DWW, Other, UR, UWW	Lower Bandon	Review status waterbody which is failing to meet its WFD objective. Builds on existing work of CCC. Multiple pressures including licensed discharges and major flood relief works. Intensive agriculture in the Brinny catchment. Secondary pressure also suspected.

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)
20_17	IE_SW_20B030200	BAWNAKNOCKANE_010	River	Not at risk	Not at risk	Good	Good	No			
20_10	IE_SW_20B040300	BLACKWATER (BANDON)_010	River	Not at risk	At risk	Good	Moderate	No	Ag, For	Blackwater (Bandon)	Proposed by Cork Co Co as lead. Builds on their existing work programme
20_10	IE_SW_20B040600	BLACKWATER (BANDON)_020	River	Not at risk	Not at risk	Good	Good	No		Blackwater (Bandon)	Proposed by Cork Co Co as lead. Builds on their existing work programme
20_10	IE_SW_20B040800	BLACKWATER (BANDON)_030	River	At risk	At risk	Good	Good	Yes	Ag	Blackwater (Bandon)	Proposed by Cork Co Co as lead. Builds on their existing work programme
20_5	IE_SW_20B070070	BRINNY_010	River	Not at risk	Not at risk	Good	Good	No			
20_5	IE_SW_20B070100	BRINNY_020	River	Not at risk	Not at risk	High	High	Yes			
20_8	IE_SW_20B080800	BEALANASCARTANE_010	River	At risk	Review	Moderate	Moderate	No			
20_4	IE_SW_20B090100	BALLINSPIITTE_010	River	Review	At risk	Good	Moderate	No	Ag, Other	Ballinspittle	Review status waterbody, failing to meet WFD objectives Blue flag identified bathing waters downstream is in an SPA with the lower catchment in a proposed natural heritage area. Multiple pressures including agriculture (intensive dairy & tillage), COA, construction works in recent years in village and small area of coillte forestry in catchment. Nutrient and sediment issues noted by EPA biologist. May be a rainfall driven catchment so pathways need to be broken or NMP's required.
20_12	IE_SW_20B100200	BURRANE_010	River	Not at risk	Not at risk	Good	Good	No			
20_1	IE_SW_20B940880	BARRERAGH_010	River	Review	Review	Unassigned	Unassigned	No			
20_6	IE_SW_20C010400	CAHA_010	River	Not at risk	Not at risk	High	High	Yes		Caha	HSO waterbody. Expand PAA to include headwaters
20_6	IE_SW_20C010700	CAHA_020	River	At risk	At risk	Good	Good	Yes	Ag, For, Hymo, M+Q, Other	Caha	Existing PAA and Proof of Concept waterbody. ASSAP work programme won't be complete
20_15	IE_SW_20C020810	CASHEL (CORK)_010	River	Not at risk	Not at risk	Good	Good	No			
20_7	IE_SW_20C030400	CLODAGH_010	River	Not at risk	Not at risk	Good	Good	No			
20_11	IE_SW_20C050300	CLONAKILTY STREAM_010	River	Not at risk	At risk	Good	Poor	No	Ag, Other, UR	Clonakilty	Expand PAA to include inputting waterbodies Clonakilty Stream deteriorated in last monitoring period
20_11	IE_SW_20C060300	CARHOO_010	River	At risk	Not at risk	Moderate	Good	No		Clonakilty	Existing PAA waterbody. ASSAP work may not be complete
20_15	IE_SW_20C120530	CARRIGLUSKY_010	River	Not at risk	Not at risk	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)
20_8	IE_SW_20D010050	DINY_010	River	Not at risk	At risk	Good	Poor	No	Ag, For	Sally River	Failing to meet its WFD objective. Upstream waterbody to Bandon 30, also at risk. Red dot site. Builds on existing work of CCC. Multiple pressures include forestry, Agriculture and urban. Evidence of ongoing land reclamation/improvement in the catchment.
20_13	IE_SW_20D600820	DERRYNAGASHA_010	River	Review	Review	Unassigned	Unassigned	No		Bandon estuary	Existing PAA waterbody. FC not yet commenced so ASSAP work programme wont be complete
20_14	IE_SW_20D710620	DOONAVANIG_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_13	IE_SW_20D730990	DROMDOUGH_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_3	IE_SW_20D770630	DERREENNATRA_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_1	IE_SW_20E050970	East Cruary_010	River	Review	Review	Unassigned	Unassigned	No			
20_3	IE_SW_20E070850	SKULL_010	River	Review	Review	Unassigned	Unassigned	No			
20_4	IE_SW_20F310780	Flaxfort Strand_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_14	IE_SW_20F330850	Farranamoy_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_12	IE_SW_20G020400	GLASHAGLORAGH (CORK)_010	River	Not at risk	Not at risk	High	High	Yes			
20_11	IE_SW_20H070690	Hayes' Cross Roads_010	River	Review	Review	Unassigned	Unassigned	No		Kilkeran Lagoon	Existing PAA waterbody. FC not yet commenced so ASSAP work programme wont be complete
20_7	IE_SW_20I010100	ILEN_010	River	Not at risk	Not at risk	Good	Good	No		Ilen	IFI have included the Ilen catchment in their climate change research project
20_7	IE_SW_20I010160	ILEN_020	River	Not at risk	Not at risk	Good	High	No		Ilen	IFI have included the Ilen catchment in their climate change research project
20_9	IE_SW_20I010300	ILEN_030	River	Not at risk	Not at risk	High	High	Yes		Ilen	IFI have included the Ilen catchment in their climate change research project
20_16	IE_SW_20I010350	ILEN_040	River	Review	Review	Unassigned	Unassigned	No		Ilen	IFI have included the Ilen catchment in their climate change research project
20_4	IE_SW_20K010100	KILBRITTAIN_010	River	Not at risk	Not at risk	Good	Good	No			
20_4	IE_SW_20K010300	KILBRITTAIN_020	River	Not at risk	Review	Good	Good	No			
20_17	IE_SW_20K050700	KNOCKROE_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_13	IE_SW_20K190980	KNOCKNABOHILLY_010	River	Review	Review	Unassigned	Unassigned	No		Bandon estuary	Existing PAA waterbody. FC not yet commenced so ASSAP work programme wont be complete
20_13	IE_SW_20K800990	KILLANAMAUL_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_15	IE_SW_20K950970	KILLANGAL_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_13	IE_SW_20K980910	KNOCKNACURRA_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_17	IE_SW_20L010200	LEAMAWADDRA_010	River	Not at risk	At risk	High	Good	Yes	Hymo, Other		
20_17	IE_SW_20L010400	LEAMAWADDRA_020	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)
20_15	IE_SW_20L040100	LEAP STREAM_010	River	Not at risk	Not at risk	Good	Good	No			
20_16	IE_SW_20L450850	LETTERSHAW_010	River	Review	Review	Unassigned	Unassigned	No			
20_13	IE_SW_20L510960	LAHERFINEEN_010	River	Review	Review	Unassigned	Unassigned	No		Bandon estuary	Existing PAA waterbody. FC not yet commenced so ASSAP work programme wont be complete
20_3	IE_SW_20L560540	LOWERTOWN_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_14	IE_SW_20M010100	MINANE_020	River	Not at risk	Not at risk	Good	Good	No			
20_14	IE_SW_20M010200	Minane (Cork)_010	River	Review	Review	Unassigned	Unassigned	No			
20_16	IE_SW_20M580810	MALLAVONEA_010	River	Review	Review	Unassigned	Unassigned	No			
20_14	IE_SW_20N050960	Newborough_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_11	IE_SW_20N100620	North Ring Curraghgrane_010	River	Review	Review	Unassigned	Unassigned	No		Clonakilty	Existing PAA waterbody. ASSAP work may not be complete
20_12	IE_SW_20O010200	OWENKEAGH_010	River	Not at risk	Not at risk	Good	Good	No			
20_12	IE_SW_20O010600	OWENKEAGH_020	River	Not at risk	Not at risk	Good	Good	No			
20_7	IE_SW_20O020200	OWENNASHINGAUN_010	River	At risk	Not at risk	Good	High	Yes			
20_7	IE_SW_20O020700	OWENNASHINGAUN_020	River	Not at risk	Not at risk	High	High	Yes			
20_11	IE_SW_20O030400	OWNAHINCHY_010	River	At risk	Not at risk	Moderate	Good	No		Rosscarbery	Discharges to Rosscarbery Bay which is PAA with possible impacts on Warren & Ownahincha Bathing waters. Catchment will require regular supervision to ensure protection of status. Expand PAA. Highly intensive dairy farming catchment, some tillage.
20_3	IE_SW_20O060910	Oughter Callaros_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_17	IE_SW_20R010400	RATHRUANE_010	River	Not at risk	Not at risk	High	High	No			
20_15	IE_SW_20R020800	ROURY_010	River	Not at risk	Not at risk	Good	Good	No			
20_15	IE_SW_20R021000	ROURY_020	River	Not at risk	Not at risk	Good	Good	No			
20_17	IE_SW_20R030900	Roaring Water River_010	River	Review	Review	Unassigned	Unassigned	No			
20_9	IE_SW_20S010400	SAIVNOSE_010	River	Not at risk	Not at risk	Good	Good	No			
20_9	IE_SW_20S010900	SAIVNOSE_020	River	Not at risk	Not at risk	Good	Good	No			
20_5	IE_SW_20S020500	SALL_010	River	Not at risk	Not at risk	Good	Good	No			
20_14	IE_SW_20S030800	STICK_010	River	Not at risk	Not at risk	Good	Good	No			
20_3	IE_SW_20S360700	SHANAVAGH_010	River	Review	Review	Unassigned	Unassigned	No			
20_11	IE_SW_20T020050	TINNEEL STREAM_010	River	At risk	At risk	Moderate	Moderate	No	Ag	Rosscarbery	Existing PAA waterbody. ASSAP work may not be complete
20_3	IE_SW_20T030990	TOORMORE_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_4	IE_SW_20W050990	WHITE STRAND_010	River	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_3	IE_SW_20_133	Tooreen	Lake	Not at risk	Not at risk	Good	Good	No			
20_16	IE_SW_20_148	Abisdealy	Lake	At risk	At risk	Poor	Moderate	No	Ag	Abisdealy	At risk waterbody in an SAC. Level 1 abstraction catchment. Builds on existing work of CCC. Significant dairy farming to south of lake with

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)
											significant land improvement/reclamation works & drainage. Direct hydrological connection to lake. This may have caused sediment loss to lake, & also possibly nutrients due to potential loss of applied fertilisers when reseeding lands.
20_15	IE_SW_20_150	Ballin CK	Lake	At risk	At risk	Poor	Poor	No	Hymo	Ballin	Proposed by Cork Co Co as lead. Builds on their existing work programme
20_6	IE_SW_20_153	Coolkellure	Lake	At risk	At risk	Moderate	Moderate	No	For	Caha	Existing PAA waterbody. ASSAP work may not be complete
20_8	IE_SW_20_158	Curraghally	Lake	At risk	At risk	Moderate	Moderate	No	Other		
20_3	IE_SW_20_53	Skeagh	Lake	At risk	Not at risk	Moderate	Good	No			
17_5, 19_12, 20_1, 20_11, 20_13, 20_14, 20_15, 20_3, 20_4	IE_SW_010_0000	Western Celtic Sea (HAs 18;19;20)	Coastal	Not at risk	Not at risk	Unassigned	Unassigned	No			
0	IE_SW_010_0100	Lough Hyne	Coastal		Review	0	Unassigned	No			
19_12, 19_15, 20_14	IE_SW_050_0000	Outer Cork Harbour	Coastal	Review	Not at risk	Good	Good	No			
20_13, 20_4	IE_SW_080_0000	Kinsale Harbour	Coastal	At risk	Not at risk	Good	Good	No			
20_13	IE_SW_080_0200	Kinsale Marsh, Commoge	Coastal	Review	Review	Unassigned	Unassigned	No			
20_1, 20_4	IE_SW_090_0000	Courtmacsherry Bay	Coastal	At risk	Review	Poor	Good	No			
20_1, 20_11	IE_SW_100_0000	Clonakilty Bay	Coastal	At risk	At risk	Moderate	Good	No	Ag	Clonakilty	Existing PAA waterbody. Further characterisation won't be complete
20_11	IE_SW_100_0200	Inchdoney	Coastal	Review	Review	Unassigned	Unassigned	No			
20_11	IE_SW_100_0300	White's Marsh	Coastal	Review	Review	Unassigned	Unassigned	No			
20_11	IE_SW_100_0400	Clogheen Strand	Coastal	Review	Review	Unassigned	Unassigned	No			
20_11, 20_15	IE_SW_110_0000	Rosscarbery Bay	Coastal	At risk	At risk	Unassigned	Unassigned	No	Ag	Rosscarbery	Existing PAA waterbody. Further characterisation won't be complete
20_16	IE_SW_120_0000	Fastnet Waters	Coastal	Not at risk	Review	Unassigned	Unassigned	No			
20_15, 20_16, 20_17, 20_3	IE_SW_140_0000	Roaring Water Bay	Coastal	Not at risk	Not at risk	Good	Good	No			
20_3	IE_SW_140_0100	Ballyrisode Bridge Lagoon	Coastal	Review	Review	Unassigned	Unassigned	No			
20_3, 21_1, 21_11, 21_2, 21_3, 21_9, 22_10, 22_11, 22_19, 23_11	IE_SW_150_0000	South Western Atlantic Seaboard (HAs 21;22)	Coastal	Not at risk	Not at risk	Unassigned	Unassigned	No			
20_14	IE_SW_070_0100	Oysterhaven	Transitional	At risk	At risk	Unassigned	Unassigned	No	Ag	Oysterhaven	Proposed by Cork Co Co as lead. Builds on their existing work programme
20_14	IE_SW_070_0200	Oysterhaven Lake, Clashroe	Transitional	Review	Review	Unassigned	Unassigned	No		Oysterhaven	Proposed by Cork Co Co as lead. Builds on their existing work programme

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)
20_13	IE_SW_080_0100	Lower Bandon Estuary	Transitional	At risk	At risk	Moderate	Moderate	No	Ag	Bandon estuary	Existing PAA waterbody. Further characterisation won't be complete
20_13, 20_5	IE_SW_080_0300	Upper Bandon Estuary	Transitional	At risk	At risk	Moderate	Poor	No	Ag	Bandon estuary	Existing PAA waterbody. Further characterisation won't be complete
20_1, 20_12, 20_4	IE_SW_090_0200	Argideen Estuary	Transitional	At risk	At risk	Poor	Poor	No	Ag, UWW		
20_11	IE_SW_100_0100	Clonakilty Harbour	Transitional	At risk	At risk	Moderate	Poor	No	Ag	Clonakilty	Existing PAA waterbody. Further characterisation won't be complete
20_11	IE_SW_110_0100	Kilkeran Lake	Transitional	Review	Review	Poor	Bad	No		Kilkeran Lagoon	Existing PAA waterbody. FC not yet commenced so ASSAP work programme won't be complete
20_11	IE_SW_110_0200	Rosscarbery Harbour	Transitional	At risk	At risk	Unassigned	Unassigned	No	Ag	Rosscarbery	Existing PAA waterbody. FC still ongoing so ASSAP work won't be complete
20_15	IE_SW_110_0300	Glandore Harbour	Transitional	Review	Review	Unassigned	Unassigned	No			
20_16	IE_SW_130_0100	Ilen Estuary	Transitional	At risk	At risk	Moderate	Moderate	No	Ag, UR, UWW	Ilen	IFI have included the Ilen catchment in their climate change research project Also proposed by BIM: Shellfish Designated Area; Oyster; Regular incident reports of WWTP breaches
20_3, 21_11	IE_SW_140_0200	Lissagriffin Lake	Transitional	Not at risk	Review	Unassigned	Unassigned	No		Lissagriffin Lake	Proposed by Cork Co Co as lead. Builds on their existing work programme
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			
20_16	IE_SW_G_013	Bandon Islands	Groundwater	Not at risk	Not at risk	Good	Good	No			
20_3	IE_SW_G_016	Waste Facility (W0089-02)	Groundwater	At risk	Not at risk	Poor	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)
19_10, 19_14, 20_17, 20_3, 20_6, 20_7, 21_1, 21_10, 21_11, 21_12, 21_13, 21_14, 21_15, 21_16, 21_17, 21_18, 21_19, 21_2, 21_20, 21_3, 21_4, 21_5, 21_6, 21_7, 21_8, 21_9, 22_10, 22_11, 22_13, 22_14, 22_6, 22_7, 22_8	IE_SW_G_019	Beara Sneem	Groundwater	Not at risk	Not at risk	Good	Good	No			
20_1, 20_11, 20_12, 20_13, 20_15, 20_16, 20_17, 20_2, 20_3, 20_4, 20_6, 20_7, 20_8, 20_9, 21_11, 21_20	IE_SW_G_085	Skibbereen-Clonakilty	Groundwater	Review	Not at risk	Good	Good	No			
19_14, 19_15, 19_9, 20_10, 20_12, 20_13, 20_14, 20_2, 20_4, 20_5, 20_6, 20_7, 20_8, 20_9, 21_19, 21_20	IE_SW_G_086	Bandon	Groundwater	Review	Review	Good	Good	No			
19_15, 20_5	IE_SW_G_087	Brinny Gravels East	Groundwater	Review	Review	Good	Good	No			
19_15, 20_5	IE_SW_G_088	Brinny Gravels West	Groundwater	Review	Review	Good	Good	No			

Ag: Agriculture

M+Q: Mines and Quarries

DWW: Domestic Waste Water

Peat: Peat Drainage and Extraction

For: Forestry

UR: Urban Run-off

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.