# **Annual Environmental Report**





Mullingar

D0008-01

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# **1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2022 AER**

This Annual Environmental Report has been prepared for D0008-01, Mullingar, in Westmeath 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.

There were no capital works, significant changes or operational changes undertaken in 2022.

# **1.2 TREATMENT SUMMARY**

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

• Mullingar WWTP with a Plant Capacity PE of 55000, the treatment type is 3NP - Tertiary N&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 |
|---------------------------|-----------------|----------------|-------------------|--------------------------------|
| TPEFF3200D0008SW001       | Mullingar 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 MULLINGAR WWTP - TREATED DISCHARGE

## 2.1.1 INFLUENT MONITORING SUMMARY - MULLINGAR 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 |
|---|-------------------|------------|-------------|
| ortho-Phosphate (as P) - unspecified mg/l       | 18                | 5.26       | 2.37        |
| Ammonia-Total (as N) mg/l                       | 18                | 44         | 20          |
| pH pH units                                     | 18                | 7.50       | 7.10        |
| COD-Cr mg/l                                     | 18                | 582        | 247         |
| Total Phosphorus (as P) mg/l                    | 18                | 7.93       | 3.87        |
| BOD, 5 days with Inhibition (Carbonaceous) mg/l | 18                | 295        | 109         |
| Total Nitrogen mg/l                             | 18                | 54         | 29          |
| Suspended Solids mg/l                           | 18                | 309        | 112         |
| Hydraulic Capacity                              | N/A               | 24363      | 9118        |

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'.

## 2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF3200D0008SW001

| Parameter  | WWDL<br>ELV<br>(Schedule<br>A) | ELV with<br>Condition 2<br>Interpretation<br>included Note 1 | Interim %<br>reduction from<br>influent<br>concentration | Number<br>of<br>sample<br>results | Number of<br>exceedances | Number of<br>exceedances with<br>Condition 2<br>Interpretation<br>included | Annual<br>Mean | Overall<br>Compliance<br>(Pass/Fail) |
|--|--------------------------------|--|--|-----------------------------------|--------------------------|--|----------------|--------------------------------------|
| COD-Cr mg/l  | 125                            | 250  | N/A  | 58                                | N/A                      | N/A  | 20             | Pass                                 |
| Dissolved Oxygen<br>% Saturation                         | 50                             | 40   | N/A  | 40                                | N/A                      | N/A  | 94             | Pass                                 |
| Temperature °C   | 25                             | 25   | N/A  | 50                                | N/A                      | N/A  | 12             | Pass                                 |
| Suspended Solids mg/l                                    | 10                             | 25   | N/A  | 58                                | N/A                      | N/A  | 3.56           | Pass                                 |
| pH pH units  | 6.00                           | 9.00   | N/A  | 58                                | N/A                      | N/A  | 7.52           | Pass                                 |
| BOD, 5 days with<br>Inhibition<br>(Carbonaceous)<br>mg/I | 7.00                           | 14   | N/A  | 58                                | 1                        | N/A  | 1.28           | Pass                                 |
| Ammonia-Total<br>(as N) mg/l                             | 0.400                          | 0.800  | N/A  | 58                                | N/A                      | N/A  | 0.042          | Pass                                 |
| Total Phosphorus<br>(as P) mg/l                          | 0.300                          | 0.360  | N/A  | 58                                | N/A                      | N/A  | 0.094          | Pass                                 |

| Parameter                                       | WWDL<br>ELV<br>(Schedule<br>A) | ELV with<br>Condition 2<br>Interpretation<br>included Note 1 | Interim %<br>reduction from<br>influent<br>concentration | Number<br>of<br>sample<br>results | Number of<br>exceedances | Number of<br>exceedances with<br>Condition 2<br>Interpretation<br>included | Annual<br>Mean | Overall<br>Compliance<br>(Pass/Fail) |
|---|--------------------------------|--|--|-----------------------------------|--------------------------|--|----------------|--------------------------------------|
| ortho-Phosphate<br>(as P) -<br>unspecified mg/l | 0.200                          | 0.400  | N/A  | 58                                | N/A                      | N/A  | 0.062          | Pass                                 |
| Total Oxidised<br>Nitrogen (as N)<br>mg/l       | N/A                            | N/A  | N/A  | 58                                | N/A                      | N/A  | 3.72           |                                      |
| Nitrate (as N) mg/l                             | N/A                            | N/A  | N/A  | 58                                | N/A                      | N/A  | 3.76           |                                      |
| BOD - 5 days<br>(Total) mg/l                    | N/A                            | N/A  | N/A  | 2                                 | N/A                      | N/A  | 4.59           |                                      |
| Total Nitrogen<br>mg/l                          | N/A                            | N/A  | N/A  | 58                                | N/A                      | N/A  | 8.05           |                                      |
| Zinc - filtered µg/l                            | N/A                            | N/A  | N/A  | 12                                | N/A                      | N/A  | 39             |                                      |
| Dissolved Oxygen<br>mg/l                        | N/A                            | N/A  | N/A  | 43                                | N/A                      | N/A  | 10.00          |                                      |
| Conductivity<br>@20°C μS/cm                     | N/A                            | N/A  | N/A  | 58                                | N/A                      | N/A  | 566            |                                      |
| Dissolved Oxygen<br>% O2                        | N/A                            | N/A  | N/A  | 12                                | N/A                      | N/A  | 90             |                                      |
| Nitrite (as N) mg/l                             | N/A                            | N/A  | N/A  | 58                                | N/A                      | N/A  | 0.071          |                                      |

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):**

#### Not applicable

#### Significance of Results:

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

# 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF3200D0008SW001

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<br>(or as agreed with EPA) | Irish Grid<br>Reference | River Station<br>Code | Bathing<br>Water | Drinking<br>Water | FWPM | Shellfish | WFD Ecological<br>Status |
|---|-------------------------|-----------------------|------------------|-------------------|------|-----------|--------------------------|
| Upstream  | 244152, 255383          | RS25B280390           | No               | No                | No   | No        | Poor                     |
| Downstream  | 241711, 250261          | RS25B090100           | 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<br>Point Location | Upstream Monitoring<br>Point Annual Mean | Downstream<br>Monitoring Point<br>Location | Downstream Monitoring<br>Point Annual Mean | EQS   | % of<br>EQS |
|--|---------------------------------------|--|--|--|-------|-------------|
| BOD - 5 days (Total)<br>mg/l                 | RS25B280390                           | 1.47                                     | RS25B090100                                | 1.27                                       | 1.50  | -12.9       |
| Ammonia-Total (as N)<br>mg/l                 | RS25B280390                           | 0.080                                    | RS25B090100                                | 0.051                                      | 0.065 | -44.2       |
| ortho-Phosphate (as P)<br>- unspecified mg/l | RS25B280390                           | 0.039                                    | RS25B090100                                | 0.048                                      | 0.035 | 23.7        |
| pH pH units                                  | RS25B280390                           | 7.44                                     | RS25B090100                                | 7.27                                       | N/A   |             |
| Conductivity @20°C<br>µS/cm                  | RS25B280390                           | 456                                      | RS25B090100                                | 480  | N/A   |             |
| Temperature °C                               | RS25B280390                           | 12                                       | RS25B090100                                | 13   | N/A   |             |
| Coliform Bacteria<br>(Total) no./100mls      | RS25B280390                           | 9413                                     | RS25B090100                                | 6440                                       | N/A   |             |
| Dissolved Oxygen %<br>Saturation             | RS25B280390                           | 90                                       | RS25B090100                                | 78   | N/A   |             |
| COD-Cr mg/l                                  | RS25B280390                           | 27                                       | RS25B090100                                | 26   | N/A   |             |
| Faecal coliforms<br>cfu/100ml                | RS25B280390                           | 3845                                     | RS25B090100                                | 693  | N/A   |             |
| Dissolved Oxygen mg/l                        | RS25B280390                           | 9.67                                     | RS25B090100                                | 8.34                                       | N/A   |             |
| Faecal coliforms<br>no./100mls               | RS25B280390                           | 1185                                     | RS25B090100                                | 728  | N/A   |             |

| Parameter Name                  | Upstream Monitoring<br>Point Location | Upstream Monitoring<br>Point Annual Mean | Downstream<br>Monitoring Point<br>Location | Downstream Monitoring<br>Point Annual Mean | EQS | % of<br>EQS |
|---------------------------------|---------------------------------------|--|--|--|-----|-------------|
| E. Coli cfu/100ml               | RS25B280390                           | 10452                                    | RS25B090100                                | 1646                                       | N/A |             |
| Zinc - filtered µg/l            | RS25B280390                           | 20                                       | RS25B090100                                | 15   | N/A |             |
| Total Nitrogen mg/l             | RS25B280390                           | 2.33                                     | RS25B090100                                | 3.01                                       | N/A |             |
| Total Phosphorus (as P)<br>mg/l | RS25B280390                           | 0.136                                    | RS25B090100                                | 0.136                                      | N/A |             |

#### Significance of Results:

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

The ambient monitoring results do not meet the required EQS at the upstream and the downstream monitoring locations. 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 Ortho-P 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.

As per the 3rd Cycle Lower Shannon (Brosna) Catchment Report (HA 25A), the significant pressures on the At Risk Brosna\_030 waterbody are Forestry and Urban Runoff. The Mullingar WWTP is not listed as a significant pressure in the Cycle 3 report.

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 - MULLINGAR WWTP

#### 2.1.4.1 Treatment Efficiency Report - Mullingar 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) |  |  |
|-----------|---------------------------------|----------------------------------|---|--|--|
| TN        | 95140                           | 25408                            | 73  |  |  |
| ТР        | 12596                           | 297                              | 98  |  |  |
| cBOD      | 354040                          | 4047                             | 99  |  |  |
| COD       | 803720                          | 64576                            | 92  |  |  |
| SS        | 363534                          | 11245                            | 97  |  |  |

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

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

| Mullingar WWTP  |        |
|---|--------|
| Peak Hydraulic Capacity (m³/day) - As Constructed                   | 37125  |
| DWF to the Treatment Plant (m³/day)                                 | 12375  |
| Current Hydraulic Loading - annual max (m³/day)                     | 24363  |
| Average Hydraulic loading to the Treatment Plant (m³/day)           | 9118.4 |
| Organic Capacity (PE) - As Constructed                              | 55000  |
| Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup> | 26678  |
| Organic Capacity (PE) - Remaining                                   | 28322  |
| 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 - MULLINGAR WWTP

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

| Input type           | Quantity | Unit               | P.E. | % of load<br>to WWTP | Included in<br>Influent<br>Monitoring (Y/N)? | Is there a leachate/sludge<br>acceptance procedure for the<br>WWTP? | Is there a dedicated<br>leachate/sludge acceptance<br>facility for the WWTP? (Y/N) |
|----------------------|----------|--------------------|------|----------------------|--|---|--|
| Waterworks<br>Sludge | 15656.05 | Weight<br>(Tonnes) | 190  | 0.47                 | Yes  | Yes   | Yes  |

# **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 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                                   | batement Equipment offline Plant or equipment breakdown at WWTP |                             | No              | Yes          |
| Abatement Equipment offline Plant or equipment breakdown at V |   | 1                           | No              | No           |
| Abatement Equipment offline                                   | Plant or equipment breakdown at WWTP                            | 1                           | No              | No           |

| Incident Type        | Cause           | No. of incident occurrences | Recurring (Y/N) | Closed (Y/N) |
|----------------------|-----------------|-----------------------------|-----------------|--------------|
| Uncontrolled release | Adverse Weather | 1                           | No              | Yes          |

## **3.2.2 SUMMARY OF OVERALL INCIDENTS**

| Question   | Answer |
|--|--------|
| Number of Incidents in 2022                                    | 4      |
| Number of Incidents reported to the EPA via EDEN in 2022       | 4      |
| 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<br>for Storm Water<br>Overflow (chamber)<br>where applicable | Irish Grid<br>Ref.<br>(outfall) | Included in<br>Schedule of<br>the WWDL | Significance of the<br>overflow(High /<br>Medium / Low) | Assessed<br>against<br>DoEHLG<br>Criteria | No. of times<br>activated in<br>2022 (No. of<br>events) | Total volume<br>discharged in<br>2022 (m³) | Monitoring<br>Status |
|---|---------------------------------|--|---|---|---|--|----------------------|
| SW13  | 244719<br>253996                | Yes                                    | Low Significance  | Meeting<br>Criteria                       | Unknown   | Unknown                                    | Not<br>Monitored     |
| твс   | 243169<br>251927                | Yes                                    | Low Significance  | Meeting<br>Criteria                       | Unknown   | Unknown                                    | Not<br>Monitored     |
| SW2   | 243169<br>251927                | Yes                                    | Low Significance  | Meeting<br>Criteria                       | 0   | 0  | Monitored            |
| SW4   | 243297<br>251750                | Yes                                    | Low Significance  | Meeting<br>Criteria                       | Unknown   | Unknown                                    | Not<br>Monitored     |
| SW6   | 243791<br>252368                | Yes                                    | Low Significance  | Meeting<br>Criteria                       | Unknown   | Unknown                                    | Not<br>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 (m <sup>3</sup> )? | 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?                           | Yes |
| 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.

| Specified Improvement<br>Programmes (under<br>Schedule A and C of<br>WWDL) | Description   | Licence<br>Schedule | Licence<br>Completion<br>Date | Date<br>Expired?<br>(N/NA/Y) | Status of<br>Works | Timeframe for<br>Completing the<br>Work | Comments |
|--|---|---------------------|-------------------------------|------------------------------|--------------------|---|----------|
| D0008-SIP:01   | WWTP and ancillary works to<br>be constructed and<br>commissioned | С                   | 01/05/2009                    | Yes                          | Works<br>Completed |   |          |

| Specified Improvement<br>Programmes (under<br>Schedule A and C of<br>WWDL) | Description   | Licence<br>Schedule | Licence<br>Completion<br>Date | Date<br>Expired?<br>(N/NA/Y) | Status of<br>Works | Timeframe for<br>Completing the<br>Work | Comments |
|--|---|---------------------|-------------------------------|------------------------------|--------------------|---|----------|
| D0008-SIP:02   | Construction of interceptor sewer and main lift pumping station | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:03   | Discharge to cease: SW10 to<br>River Brosna                     | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:04   | Discharge to cease: SW11 to<br>River Brosna                     | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:05   | Discharge to cease: SW12 to<br>River Brosna                     | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:06   | Discharge to cease: SW3 to<br>River Brosna                      | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:07   | Discharge to cease: SW5 to<br>River Brosna                      | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:08   | Discharge to cease: SW7 to<br>River Brosna                      | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:09   | Discharge to cease: SW8 to<br>River Brosna                      | A                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:10   | Discharge to cease: SW9 to<br>River Brosna                      | С                   | 01/05/2009                    | Yes                          | Works<br>Completed |   |          |

| Specified Improvement<br>Programmes (under<br>Schedule A and C of<br>WWDL) | Description   | Licence<br>Schedule | Licence<br>Completion<br>Date | Date<br>Expired?<br>(N/NA/Y) | Status of<br>Works | Timeframe for<br>Completing the<br>Work | Comments |
|--|---|---------------------|-------------------------------|------------------------------|--------------------|---|----------|
| D0008-SIP:11   | Installation of main storm water<br>storage tank (6000m3) & storm<br>water storage tank at treatment<br>plant (650m3) | С                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:12   | Upgrade of storm water<br>overflow SW13 to comply with<br>DoE criteria  | С                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:13   | Upgrade of storm water<br>overflow SW2 to comply with<br>DoE criteria   | С                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:14   | Upgrade of storm water<br>overflow SW4 to comply with<br>DoE criteria   | С                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |
| D0008-SIP:15   | Upgrade of storm water<br>overflow SW6 to comply with<br>DoE criteria   | С                   | 31/01/2011                    | Yes                          | Works<br>Completed |   |          |

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 | Year included in AER | Included in this AER |
|--------------------------------|---------------------|----------------------|----------------------|
| Habitats Impact Assessment     | Yes                 | 2010                 | No                   |
| Priority Substances Assessment | Yes                 | 2010                 | No                   |
| Toxicity of Final Effluent     | Yes                 | 2016                 | No                   |
| Toxicity/Leachate Management   | Yes                 | 2010                 | 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?  | 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   | Yes                                    |
| List reason e.g. changes to monitoring requirements  | Ambient Monitoring<br>Location Changes |
| Have these processes commenced?  | No                                     |
| 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:

Date: 27/02/2023

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

There are no Appendices included.