

# Annual Environmental Report

2020



Castletownbere

D0297-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 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.

Work on the new WWTP for Castletownbere is to begin Q1 2021.

## 1.2 TREATMENT SUMMARY

- Foildarrig Housing Septic Tank - 2020 with a Plant Capacity PE of 28.
- CAMETRINGANE SEPTIC TANK - 2020 with a Plant Capacity PE of 115.
- Castletownbere - Hospital Septic Tank - 2020 with a Plant Capacity PE of 241.
- Currently there is no treatment provided at Castletownbere . Please refer to section 4 for details of the Programme of Improvements.
- 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
TPEFF0500D0297SW004	Foildarrig Housing Septic Tank - 2020	Treated	Non-Compliant	N/A
TPEFF0500D0297SW002	CAMETRINGANE SEPTIC TANK - 2020	Treated	Non-Compliant	N/A
TPEFF0500D0297SW003	Castletownbere - Hospital Septic Tank - 2020	Treated	Non-Compliant	N/A
TPEFF0500D0297SW001	BRANDYHALL BRIDGE SEPTIC TANK - 2020	Untreated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l

## 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 INFLUENT & EFFLUENT MONITORING SUMMARY**

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

### **2.2 AMBIENT MONITORING SUMMARY FOR CASTLETOWNBERE**

Attached as an appendix to this report.

## 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
There were no relevant environmental complaints in 2020.			

### 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)
Breach of ELV	WWTPUpgrade required to meet ELV	1	Y	N

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2020	1
Number of Incidents reported to the EPA via EDEN in 2020	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 2020 (No. of events)	Total volume discharged in 2020 (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)?	Unknown
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/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0297-SIP:01</b>	Any storm water overflows associated with proposed waste water treatment plant and ancillary works	C	31/12/2015	Yes	Work ongoing on-site	31/12/2023	
<b>D0297-SIP:02</b>	Cessation of all secondary discharges	C	31/12/2015	Yes	Work ongoing on-site	31/12/2023	
<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	Yes	Work ongoing on-site	31/12/2023	
<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	Yes	Work ongoing on-site	31/12/2023	

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:05</b>	Discharges from SW01 to cease by 31/12/15 or upon upgrading of sewerage system, whichever is sooner	A	31/12/2015	Yes	Work ongoing on-site	31/12/2023	
<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	Yes	Work ongoing on-site	31/12/2023	
<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	Yes	Work ongoing on-site	31/12/2023	
<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	Yes	Work ongoing on-site	31/12/2023	
<b>D0297-SIP:09</b>	Waste water treatment plant and ancillary works	C	31/12/2015	Yes	Work ongoing on-site	31/12/2023	

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	2016	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?	No
List reason e.g. additional SWO identified	N/A
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	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A

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

Signed:    Date: 28/06/2021

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



Castletownbere Ambient	EQS		20/05/2020 13:50	19/08/2020 11:50	26/08/2020 10:40	95%ile	Mean
	Mean	95%ile					
D.O % O <sub>2</sub>	80%<95%ile<120%		104.90	100.10	98.60	104.42	101.20
Temperature C°	≤ 1.5 C° increase		14.10	18.10	15.20	17.81	15.80
pH	6 < pH < 9		8.1	8.0	8.1	8.1	8.07
BOD mg/L	N/A		0.50	5.00	0.50	4.55	2.00
Orthophosphate (P) mg/l	N/A		0.07	0.01	0.01	0.067	0.04
Ammonia (N) mg/l	N/A		0.0175	0.0175	0.0175	0.0175	0.02
DIN (N) mg/l	≤ 0.25 @ 34 PSU		0.0175	0.04		0.034125	0.03
TON (N) mg/l	≤ 0.25 @ 34 PSU		0.01	0.03	0.03	0.03	0.02
Faecal Coliforms MPN/100mls	N/A		5	12033	75	10837.2	4037.67
E.Coli MPN/100mls	N/A		5	17329	5	15596.6	5779.67
Intestinal enterococci CFU/100mls	N/A		10	243	5	219.7	86.00

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding tool Code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status
Downstream Monitoring Point	E67469 N44820	CW05003196BV1009	No designated	No	No	2km SE of Discharge location	Good

Significance of Results	
Did the ambient monitoring results meet the EQS Required?	Yes
Is there an observable negative impact on water quality?	None apparent
List the parameters causing the impact?	None
A deterioration has been identified, but it is not known if it is caused by the TP	n/a
Do the discharges from the WWTP have an observable negative impact on the WFD?	Possibly
Any other known impacts	Catchment Pressures

