Annual Environmental Report

2022



Ballinasoe

D0032-01

CONTENTS

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2022 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 BALLINASLOE SECONDARY DISCHARGE TREATED DISCHARGE
 - 2.1.1 INFLUENT SUMMARY BALLINASLOE SECONDARY DISCHARGE
 - 2.1.2 EFFLUENT MONITORING SUMMARY BALLINASLOE SECONDARY DISCHARGE -
 - 2.1.3 Ambient Monitoring Summary for The Treatment Plant Discharge -
 - 2.1.4 OPERATIONAL REPORTS SUMMARY FOR BALLINASLOE SECONDARY DISCHARGE
 - 2.1.5 SLUDGE/OTHER INPUTS TO BALLINASLOE SECONDARY DISCHARGE
- 2.2 BALLINASLOE WWTP TREATED DISCHARGE
 - 2.2.1 INFLUENT SUMMARY BALLINASLOE WWTP
 - 2.2.2 EFFLUENT MONITORING SUMMARY BALLINASLOE WWTP -
 - 2.2.3 Ambient Monitoring Summary for The Treatment Plant Discharge -
 - 2.2.4 OPERATIONAL REPORTS SUMMARY FOR BALLINASLOE WWTP
 - 2.2.5 SLUDGE/OTHER INPUTS TO BALLINASLOE WWTP

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
 - 5.1 Priority Substances Assessment
 - 5.2 TOXICITY/LEACHATE MANAGEMENT
- 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 2022 AER

This Annual Environmental Report has been prepared for D0032-01, Ballinasloe, in Galway 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

The agglomeration is served by a wastewater treatment plant(s)

- Ballinasloe Secondary Discharge with a Plant Capacity PE of 100, the treatment type is 1 Primary treatment .
- Ballinasloe WWTP with a Plant Capacity PE of 13500, the treatment type is 3P Tertiary P removal .

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	
TPEFF1200D0032SW002	Ballinasloe Secondary Discharge	Treated	Non-Compliant	N/A	
TPEFF1200D0032SW001	Ballinasloe WWTP	Treated	Compliant	N/A	

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

There are no Licence Specific Reports included in this AER.

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 BALLINASLOE SECONDARY DISCHARGE - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - BALLINASLOE SECONDARY DISCHARGE

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
Ammonia-Total (as N) mg/l	1	0.035	N/A
Total Phosphorus (as P) mg/l	12	6.06	2.83
pH pH units	1	7.80	N/A
COD-Cr mg/l	12	618	374
Suspended Solids mg/l	13	545	174
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	12	200	101
ortho-Phosphate (as P) - unspecified mg/l	1	0.035	N/A
Hydraulic Capacity	N/A	N/A	13

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is greater than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'.

2.1.2 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)			
There is no	There is no Effluent data included in the AER.										

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):

There is no effluent data included in the AER to confirm an exceedance of ELV's.

Significance of Results:

The WWTP is non-compliant with the ELV's set in the Wastewater Discharge Licence. The impact of the receiving water is assessed further in Section 2.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT 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 Ecological Status
Downstream	185748, 231068	RS26S071300	No	No	No	No	Moderate

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 WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence for the following: .

Based on ambient monitoring results a deterioration in Ortho-Phosphate (as P) mg/l, concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it is or is not caused by the WWTP.

Other causes of deterioration in water quality in the area are unknown.

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

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - BALLINASLOE SECONDARY DISCHARGE

2.1.4.1 Treatment Efficiency Report - Ballinasloe Secondary Discharge

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)		
cBOD	147641	N/A	N/A		
ТР	4129	N/A	N/A		
TN	N/A	N/A	N/A		

Parameter	Influent mass loading (kg/year)	Efficiency (% reduction of influent load)			
COD	545630	N/A	N/A		
ss	253849	N/A	N/A		

Note: The above data is based on sample results for the number of dates reported

2.1.4.2 Treatment Capacity Report Summary - Ballinasloe Secondary Discharge

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Ballinasloe Secondary Discharge						
Peak Hydraulic Capacity (m³/day) - As Constructed	N/A					
DWF to the Treatment Plant (m³/day)	N/A					
Current Hydraulic Loading - annual max (m³/day)	N/A					
Average Hydraulic loading to the Treatment Plant (m³/day)	13					
Organic Capacity (PE) - As Constructed	100					
Organic Capacity (PE) - Collected Load (peak week)Note1	71					
Organic Capacity (PE) - Remaining	29					
Will the capacity be exceeded in the next three years? (Yes/No)	No					

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.1.5 SLUDGE / OTHER INPUTS - BALLINASLOE SECONDARY DISCHARGE

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)				
There is	There is no Sludge and Other Input data for the Treatment Plant included in the AER.										

2.2 BALLINASLOE WWTP - TREATED DISCHARGE

2.2.1 INFLUENT MONITORING SUMMARY - BALLINASLOE WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
Total Phosphorus (as P) mg/l	12	6.06	2.89
Suspended Solids mg/l	13	545	215
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	12	200	117
Ammonia-Total (as N) mg/l	1	0.035	0.035
ortho-Phosphate (as P) - unspecified mg/l	1	0.035	0.035
pH pH units	1	7.80	7.80

Parameters	Number of Samples	Annual Max	Annual Mean
COD-Cr mg/I	12	618	397
Hydraulic Capacity	N/A	9500	3186

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is less than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

2.2.2 EFFLUENT MONITORING SUMMARY - TPEFF1200D0032SW001

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	125	250	N/A	12	N/A	N/A	25	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	8.00	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	25	50	N/A	12	N/A	N/A	2.57	Pass
Ammonia-Total (as N) mg/l	2	2.4	N/A	12	N/A	N/A	0.037	Pass

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)
ortho-Phosphate (as P) - unspecified mg/l	1	1.2	N/A	12	N/A	N/A	0.062	Pass
pH pH units	N/A	N/A	N/A	12	N/A	N/A	7.29	

Notes:

Cause of Exceedance(s):

Not applicable

Significance of Results:

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

2.2.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1200D0032SW001

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

^{2 -} For pH the WWDA specifies a range of pH 6 - 9

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
Upstream	185477, 231416	RS26S071290	No	No	No	No	Moderate
Downstream	187334, 229145	RS26S071400	No	No	No	No	Moderate

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
BOD - 5 days (Total) mg/l	RS26S071290	1.20	RS26S071400	1.00	1.50	-13.1
Ammonia-Total (as N) mg/l	RS26S071290	0.035	RS26S071400	0.028	0.065	-11.6
ortho-Phosphate (as P) - unspecified mg/l	RS26S071290	0.035	RS26S071400	0.014	0.035	-60
Suspended Solids mg/l	RS26S071290	3.54	RS26S071400	N/A	N/A	
Temperature °C	RS26S071290	11	RS26S071400	12	N/A	
pH pH units	RS26S071290	7.55	RS26S071400	7.92	N/A	
Dissolved Oxygen mg/l	RS26S071290	10	RS26S071400	20	N/A	

Significance of Results:

The WWTP discharge was compliant with the ELV's set in the wastewater discharge licence.

The 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 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.

2.2.4 OPERATIONAL PERFORMANCE SUMMARY - BALLINASLOE WWTP

2.2.4.1 Treatment Efficiency Report - Ballinasloe WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
cBOD	128019	3580	97
TN	N/A	N/A	N/A
ТР	3167	N/A	N/A
COD	436058	35501	92
ss	229951	11155	95

Note: The above data is based on sample results for the number of dates reported

2.2.4.2 Treatment Capacity Report Summary - Ballinasloe WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Ballinasloe WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	10125
DWF to the Treatment Plant (m³/day)	3375
Current Hydraulic Loading - annual max (m³/day)	9500
Average Hydraulic loading to the Treatment Plant (m³/day)	3186
Organic Capacity (PE) - As Constructed	13500
Organic Capacity (PE) - Collected Load (peak week)Note1	8770
Organic Capacity (PE) - Remaining	4730
Will the capacity be exceeded in the next three years? (Yes/No)	No

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.2.5 SLUDGE / OTHER INPUTS - BALLINASLOE WWTP

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Landfill Leachate (delivered by tanker)	2356.7	Volume (m3)	28.7	0.2	No	No	No

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Landfill Leachate (delivered by sewer network)	59117	Volume (m3)	719.8	5.08	Yes	No	No
Waterworks Sludge	116060	Volume (m3)	1413	9.98	Yes	No	No
Domestic /Septic Tank Sludge	315	Volume (m3)	15.3	0.1	Yes	No	No
Domestic /Septic Tank Sludge	4883	Volume (m3)	59.4	0.42	Yes	No	No

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 2022.								

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	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	Yes

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer			
Number of Incidents in 2022	1			
Number of Incidents reported to the EPA via EDEN in 2022				
Explanation of any discrepancies between the two numbers above				

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 2022 (No. of events)	Total volume discharged in 2022 (m3)	Monitoring Status
SW006	184198,231738	Yes	Low Significance Meeting Criteria		Unknown	Unknown	Not Monitored
SW005	184064,229801	Yes	Low Significance Meeting Criteria		Unknown	Unknown	Not Monitored
SW004	185928,230488	Yes	Low Significance Meeting Criteria		Unknown	Unknown	Not Monitored
SW008	185431,230936	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW010	186891,230195	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW003	185721,231058	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

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 sewage was discharged via monitored SWOs in the agglomeration in the year (m3)?	Unknown			
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?				
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 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
D0032-SIP:01	Discontinue discharge from Imhoff Tank	С	31/12/2015	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.
D0032-SIP:02	SW002 Secondary Discharge Point to be Discontinued	С	31/12/2015	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.

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			Expected Completion Date	Comments			
No additional improvements planned at this time.							

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 Tables 4.2.1 and 4.2.2.

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	Year included in AER	Included in this AER		
Priority Substances Assessment	Yes	Yes 2021			
Toxicity/Leachate Management	Yes	2017	No		

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?			
List reason e.g. additional SWO identified			
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			
List reason e.g. changes to monitoring requirements			
Have these processes commenced?			
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A		

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

Signed: Date: 22/05/2023

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

Acting Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Ballinasloe WW - Secondary Discharge Down Stream 2022		Parameter	рН	Biological Oxygen Demand	Suspended Solids	Ortho- Phosphate P	Ammonia N	Temperature	Dissolved Oxygen
	<u></u>	Max.							
		Min.							
		Test Method							
Station	Sample Date	Analyst Conclus	pH units	mg/l	mg/l	mg/l	mg/l	Degrees C	mg/l
Ballinasloe WWTP: Downstream Secondary Discharge	10-Jan-2022	-	7.6	1.8	< 5	< 0.05	< 0.05	6.8	10.11
Ballinasloe WWTP: Downstream Secondary Discharge	7-June-2022	-	7.7	< 1	< 5	< 0.05	< 0.05	16.4	9.8
Ballinasloe WWTP: Downstream Secondary Discharge	21-Nov-2022	-	7.6	1.9	< 5	< 0.05	0.07	10.6	4.49