

# Annual Environmental Report

2021



Castlefinn

D0514-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0514-01, Castlefinn, in Donegal 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 was no major capital or operational changes undertaken. WWTP still remains not fully operational since flooding in November and December 2015.

## 1.2 TREATMENT SUMMARY

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

- Castlefinn Secondary Discharge with a Plant Capacity PE of 100, the treatment type is 0 - Preliminary treatment
- Castlefinn WWTP with a Plant Capacity PE of 600, the treatment type is 1 - Primary 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
TPEFF0600D0514SW002	Castlefinn Secondary Discharge	Treated	Compliant	N/A
TPEFF0600D0514SW001	Castlefinn WWTP	Treated	Non-Compliant	<b>Suspended Solids mg/l, BOD, 5 days with Inhibition (Carbonaceo mg/l</b>

## 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 CASTLEFINN SECONDARY DISCHARGE - TREATED DISCHARGE

#### 2.1.1 INFLUENT MONITORING SUMMARY - CASTLEFINN 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
<b>There is no Influent data included in the AER.</b>			

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 - TPEFF0600D0514SW002

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)
<b>BOD, 5 days with Inhibition (Carbonaceous) mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	134	
<b>Conductivity @20°C µS/cm</b>	N/A	N/A	N/A	6	N/A	N/A	647	
<b>pH pH units</b>	N/A	N/A	N/A	6	pass	pass	7.07	
<b>COD-Cr mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	284	
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	4.08	
<b>Suspended Solids mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	77	
<b>Ammonia-Total (as N) mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	30	

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:

There are no ELV's set in the Wastewater Discharge Licence for this discharge.

## 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0600D0514SW002

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	226049, 394857	RS01B450890	No	No	No	No	Poor
Downstream	226075, 394747	RS01B450950	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
Suspended Solids mg/l	RS01B450890	5.00	RS01B450950	10	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
<b>Conductivity @20°C µS/cm</b>	RS01B450890	369	RS01B450950	387	N/A	
<b>Temperature °C</b>	RS01B450890	10	RS01B450950	10	N/A	
<b>Dissolved Oxygen % Saturation</b>	RS01B450890	74	RS01B450950	70	N/A	
<b>Ammonia-Total (as N) mg/l</b>	RS01B450890	0.249	RS01B450950	1.89	0.065	25
<b>pH pH units</b>	RS01B450890	7.32	RS01B450950	7.32	N/A	
<b>BOD - 5 days (Total) mg/l</b>	RS01B450890	1.78	RS01B450950	7.33	1.5	3.7
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	RS01B450890	0.069	RS01B450950	0.326	0.035	7.3

### Significance of Results:

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.

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.

## 2.1.4 OPERATIONAL PERFORMANCE SUMMARY - CASTLEFINN SECONDARY DISCHARGE

### 2.1.4.1 Treatment Efficiency Report - Castlefinn 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	N/A	1273	N/A
COD	N/A	2692	N/A
SS	N/A	732	N/A
TN	N/A	N/A	N/A
TP	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 - Castlefinn 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.

Castlefinn Secondary Discharge	
Peak Hydraulic Capacity (m <sup>3</sup> /day) - As Constructed	N/A
200	N/A
Current Hydraulic Loading - annual max (m <sup>3</sup> /day)	N/A

Castlefinn Secondary Discharge	
Average Hydraulic loading to the Treatment Plant (m <sup>3</sup> /day)	N/A
Organic Capacity (PE) - As Constructed	100
Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup>	59
Organic Capacity (PE) - Remaining	41
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 - CASTLEFINN 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)
<b>There is no Sludge and Other Input data for the Treatment Plant included in the AER.</b>							

## 2.2 CASTLEFINN WWTP - TREATED DISCHARGE

### 2.2.1 INFLUENT MONITORING SUMMARY - CASTLEFINN 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
Ammonia-Total (as N) mg/l	6	103	46
COD-Cr mg/l	6	1066	642
Suspended Solids mg/l	6	483	233
ortho-Phosphate (as P) - unspecified mg/l	6	10	6.28
pH units	6	8.70	7.89
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	324	240
Hydraulic Capacity	N/A	535	300

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'.

## 2.2.2 EFFLUENT MONITORING SUMMARY - TPEFF0600D0514SW001

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)
Conductivity @20°C µS/cm	N/A	N/A	N/A	6	N/A	N/A	687	

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)
<b>Ammonia-Total (as N) mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	37	
<b>BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l</b>	N/A	N/A	20%	6	4	N/A	235	Fail
<b>Suspended Solids mg/l</b>	N/A	N/A	50%	6	3	N/A	89	Fail
<b>COD-Cr mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	531	
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	5.04	
<b>pH units</b>	N/A	N/A	N/A	6	N/A	N/A	7.02	

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):

See Section 3.2

### Significance of Results:

The WWTP is not compliant with the ELV's set in the Wastewater Discharge Licence.

## 2.2.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0600D0514SW001

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
<b>Upstream</b>	225872, 394688	RS01F011090	No	No	No	No	Poor
<b>Downstream</b>	226282, 394589	RS01F011100	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
<b>BOD - 5 days (Total) mg/l</b>	RS01F011090	1.12	RS01F011100	1.92	1.50	53.4
<b>Ammonia-Total (as N) mg/l</b>	RS01F011090	0.029	RS01F011100	0.057	0.065	42.6
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	RS01F011090	0.030	RS01F011100	0.020	0.035	-27.9
<b>Dissolved Oxygen % Saturation</b>	RS01F011090	92	RS01F011100	95	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Conductivity @20°C µS/cm	RS01F011090	91	RS01F011100	96	N/A	
Temperature °C	RS01F011090	10	RS01F011100	10	N/A	
pH units	RS01F011090	7.08	RS01F011100	7.24	N/A	
Suspended Solids mg/l	RS01F011090	4.24	RS01F011100	4.54	N/A	

### Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence.

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, BOD and Orthophosphate 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 not have an observable negative impact on the Water Framework Directive status.

## 2.2.4 OPERATIONAL PERFORMANCE SUMMARY - CASTLEFINN WWTP

### 2.2.4.1 Treatment Efficiency Report - Castlefinn 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)
TP	N/A	N/A	N/A
COD	70317	58204	17
SS	25481	9772	62
cBOD	26328	25782	2.07
TN	N/A	N/A	N/A

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

#### 2.2.4.2 Treatment Capacity Report Summary - Castlefinn 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.

Castlefinn WWTP	
Peak Hydraulic Capacity (m <sup>3</sup> /day) - As Constructed	450
DWF to the Treatment Plant (m <sup>3</sup> /day)	200
Current Hydraulic Loading - annual max (m <sup>3</sup> /day)	535
Average Hydraulic loading to the Treatment Plant (m <sup>3</sup> /day)	300
Organic Capacity (PE) - As Constructed	600
Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup>	780
Organic Capacity (PE) - Remaining	0
Will the capacity be exceeded in the next three years? (Yes/No)	Yes

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 - CASTLEFINN 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)
<b>There is no Sludge and Other Input data for the Treatment Plant included in the AER.</b>							

## 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
<b>There were no relevant environmental complaints in 2021.</b>			

### 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 Irish Water 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)
<b>Specified % Reduction Value not achieved</b>	WWTP operating above capacity	1	Yes	No

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	1
Number of Incidents reported to the EPA via EDEN in 2021	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 2021 (No. of events)	Total volume discharged in 2021 (m3)	Monitoring Status
<b>SW3</b>	226079, 394953	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
<b>SW4</b>	226112, 394684	Yes	Low	Meeting	Unknown	Unknown	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 SWOs in the agglomeration in the year (m3)?	Unknown
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?	N/A
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
<b>D0514-SIP:01</b>	Any upgrades required to meet the Emission Limit Values set in this licence	C	31/12/2020	No	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	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
<b>No additional improvements planned at this time.</b>				

### **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	2015	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
Has a Technical amendment/licence review application been submitted to the Agency by IW?	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	No
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: 26/06/2022

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.

## 7 APPENDIX

There are no Appendices included