

Annual Environmental Report

2018



Galway City

D0050-01

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7.1 AMBIENT MONITORING SUMMARY

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2018 AER

This Annual Environmental Report has been prepared for D0050-01, Galway City, in Galway 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 served by a wastewater treatment plant GALWAY WWTP with a Plant Capacity PE of 170,000. The treatment process includes the following:

1.2.1 GALWAY WWTP

Treatment type	Yes / No	Details
Preliminary Treatment	Yes	Screening & Grit Removal
Primary Treatment	Yes	Upward Flow Settlement Tanks
Secondary Treatment	Yes	Activated Sludge
Nutrient Removal	No	
Tertiary Treatment	No	

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 2.2 Discharges from the agglomeration.

1.3 ELV Overview

1.3.1 GALWAY WWTP

Compliance Status	
Were all parameters compliant for GALWAY WWTP treatment plant	Yes
Where noncompliant see table 2.2.1 for details of parameters	

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
GALWAY WWTP	Liquid Sludge	10241.55	Weight (Tonnes)	21	Biocore/Evergreen

Annual Statement of Measures

A Drainage Area Plan for Galway City is currently underway, which commenced in 2016 and will take approximately three years to complete. The Drainage Area Plan will encompass both the Foul Network and Storm water Overflows. The current status is that Stage 1 is complete with Stage 2 currently underway.

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 - GALWAY WWTP

Parameters	Number of Samples	Annual Max	Annual Mean
Total Nitrogen mg/l	24	31.2	19.53
Suspended Solids mg/l	24	358	192.62
Total Phosphorus (as P) mg/l	24	7.1	3.81
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	24	271	156.46
COD-Cr mg/l	24	552	350.57
Hydraulic Capacity	0	82030	57278

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

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 less than the peak 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

2.2.1 Effluent Monitoring Summary - GALWAY WWTP

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)
Conductivity @ 25°C (on-site) $\mu\text{S/cm}$	0	0	0	24	0	0	2450.38	Pass
Total Nitrogen mg/l	35	42	0	24	0	0	10.55	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	0	24	0	0	4.57	Pass
E. Coli MPN/100ml	0	0	0	5	0	0	5900	Pass
COD-Cr mg/l	125	250	0	24	0	0	29.8	Pass
Enterococci (Intestinal) cfu/100ml	0	0	0	5	0	0	8000	Pass
Ammonia-Total (as N) mg/l	25	30	0	24	0	0	0.84	Pass
Total Oxidised Nitrogen (as N) mg/l	20	24	0	24	0	0	9.51	Pass

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)
Total Phosphorus (as P) mg/l	0	0	0	24	0	0	0.56	Pass
Suspended Solids mg/l	35	87.5	0	24	0	0	9.59	Pass
Faecal coliforms MPN/100ml	0	0	0	5	0	0	5900	Pass
pH pH units	0	0	0	24	0	0	7.58	Pass
Fats, Oils & Greases mg/l	0	0	0	5	0	0	5	Pass

Notes:

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

Cause of Exceedance(s):

Not Applicable

Significance of Results:

The WWTP is 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 - GALWAY WWTP

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	Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	High
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	High
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	High
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good

Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	High
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good
Downstream	129619, 222686	TPEFF1100D0050SW001	No	No	No	No	Good

2.3.2 Ambient Monitoring Parameter Summary - GALWAY WWTP

No ambient monitoring sampling is carried out for Galway WWTP; however, the results for Bathing Water sampling 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.

No ambient monitoring sampling was carried out.

The discharge from the wastewater treatment plant has 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.

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 - GALWAY WWTP

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)	Comment
TN	414428.78	224783.74	45.76	-
SS	4088272	204327	95	-
cBOD	3320721.6	97262.31	97.07	-
COD	7440669.89	634842.07	91.47	-
TP	80955.18	11867.33	85.34	-

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

3.2 Treatment Capacity Report Summary

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.

GALWAY WWTP	
Peak Hydraulic Capacity (m ³ /day) - As Constructed	135000
DWF to the Treatment Plant (m ³ /day)	45000
Current Hydraulic Loading - annual max (m ³ /day)	82030
Average Hydraulic loading to the Treatment Plant (m ³ /day)	57278
Organic Capacity (PE) - As Constructed	170000
Organic Capacity (PE) - Collected Load (peak week)	100842
Organic Capacity (PE) - Remaining	69158
Will the capacity be exceeded in the next three years? (Yes/No)	No

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 included 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)
Uncontrolled release	Other	1	No	Yes
Uncontrolled release	EO caused by pump failure	1	No	Yes
Other	Shock load to WWTP	4	Yes	No
Other	Plant or equipment breakdown at WWTP	1	No	Yes

3.4.2 Summary of Overall Incidents

Question	Answer
Number of Incidents in 2018	8
Number of Incidents reported to the EPA via EDEN in 2018	8
Explanation of any discrepancies between the two numbers above	NA

3.5 Sludge / Other inputs to the 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)
Landfill Leachate (delivered by sewer network)	48962.75	Volume (m ³)	754842	1.5	No	Yes	No

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 2018 (No. of events)	Total volume discharged in 2018 (m ³)	Monitoring Status
SW002	129581, 223202	Yes	High	Meeting	0	-	Not Monitored
SW003	125943, 223038	Yes	Medium	Meeting	0	-	Not Monitored
SW005	133296, 224746	Yes	Medium	Meeting	0	-	Not Monitored
SW006	137765, 224856	Yes	Medium	Meeting	1	-	Not Monitored
SW007	131369, 227422	Yes	Medium	Meeting	0	-	Not Monitored
SW008	129685, 224768	Yes	Medium	Meeting	102	-	Not Monitored
SW009	130920, 225858	Yes	Medium	Meeting	52	-	Not Monitored

SW017	126019, 223764	Yes	Medium	Meeting	168	-	Not Monitored
SW018	128638, 224062	Yes	Medium	Meeting	0	-	Not Monitored
SW019	129780, 224754	Yes	Medium	Meeting	39	-	Not Monitored
SW020	129643, 225523	Yes	Medium	Meeting	6	-	Not Monitored
SW021	131297, 225795	Yes	Medium	Meeting	83	-	Not Monitored
SW022	131201, 226069	Yes	Medium	Meeting	13	-	Not Monitored
SW023	132372, 224413	Yes	Medium	Meeting	0	-	Not Monitored

4.1.2 Inspection Summary Report

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m ³)?	NA
Is each SWO identified as non meeting DoEHLG Guidance included in the Programme of Improvements?	Yes
The SWO Assessment included the requirements of relevant of WWDL schedules?	No
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
SW009 (SD09) to be discontinued	A	30/04/2014	Yes	Not Started	Unknown	NA
SW011 (SD11) to be discontinued	A	21/12/2015	Yes	Not Started	Unknown	NA
SW012 (SD12) to be discontinued	A	30/04/2011	Yes	Works Completed	Completed	NA
SW013 (SD13) to be discontinued	A	21/12/2015	Yes	Works Completed	Completed	NA
SW014 (SD14) to be discontinued	A	30/04/2011	Yes	Works Completed	Completed	NA
SW015 (SD15) to be discontinued	A	30/04/2011	Yes	Works Completed	Completed	NA
WWTP upgrade and ancillary works	C	31/08/2012	Yes	Works Completed	Completed	NA
Upgrade to SWO -SD10	C	30/04/2014	Yes	Works Completed	Completed	NA

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
Upgrading of SWO02 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	31/08/2012	Yes	Works Completed	Completed	NA
Upgrading of SWO03 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	NA
Upgrading of SWO05 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	NA
Upgrading of SWO06 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	NA
Upgrading of SWO07 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	NA
Upgrading of SWO08 Storm Water Overflows to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	NA
Upgrading of SWO17 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Upgrading of SWO18 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B

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
Upgrading of SWO19 Storm Water Overflow to comply with the criteria outlined in DoEHLG.	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Upgrading of SWO20 Storm Water Overflow to comply with the criteria outlined in DoEHLG.	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Upgrading of SWO21 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Upgrading of SWO22 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Not Started	Unknown	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Upgrading of SWO23 Storm Water Overflow to comply with the criteria outlined in DoEHLG	C	30/04/2014	Yes	Works Completed	Completed	Schedule changed from C to A.4. Listed under Schedule A.4 under TA B
Replacement of stand-by pump at Parkavera Pumping Station SD04 emergency overflow	C	13/07/2010	Yes	Works Completed	Completed	NA

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 Improvement Programmes 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 Specific Report Required in this AER Annual Review.				

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?	Yes
List reason e.g. additional SWO identified	Currently Galway City Council & Irish Water are reviewing the licence and the naming and numbering of the storm water overflows and there may be further clarifications sought.
Is there a need to request/advise the EPA of any modifications to the existing WWDL?	No
List reason e.g. changes to monitoring requirements	Not at this time.
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: 01/04/2019

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 (Bathing Waters)

Gaway City WWTP
Bathing Water Sampling

Silverstrand Beach

<u>Date</u>	<u>E-Coli</u>	<u>Intestinal Enterocci</u>	<u>Water Sample Status</u>
10/09/2018	31	39	Excellent
27/08/2018	233	64	Excellent
13/08/2018	10	72	Excellent
30/07/2018	31	5	Excellent
16/07/2018	31	20	Excellent
02/07/2018	10	2	Excellent
18/06/2018	10	2	Excellent
05/06/2018	10	15	Excellent
28/05/2018	10	3	Excellent

Salthill Beach

<u>Date</u>	<u>E-Coli</u>	<u>Intestinal Enterocci</u>	<u>Water Sample Status</u>
10/09/2018	10	3	Excellent
27/08/2018	63	3	Excellent
13/08/2018	10	7	Excellent
30/07/2018	10	2	Excellent
16/07/2018	31	9	Excellent
02/07/2018	10	2	Excellent
18/06/2018	10	2	Excellent
05/06/2018	10	2	Excellent
28/05/2018	10	2	Excellent

Gratten Road Beach

<u>Date</u>	<u>E-Coli</u>	<u>Intestinal Enterocci</u>	<u>Water Sample Status</u>
10/09/2018	1607	360	Poor
03/09/2018	110	10	Excellent
27/08/2018	86	25	Excellent
20/08/2018	63	2	Excellent
13/08/2018	52	37	Excellent
07/08/2018	428	320	Poor
30/07/2018	644	160	Sufficient
23/07/2018	98	3	Excellent
16/07/2018	384	121	Good
09/07/2018	10	2	Excellent
02/07/2018	10	5	Excellent
25/06/2018	110	23	Excellent
18/06/2018	253	13	Good
11/06/2018	10	2	Excellent
05/06/2018	10	2	Excellent
28/05/2018	145	180	Good

Gaway City WWTP
Bathing Water Sampling

Ballyloughane Beach

<u>Date</u>	<u>E-Coli</u>	<u>Intestinal Enterocci</u>	<u>Water Sample Status</u>
10/09/2018	110	180	Good
03/09/2018	20	3	Excellent
27/08/2018	275	110	Good
20/08/2018	10	3	Excellent
13/08/2018	135	60	Excellent
07/08/2018	292	25	Good
30/07/2018	1421	270	Poor
23/07/2018	31	6	Excellent
16/07/2018	75	36	Excellent
09/07/2018	10	2	Excellent
02/07/2018	10	2	Excellent
25/06/2018	10	2	Excellent
18/06/2018	20	9	Excellent
11/06/2018	10	3	Excellent
05/06/2018	10	2	Excellent
28/05/2018	10	8	Excellent