

# Annual Environmental Report

2019



Duncannon

D0245-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0245-01, Duncannon, in Wexford 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.

The provision of a new WWTP at Aurtherstown with Associated Pumping Station and pipework and enlargement of Agglomeration / Amalgamation, Aurtherstown and Ballyhack Agglomerations Into Duncannon Agglomeration is currently at design and planning stage

## 1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at Duncannon . 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
<b>TPEFF3300D0245SW001</b>	Duncannon Untreated Discharge	Untreated	Accordance with Condition 4.15 of granted Discharge license D0245-01 and Note 1 of Schedule A.1 no discharge monitoring was conducted 2019	N/A

## 1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

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

## 2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

### 2.1.1 INFLUENT & 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 with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
<p><b>There is no Influent or Effluent data included in the AER as there is currently no treatment at this agglomeration.</b></p>								

Notes:

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

#### Cause of Exceedance(s):

N/A

#### Significance of Results:

Accordance with Condition 4.15 of granted Discharge license D0245-01 and Note 1 of Schedule A.1 no discharge monitoring was conducted 2019

### 2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE

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
<b>Downstream - TW33002097SR6005</b>	271959, 108203	TPEFF33300D0245SW001	No	No	No	Yes	Moderate

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

### Significance of Results:

The agglomeration is not currently served by a WWTP. There is no effluent monitoring carried out.

The ambient monitoring result does not meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

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

## 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>There were no reportable incidents in 2019.</b>				

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	0
Number of Incidents reported to the EPA via EDEN in 2019	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	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>SW2</b>	272786, 108346	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored

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?	No

## 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>D0245-SIP:01</b>	Any improvement works required to ensure compliance with the emission limit values as set out in Schedule A: Discharges & Discharge Monitoring	C	31/12/2019	No	At Planning Stage	07/07/2022	

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**

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

## 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
<b>Priority Substances Assessment</b>	Yes	2014	No	
<b>Shellfish Impact Assessment</b>	Yes	2016	No	

### 5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2014

### 5.2 SHELLFISH IMPACT ASSESSMENT

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

## 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	Expansion of Agglomeration to Include, Ballyhack, Aurthurstown Agglomeration, Prevision of Treatment at new Pending WWTP located in Aurthurstown and interconnecting Pumping Stations and associated gravity/ rising main pipework
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	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**

WaterbodyCode	Monitoring StationName	MonitoringStationLocalAuth	SampleDate	SampleMethod	ParameterName	Parameter Result	LimitOfDetection	ReportResult
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Bottom	BOD - 5 days (Total)	mg/l	1	1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Surface	BOD - 5 days (Total)	mg/l	1.1	1.1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:42	TRaC Surface	BOD - 5 days (Total)	mg/l		0.5
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:45	TRaC Bottom	BOD - 5 days (Total)	mg/l		0.5
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Surface	Dissolved Oxygen	% Saturatic	112	1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Bottom	Dissolved Oxygen	% Saturatic	103	1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:42	TRaC Surface	Dissolved Oxygen	% Saturatic	96	1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:45	TRaC Bottom	Dissolved Oxygen	% Saturatic	95	1
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Surface	ortho-Phosphate (as P) - unspecified	mg/l		0.005
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Bottom	ortho-Phosphate (as P) - unspecified	mg/l	0.0064	0.005
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:42	TRaC Surface	ortho-Phosphate (as P) - unspecified	mg/l	0.0094	0.005
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:45	TRaC Bottom	ortho-Phosphate (as P) - unspecified	mg/l	0.02	0.005
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Bottom	pH	pH units	8.1	2
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	25/06/2019 11:29	TRaC Surface	pH	pH units	8.1	2
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:42	TRaC Surface	pH	pH units	8	2
IE_SE_100_0100	TW330020 SR540 - BNS Estuary - Duncannon	Wexford County Council	19/09/2019 12:45	TRaC Bottom	pH	pH units	8	2