

Annual Environmental Report

2021



Whitegate Aghada

D0423-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0423-01, Whitegate Aghada, in Cork 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.

New WWTP, 3 no. new pumping stations and network improvements are going through design stage.

1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at Whitegate Aghada . Please refer to section 4 for details of the Programme of Improvements.

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
TPEFF0500D0423SW002	WHITEGATE/AGHADA SEPTIC TANK	Untreated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF0500D0423SW003	Whitegate Aghada Secondary Discharge #2	Untreated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l
TPEFF0500D0423GW004	Whitegate Aghada Secondary Discharge #3	Untreated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l
TPEFF0500D0423SW001	Ardnabourkey Estate WWTP	Untreated	Non-Compliant	Ammonia-Total (as N) mg/l BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l

1.4 LICENCE SPECIFIC REPORTING

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

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 WHITEGATE/AGHADA SEPTIC TANK - UNTREATED DISCHARGE

2.1.1 EFFLUENT MONITORING SUMMARY – SW002

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	5	5	N/A	Fail
Suspended Solids mg/l	35	87.5	N/A	6	5	5	N/A	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	5	5	N/A	Fail
pH units	9.00	9.00	N/A	6	N/A	N/A	N/A	Pass
E. Coli no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
Faecal coliforms no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	

Notes:

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

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

The agglomeration is not served by a wastewater treatment plant

Significance of Results:

The discharge is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section2

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0500D0423SW002

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 Ecological 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:

There is no ambient data included in the AER. It is unknown if the ambient monitoring points meet the required EQS for this site. The EQS relates to the Oxygenation and Nutrient conditions set out in the Surface Water Regulations 2009.

It is unknown if discharge from the site has an observable impact on the water quality.

It is unknown if discharge from the site has an observable negative impact on the Water Framework Directive status.

2.2 WHITEGATE AGHADA SECONDARY DISCHARGE #2 - UNTREATED DISCHARGE

2.2.1 EFFLUENT MONITORING SUMMARY – SW003

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	5	5	N/A	Fail
Suspended Solids mg/l	35	87.5	N/A	6	5	5	N/A	Fail

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	6	5	N/A	Fail
pH units	9.00	9.00	N/A	6	N/A	N/A	N/A	Pass
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
Faecal coliforms no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
E. Coli no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	

Notes:

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

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

The agglomeration is not served by a wastewater treatment plant

Significance of Results:

The discharge is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section2

2.2.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0500D0423SW003

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 Ecological 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:

There is no ambient data included in the AER. It is unknown if the ambient monitoring points meet the required EQS for this site. The EQS relates to the Oxygenation and Nutrient conditions set out in the Surface Water Regulations 2009.

It is unknown if discharge from the site has an observable impact on the water quality.

It is unknown if discharge from the site has an observable negative impact on the Water Framework Directive status.

2.3 WHITEGATE AGHADA SECONDARY DISCHARGE #3 - UNTREATED DISCHARGE

2.3.1 EFFLUENT MONITORING SUMMARY – GW004

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	6	6	N/A	Fail
Suspended Solids mg/l	35	87.5	N/A	6	6	6	N/A	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	6	6	N/A	Fail
pH units	9.00	9.00	N/A	6	N/A	N/A	N/A	Pass
Faecal coliforms no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
E. Coli no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	

Notes:

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

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

The agglomeration is not served by a wastewater treatment plant

Significance of Results:

The discharge is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section2

2.3.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0500D0423GW004

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 Ecological 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:

There is no ambient data included in the AER. It is unknown if the ambient monitoring points meet the required EQS for this site. The EQS relates to the Oxygenation and Nutrient conditions set out in the Surface Water Regulations 2009.

It is unknown if discharge from the site has an observable impact on the water quality.

It is unknown if discharge from the site has an observable negative impact on the Water Framework Directive status.

2.4 ARDNABOURKEY ESTATE WWTP - UNTREATED DISCHARGE

2.4.1 EFFLUENT MONITORING SUMMARY – SW001

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	7	7	5	N/A	Fail
Suspended Solids mg/l	35	87.5	N/A	7	7	7	N/A	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	7	7	7	N/A	Fail
Total Oxidised Nitrogen (as N) mg/l	20	24	N/A	6	N/A	N/A	N/A	Pass
pH units	9.00	9.00	N/A	7	N/A	N/A	N/A	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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Ammonia-Total (as N) mg/l	5.00	6.00	N/A	6	6	6	N/A	Fail
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	7	N/A	N/A	N/A	
Faecal coliforms no./100mls	N/A	N/A	N/A	7	N/A	N/A	N/A	
E. Coli no./100mls	N/A	N/A	N/A	7	N/A	N/A	N/A	

Notes:

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

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

The agglomeration is not served by a wastewater treatment plant

Significance of Results:

The discharge is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section2

2.4.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0500D0423SW001

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 Ecological Status
Upstream	184370, 65199	CW05003150LE8007	No	No	No	Yes	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 discharge was not compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results do not meet the required EQS at the upstream and the downstream monitoring locations. 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.

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature related to the discharge(s) to water from the WWTP and network is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2021.			

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)
Breach of ELV	WWTP upgrade required to meet ELV	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	1
Number of Incidents reported to the EPA via EDEN in 2021	1
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 (chamber) where applicable	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2021 (No. of events)	Total volume discharged in 2021 (m3)	Monitoring Status
SW005	184034, 63811	Yes	Low	Meeting	Unknown	Unknown	Not Monitored

Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

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?	N/A
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?	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 a 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
D0423-SIP:01	Discontinue discharge from Imhoff Tank	C	31/12/2019	Yes	At Planning Stage	2024	
D0423-SIP:02	Provision of secondary treatment for the agglomeration	C	31/12/2019	Yes	At Planning Stage	2024	
D0423-SIP:03	Secondary Discharge Point to be discontinued	C	31/12/2019	Yes	At Planning Stage	2024	

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improvements planned at this time.				

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 Tables 4.2.1 and 4.2.2.

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

Licence Specific Report	Required by licence	Year included in AER	Included in this AER
Priority Substances Assessment	Yes	2015	No
Shellfish Impact Assessment	Yes		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
Has a Technical amendment/licence review application been submitted to the Agency by IW?	Yes
List reason e.g. additional SWO identified	Relocation of primary discharge point, increase in collected loading and proposed new emission limit values
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?	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: 24/05/2022

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

Whitegate Aghada SW001 (Long Point)	EQS		10/02/2021 11:15	09/06/2021 08:00	11/08/2021 10:30	20/10/2021 08:30	95%ile	Mean
	Mean	95%ile						
	80%<95%ile<120%							
D.O % O ₂			98.7	94.5	93.4	95.5	98.2	
Temperature C°	≤ 1.5 C° increase		6.3	14.3	16.1	14.7	15.9	12.9
pH	8 < pH < 9		7.9	7.4	7.8	7.9	7.9	7.8
BOD mg/L	N/A		1.7	6.5	1.7	0.5	5.8	2.6
Ammonia (N) mg/l	N/A		0.0175	1.903	0.0175	0.0175	1.620	0.489
Conductivity µS/cm	N/A		42800	40900	36700	43400	43310	40950
TON (N) mg/l	≤ 0.25 @ 34 PSU		0.6	0.54	1.02	0.27	0.96	0.81
Suspended Solids (mg/l)	N/A		30	36	28	12	35.1	26.5
Faecal Coliforms MPN/100mls	N/A		110	24196	1236	5	20752	6387
E.Coli MPN/100mls	N/A		98	17329	1391	5	14938	4708
Intestinal enterococci CFU/100mls	N/A		52	5794	2187	98	5253	2033

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding tool Code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status
Downstream Monitoring Point	E183989 N63719	CW05003150LE8008	No designated	No	No	2.5km NE of discharge location	Moderate

Significance of Results	
Did the ambient monitoring results meet the EQS Required?	No
Is there an observable negative impact on water quality?	Observable TBC
List the parameters causing the impact?	TON
A deterioration has been identified, but it is not known if it is caused by the TP	TRUE
Do the discharges from the WWTP have an observable negative impact on the WFD?	N/A (no WWTP)
Any other known impacts	Catchment Pressures

Whitegate Aghada SW002 (Rostellan)	EQS		10/02/2021 10:35	09/06/2021 08:15	11/08/2021 09:55	25/08/2021 09:45	20/10/2021 08:20	95%ile	Mean
	Mean	95%ile							
	80%<95%ile<120%								
D.O % O ₂			98	100.3	99.8	104.2	95.1	103.4	
Temperature C°	≤ 1.5 C° increase		6.1	14.7	17	21.2	15.7	20.36	14.94
pH	8 < pH < 9		7.9	8.0	8.0		7.4	8.0	7.8
BOD mg/L	N/A		1.5	1.5		2.5	4.5	4.2	2.5
Ammonia (N) mg/l	N/A		0.0175	0.0175	0.112		0.0175	0.098	0.041
Conductivity µS/cm	N/A		42200	35100	37300	41200	42050	38950	
TON (N) mg/l	≤ 0.25 @ 34 PSU		0.66	0.97	0.49		0.39	0.92	0.63
Suspended Solids (mg/l)	N/A		13	15	32		179	157	60
Faecal Coliforms MPN/100mls	N/A		187	52	1354		110	1179	426
E.Coli MPN/100mls	N/A		75	110	738		350	690	318
Intestinal enterococci CFU/100mls	N/A		31	5	441		275	416	188

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding tool Code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status
Downstream Monitoring Point	E186677 N65751	CW05003150LE8010	No designated	No	No	2.5km NE of discharge location	Moderate

Significance of Results	
Did the ambient monitoring results meet the EQS Required?	No
Is there an observable negative impact on water quality?	Observable TBC
List the parameters causing the impact?	TON
A deterioration has been identified, but it is not known if it is caused by the TP	TRUE
Do the discharges from the WWTP have an observable negative impact on the WFD?	n/a (no WWTP)
Any other known impacts	Catchment Pressures

Whitegate Aghada SW003 (Lower Aghada)	EQS		10/02/2021 10:30	09/06/2021 08:10	11/08/2021 10:20	06/10/2021 12:20	95%ile	Mean
	Mean	95%ile						
D.O % O ₂	80%<95%ile<120%		98.2	100.7	109.1	99.5	107.8	
Temperature C ^o	≤ 1.5 C ^o increase		8.1	14	16.2	15.4	16.1	12.9
pH	6 < pH < 9		7.9	8.0	8.1	7.9	8.1	8.0
BOD mg/L	N/A		1.8	1.5	2.5	1.2	2.4	1.8
Ammonia (N) mg/l	N/A		0.0175	0.0175	0.0175	0.0175	0.018	0.018
Conductivity μS/cm	N/A		42100	45000	46400	45600	46280	44775
TON (N) mg/l	≤ 0.25 @ 34 PSU		0.65	0.14	0.03		0.60	0.27
Suspended Solids (mg/l)	N/A		33	17	156	170	168	94
Faecal Coliforms MPN/100mls	N/A		97	414	309	2420	2119	810
E.Coli MPN/100mls	N/A		84	256	201	2420	2095	740
Intestinal enterococci CFU/100mls	N/A		41	97	74	2420	2072	658

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding tool Code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status
Downstream Monitoring Point	E185591 N65911	CW05003150LE8009	No designated	No	No	2.5km NE of discharge location	Moderate

Significance of Results	
Did the ambient monitoring results meet the EQS Required?	No
Is there an observable negative impact on water quality?	Observable TBC
List the parameters causing the impact?	TON
A deterioration has been identified, but it is not known if it is caused by the TP	TRUE
Do the discharges from the WWTP have an observable negative impact on the WFD?	n/a (no WWTP)
Any other known impacts	Catchment Pressures

