

Annual Environmental Report 2015

| | |
|-----------------------------|-----------------|
| Agglomeration Name: | Ballivor |
| Licence Register No. | D0254-01 |



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Section 1. Executive Summary and Introduction to the 2015 AER

1.1 Summary Report on 2015

This Annual Environmental Report has been prepared for D0254-01, Ballivor, in County Meath, in accordance with the requirements of the wastewater discharge licence for the agglomeration.

There are no specified assessment reports included in this AER.

The agglomeration is served by a wastewater treatment plant with a Design PE of 2,000.

The treatment process includes the following:-

- Preliminary Treatment (screening/grit removal)
- Primary Treatment
- Secondary Treatment (conventional activated sludge/SBR/RBC)
- Nutrient Removal (conventional activated sludge/SBR/RBC)
- Tertiary Treatment (Sand Filter)

The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2015.

9,320kgs total weight sludge was removed from the wastewater treatment plant in 2015 as liquid sludge. Liquid Sludge is transferred to Farganstown Navan WWTP. 191, 450kgs of Sludge cake was removed from the wastewater treatment plant. Sludge cake is transferred to P Brady, Rosmeen, Kells Co. Meath.

There was no major capital or operational changes undertaken in 2014.

An Annual Statement of Measures is included in Appendix 7.1.

Section 2. Monitoring Reports Summary

2.1 Summary report on monthly influent monitoring

Table 2.1 Influent Monitoring Summary

| 2.1.1 Monthly Influent Monitoring | BOD (mg / l) | COD (mg / l) | SS (mg / l) | TP (mg / l) | TN (mg / l) | Hydraulic Loading (m³/d) | Organic Loading (PE/Day) |
|--|-------------------------|-------------------------|------------------------|------------------------|------------------------|--|---|
| Number of Samples | 12 | 12 | 12 | 12 | 12 | | |
| Annual Max. | 209 | 890 | 581.81 | 17.3 | 72.2 | 1,110 | 1,510 |
| Annual Mean | 135.03 | 315.98 | 160.37 | 5.24 | 40.82 | 524.92 | 965.46 |

Significance of results

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity as detailed further in Section 3.2

The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity as detailed further in Section 3.2.

The annual mean organic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.

The annual maximum organic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.

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 Discharges from the agglomeration

Table 2.2 - Effluent Monitoring

| 2.2.1 Effluent Monitoring Summary | BOD (mg/l) | COD (mg/l) | TSS (mg/l) | Total P (mg/l) | Ortho P (mg/l) | Ammonia NH₃ (mg/l) |
|---|-------------------|-------------------|-------------------|-----------------------|-----------------------|--------------------------------------|
| % Reduction Value | | | | | | |
| % Reduction Result | 135.03 | 315.98 | 160.37 | 5.24 | | |
| WWDL ELV (Schedule A) where applicable | 5 | 125 | 35 | | 0.5 | 1 |
| ELV with Condition 2 Interpretation included | 10 | 250 | 87.5 | | 0.6 | 2 |
| Number of sample results | 12 | 12 | 12 | 12 | 12 | 12 |
| Number of sample results above WWDL ELV | 1 | 0 | 0 | 0 | 0 | 0 |
| Number of sample results above ELV with Condition 2 Interpretation | 0 | 0 | 0 | 0 | 0 | 0 |
| Annual Mean (for parameters where a mean ELV applies) | 3.78 | 24.10 | 7.89 | 0.23 | 0.14 | 0.14 |
| Overall Compliance (Pass/Fail) | Pass | Pass | Pass | | Pass | Pass |

Significance of results

The WWTP was compliant with the ELV's set in the wastewater discharge licence. The impact on receiving waters is assessed further in Section 2.3.

2.3. Ambient Monitoring Summary

Table 2.3. Ambient Monitoring Report Summary Table

| Ambient Monitoring Point from WWDL (or as agreed with EPA) | Irish Grid Reference | EPA Feature Coding Tool code | Receiving Waters Designation (Y/N) | | | | WFD Status | Does assessment of the ambient monitoring results indicate that the discharge is impacting on water quality? |
|--|----------------------|------------------------------|------------------------------------|----------------|------|-----------|------------|--|
| | | | Bathing Water | Drinking Water | FWPM | Shellfish | | |
| Upstream monitoring point | 289384E 262591N | RS07B041600 | n/a | n/a | n/a | n/a | Moderate | n/a |
| Downstream monitoring point | 289791E 263467N | RS07B041650 | N | N | N | N | Moderate | No |

The results for the upstream and downstream monitoring are included as in Appendix 7.2.

Significance of results

- The WWTP was compliant with the ELVs set in the wastewater discharge licence as detailed in Section 2.2
- Based on the 2015 ambient monitoring a deterioration in water quality has been identified downstream, however it is not known if it is or is not caused by the WWTP.
- The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.
- Other potential causes of deterioration in water quality relevant to this area unknown.

2.4 Data collection and reporting requirements under the UWWTD

The electronic submission of data was completed on 22nd January 2016

2.5 Pollutant Release and Transfer Register (PRTR) - report for previous year

A PRTR is not required for this AER.

Section 3. Operational Reports Summary

3.1 Treatment Efficiency Report

| | cBOD (kg/yr) | COD (kg/yr) | SS (kg/yr) | Total P (kg/yr) | Total N (kg/yr) | Ortho P as P (kg/yr) | Ammonia as N |
|--|-----------------|----------------|------------|--------------------|--------------------|-------------------------|-----------------|
| Influent mass loading (kg/year) | 21,143 | 49,477 | 25,111 | 820 | 6,393 | 697.00 | 4,719.00 |
| Effluent mass emission (kg/year) | 534 | 3,256 | 1,034 | 29 | 2,908 | 18.25 | 18.25 |
| % Efficiency (% reduction of influent load) | 97% | 93% | 96% | 96% | 55% | 97% | 99% |

3.2 Treatment Capacity Report

Table 3.2 - Treatment Capacity Report Summary

| | |
|---|---------|
| Hydraulic Capacity – Design / As Constructed (dry weather flow) (m ₃ /year) | 164,250 |
| Hydraulic Capacity – Design / As Constructed (peak flow) (m ₃ /year) | 492,750 |
| Hydraulic Capacity – Current loading (m ₃ /year) | 191,594 |
| Hydraulic Capacity – Remaining (m ₃ /year) | 301,156 |
| Organic Capacity - Design / As Constructed (PE) | 2,000 |
| Organic Capacity - Current loading (PE) | 965 |
| Organic Capacity – Remaining (PE) | 1,035 |
| Will the capacity be exceeded in the next three years? (Yes / No) | No |
| Is an upgrade or expansion of the WWTP proposed? (i.e. if on Minor Programme or CIP) (Yes/No) | No |

3.3 Extent of Agglomeration Summary Report

In this section Irish Water is required to report on the amount of urban waste water generated within the agglomeration. It does not include any waste water collected and created in a private system and discharged to water under a Section 4 Licence issued under the Water Pollution Acts 1977 (as amended).

Table 3.3 - Extent of Agglomeration Summary Report

| | % of total load generated in the agglomeration |
|---|---|
| Load generated in the agglomeration that is collected in the sewer network | 100% |
| Load collected in the agglomerations that enters treatment plant | Unknown |
| Load collected in the sewer network but discharges without treatment | Unknown |

Load generated in the agglomeration that is collected in the sewer network is the total load generated and collected in the municipal network within the boundary of the agglomeration.

Load collected in the agglomerations that enters treatment plant is that portion of the previous figure which enters the waste water treatment plant.

Load collected but discharged without treatment is that portion of the first figure which is discharged without treatment.

The data in Table 3.3 above is based on influent monitoring as detailed in Section 2.1 above.

3.4 Complaints Summary

A summary of complaints of an environmental nature is included below.

Table 3.4 - Complaints Summary Table

| Number | Date & Time | Nature of Complaint | Cause of Complaint | Actions taken to resolve issue | Closed (Y/N) |
|----------------|------------------------|--|--|---------------------------------------|---------------------|
| 72932172 12 | 05/02/2015 14:47 | Below Ground Waste Investigation Blockage. | Customer called to report sewerage backing up from manhole at side of the house. | Jet vacced, blockage in line cleared. | Y |
| 234502 | 28/01/2015 16:01 | Below Ground Waste Investigation Blockage. | Customer called to say that there is a problem on the sewer on the main road. | Jet vacced, blockage in line cleared. | y |
| 51422062 73 | 16/04/2015 18:55 | Below Ground Waste Investigation Blockage. | Blocked sewer on the public mains sewer. | Jet vacced, blockage in line cleared. | Y |
| 57601876 59 | 23/04/2015 10:14 | Below Ground Waste Investigation Blockage. | Customer called in to state that she believes there is a main blockage on | Jet vacced, blockage in line cleared. | Y |

| Number | Date & Time | Nature of Complaint | Cause of Complaint | Actions taken to resolve issue | Closed (Y/N) |
|----------------|---------------------|--|--|---------------------------------------|--------------|
| | | | the main line. | | |
| 80434165 51 | 25/08/2015 10:19 | Below Ground Waste Investigation Blockage | Customer called to report a blocked sewer on the main road. | Jet vacced, blockage in line cleared. | Y |
| 71198261 16 | 08/07/2015 10:51 | Below Ground Waste Investigation Blockage. | Customer called to report a blockage coming from the public side. | Jet vacced, blockage in line cleared. | Y |
| 40305460 79 | 30/09/2015 15:25 | Below Ground Waste Investigation Blockage. | Customer rang to report that there is raw sewerage backing up into her property since yesterday. | Jet vacced, blockage in line cleared. | Y |

3.5 Reported Incidents Summary

A summary of reported incidents is included below.

Table 3.5.1 - Summary of Incidents

| 3.5.1 Incident Type (e.g. Non-compliance, Emission, spillage, pollution incident) | Incident Description | Cause | No. of Incidents | Corrective Action | Authorities Contacted. Note 1 | Reported to EPA (Yes/No) | Closed (Yes/No) |
|--|-----------------------------|---|-------------------------|-----------------------------|--------------------------------------|---------------------------------|------------------------|
| Non Compliance | Broken Screens | Broken Screens from Inlet works to Storm Water Overflow | 1 | Screens proposed for fixing | Yes | Yes | No |

Note 1: For shellfish waters notify the Marine Institute (MI) Sea Fisheries Protection Authority (SFPA) Food Safety Authority (FSAI) and An Bord Iascaigh Mhara (BIM). This should also include any other authorities that should be contacted arising from the findings of any Licence Specific Reports also e.g. Drinking Water Abstraction Impact Risk Assessment, Fresh Water Pearl Mussel Impact Assessments etc.

Table 3.5.2 - Summary of Overall Incidents

| | |
|---|-----|
| Number of Incidents in 2015 | 1 |
| Number of Incidents reported to the EPA via EDEN in 2015 | 1 |
| Explanation of any discrepancies between the two numbers above | N/A |

3.6 Sludge / Other inputs to the WWTP

There are no 'Other inputs' to the waste water treatment plant.

Table 3.6 - Other Inputs

| Input Type | m3/year | PE/year | % of load to WWTP | Is there a leachate/sludge acceptance procedure for the WWTP? (Y/N) | Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N) |
|---|---------|---------|-------------------|---|--|
| Domestic /Septic Tank Sludge | 0 | 0 | 0.00% | No | No |
| Industrial / Commercial Sludge | 0 | 0 | 0.00% | No | No |
| Landfill Leachate (delivered by tanker) | 0 | 0 | 0.00% | No | No |
| Landfill Leachate (delivered by sewer network) | 0 | 0 | 0.00% | No | No |
| Other (specify) | 0 | 0 | 0.00% | No | No |

Notes:

1. Other Inputs include; septic tank sludge, industrial /commercial sludge, landfill leachate and any other sludge that is collected and added to the treatment plant.
2. Sludge that is added to a dedicated sludge reception facility at a waste water treatment plant not include d in Table 3.6. Only include sludge which is added to the waste water treatment process stream. Enter zero where there are no inputs.

Section 4. Infrastructure Assessments and Programme of Improvements

4.1 Storm water overflow identification and inspection report

The Storm Water Overflow Identification & Inspection report was submitted in the 2014 AER. A summary of the significance and operation is included below.

Table 4.1.1 - SWO Identification and Inspection Summary Report

| WWDL Name / Code for Storm Water Overflow | Irish Grid Ref. | Included in Schedule A4 of the WWDL | Significance of the overflow (High/Med/Low) | Compliance with DoEHLG criteria | No. of times activated in 2015 (No. of events) | Total volume discharged in 2015 (m ³) | Total volume discharged in 2015 (P.E.) | Estimated / Measured data |
|---|--------------------|-------------------------------------|---|---------------------------------|--|---|--|---------------------------|
| SW002 | 269071E 253830N | Yes | Low | Compliant | Unknown | Unknown | Unknown | E |

Table 4.1.2 - SWO Identification and Inspection Summary Report

| | |
|---|---------|
| How much sewage was discharged via SWOs in the agglomeration in the year (m3/yr)? | Unknown |
| How much sewage was discharged via SWOs in the agglomeration in the year (p.e.)? | Unknown |
| What % of the total volume of sewage generated in the agglomeration was discharged via SWOs in the agglomeration in 2015? | Unknown |
| Is each SWO identified as non-compliant with DoEHLG Guidance included in the Programme of Improvements? | N/A |
| The SWO assessment includes the requirements of relevant WWDL Schedules (Yes/No) | Yes |
| Have the EPA been advised of any additional SWOs / changes to Schedules A/C under Condition 1? | N/A |

4.2 Report on progress made and proposals being developed to meet the improvement programme requirements.

In 2016 existing hydraulic constraints will be remedied by replacing pipe work between the aeration tanks and clarifiers and raising the outlet weirs in the clarifiers which will increase capacity of wastewater treatment works.

There are no specified improvements works in the licence.

Table 4.2.1 - Specified Improvement Programme Summary

| Specified Improvement Programmes | Licence Schedule | Licence Completion Date | Date Expired | Status of Works | % Construction Work Completed | Licensee Timeframe for Completing the Work | Comments |
|----------------------------------|------------------|-------------------------|--------------|-----------------|-------------------------------|--|----------|
| None | | | | | | | |

There are no improvements identified by under Condition 5.2.

Table 4.2.2 - Improvement Programme Summary

| Improvement Identifier | Improvement Description | Improvement Source | Progress (% completed) | Expected Completion Date | Comments |
|---------------------------------------|-------------------------|--|------------------------|--------------------------|------------------------------|
| | | WWTP assessment (Condition 5.2). | | | |
| Sewer Integrity Tool (Condition 5.2). | N/A | Sewer Integrity Tool (Condition 5.2). | 100% | | See Appendix 7.5 of 2014 AER |
| SWO Assessment | | SWO Assessment (Condition 4 & 5.2). | 100% | | See Appendix 7.3 of 2014 AER |
| Priority Substances | None | Elimination/Reduction of Priority Substances | 100% | | See Appendix 7.6 of 2014 AER |

Table 4.2.3 - Sewer Integrity Risk Assessment Tool Summary

| The Improvement Programme should include an assessment of the integrity of the existing wastewater works for the following: | Risk Assessment Rating (High, Medium, Low) | Risk Assessment Score | Comment |
|--|---|------------------------------|------------------------------|
| Hydraulic Risk Assessment Score | High | 140 | See Appendix 7.5 of 2014 AER |
| Environmental Risk Assessment Score | Low | 110 | |
| Structural Risk Assessment Score | High | 150 | |
| Operation & Maintenance Risk Assessment Score | Low | 20 | |
| Overall Risk Score for the agglomeration | High | 420 | |

Section 5. Licence Specific Reports

Licence Specific Reports Summary Table

| Licence Specific Report | Required in this AER or outstanding from previous AER | Included in this AER / Remains outstanding | Reference to previous AER containing report or relevant section of this AER |
|---|---|--|---|
| Priority Substances Assessment | No | N/A | See 2014 AER |
| Drinking Water Abstraction Point Risk Assessment | N/A | N/A | N/A |
| Habitats Impact Assessment | N/A | N/A | N/A |
| Shellfish Impact Assessment | N/A | N/A | N/A |
| Pearl Mussel Report | N/A | N/A | N/A |
| Toxicity/Leachate Management | N/A | N/A | N/A |
| Toxicity of Final Effluent Report | N/A | N/A | N/A |

Licence Specific Reports Summary of Findings

| Licence Specific Report | Recommendations in Report | Summary of Recommendations in Report |
|---|---------------------------|--------------------------------------|
| Priority Substances Assessment | No | N/A |
| Drinking Water Abstraction Point Risk Assessment | N/A | |
| Shellfish Impact Assessment | N/A | |
| Pearl Mussel Report | N/A | |
| Toxicity/Leachate Management | N/A | |
| Toxicity of Final Effluent Report | N/A | |
| Habitats Impact Assessment | N/A | |

5.1 Priority Substances Assessment

The Priority Substances Assessment report was submitted in the 2014 AER. A summary of the findings of this report is included below.

| | |
|---|---|
| | Licensee self- assessment checks to determine whether all relevant information is included in the Assessment. |
| Does the assessment use the Desk Top Study Method or Screening Analysis to determine if the discharge contains the parameters in Appendix 1 of the EPA guidance | Desk Top Study |
| Does the assessment include a review of Trade inputs to the works? | Yes |
| Does the assessment include a review of other inputs to the works? | Yes |
| Does the report include an assessment of the significance of the results where a listed material is present in the discharge? (e.g. impact on the relevant EQS standard for the receiving water) | Yes |
| Does the assessment identify that priority substances may be impacting the receiving water? | No |
| Does the Improvement Programme for the agglomeration include the elimination / reduction of all priority substances identified as having an impact on receiving water quality? | No |
| Recommendations | Yes |
| Status of any improvement measures required | N/A |

5.2 Drinking Water Abstraction Point Risk Assessment.

Not required under this licence.

5.3 Shellfish Impact Assessment Report.

Not required under this licence.

5.4 Toxicity / Leachate Management

Not required under this licence.

5.5 Toxicity of the Final Effluent Report

Not required under this licence.

5.6 Pearl Mussel Measures Report

Not required under this licence.

5.7 Habitats Impact Assessment Report

Not required under this licence.

Section 6. Certification and Sign Off

Table 6.1 - Summary of AER Contents

| | |
|--|-----|
| 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 modifications to the existing WWDL? Refer to Condition 1.7 (changes to works/discharges) & Condition 4 (changes to monitoring location, frequency etc.) | No |
| List reason e.g. failure to complete specified works within dates specified in the licence, changes to monitoring requirements | n/a |
| Have these processes commenced? (i.e. Request for Technical Amendment / Licence Review / Change Request) | n/a |
| Are all outstanding reports and assessments from previous AERs included as an appendix to this AER? | n/a |
| List outstanding reports | n/a |

Declaration by Irish Water

The AER contains the following:

- Introduction and background to 2015 AER.
- Monitoring Reports Summary.
- Operational Reports Summary.
- Infrastructural Assessment and Programme of Improvements.
- Licence specific reports
- Certification and Sign Off
- Appendices

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

Signed: 
Gerry Galvin
 Chief Technical Advisor

Date: 15/02/2016

Section 7. Appendix

Appendix 7.1 - Annual Statement of Measures

Appendix 7.2 - Ambient Monitoring Summary

Appendix 7.1

Annual Statement of Measures

No additional measures have been taken in 2015 in relation to the prevention of environmental damage. The need for measures to prevent environmental damage will be reviewed on an annual basis.

Appendix 7.2

Ambient Monitoring

| | Date | Ammonia mgN/L | Ortho P mgP/L | DO | BOD mg/L | Total N mg/L |
|--------------|----------------|------------------|------------------|---------------|--------------|-----------------|
| U/S BALLIVOR | 30/03/2015 | 0.199 | 0.05 | 9.89 | 2.69 | 2.2 |
| U/S BALLIVOR | 12/05/2015 | 0.153 | 0.065 | 8.2 | 2.99 | 2.56 |
| U/S BALLIVOR | 03/06/2015 | 0.043 | 0.047 | 9.2 | 1.63 | 1.6 |
| U/S BALLIVOR | 25/06/2015 | 0.095 | 0.056 | 7.6 | 1.83 | 1.36 |
| U/S BALLIVOR | 11/08/2015 | 0.07 | 0.067 | 6.3 | 1.66 | 0.953 |
| U/S BALLIVOR | 30/09/2015 | 0.037 | 0.046 | 8.4 | 1.5 | 0.957 |
| U/S BALLIVOR | 29/09/2015 | 0.572 | 0.071 | 8.2 | 3.41 | 2.34 |
| U/S BALLIVOR | 11/11/2015 | 0.282 | 0.115 | 7.6 | 3.72 | 3.31 |
| U/S BALLIVOR | 23/11/2015 | 0.133 | 0.039 | 10.6 | 2.63 | 2.04 |
| U/S BALLIVOR | 24/11/2015 | 0.197 | 0.047 | 9.8 | 2.86 | 2.07 |
| | Mean | 0.178 | 0.060 | 8.579 | 2.492 | 1.939 |
| | 95% ile | 0.442 | 0.095 | 10.281 | 3.581 | 2.973 |
| D/S BALLIVOR | 30/03/2015 | 0.193 | 0.062 | 9.85 | 2.68 | 2.42 |
| D/S BALLIVOR | 12/05/2015 | 0.138 | 0.063 | 8.8 | 4.46 | 2.62 |
| D/S BALLIVOR | 03/06/2015 | 0.62 | 0.036 | 9.1 | 6.3 | 3.62 |
| D/S BALLIVOR | 25/06/2015 | 0.057 | 0.067 | 7 | 1.75 | 3.4 |
| D/S BALLIVOR | 11/08/2015 | 0.064 | 0.091 | 7.7 | 1.84 | 0.091 |
| D/S BALLIVOR | 30/09/2015 | 0.081 | 0.091 | 9 | 2.6 | 9.28 |
| D/S BALLIVOR | 29/09/2015 | 0.432 | 0.083 | 8.3 | 4.87 | 2.59 |
| D/S BALLIVOR | 11/11/2015 | 0.398 | 0.132 | 7.8 | 4.93 | 3.3 |
| D/S BALLIVOR | 23/11/2015 | 0.498 | 0.075 | 10.5 | 5.1 | 2.54 |
| D/S BALLIVOR | 24/11/2015 | 0.441 | 0.053 | 9.7 | 3.39 | 2.34 |
| | Mean | 0.292 | 0.075 | 8.775 | 3.792 | 3.220 |
| | 95% ile | 0.565 | 0.114 | 10.208 | 5.760 | 6.733 |