# **Annual Environmental Report**









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# **1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER**

This Annual Environmental Report has been prepared for D0367-01, Doogort, in Mayo 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)

• Doogort WWTP with a Plant Capacity PE of 700, the treatment type is 2 - Secondary treatment .

# **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
TPEFF2200D0367SW001	Doogort WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l

# **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 DOOGORT WWTP - TREATED DISCHARGE**

## **2.1.1 INFLUENT MONITORING SUMMARY - DOOGORT 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
COD-Cr mg/l	6	498	170
Suspended Solids mg/l	6	474	122
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	6	246	78
Hydraulic Capacity	N/A	211	110

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 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 - TPEFF2200D0367SW001

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	6	N/A	N/A	44	Pass
Suspended Solids mg/l	35	87.5	N/A	6	1	N/A	22	Pass
Total Oxidised Nitrogen (as N) mg/l	35	42	N/A	6	N/A	N/A	2.93	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	25	50	N/A	6	1	N/A	11	Pass
Ammonia-Total (as N) mg/l	10	12	N/A	6	1	1	6.64	Fail
pH pH units	9	9	N/A	6	N/A	N/A	7.52	Pass
E. Coli MPN/100ml	N/A	N/A	N/A	2	N/A	N/A	19864	
Enterococci (Intestinal) cfu/100ml	N/A	N/A	N/A	2	N/A	N/A	12465	
Faecal coliforms no./100mls	N/A	N/A	N/A	2	N/A	N/A	4604	

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):**

Refer to Incident Section of Report.

#### Significance of Results:

The WWTP is non compliant with the ELVs set in the Wastewater Discharge License. The impact on receiving waters is assessed further in Section 2.

# 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF2200D0367SW001

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	66937, 309566	CW22005286BC1001	Yes	No	No	No	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:

The coastal/transitional 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 WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence for the following: Ammonia-Total (as N) mg/l.

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. The discharge from the wastewater treatment plant does not have an observable impact on the bathing water quality.

## 2.1.4 OPERATIONAL PERFORMANCE SUMMARY - DOOGORT WWTP

#### 2.1.4.1 Treatment Efficiency Report - Doogort 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	3128	445	86
ТР	N/A	N/A	N/A
COD	6805	1760	74
SS	4885	897	82
ТN	N/A	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 - Doogort 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.

Doogort WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	153

Doogort WWTP	
DWF to the Treatment Plant (m <sup>3</sup> /day)	51
Current Hydraulic Loading - annual max (m³/day)	210.9
Average Hydraulic loading to the Treatment Plant (m³/day)	110
Organic Capacity (PE) - As Constructed	700
Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup>	525
Organic Capacity (PE) - Remaining	175
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 - DOOGORT 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)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							

# **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 2024.					

# **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	Recurring (Y/N)	Closed (Y/N)
Breach of ELV	WWTP operating above capacity	No	No

## **3.2.2 SUMMARY OF OVERALL INCIDENTS**

Question	Answer
Number of Incidents in 2024	1
Number of Incidents reported to the EPA via EDEN in 2024	1
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 (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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
SW003	69636, 308704	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW003	66919, 309070	Yes	Low Significance	Not Meeting Criteria	Unknown	Unknown	Not Monitored
твс	-, -	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

The contents presented in this table include the most up to date information available at the time of writing. Any TBC SWO(s) were identified as part of the ongoing National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much wastewater discharge by metered SWOs during the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	No
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?

# 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						
There are no Specified Improvement Programmes for this Agglomeration.													

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	Improvement Description / or any Operational	Improvement	Expected Completion	Comments								
Identifier	Improvements	Source	Date									
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	Included in this AER
D0367-01-Priority Substances Assessment	Yes	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?	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	N/A

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

Signed: Date: 26/05/2025

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

Head of Environmental Regulation.

# **7 APPENDIX**

#### Appendix

Appendix 7.1 - Ambient monitoring summary

County	Licence Ref.	Agglomeration	Receiving Water Body		Monitoring Result Source	Date																														
							рН	Temperature ( <sup>o</sup> C)	BOD mg/l	COD mg/l	SS mg/l	Total To Nitrogen Pf (as N) mg/I (a	ital hosphorus s P) mg/l	mmonia s N) mg/l	Drthophosphate  as P) mg/l	Dissolved Oxygen mg/I	Total Oxidised Nitrogen (as N) mg/l	Dissolved Inorganic Nitrogen (as N) mg/l	Faecal Coliforms cfu/100ml	Escherichia coli cfu/100ml	Enterococci	Visual Inspection	Water level	Conductivity	Nitrate	Chloride	Fluoride	Ammonium (NH4)	Major anions		Priority Subs	Metals & Organic Compounds	Salinity	Nitrate	Nitrite Ci	hlorophyll
Mayo	D0367-01	Doogort	Atlantic Ocean	Number of samples Required			6	5 0	6	0	6	0	0	6	0	0.0	6	0	6	6	6	52	 0 0	(	0 0	0	) (	0 0	0	0	0	0	0	0	0	0
Issued on	08/05/2015			Upstream																																_
				Downstream																																
				Ambient	Email	13-Feb-2024	8		< 1		56			0.44			< 0.2																32.2			
				Ambient	Email	11-Apr-2024	8.1		< 1		7			< 0.035			< 0.02																32.8			
				Ambient	Email	11-Apr-2024													< 1	< 1	83															
				Ambient	Email	8-Aug-2024	8.1		< 1		29			0.066			< 0.02																34.6			
				Ambient	Email	8-Aug-2024													< 1	< 1	27															
				Ambient	Email	10-Oct-2024	8.2		5.3		58			< 0.035			< 0.02																35.1			