Annual Environmental Report 2018



Kilmore Quay

D0232-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2018 AER

This Annual Environmental Report has been prepared for D0232-01, Kilmore Quay, in Wexford in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports are included as an appendix to the AER as follows:

1.1 Licence specific reporting included in AER

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

1.2 Treatment Type

The agglomeration is not served by a wastewater treatment plant

1.3 ELV Overview

Monitoring is not undertaken as there is currently no treatment at this agglomeration

1.4 Sludge Removal

The amount of sludge removed from the wastewater treatment plant is shown below along with the transported destination of the sludge from the treatment plant.

Treatment Plant	Sludge type	Quantity	Unit	% Dry Solids	Destination			
There is no Sludge data included in the AER.								

Annual Statement of Measures

None

2 MONITORING REPORTS SUMMARY

2.1 Summary report on monthly influent monitoring

A summary of influent monitoring for the treatment plant is presented in below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

2.1.1 Influent Monitoring Summary - Kilmore Quay Untreated Discharge

Parameters	Number of Samples	Annual Max	Annual Mean	
There is no Influent data inclu	ded in the AER. Monitoring is not undertaken as th	ere is currently no treatment at t	his agglomeration	

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 3.5 if applicable

2.2 Discharges from the agglomeration

2.2.1 Effluent Monitoring Summary - Kilmore Quay Untreated Discharge

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedences	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	0	11	11	11	782.8	Fail
Total Phosphorus (as P) mg/l	0	0	0	6	0	0	12.15	Pass
pH pH units	6-9	6-9	0	11	0	0	7.69	Pass

Suspended Solids mg/l	35	87.5	0	11	11	10	428.82	Fail
COD-Cr mg/l	125	250	0	10	10	8	1431.46	Fail
Total Oxidised Nitrogen (as N) mg/l	30	36	0	11	0	0	0.31	Pass
Ammonia-Total (as N) mg/l	10	12	0	11	10	10	36.68	Fail

Notes:

Cause of Exceedance(s):

The agglomeration is not served by a WWTP

Significance of Results:

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

2.3 Ambient monitoring summary

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.

2.3.1 Ambient Monitoring Report Summary - Kilmore Quay Untreated Discharge

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

^{1–} This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

^{2 -} For parameters where a mean ELV applies

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	Code		Drinking Water	FWPM	Shellfish	WFD Status
Downstream	296598, 102988	TPEFF3300D0232SW001	No	No	No	No	Unassigned
Downstream	296598, 102988	TPEFF3300D0232SW001	No	No	No	No	Unassigned

2.3.2 Ambient Monitoring Parameter Summary - Kilmore Quay Untreated Discharge

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 discharge was not compliant with the ELV's set in the wastewater discharge licence. The agglomeration is not served by a WWTP.

The ambient monitoring results meet the required EQS.

The discharge from the wastewater treatment plant do not have an observable impact on the water quality.

The discharge does not have an observable negative impact on the Water Framework Directive status.

3 OPERATIONAL REPORTS SUMMARY

3.1 Treatment Efficiency Report

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:

3.1.1 Treatment Efficiency Report Summary - Kilmore Quay Untreated Discharge

The agglomeration is not served by a WWTP

3.2 Treatment Capacity Report Summary

The agglomeration is not served by a WWTP

3.3 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 is no Complaint data includ	ed in the AER.		

3.4 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.

3.4.1 Summary of Incidents

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Non-compliance	WWTP upgrade required to meet ELV	11	Yes	No

3.4.2 Summary of Overall Incidents

Question	Answer
Number of Incidents in 2018	1
Number of Incidents reported to the EPA via EDEN in 2018	1
Explanation of any discrepancies between the two numbers above	

3.5 Sludge / Other inputs to the WWTP

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

Input type	ut e Quantity		P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)? ³	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP?²(Y/N)			
There is	There is no Sludge and Other Input data for the Treatment Plant included in the AER.									

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:

No Appendix Included

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 2018 (No. of events)	Total volume discharged in 2018 (m3)	Monitoring Status
SW2	296581, 103144	No	High	Not Meeting	N/A	N/A	Not Monitored

4.1.2 Inspection Summary Report

SWO Summary					
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	N/A				
Is each SWO identified as non meeting DoEHLG Guidance included in the Programme of Improvements?					
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes				
Have the EPA been advised of any additional SWOs / charges 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)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
install a new wastewater treatment plant to provide secondary treatment and any necessary improvements to the ancillary works.	С	31/12/2015	Yes	Not Started	30/06/2021	Kilmore is included in IW National Programme for untreated Discharges, this programme is currently at assessment stage

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	Improvement Source	Expected Completion Date	Comments
There are no Improvements P	rogramme 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 (e.g. Appendix X).
There is no Licence Spe	ecific Report Required	in this AER Annual Rev	iew.	

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	
Is there a need to request/advise the EPA of any modifications to the existing WWDL?	Yes
List reason e.g. changes to monitoring requirements	Correction of ambient monitoring points EDEN Code
Have these processes commenced?	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	No

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

Signed: Date: 22/03/2019

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 ,

Eleanor Roche

Acting Head of Environmental Regulation.

7 APPENDIX

In the appendix include all the detailed or site specific reports that are relevant to the AER. Reports omitted from previous AERs should also be appended here.

Appendix

Appendix 7.1 - Ambient monitoring summary

Station	Kilmore C	Quay Upstream SW1		Station Ref: Per	nding		BOD, 5 days with Inhibition (Carbonaceous	Oxygen	Ortho- Phosphate P	рН	Suspended Solids	Total Kejdahl Nitrogen	Total Nitrogen		Total Phosphate P	Dissolved Inorganic Nitrogen DIN	Temperature	Dissolved Oxygen	Dissolved Oxygen % Saturation
Enity	Enity Ref:	Station Easting	Station Northing	Sample Date	Sample Method	mg/l	mg/l	mg/l	mg/l	pH units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Degrees C	mg/l	% Sat.
Irish Sea	2081	296027	103318	13-Mar-2018	Grab	0.37	< 2	200	< 0.02	8	328	4.5	4.5	< 0.25	< 0.1	0.37	10.7	10.96	99.1
Irish Sea	2081	296027	103318	17-May-2018	Grab	0.5	3	240	0.02	8.5	137	1.4	1.4	< 0.25	< 0.1	0.5	17.5	11.16	87.4
Irish Sea	2081	296027	103318	17-July-2018	Grab	0.37	< 1			8.31	41			< 0.7					
Irish Sea	2081	296027	103318	5-Nov-2018	Grab	< 0.02	< 1			7.95	19.1			< 0.7					
				М	ean	0.413333333	3	220	0.02	8.19	131.275	2.95	2.95	#DIV/0!	#DIV/0!	0.435	14.1	11.06	93.25
				95	%ile	0.487	3	238	0.02	8.4715	299.35	4.345	4.345	#NUM!	#NUM!	0.4935	17.16	11.15	98.515
Station	Kilmore Qu	uay Downstream SW1		Station Ref: Per	iaiiig		BOD, 5 days with Inhibition (Carbonaceous		Ortho- Phosphate P	рН	Suspended Solids	Total Kejdahl Nitrogen	Total Nitrogen N		Total Phosphate P	Dissolved Inorganic Nitrogen DIN	Temperature	Dissolved Oxygen	Dissolved Oxygen % Saturation
Enity	Enity Ref:	Station Easting	Station Northing	Sample Date	Sample Method	mg/l	mg/l	mg/l	mg/l	pH units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Degrees C	mg/l	% Sat.
Irish Sea	2081	296647	103314	13-Mar-2018	Grab	0.37	< 2	280	< 0.02	8	226	3.8	3.8	< 0.25	< 0.1	0.37	10.8	11.38	97.8
Irish Sea	2081	296647	103314	17-May-2018	Grab	0.36	3	220	0.04	8.6	135	< 1	<1	< 0.25	< 0.1	0.36	17.6	11.28	87.3
Irish Sea	2081	296647	103314	17-July-2018	Grab	0.37	<1	_	_	8.35	54			< 0.7					
Irish Sea	2081	296647	103314	5-Nov-2018	Grab	< 0.02	< 1			7.89	23.7			< 0.7					
-			·	М	ean	0.366666667	3	250	0.04	8.21	109.675	3.8	3.8	#DIV/0!	#DIV/0!	0.365	14.2	11.33	92.55
				95	%ile	0.37	3	277	0.04	8.5625	212.35	3.8	3.8	#NUM!	#NUM!	0.3695	17.26	11.375	97.275