Annual Environmental Report 2019



Foynes

D0502-01

CONTENTS

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

- 1.1 Annual Statement of Measures
- 1.2 Treatment Summary
- 1.3 ELV OVERVIEW
- 1.4 LICENSE SPECIFIC REPORT INCLUDED IN AER

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

- 2.1 FOYNES WWTP UNTREATED DISCHARGE
 - 2.1.1 EFFLUENT MONITORING SUMMARY FOYNES WWTP -
 - 2.1.2 Ambient Monitoring Summary for Untreated Discharge -

3 COMPLAINTS AND INCIDENTS

- 3.1 COMPLAINTS SUMMARY
- 3.2 REPORTED INCIDENTS SUMMARY
 - 3.2.1 SUMMARY OF INCIDENTS
 - 3.2.2 Summary of Overall Incidents

4 INFRASTRUCTURAL ASSESSMENT AND PROGRAMME OF IMPROVEMENTS

- 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT
 - 4.1.1 SWO IDENTIFICATION AND INSPECTION SUMMARY REPORT
- 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS
- 4.2.1 Specified Improvement Programme Summary
- 4.2.2 IMPROVEMENT PROGRAMME SUMMARY
- 4.2.3 SEWER INTEGRITY RISK ASSESSMENT
- 5 LICENCE SPECIFIC REPORTS
- 6 CERTIFICATION AND SIGN OFF
 - 6.1 SUMMARY OF AER CONTENTS
- 7 APPENDIX
 - 7.1 Ambient monitoring summary

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0502-01, Foynes, 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.

None

1.2 TREATMENT SUMMARY

• Currently there is no treatment provided at Foynes . 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
TPEFF1900D0502SW001	Foynes WWTP	Untreated	N/A	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 EFFLUENT MONITORING SUMMARY -

Parameter WWDL ELV (Schedule A) ELV with Condition 2 Interpretation included Note 1 Interim % reduction from influent concentration Interim % reduction from influent concentration Interim % reduction from influent concentration Interim % Number of exceedances Interpretation included Interpretation Inte
--

There is no Effluent data included in the AER. There is currently no treatment at this agglomeration. ELVs do not come in to operation until 1st January 2020.

Notes:

Cause of Exceedance(s):

Not applicable

Significance of Results:

There is currently no treatment at this agglomeration. ELVs do not come in to operation until 1st January 2020.

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF1900D0502SW001

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.

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

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
TW03004128N2001	135844	157038	No	No	No	No	Poor
TW36004124FH100	124635	15022	No	No	No	No	Poor

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. ELVs do not come in to operation until 1st January 2020.

.

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 2019.						

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
SW2	125122, 151376	Yes	Low	Not Meeting	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?	Yes
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
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
D0502-SIP:01	Discharges from SW000 to cease	А	31/12/2020	No	At Planning Stage	Date of commencement of discharges from SW001	
D0502-SIP:04	Installation of new waste water treatment plant and ancillary works	С	01/01/2020	No	At Planning Stage	08/11/2024	
D0502-SIP:02	Discharges from SW002 to cease	А	31/12/2020	No	At Planning Stage	Date of commencement of discharges from SW003	
D0502-SIP:03	Installation of new rising mains and pumping station	С	01/01/2020	No	At Planning Stage	08/11/2024	

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
D0502-SIP:05	Installation of storm water storage tank.	С	01/01/2020	No	At Planning Stage	08/11/2024	

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

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							
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?	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

Shannon Estuary Upstream Foynes 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	Н	Temperature	Total Nitrogen N
						mg/l	mg/l	% O2	mg/l	pH units	Degrees C	mg/l
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19370511	12-Feb-2019	0.038	1	100	0.028	8.1	7	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19370939	12-Mar-2019	0.044	1	98	0.028	8.1	7.4	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19371340	9-Apr-2019	0.024	1	76	0.026	8	11.9	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19371959	4-June-2019	0.023	1	90	0.017	8.1	13.5	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19372724	13-Aug-2019	0.068	1	91	0.024	8.1	17.9	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19373850	5-Nov-2019	0.046	1	91	0.044	8.1	9.5	
u/s Foynes WDLW 18	TW03004128SN200	135844	157038	19373960	12-Nov-2019	0.02	1	97	0.011	8	7.1	
			EQS Std	indivi	dual value					6-9		
EQS S			EQS Std	good s	tatus mean	≤0.065	≤1.5		≤0.035	n/a	n/a	n/a
EQS Std			good st	atus 95%ile	≤0.14	≤2.6	>80, <120	≤0.075	n/a	n/a	n/a	
				ı	mean	0.038	1.000	91.857	0.025	8.071	10.614	#DIV/0!
				9	5%ile	0.061	1.000	99.400	0.039	8.100	16.580	#NUM!
			mean	compliance	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

Shannon Estuary Downstream Foynes Outfall.

Locat			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	Н	Temperature	Total Nitrogen N
						mg/l	mg/l	% O2	mg/l		Degrees C	mg/l
WDLW 19 Shannon Estuary d/s Foynes STP	TW36004124FH100	124635	152022	19371960	4-June-2019	0.018	1	92	0.01	8.1	13.2	
WDLW 19 Shannon Estuary d/s Foynes STP	TW36004124FH100: 124635		152022	19373851	5-Nov-2019	0.039	1	85	0.02	8.1	10.4	
EQS Std				individual value						6-9	n/a	
EQS Std				good st	tatus mean	≤0.065	≤1.5		≤0.035	n/a	n/a	n/a
EQS Std				good st	atus 95%ile	≤0.14	≤2.6	>80, <120	≤0.075	n/a		n/a
					nean	0.029	1.000	88.500	0.015	8.100		#DIV/0!
					5%ile	0.038	1.000	91.650	0.020	8.100		#NUM!
					compliance	yes	yes	yes	yes	yes		
					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