

Annual Environmental Report

2019



Ballyvaughan

D0327-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0327-01, Ballyvaughan, in Clare 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 Ballyvaughan . 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
TPEFF0300D0327SW001	Ballyvaughan WWTP	Untreated	There is no effluent data available. Monitoring is not undertaken as 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

There is no Influent data available. Monitoring is not undertaken as there is currently no treatment at this agglomeration

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)
There is no Effluent data included in the AER. Monitoring is not undertaken as there is currently no treatment at this agglomeration								

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):

There is no WWTP associated with the agglomeration.

Significance of Results:

N/A

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0300D0327SW001

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
Upstream	122875, 208383	CW03005223BG1001	No	No	No	Yes	Unassigned
Downstream	122657, 208507	CW03005223BG1002	No	No	No	Yes	Unassigned

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

Significance of Results:

There is currently no treatment at this agglomeration.

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
2	Blocked Sewer	0	2

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)
There were no reportable incidents in 2019.				

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
There are no Storm Water Overflows in this Agglomeration.							

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/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
D0327-SIP:01	Upgrade the waste water works to provide primary treatment	C	31/12/2015	Yes	At Planning Stage	01/11/2022	

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
There are no Improvements Programme for this Agglomeration.				

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	2015	No	

5.1 SHELLFISH IMPACT ASSESSMENT

The Shellfish Impact Assessment Report has been included in the 2015 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	No

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

Ambient Monitoring Ballyvaughan 2019

Ballyvaughan East														
Parameter	Biological Oxygen Demand	Dissolved Oxygen % Saturation	Ammonia N	Dissolved Oxygen	pH	Suspended Solids	Temperature	Total Oxidised Nitrogen N	E Coli	Visual Inspection	Faecal Coliforms	Enterococci	E Coli	
Max.	--	120	--	--	9	--	--	--	--	--	--	--	--	
Min.	--	80	--	--	6	--	--	--	--	--	--	--	--	
Test Method	--	--	--	--	--	--	--	--	--	--	--	--	--	
Station	Sample Date	Analyst Conclusion	mg/l	% O2	mg/l	mg/l	pH units	Degrees C	mg/l	MPN/100mls	Descriptive	no./100mls	cfu/100mls	no./100mls
Ballyvaughan East	5-Feb-2019	-	< 1		0.018		8.1		2	0.196	Overcast, mild breeze, Cloudy	9	2	8
Ballyvaughan East	28-May-2019	-	< 1		< 0.01		8.3		23	0.058	Nothing unusual observed. Weather dry. 15c air temp, sunny, calm	0	< 1	< 1
Ballyvaughan East	23-Aug-2019	-	< 1	109.5	< 0.01	8.86	8.2	21	17.4	0.025	21km/hr wind moderate, warm	1	1	1
Ballyvaughan East	12-Nov-2019	-	< 1	93.1	0.01	10.7	8	8	9.1	0.118	Sunny, 6 degrees, moderate winds, Northwest 24km/hr.			

Ballyvaughan West														
Parameter	Biological Oxygen Demand	Dissolved Oxygen % Saturation	Ammonia N	Dissolved Oxygen	pH	Suspended Solids	Temperature	Total Oxidised Nitrogen N	E Coli	Visual Inspection	Faecal Coliforms	Enterococci	E Coli	
Max.	--	120	--	--	9	--	--	--	--	--	--	--	--	
Min.	--	80	--	--	6	--	--	--	--	--	--	--	--	
Test Method	--	--	--	--	--	--	--	--	--	--	--	--	--	
Station	Sample Date	Analyst Conclusion	mg/l	% O2	mg/l	mg/l	pH units	Degrees C	mg/l	MPN/100mls	Descriptive	no./100mls	cfu/100mls	no./100mls
Ballyvaughan West (pier)	5-Feb-2019	-	< 1		< 0.01		8.1		6	0.172	Raining, 85% Vcloud cover, wind picking up, tide going out nothing unusual observed at sampling	0	< 1	0
Ballyvaughan West (pier)	28-May-2019	-	< 1		0.01		8.3		20	0.061	Nothing unusual observed. Weather dry	0	< 1	0
Ballyvaughan West (pier)	23-Aug-2019	-	< 1	111.2	0.013	9.06	8.2	20	17	0.019	19c air temp, moderate winds, (21kn/hr) Water: Calm Sunny	0	0	0
Ballyvaughan West (pier)	12-Nov-2019	-	1	96	0.013	11.2	8	9	8.3	0.165	Sunny, 6 degrees, 23km/hr winds northwest moderate .			