Annual Environmental Report





Stradbally

D0353-01

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Rev 1 Note: Section 4.1.1 Question 1 answer changed

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER

This Annual Environmental Report has been prepared for D0353-01, Stradbally, in Waterford 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.

None identified or reported.

1.2 TREATMENT SUMMARY

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

• Stradbally WWTP - 2020 with a Plant Capacity PE of 1914, the treatment type is 2 - Secondary 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
TPEFF3100D0353SW002	Stradbally 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 STRADBALLY WWTP - 2020 - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - STRADBALLY 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					
There is no Influent data inclu	There is no Influent data included in the AER.							

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 - TPEFF3100D0353SW001

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	11	N/A	N/A	9.09	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 Oxidised Nitrogen (as N) mg/l	35	42	N/A	11	N/A	N/A	5.5	Pass
Suspended Solids mg/l	35	87.5	N/A	11	N/A	N/A	5.12	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	11	N/A	N/A	1.91	Pass
Ammonia-Total (as N) mg/l	15	18	N/A	11	N/A	N/A	0.02	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.47	Pass
1,2,3-Trichlorobenzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
1,2,4-Trimethylbenzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Benzo(b)fluoranthene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
1,2,4-Trichlorobenzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Acenaphthylene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Barium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	3.54	

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)
Benzo(a)anthracene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Benzo(g,h,i)perylene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
1,1-Dichloroethane µg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	
alpha BHC / Alpha-HCH µg/l	N/A	N/A	N/A	1	N/A	N/A	0.04	
Cadmium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Dichlobenil µg/l	N/A	N/A	N/A	1	N/A	N/A	0.04	
Calcium - filtered mg/l	N/A	N/A	N/A	1	N/A	N/A	23.1	
Chrysene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Copper - unfiltered mg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	
Cyanide (unspecified) µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	
Indeno(1,2,3-c,d)pyrene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Fluorene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Dieldrin µg/l	N/A	N/A	N/A	1	N/A	N/A	0.04	
meta + para-Xylene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	

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)
Isoproturon µg/I	N/A	N/A	N/A	1	N/A	N/A	0.35	
Fluoranthene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Lead - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	
Glyphosate µg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	
gamma-BHC / HCH (Lindane) μg/l	N/A	N/A	N/A	1	N/A	N/A	0.04	
Simazine µg/l	N/A	N/A	N/A	1	N/A	N/A	0.06	
Magnesium - filtered mg/l	N/A	N/A	N/A	1	N/A	N/A	3.9	
ortho-Xylene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Mercury - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Hexachlorobenzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Tetrachloroethene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	
Total Hardness (as CaCO3) mg/l	N/A	N/A	N/A	1	N/A	N/A	73.9	
Vanadium - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	11	N/A	N/A	1.39	

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)
Phenanthrene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Total Nitrogen mg/l	N/A	N/A	N/A	9	N/A	N/A	5.49	
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	11	N/A	N/A	1.21	
Trichloroethene (all isomers) μg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	
Polyaromatic Hydrocarbons (PAH) - Sum μg/Ι	N/A	N/A	N/A	1	N/A	N/A	0.01	
Pyrene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Anthracene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Benzo(a)pyrene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Arsenic - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	
Antimony - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	
Atrazine µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Beta-BHC /Beta-HCH µg/I	N/A	N/A	N/A	1	N/A	N/A	0.04	
Benzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	

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)
Benzo(k)fluoranthene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Acenaphthene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Chloromethane µg/l	N/A	N/A	N/A	1	N/A	N/A	70.71	
Chromium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	0.21	
Conductivity @20°C µS/cm	N/A	N/A	N/A	1	N/A	N/A	355	
Dibenzo(a,h)anthracene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Ethylbenzene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Boron - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	353.55	
Cobalt - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	
Diuron µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Carbon Tetrachloride µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	
Chloride mg/l	N/A	N/A	N/A	1	N/A	N/A	34	
Chloroform µg/l	N/A	N/A	N/A	1	N/A	N/A	0.71	

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)
Месоргор µg/l	N/A	N/A	N/A	1	N/A	N/A	0.14	
Linuron µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Fluoride mg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	
МСРА µg/I	N/A	N/A	N/A	1	N/A	N/A	0.12	
lsodrin µg/l	N/A	N/A	N/A	1	N/A	N/A	0.04	
Naphthalene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.01	
Molybdenum - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	
Faecal coliforms no./100mls	N/A	N/A	N/A	9	N/A	N/A	6060.34	
Zinc - filtered mg/l	N/A	N/A	N/A	1	N/A	N/A	4.24	
Nickel - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	1.06	
Hexachlorobutadiene µg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Toluene μg/l	N/A	N/A	N/A	1	N/A	N/A	0.35	
Tin - filtered µg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	
Selenium - unfiltered µg/l	N/A	N/A	N/A	1	N/A	N/A	2.12	

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)
2,4-D μg/l	N/A	N/A	N/A	1	N/A	N/A	0.11	
2,6-Dichlorobenzamide µg/l	N/A	N/A	N/A	1	N/A	N/A	0.07	

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 TPEFF3100D0353SW001

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		
There is no Ambient data included in the AER.									

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 - STRADBALLY WWTP - 2020

2.1.4.1 Treatment Efficiency Report - Stradbally 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	N/A	666	N/A
cBOD	N/A	248	N/A
ТN	N/A	601	N/A

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)	
COD	N/A	1182	N/A	
ТР	N/A	180	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 - Stradbally 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.

Stradbally WWTP - 2020			
Peak Hydraulic Capacity (m ³ /day) - As Constructed	1291.95		
DWF to the Treatment Plant (m ³ /day)	430.65		
Current Hydraulic Loading - annual max (m³/day)			
Average Hydraulic loading to the Treatment Plant (m³/day)			
Organic Capacity (PE) - As Constructed			
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}			
Organic Capacity (PE) - Remaining			
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 - STRADBALLY 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)
Uncontrolled release	Adverse Weather	1	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	1	No	No
Uncontrolled release Adverse Weather		1	No	Yes

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	SWO exceptional rainfall and overflow expected	1	No	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2020	4
Number of Incidents reported to the EPA via EDEN in 2020	4
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	lrish 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
SW004	237024, 97124	Yes	Medium	Meeting	Unknown	Unknown	Not Monitored
SW005	238177, 97387	Yes	Low	Meeting	19	1829	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
The SWO Assessment included the requirements of relevant of WWDL schedules?	No
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 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
D0353-SIP:01	Construct a new WWTP to comply with ELVs specified in Schedule A	С	22/12/2015	Yes	Works Completed		
D0353-SIP:02	SW001 Primary Discharge Point Convert to Storm Water overflow	С	22/12/2015	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	Improvement Description / or any Operational	Improvement	Expected Completion	Comments
Identifier	Improvements	Source	Date	
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?	Yes
List reason e.g. additional SWO identified	Establish location of Ambient Monitoring Point
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?	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

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

Signed: Date: 30/06/2021

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

Ambient Monitoring Summary

Receiving Water Monitoring referred to in the Licence[River Tay] is associated with SW001 [the previous septic tank discharge]. Flows to the septic tank were diverted to the Treatment Plant in April 2016.

Only u/s data is available for 2020 at this location.

Table 7.1 Stradbally Bridge u/s of PS.									
Agglomeration	Eden Code	Date	рН	BOD - 5 days (Total)	Dissolved Oxygen	Ammonia- Total (as N)	Total Oxidised Nitrogen (as N)	DIN	Visual
				mg/l	%	mg/l	mg/l	mg/l	
Stradbally Br	RS17T010400	16/06/2020 00:00	8.11	0.5	115.9	0.03	1.9		Clear
Stradbally Br	RS17T010400	10/09/2020 00:00	8.03	1	108	0.01	3	3.01	Clear
Stradbally Br	RS17T010400	13/10/2020 00:00	8.06	0.5	115	0.01	1.9	1.91	Clear
Stradbally Br	RS17T010400	18/11/2020 00:00	7.83		92	0.02	1.9		Clear

Receiving Water Monitoring for the current primary discharge point [SW003] must be agreed with the EPA. This monitoring could be undertaken in conjunction with Bathing Water monitoring at Ballyvooney Cove.

The table below contains the Bathing Water analysis undertaken at Ballyvooney Cove in 2020.

Beach Name: BALLYVOONEY		Contact:	Waterford City & Council				Phone: 076 1102020		
Date	27-May-20	15-Jun-20	04-Aug-20	10-Aug-20	04-Sep-20	10/09/2020			
Time	12.20	11:00	11.00	11.00	11.00	11.00			
E coli count per 100 mls	41	10	<10	52	63	63			
Water Quality Category	0	C	C	C	Θ	C			
Intestinal Enterococci count per 100 mls	<10	<10	20	<10	130	<10			
Water Quality Category	0	0	Ο	Ο	0	C			
Bathing Water Quality	What do the results mean?				Is this beach subject to short-term pollution?				
The bathing water is monitored for the different							,		
types of bacteria shown in the tables. In the table you can see when the water	E coli <250	IE <100	0	Excellent	YES	V	NO		
has been analysed and how many bacteria were found. A small number of	<500	<200	©	Good	When the stream at beach is in flood condition then bathing water quality can be temporarily affected. Bathing is not advised within 48 hrs of heavy rain.				
clean - a high number of bacteria tell you	<1000	<250	()	Sufficient	The number of days when bathing was advised against during this bath season				
could contain bacteria from sewage or land run-off.	>1000	>250	6	Poor			0	Days	