

Annual Environmental Report

2018



Portrane Donabate

D0114-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2018 AER

This Annual Environmental Report has been prepared for D0114-01, Portrane Donabate, in Dublin 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 PORTRANE/DONABATE WWTP with a Plant Capacity PE of 65,000. The treatment process includes the following:

1.2.1 PORTRANE/DONABATE WWTP

Treatment type	Yes / No	Details
Preliminary Treatment	Yes	Including screening/grit removal
Primary Treatment	No	
Secondary Treatment	Yes	SBR
Nutrient Removal	No	
Tertiary Treatment	Yes	UV treatment

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 PORTRANE/DONABATE WWTP

Compliance Status	
Were all parameters compliant for PORTRANE/DONABATE WWTP treatment plant	Yes
Where non compliant 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
PORTRANE/DONABATE WWTP	Cake Sludge	213.18	Weight (Tonnes)	23.05	H&L Environmental Services Ltd, Thurles Co. Tipperary
PORTRANE/DONABATE WWTP	Cake Sludge	2085	Weight (Tonnes)	22.68	Carrollstown
PORTRANE/DONABATE WWTP	Cake Sludge	48.34	Weight (Tonnes)	25.4	Owens Quarry

Annual Statement of Measures

A new network is currently in design for the new distributor road in Donabate. This network will allow upgrading of the existing village network to be avoided. Delivery date is 2021.

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 - PORTRANE/DONABATE WWTP

Parameters	Number of Samples	Annual Max	Annual Mean
COD-Cr mg/l	44	1,006	532.63
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	43	357	211
Suspended Solids mg/l	43	1630	346.03
Total Nitrogen mg/l	44	91.2	46
Total Phosphorus (as P) mg/l	44	11.1	6.4
Hydraulic Capacity		26,401	8,046.66

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 - PORTRANE/DONABATE 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)
COD-Cr mg/l	125	250	0	44	0	0	32.59	Pass
Temperature °C	25	0	0	1	0	0	4	Pass
Conductivity 20 C µS/cm	0	0	0	44	0	0	1253.34	N/A
Ammonia-Total (as N) mg/l	0	0	0	44	0	0	0.85	N/A
Nitrite (as N) mg/l	0	0	0	44	0	0	0.22	N/A
Total Oxidised Nitrogen (as N) mg/l	0	0	0	44	0	0	9.6	N/A
Dissolved Inorganic Nitrogen (as N) mg/l	0	0	0	44	0	0	10.44	N/A
Total Nitrogen mg/l	0	0	0	44	0	0	11.6	N/A
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	0	44	0	0	2.65	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)
ortho-Phosphate (as P) - unspecified mg/l	0	0	0	44	0	0	1.59	N/A
pH pH units	6 to 9	0	0	44	0	0	7.75	Pass
Nitrate (as N) mg/l	0	0	0	44	0	0	9.37	N/A
Suspended Solids mg/l	35	87.5	0	44	0	0	4.43	Pass
Total Phosphorus (as P) mg/l	0	0	0	44	0	0	1.9	N/A

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.

2.3 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 - PORTRANE/DONABATE 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
Upstream	326975, 250009	TPEFF0900D0114SW001	No	No	No	Yes	Good

2.3.2 Ambient Monitoring Parameter Summary - PORTRANE/DONABATE WWTP

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 meet the required EQS.

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.

The discharge is not considered to be having an impact on Bathing Waters or Shellfish Areas.

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 - PORTRANE/DONABATE WWTP

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
cBOD	579,109.54	6,817.05	98.82
TP	17,527.99	4,770.83	72.78
SS	953,019.01	22,244.28	97.67
TN	126,082.74	29,141.09	76.89
COD	1,459,794.26	81,884.73	94.39

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.

PORTRANE/DONABATE WWTP	
Peak Hydraulic Capacity (m ³ /day) - As Constructed	46,800
DWF to the Treatment Plant (m ³ /day)	15600
Current Hydraulic Loading - annual max (m ³ /day)	26401
Average Hydraulic loading to the Treatment Plant (m ³ /day)	8046.66
Organic Capacity (PE) - As Constructed	65000
Organic Capacity (PE) - Collected Load (peak week)	33642
Organic Capacity (PE) - Remaining	31358
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)
Other	Other	1	No	Yes
Other	Plant or equipment breakdown at WWTP	1	No	Yes

3.4.2 Summary of Overall Incidents

Question	Answer
Number of Incidents in 2018	2
Number of Incidents reported to the EPA via EDEN in 2018	2
Explanation of any discrepancies between the two numbers above	N/A

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)	23706	Volume (m ³)	288	0.81	Yes	Yes	No
Industrial / Commercial Sludge	1464	Weight (Tonnes)	17.8	0.05	Yes	No	No
Waterworks Sludge	1113	Volume (m ³)	14	0.04	No	Yes	No
Industrial / Commercial Sludge	125	Volume (m ³)	2	0	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:

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 (m ³)	Monitoring Status
SW4 (SW62 PORTRANE)	325900, 249774	Yes	Unknown	Meeting			Not Monitored
SW70 LUSK	324413, 253046	No	Unknown	Meeting			Not Monitored
SW71PORTRANE	324413, 253046	No	Unknown	Meeting			Not Monitored
SW72- DONABATE	326732, 249818	No	Unknown	Meeting			Not Monitored
SW72- DONABATE	323072, 250698	No	Unknown	Meeting			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)?	Not Monitored
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	No
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)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
Upgrading of sewer network and pump stations to comply with the criteria outlined in DoEHLG.	C	31/12/2011	Yes	Not Started	31/12/2021	
Construction of 600m outfall with 10 port diffuser	C	31/12/2011	Yes	Works Completed	31/12/2021	

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
Installation of new secondary WWTP with appropriate disinfection system and ancillary works	C	31/12/2011	Yes	Works Completed		
Installation of storm balancing tanks at new WWTP	C	31/12/2011	Yes	Works Completed		
Upgrading of existing sewer network	C	31/12/2011	Yes	At Planning Stage	31/12/2021	

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 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	2013	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
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	Fingal County Council applied for a review of its existing Licence, D0114-01, on 23/09/2011, to take account of the new WWTP and the increased agglomeration size. This Scheme will ultimately collect sewage from the areas covered by the Portrane Donabate Rush & Lusk agglomerations and transfer it to the new Portrane Waste Water Treatment Plant (WWTP) adjacent to the now decommissioned WWTP in the grounds of St Ita's Hospital.
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	N/A
Have these processes commenced?	Yes
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:

Date: 19/03/2019

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

Appendix

Appendix 7.1 - Ambient Monitoring Summary

Ambient Monitoring Data

Ambient Monitoring Report Summary Table

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Upstream Monitoring Point	N/A	N/A					
Northwestern Irish Sea	326975, 250009	DB750	No	No	No	Yes	Good
Donabate-Balcarrick Beach (Shore monitoring)	325155, 249127	IEEABWC020-0000-0100	Yes	No	No	Yes	N/A
Brook Beach Portrane (Shore monitoring)	325556, 251043	IEEABWC020-000-0200	Yes	No	No	Yes	N/A

Significance of Results

-) The WWTP was compliant with the ELVs set out in the wastewater discharge license.
-) The discharge from the wastewater treatment plant does not have an observable negative impact on the water quality status.
-) The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.
-) The discharge is not considered to be having an impact on Bathing Waters or Shellfish Areas.

2018 Marine Ambient Monitoring Summary

Sampling Point Description	Sample Date	Ammonia	BOD	Chlorophyll	DIN	DO	pH	Ortho Phosphate	Salinity	Temp	TON	TN
		mg/l as N	mg/l O ₂	µg/m ³	mg/l	% Sat.		mg/l P	PSU	°C	mg/l N	mg/l as N
Northwestern Irish Sea, Portrane (DB750)	29/06/2018	0.38	4	<4.00	<1.16	106.6	8.21	<0.02	31.92	15.5	<0.78	<0.2
Northwestern Irish Sea, Portrane (DB750)	13/09/2018	<0.02	<1	<4	<0.23	102	8.1	<0.02	34.7	14.1	<0.23	<0.2

Bathing Water Results 2018

Brook Beach

Date	<i>Escherichia coli</i>	Intestinal <i>enterococci</i>	Sample Quality Status
05/09/2018	31	8	Excellent
20/08/2018	145	44	Excellent
07/08/2018	10	4	Excellent
23/07/2018	98	20	Excellent
09/07/2018	10	590	Poor
25/06/2018	<10	<1	Excellent
11/06/2018	52	59	Excellent
06/06/2018	52	13	Excellent
23/05/2018	<10	4	Excellent

(Source: Beaches.ie)

The Bathing Water Quality Regulations, 2008 (S.I No 79 of 2008), was consulted to assess the Brook Beach results. Brook Beach is reported as “*Restricted*” due to historical monitoring results, although all values in 2017 were reported as “*Excellent*” or “*Good*”.

Portrane, the Brook Beach is classified as having Poor Water Quality in 2018, based on the assessment of bacteriological results for the period 2015 to 2018 and consequently, an Advice Not To Swim restriction will apply at the bathing water for the 2019 season. Portrane, the Brook Beach also had a Poor Water Quality rating in 2017 and 2016 and achieved a Good Water Quality rating in 2015.

Balcarrick Beach

Date	<i>Escherichia coli</i>	Intestinal <i>enterococci</i>	Sample Quality Status
05/09/2018	20	2	Excellent
20/08/2018	20	23	Excellent
07/08/2018	10	1	Excellent
23/07/2018	20	43	Excellent
09/07/2018	<10	16	Excellent
25/06/2018	<10	<1	Excellent
11/06/2018	20	3	Excellent
06/06/2018	<10	<1	Excellent
23/05/2018	<10	1	Excellent

(Source: Beaches.ie)

In order to assess these results, the Bathing Water Quality Regulations, 2008 (S.I No 79 of 2008), was consulted. It was found that in 9 cases, Balcarrick-Donabate Beach, achieved “*Excellent*” results in all cases for the Bathing Water season 2018. Donabate, Balcarrick Beach is classified as achieving Sufficient Water Quality in 2018 based on the assessment of bacteriological results for the period 2015 to 2018. Donabate, Balcarrick Beach had a Sufficient Water Quality rating in 2017, a Good Water Quality rating in 2016 and achieved an Excellent Water Quality rating in 2015.

FCC Bathing Water Monitoring Data

Location	Sampled Date and Date of Testing	E. coli MPN/100ml	Enterococci CFU/100ml	Floating Materials	Mineral Oil (visual)	pH pH	Phenols Olfactory	Salinity PSU	Surfactants	Visual Inspection
(49912) Portrane Beach	23/05/2018 07:35	<10	4	Absent	Absent	8.2	Absent	32.2	Absent	Normal
(49912) Portrane Beach	06/06/2018 05:30	52	13	Absent	Absent	8.1	Absent	34.2	Absent	Normal
(49912) Portrane Beach	11/06/2018 10:00	52	59	Absent	Absent	8.1	Absent	32.5	Absent	Normal
((49912) Portrane Beach	25/06/2018 11:00	<10	<1	Absent	Absent	8.1	Absent	32.8	Absent	Normal
(49912) Portrane Beach	09/07/2018 09:45	10	590	Absent	Absent	8.1	Absent	33.4	Absent	Normal
((49912) Portrane Beach	23/07/2018 10:15	98	20	Absent	Absent	8.1	Absent	34.3	Absent	Normal
(49912) Portrane Beach	07/08/2018 09:00	10	4	Absent	Absent	8.1	Absent	34.1	Absent	Normal
(49912) Portrane Beach	20/08/2018 08:15	145	44	Absent	Absent	8	Absent	33.8	Absent	Normal
(49912) Portrane Beach	05/09/2018 08:55	31	8	Absent	Absent	8.1	Absent	34.3	Absent	Normal
(49914) Balcarrick Beach,	23/05/2018 07:20	<10	1	Absent	Absent	8.2	Absent	33.4	Absent	Normal
(49914) Balcarrick Beach,	06/06/2018 05:20	<10	<1	Absent	Absent	8.2	Absent	33.8	Absent	Normal
(49914) Balcarrick Beach,	11/06/2018 10:10	20	3	Absent	Absent	8.1	Absent	32.7	Absent	Normal
(49914) Balcarrick Beach,	25/06/2018 11:20	<10	<1	Absent	Absent	8.2	Absent	33.9	Absent	Normal
(49914) Balcarrick Beach,	09/07/2018 09:37	<10	16	Absent	Absent	8.2	Absent	34	Absent	Normal
(49914) Balcarrick Beach,	23/07/2018 09:45	20	43	Absent	Absent	8.1	Absent	33.5	Absent	Normal
(49914) Balcarrick Beach,	07/08/2018 09:01	10	1	Absent	Absent	8.1	Absent	33.9	Absent	Normal
(49914) Balcarrick Beach,.	20/08/2018 08:00	20	23	Absent	Absent	8.1	Absent	33.4	Absent	Normal
(49914) Balcarrick Beach,	05/09/2018 08:30	20	2	Absent	Absent	8.1	Absent	34.4	Absent	Normal