

# Annual Environmental Report

2019



Glin

D0504-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0504-01, Glin, in Limerick 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. A Waste Water Treatment Plant is proposed for Glin and is anticipated to be completed by 08/11/2024.

## 1.2 TREATMENT SUMMARY

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

## 1.3 ELV OVERVIEW

No Emission Limit Values are specified for the discharge under the licence.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF1900D0504SW001	Glin WWTP	Untreated	No Emission Limit Values are specified for the discharge under the licence	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 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)
There is no Effluent data included in the AER. No Emission Limit Values are specified for the discharge under the licence.								

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):

Not applicable

#### Significance of Results:

No Emission Limit Values are specified for the discharge under the licence..

### 2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF1900D0504SW001

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>Upstream</b>	113047, 147867	TW36004123SN3002	No	No	No	No	Good
<b>Downstream</b>	111322, 147465	TW36004123SN3003	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:**

No Emission Limit Values are specified for the discharge under the licence.

## 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>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)?	0
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>There are no Specified Improvement Programmes for this Agglomeration.</b>							

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>A Waste Water Treatment Plant is proposed for Glin and is anticipated to be completed by 08/11/2024.</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
<b>There is no Licence Specific Report Required in this AER Annual Review.</b>				

## 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?	N/A
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	N/A
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

Shannon Estuary Upstream Glin Outfall.

Location						Parameter						
Station	Station Reference	Station Easting	Station Northing	Sample Reference	Sample Date	Ammonia NH3-N	Biological Oxygen Demand	Dissolved Oxygen % Saturation	Ortho-Phosphate PO4-P	pH	Temperature	Total Nitrogen N
						mg/l	mg/l	% O2	mg/l	pH units	Degrees C	mg/l
WDLW 20 Shannon Estuary u/s Glin STP	TW36004123SN3002	113047	147867	19371961	4-June-2019	0.016	1	82	0.014	8.1	11.5	3.4
WDLW 20 Shannon Estuary u/s Glin STP	TW36004123SN3002	113047	147867	19373852	5-Nov-2019	0.037	1	91	0.015	8.1	10.8	4.71
				EQS Std	individual value					6-9	n/a	n/a
				EQS Std	good status mean	≤0.065	≤1.5		≤0.035	n/a	n/a	n/a
				EQS Std	good status 95%ile	≤0.14	≤2.6	>80, <120	≤0.075	n/a	n/a	n/a
					mean	0.027	1.000	86.500	0.015	8.100	11.150	4.055
					95%ile	0.036	1.000	90.550	0.015	8.100	11.465	4.645
					mean compliance	yes	yes	yes	yes	yes	--	--
					95%ile compliance	yes	yes	yes	yes	yes	--	--

half of level of detection for statistical purposes  
exceeds Surface Waters Regulations good status

Note: Individual results which exceed the good status mean are highlighted in red

Maigue River Down stream of the Adare WwTP outfall

Location						Parameter						
Station	Station Reference	Station Easting	Station Northing	Sample Reference	Sample Date	Ammonia NH3-N	Biological Oxygen Demand	Dissolved Oxygen % Saturation	Ortho-Phosphate PO4-P	pH	Temperature	Total Nitrogen N
						mg/l	mg/l	% O2	mg/l	pH units	Degrees C	mg/l
WDLW 20 Shannon Estuary u/s Glin STP	TW36004123SN3002	113047	147867	19371961	4-June-2019	0.016	1	82	0.014	8.1	11.5	3.4
WDLW 20 Shannon Estuary u/s Glin STP	TW36004123SN3002	113047	147867	19373852	5-Nov-2019	0.037	1	91	0.015	8.1	10.8	4.71
				EQS Std	individual value					6-9	n/a	n/a
				EQS Std	good status mean	≤0.065	≤1.5		≤0.035	n/a	n/a	n/a
				EQS Std	good status 95%ile	≤0.14	≤2.6	>80, <120	≤0.075	n/a	n/a	n/a
					mean	0.027	1.000	86.500	0.015	8.100		4.055
					95%ile	0.036	1.000	90.550	0.015	8.100		4.645
					mean compliance	yes	yes	yes	yes	yes	--	--
					95%ile compliance	yes	yes	yes	yes	yes	--	--

half of level of detection for statistical purposes  
exceeds Surface Waters Regulations good status

Note: Individual results which exceed the good status mean are highlighted in red