

# Annual Environmental Report

2019



Castletownbere

D0297-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0297-01, Castletownbere, in Cork in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

## 1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

New capital project planned to commence 2020/2021. Planning application has been lodged with Cork County Council.

## 1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at Castletownbere. Please refer to section 4 for details of the Programme of Improvements.
- The existing wastewater collection system for the agglomeration comprises five septic tanks located throughout the town. However, the majority of the load generated in the agglomeration is discharged untreated into the harbour; thus, there is essentially no treatment at this agglomeration. The details of the septic tank capacities are provided hereunder.
  - Foildarrig Housing Septic Tank with a Plant Capacity PE of 28
  - Drom North Housing Septic Tank with a Plant Capacity PE of 0
  - CAMETRINGANE SEPTIC TANK with a Plant Capacity PE of 115
  - Castletownbere - Hospital Septic Tank with a Plant Capacity PE of 241
  - BRANDYHALL BRIDGE SEPTIC TANK with a Plant Capacity PE of 30

## 1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF0500D0297GW006	Foildarrig Housing Septic Tank	Untreated	There is currently no treatment at this agglomeration. Discharge to Ground - Percolation Area	N/A
TPEFF0500D0297GW005	Drom North Housing Septic Tank	Untreated	Drom North Septic Tank (Discharge to Ground - Percolation Area) was decommissioned in September 2019 and is now connected into Rinn Na Mara RBC WWTP	N/A
TPEFF0500D0297SW004	CAMETRINGANE SEPTIC TANK	Untreated	There is currently no treatment at this agglomeration	N/A
TPEFF0500D0297SW003	Castletownbere - Hospital Septic Tank	Untreated	There is currently no treatment at this agglomeration	N/A
TPEFF0500D0297SW002	BRANDYHALL BRIDGE SEPTIC TANK	Untreated	There is currently no treatment at this agglomeration	N/A

## 1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

## 2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

### 2.1.1 INFLUENT & EFFLUENT MONITORING SUMMARY

Monitoring is not undertaken as there is currently no treatment at this agglomeration.

### 2.1.2 AMBIENT MONITORING SUMMARY FOR CASTLETOWNBERE

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Downstream	67473, 44811	CW05003196BV1009	No	No	No	Yes	Good

The results for ambient results and / or additional monitoring data sets are included in the **Appendix 7.1 - Ambient monitoring summary**

#### Significance of Results:

The discharges from the agglomeration are untreated and are not monitored under the licence..

The ambient monitoring results meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the agglomeration does not have an observable impact on the water quality.

The discharge from the agglomeration does not have an observable negative impact on the Water Framework Directive status.

## 3 COMPLAINTS AND INCIDENTS

### 3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
<b>There were no relevant environmental complaints in 2019.</b>			

### 3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

#### 3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
<b>Breach of ELV</b>	WWTP upgrade required to meet ELV	1	Yes	No

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	1
Number of Incidents reported to the EPA via EDEN in 2019	1
Explanation of any discrepancies between the two numbers above	N/A

## 4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

### 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

#### 4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
<b>There are no Storm Water Overflows in this Agglomeration.</b>							

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	N/A
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	N/A
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	N/A

## 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

### 4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NAY)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0297-SIP:02</b>	Cessation of all secondary discharges	C	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:04</b>	Discharges from GW06 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:06</b>	Discharges from SW02 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:07</b>	Discharges from SW03 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0297-SIP:08</b>	Discharges from SW04 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:01</b>	Any storm water overflows associated with proposed waste water treatment plant and ancillary works	C	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:03</b>	Discharges from GW05 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:05</b>	Discharges from SW01 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	No	At Planning Stage	31/12/2022	
<b>D0297-SIP:09</b>	Waste water treatment plant and ancillary works	C	31/12/2015	No	At Planning Stage	31/12/2022	

A summary of the status of any improvements identified by under Condition 5.2 is included below.

### 4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
<b>There are no Improvements Programme for this Agglomeration.</b>				

### 4.2.3 SEWER INTEGRITY RISK ASSESSMENT

N/A

## 5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Shellfish Impact Assessment	Yes	2106	No	

### 5.1 SHELLFISH IMPACT ASSESSMENT

The Shellfish Impact Assessment Report has been included in the 2016 AER

## 6 CERTIFICATION AND SIGN OFF

### 6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	Yes
List reason e.g. additional SWO identified	Decommissioning of Drom North Septic Tank in September 2019.
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	N/A
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed:    Date: 05/03/2020

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.

## 7 APPENDIX

Appendix

**Appendix 7.1 - Ambient monitoring summary**

EQS	
<b>Dissolved Oxygen %Saturation</b>	80%<95%ile<120% (@ 35PSU)
<b>Temperature °C</b>	≤ 1.5 C° increase
<b>pH</b>	n/a
<b>BOD</b>	n/a
<b>COD</b>	n/a
<b>Total Suspended Solids</b>	n/a
<b>Orthophosphate (P)</b>	n/a
<b>Ammonia (N)</b>	n/a
<b>Total Nitrogen (N)</b>	n/a
<b>Total Oxidised Nitrogen (N)</b>	Good status: ≤0.25mg/l (@ 34.5PSU) High status: ≤0.17mg/l (@34.5PSU)
<b>Dissolved Inorganic Nitrogen (N)</b>	Good status: ≤0.25mg/l (@ 34.5PSU) High status: ≤0.17mg/l (@34.5PSU)
<b>Escherichia Coli</b>	n/a
<b>Intestinal enterococci</b>	n/a
<b>Faecal Coliforms</b>	n/a

(PSU: Practical Salinity Unit)

Station name	Castletownbere Ambient		
Eden Code	CW05003196BV1009		
Sample method	Grab		
	Component name	Result text	
Sampled date		08/05/2019 13:05	21/08/2019 10:15
Id numeric		79808	82367
	pH	8.1	8.0
	BOD	1.0	1.9
	Ammonia	<0.035	<0.035
	Dissolved Inorganic Nitrogen	<0.06	<0.035
	Orthophosphate	<0.01	<0.01
	Total Oxidised Nitrogen	<0.02	<0.02
	Dissolved Oxygen (%Saturation)	134.50	96.50
	Temperature	12.2	14.1
	Escherichia Coli	<10	31
	Faecal Coliforms	20	52
	Intestinal enterococci	10	10

Units
pH_unit
mg/l
%Saturatio
deg_C
MPN/100ml
MPN/100ml
MPN/100ml