

# Annual Environmental Report

## 2024

Castletownshend



D0468-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER

This Annual Environmental Report has been prepared for D0468-02, Castletownshend, 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.

## 1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at Castletownshend . Please refer to section 4 for details of the Programme of Improvements.

## 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
TPEFF0500D0468SW001	Castletownshend Untreated Discharge	Untreated	Non-Compliant	Suspended Solids mg/l BOD, 5 days with Inhibition (Carbonaceo mg/l

## 1.4 LICENCE SPECIFIC REPORTING

Assessment / Report
<b>There are no Licence Specific Reports included in this AER.</b>

## 2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

### 2.1.1 EFFLUENT MONITORING SUMMARY -

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	N/A	N/A	N/A	5	N/A	N/A	154	
Suspended Solids mg/l	50% Reduction	N/A	N/A	6	N/A	N/A	30	Fail
BOD, 5 days with Inhibition (Carbonaceous) mg/l	20% Reduction	N/A	N/A	6	N/A	N/A	86	Fail

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

2 – For pH the WWDA specifies a range of pH 6 - 9

#### Cause of Exceedance(s):

Not applicable

#### Significance of Results:

The WWTP is non-compliant with the ELV's set in the Wastewater Discharge Licence.

## 2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0500D0468SW001

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 Ecological Status
Downstream	118659, 30973	CW05003177RY1001	No	No	No	No	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 coastal/transitional 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 WWTP discharge was compliant with the ELV's set in the wastewater discharge licence.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

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

The discharge from the wastewater treatment plant does not have an observable impact on the coastal/transitional water quality.

### 3 COMPLAINTS AND INCIDENTS

#### 3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature related to the discharge(s) to water from the WWTP and network is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2024.			

#### 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 Uisce Éireann 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	Recurring (Y/N)	Closed (Y/N)
There were no reportable incidents in 2024.			

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2024	0
Number of Incidents reported to the EPA via EDEN in 2024	0
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 (chamber) where applicable	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
There are no Storm Water Overflows in this Agglomeration.							

The contents presented in this table include the most up to date information available at the time of writing. Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much wastewater discharge by metered SWOs during 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?	Yes

## 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 a 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>D0468-SIP:01</b>	Discontinue discharge from SW02 CEND	A	22/12/2015	Yes	Not Started		Capital works not funded in RC3. Capital works funding post 2024 will be contingent on the project being included in the 2025-2029 investment period
<b>D0468-SIP:02</b>	Extension of primary discharge outfall	C	22/12/2015	Yes	Works Completed	2023	
<b>D0468-SIP:03</b>	Foul sewer upgrade and extension (to include the separation of surface water and the connection of the 8 No. Houses on Western Quay).	C	22/12/2015	Yes	Works Completed	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>D0468-SIP:04</b>	Waste water treatment plant and ancillary works	C	22/12/2015	Yes	Works Completed	2023	

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

#### 4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improvements planned at this time.				

#### 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 a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Included in this AER
There is no Licence Specific Report Required in this AER Annual Review.		

## 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	Relocation of Primary Discharge Point
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?	Yes
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	No

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

Signed: Date: 29/04/2025

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

Eleanor Roche Head of Environmental Regulation

## 7 APPENDIX

### Appendix

#### Appendix 7.1 - Ambient monitoring summary

### Ambient Points

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Receiving Waters Designation (Y/N)				WFD Status
			Bathing Water	Drinking Water	FWPM	Shellfish	
CW05003177RY1001	118659, 30973	TPEFF3900D0468SW003	No	No	No	No	Good

### Ambient Impact Assessment Table

Parameter Name	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS (Mean)	%EQS
BOD mg/l	CW05003177RY1001	2.027		
Ammonia (as N) mg/l	CW05003177RY1001	0.043		
ortho-Phosphate (as P) mg/l	CW05003177RY1001	0.014		
pH pH units	CW05003177RY1001	8.025		
Dissolved Oxygen % Saturation	CW05003177RY1001	101.275	70 - 130	
Dissolved Inorganic Nitrogen (as N) mg/l	CW05003177RY1001	0.051	2.6	
E. Coli no./100mls	CW05003177RY1001	4.786		
Intestinal enterococci no./100mls	CW05003177RY1001	211.268		
Faecal Coliforms no./100mls	CW05003177RY1001	9.621		
Temperature °C	CW05003177RY1001	14.600		
Total Oxidised Nitrogen (as N) mg/l	CW05003177RY1001	0.112		



## Ambient Data Tables

				Ammonia-Total (as N)	BOD - 5 days (Total)	Dissolved Inorganic Nitrogen (as N)	Dissolved Oxygen	E. Coli	Enterococci (Intestinal)	Faecal coliforms	ortho-Phosphate (as P) - unspecified	pH	Temperature	Total Oxidised Nitrogen (as N)
Monitored Entity	Station	Monitoring Point	Sample Date	mg/l	mg/l	mg/l	% saturation	no./100 mls	no./100 mls	no./100 mls	mg/l	pH Units	°C	mg/l
Rossca rberry Bay	CW050 03177R Y1001	Downstream	01/02/2024	<0.035	1.1	<0.035	99.4	2	309	<1.0	<0.020	7.9	9.3	0.31
Rossca rberry Bay	CW050 03177R Y1001	Downstream	12/06/2024	<0.035	3.1	0.065	105.9	<10	<10	<10	<0.020	8.1	15	<0.02
Rossca rberry Bay	CW050 03177R Y1001	Downstream	07/08/2024	0.053	3.2		99.1	<10	41	30	<0.020	8.1	18.4	<0.02
Rossca rberry Bay	CW050 03177R Y1001	Downstream	02/10/2024	0.071	<1.0	0.064	100.7	3	488	<1.0	<0.020	8	15.7	0.11
			Mean	0.043	2.027	0.051	101.275	4.786	211.268	9.621	0.014	8.025	14.600	0.112