# **Annual Environmental Report**



Frenchpark





#### **CONTENTS**

#### 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 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 FRENCHPARK WWTP TREATED DISCHARGE
  - 2.1.1 INFLUENT SUMMARY FRENCHPARK WWTP
  - 2.1.2 EFFLUENT MONITORING SUMMARY FRENCHPARK WWTP -
  - 2.1.3 Ambient Monitoring Summary for The Treatment Plant Discharge -
  - 2.1.4 OPERATIONAL REPORTS SUMMARY FOR FRENCHPARK WWTP
  - 2.1.5 SLUDGE/OTHER INPUTS TO FRENCHPARK 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

#### 6 CERTIFICATION AND SIGN OFF

- 6.1 SUMMARY OF AER CONTENTS
- 7 APPENDIX

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

This Annual Environmental Report has been prepared for D0376-01, Frenchpark, in Roscommon 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)

• Frenchpark WWTP with a Plant Capacity PE of 1500, 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
TPEFF2600D0376SW001	Frenchpark WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l pH pH units

## **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 FRENCHPARK WWTP - TREATED DISCHARGE**

## **2.1.1 INFLUENT MONITORING SUMMARY - FRENCHPARK 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	16	741	148
Ammonia-Total (as N) mg/l	13	53	17
Total Phosphorus (as P) mg/l	12	8.06	2.92
Total Nitrogen mg/l	12	71	27
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	12	281	61
Suspended Solids mg/l	16	300	41
Hydraulic Capacity	N/A	416	240

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.

## 2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF2600D0376SW001

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	100	200	N/A	17	N/A	N/A	15	Pass
Suspended Solids mg/l	25	62.5	N/A	17	1	N/A	3.95	Pass
pH pH units	9	9	N/A	12	1	1	8.27	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	8	16	N/A	12	N/A	N/A	1.04	Pass
Ammonia-Total (as N) mg/l	1	2	N/A	17	2	1	0.664	Fail
ortho-Phosphate (as P) - unspecified mg/l	0.5	0.6	N/A	17	N/A	N/A	0.039	Pass
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	13	
Conductivity @20°C μS/cm	N/A	N/A	N/A	13	N/A	N/A	1983	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	17	N/A	N/A	0.096	

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 the Report.

#### **Significance of Results:**

The WWTP is non compliant with the ELV's set out in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2.

## 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF2600D0376SW001

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
Upstream	173669, 290292	RS26C020100	No	No	No	No	Good
Downstream	176153, 290256	RS26C020200	No	No	No	No	Poor

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	RS26C020100	1.10	RS26C020200	1.60	1.50	33.3
Ammonia-Total (as N) mg/l	RS26C020100	0.030	RS26C020200	0.100	0.065	108.6
ortho-Phosphate (as P) - unspecified mg/l	RS26C020100	0.004	RS26C020200	0.026	0.035	62.2
Dissolved Oxygen mg/l	RS26C020100	12	RS26C020200	9.81	N/A	
pH pH units	RS26C020100	8.19	RS26C020200	7.78	N/A	
Temperature °C	RS26C020100	11	RS26C020200	11	N/A	
Dissolved Oxygen % Saturation	RS26C020100	108	RS26C020200	89	N/A	

#### Significance of Results:

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

The ambient monitoring results do not meet the required EQS at the downstream monitoring location. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

Based on ambient monitoring results a deterioration in Ammonia - Total (as N), ortho-Phosphate (as P) & BOD - 5 days (Total), concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it 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 have an observable negative impact on the Water Framework Directive status.

## **2.1.4 OPERATIONAL PERFORMANCE SUMMARY - FRENCHPARK WWTP**

#### 2.1.4.1 Treatment Efficiency Report - Frenchpark 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)
ТР	248	10	96
cBOD	5198	100	98
COD	13359	1656	88
TN	2270	1299	43
SS	3701	422	89

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

#### 2.1.4.2 Treatment Capacity Report Summary - Frenchpark 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.

Frenchpark WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	1125
DWF to the Treatment Plant (m³/day)	375
Current Hydraulic Loading - annual max (m³/day)	416

Frenchpark WWTP	
Average Hydraulic loading to the Treatment Plant (m³/day)	240
Organic Capacity (PE) - As Constructed	1500
Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup>	675
Organic Capacity (PE) - Remaining	825
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 - FRENCHPARK WWTP

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

Inpu type	t 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)		
The	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 environm	ental 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	Shock load to the WWTP	No	Yes

## **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
SW002	174446, 290575	Yes	Low Significance	Not Meeting Criteria	Unknown	Unknown	Monitored
твс	173867, 290447	Yes	Low Significance	Not 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)?	29942
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?	No
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	No

# 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.

Progra	ied Improvement ammes (under Schedule A of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
There	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
D0376-01-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: 21/05/2025

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

There are no Appendices included