Annual Environmental Report

2020

Courtown/Gorey

D0046-01

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Rev 1 Note: Section 4.1.1 Question 1 answer changed to "Unknown". Approved 12/07/2021.

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER

This Annual Environmental Report has been prepared for D0046-01, Courtown/Gorey, in Wexford 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 significant changes or work in 2020, and currently none are envisaged within the next 3 years

1.2 TREATMENT SUMMARY

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

- Courtown WWTP - 2020 with a Plant Capacity PE of 36000, the treatment type is 2 - Secondary treatment

Note: Gorey WWTP ceased operation in 2016 and all loading was ransferred to the upgraded Courtown WWTP

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
TPEFF3300D0046SW001	Courtown WWTP - 2020	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 COURTOWN WWTP - 2020 - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - COURTOWN WWTP - 2020

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
Total Nitrogen mg/l	12	76.8	29.53
Suspended Solids mg/l	12	341	114.71
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	12	378	188.12
Total Phosphorus (as P) mg/l	12	8.58	3.82
COD-Cr mg/l	12	1059	429.61
Hydraulic Capacity	N/A	18283	6564.8

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 tretament 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 -

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 with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	12	N/A	N/A	21.86	Pass
Total Oxidised Nitrogen (as N) mg/l	35	42	N/A	12	N/A	N/A	6.71	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	3.83	Pass
Ammonia-Total (as N) mg/l	25	30	N/A	12	N/A	N/A	0.11	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	12	N/A	N/A	3.44	Pass
Temperature °C	25	25	N/A	12	N/A	N/A	7.27	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.12	Pass
Faecal coliforms no./100mls	N/A	N/A	N/A	2	N/A	N/A	N/A	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	2.44	

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 with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	12	N/A	N/A	1.96	
Enterococci (Intestinal) cfu/100ml	N/A	N/A	N/A	2	N/A	N/A	201	
Visual Inspection Descriptive	N/A	N/A	N/A	12	N/A	N/A	N/A	
E. Coli MPN/100ml	N/A	N/A	N/A	2	N/A	N/A	1410.28	
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	8.42	

Notes:
1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

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

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 Status
Upstream	322087, 147973	CW33002081SY4002	No	No	No	No	Moderate
Downstream	320251, 156046	CW33002081SY4003	No	No	No	No	Moderate
Downstream	321659, 160082	CW33002081SY4004	No	No	No	No	Moderate

The results for ambient results and / or additional monitoring data sets are included in the **Appendix 7.1 - Ambient monitoring summary**

Significance of Results:

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

The ambient monitoring results does not meet the required EQS. 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 - COURTOWN WWTP - 2020

2.1.4.1 Treatment Efficiency Report - Courtown WWTP - 2020

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)
SS	257586	7783	97
TP	8581	4970	42
cBOD	422423	6995	98
COD	964667	44450	95
TN	66308	17128	74

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

2.1.4.2 Treatment Capacity Report Summary - Courtown WWTP - 2020

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.

Courtown WWTP - 2020	
Peak Hydraulic Capacity (m^3/day) - As Constructed	23625
DWF to the Treatment Plant (m^3/day)	7875
Current Hydraulic Loading - annual max (m^3/day)	18283

Courtown WWTP - 2020	
Average Hydraulic loading to the Treatment Plant (m³/day)	6564.8
Organic Capacity (PE) - As Constructed	36000
Organic Capacity (PE) - Collected Load (peak week)[Note1]	21748
Organic Capacity (PE) - Remaining	14252
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 - COURTOWN WWTP - 2020

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

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

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

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2020.			

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)
There were no reportable incidents in 2020.				

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2020	0
Number of Incidents reported to the EPA via EDEN in 2020	0
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	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2020 (No. of events)	Total volume discharged in 2020 (m3)	Monitoring Status
SWO-1	320156, 155989	Yes	Medium	Meeting	Unknown	Unknown	Monitored
SWO-2	315975, 158543	Yes	High	Not Meeting	Unknown	Unknown	Not Monitored
TBC	TBC, TBC	No	Unknown	Not yet Assessed	Unknown	177658	Monitored

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?	No

SWO Summary	
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 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
D0046-SIP:01	Decommissioning of Gorey WWTP and subsequent conversion of infrastructure to storm water storage	C	31/12/2013	Yes	Works Completed		
D0046-SIP:02	Decommissioning of inlet overflow mechanism and subsequent utilisation of WWTP infrastructure for storm water retention purposes	C	31/12/2013	Yes	Works Completed		

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
D0046-SIP:03	Discharge to cease: SW002 Gorey WWTP	A	31/12/2013	Yes	Works Completed		
D0046-SIP:04	Discharge to cease: SW003 Riverchapel	A	31/12/2013	Yes	Works Completed		
D0046-SIP:05	Discharge to cease: SW004 Paulishaun	A	31/12/2013	Yes	Works Completed		
D0046-SIP:06	Discharge to cease: SW005 Ballinatray	A	31/12/2013	Yes	Works Completed		
D0046-SIP:07	Elimination of all unauthorised discharges/surcharges from waste water works	C	31/12/2013	Yes	Works Completed		
D0046-SIP:08	Upgrading of waste water works to convey all WW for treatment to Courtown WWTP	C	31/12/2013	Yes	Works Completed		
D0046-SIP:09	WWTP upgrade and ancillary works	C	31/12/2013	Yes	Works Completed		

A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improvements Programme for this Agglomeration.				

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 Table.

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 list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes	2014	No	

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2014

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	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: 12/07/2021

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

Appendix
Appendix 7.1 - Ambient monitoring summary

Upstream		Ortho-Phosphate P	Total Nitrogen N	Dissolved Inorganic Nitrogen DIN	Temperature	Visual Inspection	Faecal Coliforms	E Coli	Enterococci	Biological Oxygen Demand
		--	--	--	--	--	--	--	--	--
Station Reference	Sample Date	mg/l	mg/l	mg/l	Degrees C	Descriptive	no./100mls	MPN/100mls	cfu/100mls	mg/l
Upstream										
CW33002081SY4002	8-Jan-2020	0.37	4.5	1.6	8.2	Clear, High SS No Tarry residue, mineral oil or detergents	1120	192	200	3.62
CW33002081SY4002	5-Feb-2020	0.19	1.4	0.93	7.2	Light yellow, Low SS No Tarry residue, mineral oil or detergents				1
CW33002081SY4002	3-Mar-2020	0.11	1	1.37	6.3	Tan, Low SS, No Tarry residue, mineral oil or detergents				1
CW33002081SY4002	7-May-2020	0.02	0.2	1.19	12.4	Clear, No SS, No Tarry residue, mineral oil or detergents				1
CW33002081SY4002	20-May-2020	0.05	0.2	0.46	10.9	Clear, No SS, No Tarry residue, mineral oil or detergents	18	2	0	2.06
CW33002081SY4002	2-July-2020	0.11	0.4	1.19	16.7	Clear, No SS, No Tarry residue, mineral oil or detergents	326	6	84	2
CW33002081SY4002	6-Aug-2020	0.08	1.81	1.19	14.8	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4002	1-Sep-2020	0.02	0.5	0.5	16.2	Clear, No SS, No Tarry residue, mineral oil or detergents				2.6
CW33002081SY4002	7-Oct-2020	0.05	0.05	1.1	15.3	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4002	2-Dec-2020	0.03	1	0.45	9.6	Clear, No Tarry Residue, Mineral Oils, Detergents or Materials	0	1	0	2
Annual Mean		***0.103***	***1.106***	***0.998***	***11.760***		***366.000***	***50.250***	***71.000***	***1.928***

Upstream		Ortho-Phosphate P	Total Nitrogen N	Dissolved Inorganic Nitrogen DIN	Temperature	Visual Inspection	Faecal Coliforms	E Coli	Enterococci	Biological Oxygen Demand
		--	--	--	--	--	--	--	--	--
Station Reference	Sample Date	mg/l	mg/l	mg/l	Degrees C	Descriptive	no./100mls	MPN/100mls	cfu/100mls	mg/l
Ambient										
CW33002081SY4003	8-Jan-2020	0.1	6	1.1	9.8	Yellow, High SS No Tarry residue, mineral oil or detergents	1986	221	200	2.62
CW33002081SY4003	5-Feb-2020	0.36	5.8	3	4.8	Clear, Low SS No Tarry residue, mineral oil or detergents				8
CW33002081SY4003	3-Mar-2020	0.1	3.9	1.5	6.2	Clear, Low SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4003	7-May-2020	0.02	0.2	1.19	12.5	Clear, Debris not sewage related				1
CW33002081SY4003	20-May-2020	0.13	0.2	1.17	10.8	Clear, No SS, No Tarry residue, mineral oil or detergents	6	1	1	2
CW33002081SY4003	2-July-2020	0.02	0.9	1.19	16.3	Clear, No SS, No Tarry residue, mineral oil or detergents	1733	29	>200	2
CW33002081SY4003	6-Aug-2020	0.06	2.14	1.19	14.6	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4003	1-Sep-2020	0.03	1.15	1.19	16.3	Clear, No SS, No Tarry residue, mineral oil or detergents				2.8
CW33002081SY4003	7-Oct-2020	0.02	0.05	1.1	15.6	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4003	2-Dec-2020	0.03	1	0.47	9.5	Clear, No Tarry Residue, Mineral Oils, Detergents or Materials	184	7	64	2
Annual Mean		***0.087***	***2.134***	***1.310***	***11.640***		***977.250***	***64.500***	***88.333***	***2.642***

Upstream		Ortho-Phosphate P	Total Nitrogen N	Dissolved Inorganic Nitrogen DIN	Temperature	Visual Inspection	Faecal Coliforms	E Coli	Enterococci	Biological Oxygen Demand
		--	--	--	--	--	--	--	--	--
Station Reference	Sample Date	mg/l	mg/l	mg/l	Degrees C	Descriptive	no./100mls	MPN/100mls	cfu/100mls	mg/l
CW33002081SY4004	8-Jan-2020	0.02	1.48	1.47	8	Clear, High SS No Tarry residue, mineral oil or detergents	124	0	87	3.17
CW33002081SY4004	5-Feb-2020	0.11	3.3	1.29	5.1	Clear, Low SS No Tarry residue, mineral oil or detergents				1
CW33002081SY4004	3-Mar-2020	0.1	3.7	1.56	6.4	Clear, No SS, No Tarry residue, mineral oil or detergents				3
CW33002081SY4004	7-May-2020	0.02	0.2	1.16	12.5	Clear, No SS, No Tarry residue, mineral oil or detergents				1
CW33002081SY4004	20-May-2020	0.08	1.1	1.19	10.7	Clear, No SS, No Tarry residue, mineral oil or detergents	3	0	2	2
CW33002081SY4004	2-July-2020	0.02	0.2	1.19	16.6	Clear, No SS, No Tarry residue, mineral oil or detergents	0	1	9	2
CW33002081SY4004	6-Aug-2020	0.15	0.75	1.19	14.7	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4004	1-Sep-2020	0.03	0.5	0.5	16.2	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4004	7-Oct-2020	0.04	0.05	1.1	15	Clear, No SS, No Tarry residue, mineral oil or detergents				2
CW33002081SY4004	2-Dec-2020	0.07	1	0.48	9.4	Clear, No Tarry Residue, Mineral Oils, Detergents or Materials	4	1	6	2
Annual Mean		***0.064***	***1.228***	***1.113***	***11.460***		***32.750***	***0.500***	***26.000***	***2.017***

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
			Bathing Water	Drinking Water	FWPM	Shellfish	
CW33002081SY4002	332088(E) 147974(N)	TPEFFD0046SW001	No	No	No	No	Unassigned
CW33002081SY4003	320251(E) 156047(N)	TPEFFD0046SW001	No	No	No	No	Unassigned
CW33002081SY4004	321660(E) 160083(N)	TPEFFD0046SW001	Yes	No	No	No	Unassigned

Ambient Impact Assessment Table

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS (95%Ile)	%EQS
BOD mg/l	N/A	N/A	N/A	N/A	N/A	N/A
Ortho-Phosphate (as P) mg/l	N/A	N/A	N/A	N/A	N/A	N/A
Ammonia (as N) mg/l	N/A	N/A	N/A	N/A	N/A	N/A