Annual Environmental Report 2016

Agglomeration Name:	Newbliss		
Licence Register No.	D0458-01		





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Section 1. Executive Summary and Introduction to the 2016 AER

1.1 Summary Report on 2016

This Annual Environmental Report has been prepared for **D0458-01**, **Newbliss**, in County **Monaghan**, in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified assessments are included as an appendix to the AER as follows:

Sewer Integrity Risk Assessment in Appendix 7.3

The agglomeration is served by a wastewater treatment plant with a Plant Capacity PE of 1000. The treatment process includes the following:-

- Preliminary Treatment (Screening)
- Primary Treatment (Settlement Tanks)
- Secondary Treatment (Percolating filters and Clarifiers)
- Nutrient Removal (Chemical Dosing for Phosphorus Removal)

The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Values in 2016.

The following parameters exceeded the emission limit values in 2016:-

• BOD (mg/l)

368,000kgs sludge as liquid sludge was removed from the wastewater treatment plant in 2016. Sludge was transferred to Monaghan WWTP.

There were no major capital or operational changes undertaken in 2016

An Annual Statement of Measures is included in Appendix 7.1



Section 2. Monitoring Reports Summary

2.1 Summary report on monthly influent monitoring

Table 2.1 Influent Monitoring Summary

2.1.1 Monthly Influent Monitoring	BOD (mg / I)	COD (mg / I)	SS (mg/I)	TP (mg / I)	TN (mg/l)	Hydraulic Loading (m3/d)	Organic Loading (PE/Day)
Number of Samples	7	7	7	0	0		
Annual Max.	343	744	152	0	0	1836	1,425
Annual Mean	190.27	418.38	92.00			135.63	512.37

Other inputs, where relevant, are detailed in Section 3.6.

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 greater than the peak Treatment Plant Capacity as detailed further in Section 3.2. The design of the wastewater treatment plant does not allow for peak values and therefore the peak loads have been impacted on compliance with Emission Limit Values.

The annual mean organic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.

The annual maximum organic loading is greater than the Treatment Plant Capacity as detailed further in Section 3.2.



2.2 Discharges from the agglomeration

Table 2.2 - Effluent Monitoring

2.2.1 Effluent Monitoring	BOD	COD	TSS	Ortho P (mg/l)	Ammonia NH3	рН
Summary	(mg/l)	(mg/l)	(mg/l)		(mg/l)	
WWDL ELV (Schedule A)	10.00	100.00	35.00	1.5	8	6 to 9
where applicable				Note: Stricter ELV	Note: Stricter	
				for Ortho P 0.5mg/l	ELV for	
				P will apply from	Ammonia 1mg/l	
				the 31/12/19	N will apply	
					from the	
					31/12/19	
ELV with Condition 2	20.00	200.00	87.50	1.80	16.00	No allowable
Interpretation included						exceedances
Interim % Reduction						
(Schedule A)						
Number of sample results	6	6	6	6	6	6
Number of sample results	3	1	1	0	0	0
above WWDL ELV	_					
Number of sample results	1	0	0	0	0	0
above ELV with Condition 2 Interpretation						
Annual Mean (for						
parameters where a mean						
ELV applies)						
Overall Compliance	Fail	Pass	Pass	Pass	Pass	Pass
(Pass/Fail)						



Significance of results

The WWTP was non-compliant with the ELV's set in the wastewater discharge licence. One sample was non-compliant with the ELVs in relation to BOD (mg/l). The non-compliances were to overdue desludging and an issue with the rotating arm on the trickling filter. 2016 exceedances of ELV's were as follows 06/04/16 BOD = 12mg/l, 09/08/16 BOD = 31mg/l, COD 113mg/l and Suspended Solids 42mg/l, 19/09/16 BOD = 13mg. All parameters were within licence ELV's for compliance samples taken in October and December 2016. The impact on receiving waters is assessed further in Section 2.3.



2.3.1. Ambient Monitoring Summary

Table 2.3. Ambient Monitoring Report Summary Table

Ambient Monitoring Point from	Irish Grid	EPA Feature	Bathing	Drinking	FWPM	Shellfish	Current WFD Status
WWDL (or as agreed with EPA)	Reference	Coding Tool code	Water	Water			
Upstream Monitoring Point	E256207	RS36N020600					Moderate
	N323351						
Downstream Monitoring Point	E256274	RS36N020900	No	No	No	No	Moderate
	N323809						

The results for the upstream and downstream monitoring and/or additional monitoring data sets from Irish Water are included in the Appendix 7.2.

Significance of results

- The WWTP was non-compliant with the ELV's set in the wastewater discharge licence as detailed in Section 2.2.
- The discharge from the wastewater treatment plant does have an observable negative impact on the water quality.
- The discharge from the WWTP doesn't have an observable negative impact on the Water Framework Directive status.
- Other potential causes of deterioration in water quality relevant to this area are unknown.

2.4 Data collection and reporting requirements under the UWWTD

The electronic submission of data was completed on 11/01/2017

2.5 Pollutant Release and Transfer Register (PRTR) - report for previous year

A PRTR is not required as the PE is < 100000



Section 3. Operational Reports Summary

3.1 Treatment Efficiency Report

	cBOD (kg/yr)	COD (kg/yr)	SS (kg/yr)
Influent mass loading (kg/year)	11,221	24,674	5,426
Effluent mass emission (kg/year)	676	2,705	1,002
% Efficiency (% reduction of	94%	89%	82%
influent load)			

3.2 Treatment Capacity Report

Table 3.2 - Treatment Capacity Report Summary

Hydraulic Capacity – Design / As Constructed (dry weather flow) (m3/day)	227				
Hydraulic Capacity – Design / As Constructed (peak flow) (m3/day)					
Hydraulic Capacity – Current loading (m3/day)					
Hydraulic Capacity – Remaining (m3/day)	545				
Organic Capacity - Design / As Constructed (PE)	1,000				
Organic Capacity - Current loading (PE)	512				
Organic Capacity – Remaining (PE)	488				
Will the capacity be exceeded in the next three years? (Yes / No)					
Is an upgrade or expansion of the WWTP proposed? (i.e. if on Minor Programme or CIP) (Yes/No)	No				

3.3 Extent of Agglomeration Summary Report

In this section Irish Water is required to report on the amount of urban waste water generated within the agglomeration. It does not include any waste water collected and created in a private system and discharged to water under a Section 4 Licence issued under the Water Pollution Acts 1977 (as amended).



Table 3.3 - Extent of Agglomeration Summary Report

	% of P.E. load generated in the agglomeration	Estimated / Measured
Load generated in the agglomeration that is collected in the sewer network	100%	
Load collected in the agglomerations that enters treatment plant	Unknown	
Load collected in the sewer network but discharges without treatment (includes SWO, EO, and any discharges that are not treated)	Unknown	

Load generated in the agglomeration that is collected in the sewer network is the total load generated and collected in the municipal network within the boundary of the agglomeration.

Load collected in the agglomerations that enters treatment plant is that portion of the previous figure which enters the waste water treatment plant.

Load collected but discharged without treatment is that portion of the first figure which is discharged without treatment.

3.4 Complaints Summary

A summary of complaints of an environmental nature is included below.

Table 3.4 - Complaints Summary Table

	•		
Number of	Nature of Complaint	Number	Number
Complaints		Open	Closed
		Complaints	Complaints
None			



3.5 Reported Incidents Summary

A summary of reported incidents is included below.

Table 3.5.1 - Summary of Incidents

3.5.1 Incident Type (e.g. Non- compliance, Emission,	Incident Description	Cause	No. of Incidents	Recurring Incident (Yes/No)	Corrective Action	Authorities Contacted. Note 1	Reported to EPA (Yes/No)	Closed (Yes/No)
spillage, pollution								
incident)								
Non- compliance with ELV	INCI010780 Breach of ELV for BOD	Desludging required and issue with the rotating arm on the trickling filter	2	Yes	Desludging carried out Rotating arm repaired , additional work required on the arms.	IFI	Yes	No

Note 1: For shellfish waters notify the Marine Institute (MI) Sea Fisheries Protection Authority (SFPA) Food Safety Authority (FSAI) and An Bord Iascaigh Mhara (BIM). This should also include any other authorities that should be contacted arising from the findings of any Licence Specific Reports also e.g. Drinking Water Abstraction Impact Risk Assessment, Fresh Water Pearl Mussel Impact Assessments etc.

Table 3.5.2 - Summary of Overall Incidents

Number of Incidents in 2016	2
Number of Incidents reported to the EPA via EDEN in 2016	2
Explanation of any discrepancies between the two numbers above	N/A



3.6 Sludge / Other inputs to the WWTP

Other inputs to the waste water treatment plant are summarised in Table 3.6 below.

Table 3.6 - Other Inputs

Input Type	m3/year	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)
Domestic /Septic	0	0	N/A			
Tank Sludge						
Industrial /	0	0	N/A			
Commercial Sludge						
Landfill Leachate	0	0	N/A			
(delivered by tanker)						
Landfill Leachate	0	0	N/A			
(delivered by sewer						
network)						
Other (specify)	0	0	N/A			



Section 4. Infrastructure Assessments and Programme of Improvements

4.1 Storm water overflow identification and inspection report

The Stormwater Overflow Assessment was not submitted previously. A summary of the significance and operation is included below.

Table 4.1.1 - SWO Identification and Inspection Summary Report

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow (High/Med/ Low)	Compliance with DoEHLG criteria	No. of times activated in 2016 (No. of events)	Total volume discharged in 2016 (m3)	Total volume discharged in 2016 (P.E.)	Estimated / Measured data
SW003 * By way of clarification and correction SW003 (listed in WWDL) is not a separate discharge point. The overflow from the storm tank discharges via SW002 (secondary discharge point). An event monitor was installed on the overflow from storm tank in July 2016.	E256277 N323714	Yes	Low	Unknown	Unknown	Unknown	Unknown	

Table 4.1.2 - SWO Identification and Inspection Summary Report

How much sewage was discharged via SWOs in the agglomeration in the	Unknown
year (m3/yr)?	
How much sewage was discharged via SWOs in the agglomeration in the	Unknown
year (p.e.)?	
What % of the total volume of sewage generated in the agglomeration	Unknown



was discharged via SWOs in the agglomeration in 2013?	
Is each SWO identified as non-compliant with DoEHLG Guidance included	Yes
in the Programme of Improvements?	
The SWO assessment includes the requirements of relevant WWDL	N/A
Schedules (Yes/No)	
Have the EPA been advised of any additional SWOs / changes to	No
Schedules A/C under Condition 1?	



4.2 Report on progress made and proposals being developed to meet the improvement programme requirements.

The Improvement Programme report included in Appendix 7.1 addresses the **Specified Improvement Programmes** as detailed in Schedules A3 and C of the WWDL. It should detail other improvements identified through assessments required under the licence.

Table 4.2.1 - Specified Improvement Programme Summary

Specified Improvement Programmes	Licence Schedule	Licence Completion Date	Date Expired	Status of Works	% Construction Work Completed	Licensee Timeframe for Completing the Work	Comments
Upgrade WWTP to ensure that ELV's are complied with	С	31/12/2019	No	Not started	0%	The improvemen t programme will be reviewed by Irish Water to assess the works required to comply with the licence condition on a prioritised basis.	New Lower Emission Limit Values for Ammonia (1mg/l N) and Orthophosphate (0.5mg/l P) are due to come into effect on the 31/12/2019



A summary of the status of any improvements identified by under Condition 5.2 is included below.

Table 4.2.2 - Improvement Programme Summary

Improvement Identifier / Name	Improvement Description	Improvement Source	Progress (% complete)	Expected Completion Date	Comments
N/A	N/A	Sewer Integrity Tool (Condition 5.2)	100%		2015 SIT submitted in Jan 2016. Updated 2016 SIT submitted with this AER
N/A	N/A	Secondary Discharges assessment (Condition 5.2)	N/A	N/A	
No record of SWO activation or measurement of flows	Install SWO measurement /recorder device to measure flows/ record the no of times it activates	SWO assessment (Condition 4 and 5.2)	0%	Unknown	The improvement programme will be reviewed by Irish Water to assess the works required to comply with the licence condition on a prioritised basis.
10007268	Flow monitoring and Sampling MN	Improved Operational Control	100%		Influent sampler and SWO event monitor installed in 2016
Rotating arms	Rotating Arms on trickling filter repaired	Improved Operational Control and Condition 5.1	100%	2016	Complete
Rotating arms	Further upgrade works required on the rotating arms	Improved Operational Control and Condition 5.1	0%		Due for completion 2017



Table 4.2.3 - Sewer Integrity Risk Assessment Tool Summary

The Improvement Programme should include an assessment of the integrity of the existing wastewater works for the following:	Risk Assessment Rating (High, Medium, Low)	Risk Assessment Score	Reference to relevant section of AER (e.g. Appendix 2 Section 4.	Specified improvements	Comment
Hydraulic Risk Assessment Score	High	120	Appendix 7.3 AER 2016		
Environmental Risk Assessment Score	Low	125	Appendix 7.3 AER 2016		
Structural Risk Assessment Score	High	140	Appendix 7.3 AER 2016		
Operation & Maintenance Risk Assessment Score	Low	40	Appendix 7.3 AER 2016		
Overall Risk Score for the agglomeration	High	425	Appendix 7.3 AER 2016		



Section 5. Licence Specific Reports

Licence Specific Reports Summary Table

Licence Specific Report	Never required by condition 5 in Licence	Required in this AER or outstanding from previous AER	Included in this AER / Remains outstanding	Reference to previous AER containing report or relevant section of this AER
Priority Substances Assessment	Required	No	No	AER 2014
Drinking Water Abstraction Point Risk Assessment	Not Required	No	No	
Shellfish Impact Assessment	Not Required	No	No	
Pearl Mussel Report	Not Required	No	No	
Toxicity/Leachate Management	Not Required	No	No	
Toxicity of Final Effluent Report	Not Required	No	No	
Small Stream Risk Score Assessment	Not Required	No	No	
Habitats Impact Assessment	Not Required	No	No	

Licence Specific Reports Summary of Findings

Licence Specific Report	Recommendations in Report	Summary of Recommendations in Report
Priority Substances Assessment	Yes	No Further Screening Required
Drinking Water Abstraction Point	No	
Risk Assessment		
Shellfish Impact Assessment	No	
Pearl Mussel Report	No	
Toxicity/Leachate Management	No	
Toxicity of Final Effluent Report	No	
Small Stream Risk Score Assessment		
Habitats Impact Assessment	No	



5.1 Priority Substances Assessment

The Priority Substances Assessment was submitted previously in AER 2014 and is summarised below:

Priority Substance Assessment Summary Report	Licensee self- assessment checks to determine whether all relevant information is included in the Assessment.
Does the assessment use the Desk Top Study Method or Screening Analysis to determine if the discharge contains the parameters in Appendix 1 of the EPA guidance	Desk top Study
Does the assessment include a review of Trade inputs to the works?	Yes
Does the assessment include a review of other inputs to the works?	Yes
Does the report include an assessment of the significance of the results where a listed material is present in the discharge? (e.g. impact on the relevant EQS standard for the receiving water)	Yes
Does the assessment identify that priority substances may be impacting the receiving water?	No
Does the Improvement Programme for the agglomeration include the elimination / reduction of all priority substances identified as having an impact on receiving water quality?	No
Recommendations	No Further Screening Required
Status of any improvement measures required	N/A



Section 6. Certification and Sign Off

Table 6.1 - Summary of AER Contents

Does the AER include an executive summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works	Yes
(i.e. have the results of assessments been interpreted against WWDL requirements	
and or Environmental Quality Standards)?	
Is there a need to advise the EPA for consideration of a technical amendment /	Yes
review of the licence?	
List reason e.g. additional SWO identified	Clarification on SW002
	(secondary discharge point
	and SW003 (storm water
	overflow)
Is there a need to request/advise the EPA of any modifications to the existing	No
WWDL? Refer to Condition 1.7 (changes to works/discharges) & Condition 4	
(changes to monitoring location, frequency etc.)	
List reason e.g. failure to complete specified works within dates specified in the	N/A
licence, changes to monitoring requirements	
Have these processes commenced? (i.e. Request for Technical Amendment / Licence	No
Review / Change Request)	
Are all outstanding reports and assessments from previous AERs included as an	No, none outstanding
appendix to this AER?	
Ensure the following reports are included	

Declaration by Irish Water

The AER contains the following:

- Introduction and background to 2016 AER.
- Monitoring Reports Summary.
- Operational Reports Summary.
- Infrastructural Assessment and Programme of Improvements.
- Licence specific reports
- Certification and Sign Off
- Appendices

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

Elizabeth Arnett

Head of Corporate Affairs and Environmental Regulation

Elizabet / Date: 24/02/2017.....



Section 7. Appendices

Appendix 7.1 Statement of Measures

1	Issue	No record of SWO activating or measurement of flows
	Mitigation Measure	Install SWO measurement/recorder device to measure flows/record no of
		times it activates
	Status	SWO event recorder installed in July 2016
2	Issue	Failure to meet ELV's or ortho P
	Mitigation Measure	Installation of ferric dosing
	Status	Ferric dosing installed
3	Issue	Rotating arms on Percolating Filter require replacement
	Mitigation Measure	Replace Arms
	Status	Arms replaced some issues outstanding further works required , due to be
		complete 2017

Specified Improvement Programme

a) Specified Improvement Programme

Report on progress made and proposals being developed to meet the improvement programme requirements

As per condition 5.1 of the licence, a programme of infrastructural improvements to maximise the efficiency and effectiveness of the waste water works shall be prepared and submitted: In the licence, under schedule C, there is a specified improvement listed, this is to upgrade the WWTP to ensure that ELV's are complied with the completion date for this improvement is the 31/12/2019. In 2016 the WWTP plant was non compliant with ELV's for BOD. There was 1 exceedance of the ELV (with condition 2 interpretation) for BOD in 2016 and 3 exceedances above the WWDL ELV 10mg/l. There was 1 exceedance of ELV 1 for suspended solids and 1 exceedance of ELV 1 for COD. In 2015 there was a problem with the rotating arms on the polishing filter, these arms were repaired however further works are required on these arms. This work is due for completion in 2017.

There is phosphorus removal at the WWTP. There were no breaches of ELV for ortho p in 2016. The capacity of the WWTP is detailed in section 3.2 (Treatment Capacity Report), there is remaining capacity at the WWTP.

Under condition 5.2 (i) of the licence, the programme of infrastructural improvements shall include an assessment of the waste water treatment plant having regard to the effectiveness of the treatment provided by reference to the following:

(i) The existing level of treatment, capacity of treatment plant and associated equipment:

There is adequate capacity at the treatment plant.



(ii) The emission limit values specified in Schedule A: Discharges, of this licence:

There were 2 incidents in 2016, these were reported to the EPA. Repairs to rotating arms were carried out however further works are required and this is due for completion in 2017. Works carried out and planned should result in improved treatment performance.

(iii) The designations of the receiving water body:

The receiving is not a designated Salmonid Water (under the European Communities (Quality of Salmonid Waters) Regulations, 1988). It is not designated as a sensitive water under the Urban Waste Water Treatment Regulations 2001. The river is not designated as an SPA, SAC or NHA. The Newbliss Stream is in the North Western river basin district with overall status classified as 'Moderate' with an overall objective to restore its status by 2021. The 'point risk source' and potential for impact from the WWTP discharge on the river is categorised as 'at risk',

(iv) Water quality objective for the receiving water body:

The Newbliss Stream is in the North Western river basin district with overall status classified as 'Moderate' with an overall objective to Restore its status by 2021. The receiving water shows evidence of contamination both upstream and downstream of the discharge in 2016. Both the wwtp and other upstream activities are likely sources of contamination.

(v) The standards and volumetric limitations applied to any industrial waste water that is licensed to discharge to the waste water works:

There are no industries licensed to discharge to the waste water works.

Under condition 5.2 (b) of the licence, the programme of infrastructural improvements shall include an assessment of the integrity of the waste water works having regard to:

(i) Capacity of the waste water works:

There is adequate capacity at the treatment plant (section 3.2 Treatment Capacity Report).

(ii) Leaks from the waste water works:

There are no known leaks at the WWTP site.

(iii) Misconnections between foul sewers and surface water drainage network:

Monaghan County Councils Environment Section monitor surface water quality and investigate misconnections.

(iv) Infiltration by surface water/ground water:



CCTV work is in the programme of improvements for Newbliss WWTP.

b) Programme of Improvements

Under condition 5.2 (c) of the licence, the programme of infrastructural improvements shall include an assessment of all storm water overflows associated with the waste water works to determine the effectiveness of their operation and in particular identify improvements necessary to comply with the requirements of this licence:

There are no specified improvement works in the discharge licence and no planned improvement works for the WWTP.



Appendix 7.2 Ambient Monitoring Results

	Newbliss Upstream								
Sample Reference	Sample Date	Dissolved Oxygen mg/l	Temp °C	BOD mg/l	Ortho Phosphorus mg/l	Ammonia mg/l	pH units		
	2-Feb-								
92982/003	2016	10.76	9.2	9.7	0.047	<0.007	7.7		
95201/003	6-Apr- 2016	10.24	9.5	3.1	0.041	0.1	7.9		
97680/003	13- June- 2016	7.4	17.8	<1	0.062	0.16	7.7		
99791/003	9-Aug- 2016	8.3	15.1	2	0.147	0.067	7.9		
101406/003	19-Sep- 2016	8.56	13.5	> 18	0.106	0.022	8.3		
102796/003	19-Oct- 2016	9.55	11.3	4.4	0.1	0.059	7.6		
104770/001	05-Dec- 2016	10.3	6.2		0.074	<0.007	7.6		
	Average	9.3	11.8	6.36	0.082	0.06	7.81		
		r	Newbliss D	ownstream	l				
Sample Reference	Sample Date	Dissolved Oxygen mg/l	Temp °C	BOD mg/l	Ortho Phosphorus mg/l	Ammonia mg/l	pH units		
92982/004	2-Feb- 2016	10.55	10.6	6.5	0.041	0.008	7.6		
95201/004	6-Apr- 2016	10.32	9		0.04	0.021	7.8		
97680/004	13- June- 2016	7.72	19	15	0.043	0.013	7.6		
99791/004	9-Aug- 2016	7.97	14.9	5.5	0.134	0.033	7.8		
101406/004	19-Sep- 2016	9	13.4	6.4	0.076	0.04	8.3		
102796/004	19-Oct- 2016	9.56	11.8	2.6	0.088	0.13	7.7		
104770/002	05-Dec- 2016	10.82	6.8	1	0.044	0.15	7.6		
	Average	9.42	12.21	6.16	0.066	0.056	7.77		



Appendix 7.3 Sewer Integrity Risk Assessment 2016

	Section 1.1 Applemention Details						
	Section 1.1 Agglomeration Details Name	Newbliss					
	Licence Number			D0458-01			
	Insert Name of Catchment if the Risk Assessment is for part of an agglomeration (only divide agglomeration where p.e. >5,000p.e. and where such division is warranted)			Newbliss			
	Date Licence Issued	04/09/2013					
	Current Date		Year	13/02/2017 Year Year		Year	
	Waste Water Works - Wastewater Treatment Plant Details	Unit	2015	2016	2017	2018	
1.1	Is there an existing WWTP in operation?		Yes	Yes	Yes	Yes	
	Section 1.2 BOD Loading & Population Equivalent						
1.2	Average Daily Influent Flow or Average Total Flow in system (If no measured data exists, insert estimated figure)	I/day, measured	252000	136000			
1.3	Average Daily Influent BOD or Average BOD Load from area served (If no measured data exists, insert estimated figure)	mg/l, measured	143.28	190.27			
1.4	Total BOD Load	kg/day	36.10656	25.87672	0	0	
1.5	Average Population Equivalent (@0.06kg/person/day)	p.e.	602	431	0	0	
1.6	Estimated (existing) Non-Domestic Load	p.e.					
1.7	Estimated Domestic Load	p.e.	602	431	0	0	
1.8	Occupancy Rate for the Agglomeration	pop/house	2.7	2.7			
1.9	Estimated Number of Connected Properties	houses	223	160	0	0	
1.10	Number of properties within the agglomeration when compared with CSO Data or An Post Geodirectory	houses	140	140			
	Section 1.3 Hydraulic Details		. 10	. 10			
1.11	Average Dry Weather Flow arriving at WWTP OR Total Average DWF						
1.11	in system (If no measured data exists insert estimated figure)	l/s, measured	2.04	0.88888889			
1.12	Estimated 3DWF	l/sec	6.12	2.67	0.00	0.00	
1.13	Annual Average Peak Flow to WWTP or discharging from whole system if there is no existing WWTP	l/s, measured	10.99537037	5.92			
1.14	This Annual Average Peak as Multiples of Dry Weather Flow (Peaking						
1.14	Factor)	Nr	5.39	6.66	0.00	0.00	
1.15	Highest Peak Flow Recorded (Insert UNKNOWN if no records exist)	I/s	Unknown	10.99			
1.16	Does this Peak Flow (multiple of DWF) cause hydraulic capacity problems within the network?	No		No	Yes	Yes	
1.17	Total Rainfall for Previous Year		1269	891			
1.18		mm					
	Comparison - Mean Annual Rainfall for the agglomeration	mm	1006.9	1006.9			
1.18.1	Define the Weather Station Used		Ballyhaise	Ballyhaise			
1.19	If Storm Water Storage is available at the Wastewater Treatment plant, what is the volume of the storm tank?	m ³	NA	NA			
1.20	Is the capacity of the storm tank sufficient to capture and retain all overflows to the tank?		Yes	Yes	No	No	
1.21	Total monthly average volume of Storm Water Stored or Returned for Treatment within the Waste Water Treatment Plant	m ³ per month	NA	NA			
1.22	If the answer to 1.20 above is No, What is the estimated frequency of Overflows from the Storm Tank ? (N/A if no overflow)		N/A	N/A	1 to 2 times per month	< 1 per month	
	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details	Unit	2015	2016	2017	2018	
	Section 1.4 waste water works - Gravity Sewer Details						
1.23	What database is used to maintain records of the sewer network		Hard Copy Drawings only	Hard Copy Drawings only	SUS 2002	SUS 2003	
1.23.1	If other or combination of the above please describe	Describe					
1.24	Total length of sewers (use drop down menus to define whether these figures are estimated or measured)	e km Estimated 1.02 1.02		0.00	0.00		
1.24.1	Total length of sewers > 450mm Diameter	km Estimated					
1.24.2	Total length of sewers > 300mm but ≤ 450mm in Diameter	km Estimated					
1.24.3	Total length of sewers > 225mm but ≤ 300mm in Diameter	km Measured	0.39	0.39			
1.24.4	Total length of sewers ≤ 225mm in Diameter	km Estimated	0.63	0.63			
1.24.5	Other Displace Metasial	km Estimated					
1.25 1.25.1	Pipeline Material What portion of the sewer network consists of Concrete Pipes	% Estimated	38%	38%		 	
1.25.1	What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes	% Estimated	0%	0%			
1.25.3	What portion of the sewer network consists of Clay materials	% Estimated	0%	0%			
1.25.4	What portion of the sewer network consists of Brick Type Sewers	% Estimated	0%	0%			
1.25.5	What portion of the sewer network consists of Other Materials	% Estimated	62%	62%			
1.26	Total number of Storm Water Overflows	Nr	0	0			

	In a second seco	I	ı	1	1	ı
1.27	What Screening or other mechanical devices are employed at the storm water overflows					
	Storm Mator Overnows					
1.28	Water Quality at the receiving waters					
	Where the receiving water is a river - indicate the EPA Biological					
1.28.1	Rating of the Receiving Water for each SWO below (Particularly if					
	there is more than one receiving water within the agglomeration)					
	Where the receiving water is a coastal water indicate the Status of the					
1.28.2	Receiving Water for each SWO below (Particularly if there is more					
	than one receiving water within the agglomeration)					
4.00.0	With reference to the SWO's detailed above define if the receiving					
1.28.3	waters are sensitive in accordance with the Urban Wastewater Treatment Regulations as amended.					
	With reference to the SWO's detailed above define are the receiving					
1.28.4	waters Protected Areas (designated or awaiting designation)					
	With reference to the SWO's detailed above define do the receiving					
1.28.5	waters have any other designations.					
	, ,					
	Section 1.5 Waste Water Works - Pumping Stations					
1.29	Number of Pumping Stations (operated by the Local Authority)	Nr	1	1		
1.30	Total Length of Rising Mains (operated by the Local Authority)	km	Unknown	Unknown		
1.31	Rising Main Material					
1.31 1.31.1	Rising Main Material What portion of the rising mains consists of ductile iron pipes	% Measured	Unknown	Unknown		
	~	% Measured % Measured	Unknown Unknown	Unknown Unknown		
1.31.1	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials					
1.31.1 1.31.2	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e.	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N	% Measured	Unknown	Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and	% Measured % Estimated	Unknown Unknown	Unknown Unknown		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)	% Measured % Estimated	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and	% Measured % Estimated	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36 1.37	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N Water Quality at the receiving waters at each pumping station location Where the receiving water is a river - indicate the EPA Biological Rating of the Receiving Water for each secondary discharge point or	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of ther materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N Water Quality at the receiving waters at each pumping station location Where the receiving water is a river - indicate the EPA Biological Rating of the Receiving Water for each secondary discharge point or emergency overflow at each pumping station (Particularly if there is	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36 1.37	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N Water Quality at the receiving waters at each pumping station location Where the receiving water is a river - indicate the EPA Biological Rating of the Receiving Water for each secondary discharge point or	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		
1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.35 1.36 1.37	What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of ther materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station Cluain Dara at 265654E 323767N What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%) Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks) Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations Total Number of "Emergency Overflow Points" at pumping stations What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows? At Pump Station Cluain Dara at 265654E 323767N Water Quality at the receiving waters at each pumping station location Where the receiving water is a river - indicate the EPA Biological Rating of the Receiving Water for each secondary discharge point or emergency overflow at each pumping station (Particularly if there is	% Measured % Estimated % Nr	Unknown Unknown 0.00%	Unknown Unknown 0.00%		

	When the residence the content of the					
	Where the receiving water is a coastal water indicate the Status of the Receiving Water for each secondary discharge point or emergency					
1.38.2	overflow at each pumping station (Particularly if there is more than one					
	receiving water within the agglomeration)					
	,					
	At Pump Station Cluain Dara at 265654E 323767N	Describe	N/A	N/A		
	With reference to the pumping stations, for each secondary discharge					
1.38.3	point or emergency overflow detailed above, define if the receiving waters are sensitive in accordance with the Urban Wastewater					
	Treatment Regulations as amended.					
	At Pump Station Cluain Dara at 265654E 323767N		Not Listed	Not Listed		
	With reference to the pumping stations, for each secondary discharge					
1.38.4	point or emergency overflow detailed above, are the receiving waters					
	Protected Areas (designated or awaiting designation) .				1	
					 	
	At Pump Station Cluain Dara at 265654E 323767N	Designation	No	No	1	
					1	
					1	
					ļ	
	With reference to the pumping stations, for each secondary discharge				1	
1.38.5	point or emergency overflow detailed above, do the receiving waters				1	
	have any other designations.					
	At Pump Station Cluain Dara at 265654E 323767N	Designation	No	No		
	· ·					
4.00	Estimated Number of Private Pumping Stations within the	NI.	_	_		
1.39	agglomeration (not operated by the Local Authority)	Nr	0	0		
	Continue 4 C Demontinue					
	Section 1.6 Reporting					
	Section 1.6.1 Reported Number of Sewer Related Complaints					
	('Complaint' as defined in the Discharge Licence)					
1.40	Number of Reported Complaints	Nr	0	0		
1.41	Number of Reported Complaints which have been rectified	Nr	0	0		
	Section 1.6.2 Reported/Recorded/Estimated Number of Secondary					
	Discharges					
1.42	Number of Reported Secondary Discharges Number of Recorded Secondary Discharges	Nr Nr	Unknown Unknown	Unknown Unknown		
1.43	Estimated Total Number of Secondary Discharges	Nr	0	0	0	0
	Section 1.6.3 Reported/Recorded/Estimated Number of					
	Emergency Overflow Discharges from Pumping Stations					
1.45	Number of Reported Emergency Overflow Discharges	Nr	Unknown	Unknown		
1.46	Number of Recorded Emergency Overflow Discharges	Nr	Unknown	Unknown		
1.47	Estimated Total Number of Emergency Overflow Discharges	Nr	0	0	0	0
	Section 1.7 Operational Staff					
	In the four boxes below, describe the extent of operation staff					
	employed by the Local Authority to maintain and operate the sewer					
1.48	network and pumping stations				1	
	(The individual personnel shall not be named, only grade and level of				1	
	training needs to be provided)				ļ	
1	Caretaker 6 is responsible for the maintenance and operation of the				1	
1.48.1	Newbliss network and WWTP. The caretaker is also responsible for				1	
1	the Scotstown and Drum conglomerations.				1	
-	Caretaker operates under the supervision of a Line Manager				 	
1.48.2	Caretaker operates under the supervision of a Line Manager Technician				1	
	The Line Manager Technician is supervised by the Senior Executive				 	
1.48.3	Engineer					
	<u> </u>				1	
1.48.4						
	Waste Water Works - Investment Details	Unit	2015	2016	2017	2018
	Section 1.8 Capital Investment works carried out since most					
	recent report (including works not included on WSIP Programme					
1.49	or not WSIP funded) Sewers Upgraded or Replaced	m	0	0		
1.49	Sewers Opgraded of Replaced Sewers Rehabilitated	m	0	0	 	
1.51	Manholes Rehabilitated	Nr	0	0		

1.52	Local Repairs	Nr	0	0		
1.53	Total Length of sewers Upgraded, Replaced or Rehabilitated	m	0	0	0	0
1.54	Pumping Stations Operated by Local Authority Upgraded or Repaired	Nr	0	0		
1.55	WWTW operated by Local Authority Upgraded or Replaced	Nr	0	0		
1.56	In the following two cells describe the actual Capital Investment undertaken in the reporting period.					
1.56.1	Triere were no major capitat or operational changes undertaken in 2015. An Annual Statement of Measures is included in 2015 AER					
1.56.2						
	Section 1.9 Licence Specified Improvements Works					
1.57	2015 AER, Appendix 7.3					
	Section 1.10 Other Updates Since Last Report					
1.58						
1.59						

	Section 2.1 Hydraulic Risk Assessment							
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken			
2.1	Has a Hydraulic Performance Assessment been undertaken for the Sewer Network (e.g., Computer Model or other Engineering Design or Design Review)	No	40		If the answer is No assess the need and cost benefit of developing a computer model or engineering design assessment of the Sewer Network and complete Query 2.12. If the answer is Yes proceed to Queries 2.1.1 to 2.1.4 inclusive			
2.1.1	If Answer to Query 2.1 is Yes, what % of the Network is covered by the hydraulic assessment ?	N/A	0		The % coverage of the Network by the Hydraulic Assessment can be estimated by the area assessed against the area served by the Network. ENTER "N/A" IF COMPUTER MODEL or DESIGN DOES NOT EXIST. DO NOT LEAVE BLANK OR ENTER "0".			
2.1.2	How many years has it been since the completion of the hydraulic assessment?	N/A	0		Select N/A response if no design assessment or design exists.			
2.1.3	Are the outcomes of the Hydraulic Assessment being implemented ?	N/A	0		Select N/A response if no design assessment or design exists.			
2.1.4	How many years has it been since the outcomes of the hydraulic assessment have been implemented?	N/A	0		Select N/A response if no hydraulic performance assessment or design exists. For onging works select "less than 5".			
2.2	Has a Dynamic Computer Model been used to Assess the Hydraulic Performance of the Sewer Network ?	No	10		Computer Model means a Hydroworks/Infoworks Model, Micro-Drainage Model or equivalent.			
2.3	Has a Manhole Survey been undertaken in accordance with WRc Documentation "Model Contract Document for Manhole Location Surveys and the Production of Record Maps" ?	No	10		If the answer is No assess the need and cost benefit of undertaking a Manhole Survey and complete Query 2.12. If the answer is Yes proceed to Query 2.2.1			
2.3.1	If yes, how many years has it been since the survey was undertaken or updated?	N/A	0		Select N/A if no Manhole Survey has been undertaken. Enter N/A value for Confidence Grade if Prompt Box is "N/A"			
2.4	Has a Flow Survey been undertaken in accordance with WRc Documentation "A Guide to Short Term Flow Surveys of Sewer Systems" and "Contract Documents for Short Term Sewer Flows" ?	No	20		If the answer is No assess the need and cost benefit of undertaking a Flow Monitoring Survey and complete Query 2.12. If answer is Yes Proceed to Query 2.5			
2.5	What was this Flow Survey Information Used for ?							
2.5.1	To Determine the extent of Problematic Sewer Catchments	N/A	0		Select N/A if no Flow Survey has been undertaken.			
2.5.2	To Verify a Computer or Mathematical Model of the Network	N/A	0		Select N/A if no Flow Survey has been undertaken.			
2.6	Have Performance Criteria been developed to determine the short, medium or long term capacity of the sewer network?	No	10		If the answer is No assess the Future Needs of the Sewer Network and complete Query 2.12. If the answer is Yes proceed to Query 2.8			
2.7	How many flood events resulting from surcharge in the network have occurred in the past 3 years?	None	0		Flood events in this context means water/sewage backing up from the Network causing flooding of properties or causing disruption of traffic			
2.8	Are there deficiencies in performance criteria within the sewer network?	N/A	0		If the answer is No , Proceed to Query 2.10 and complete Query 2.12. If the answer is Yes proceed to Query 2.9			
2.9	Have the causes of these deficiencies in the Performance Criteria been identified and rectified ?	No	10		If the answer is No , consider further examination of the hydraulic model (if available) and complete Query 2.12. If the answer is Yes proceed to Query 2.10			
2.10	Can the Hydraulic Assessment (defined in Query 2.1 above) be used to determine the benefit of reducing the contributory Impermeable Areas or extent of surface water contributions	No	10		If the answer is No., consider further development of the Hydraulic Assessment (or model if available) and complete Query 2.12. If the answer is Yes proceed to Query 2.11			
2.11	Has an Impermeable Area Survey been carried out for the agglomeration or parts of the agglomeration ?	No	10		If the answer is No , consider the need and cost benefit of undertaking an Impermeable Survey for parts of the agglomeration which are under hydraulic pressure and complete Query 2.12.			
	Total Risk Assessme		120		Debekilisting beginning			
2.12	Prepare Assessment of Needs & Sewer Upgrade Implementation Plan	in the AER	Attach Assess		Rehabilitation Implementation Plan as separate ments			
2.13	In the AER provide Summary o	of Proposed Wor	ks or Direction	n to be taken to impr	ove hydraulic efficiency			

	Section 3.1 Environmental Risk Assessment							
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken			
3.1	What Environmental or Discharge Quality Data is available with regard to the sewer network?	largely anecdotal	20		Select N/A if no discharges, secondary discharges or overflows from network; if discharges do exist complete Query 3.12			
3.1.1	Do trade effluents discharge to the sewer network?	No	0		If the answer is No , proceed to Query 3.1.2. If the answer is Yes , Proceed to Query 3.2			
3.1.2	Are there Storm Water Overflows within the network?	No	0		If the answer is No , proceed to Query 3.1.3. If the answer is Yes , Proceed to Query 3.3			
3.1.3	Are there Secondary Discharges within the network (excluding Emergency Overflows at Pump Stations)?	No	0		If the answer is No , proceed to Query 3.1.4.			
3.1.4	Is there any evidence that exfiltration is occurring from the network ?	Unknown	20		If the answer is No , does all wastewater enter a wastewater treatment plant (insert summary details in the AER)? If Yes , Proceed to Query 3.6			
3.2	If Answer to Query 3.1.1 is "Yes", what % of trade effluents have a licence to Discharge to the Public Sewer ?	N/A	0		Select N/A if answer to Query 3.1.1 is No. If not all trade effleunts are licenced, Local Authority should consider issuing and controlling such discharges under the appropriate Legislation.			
3.2.1	Are all licenced trade Discharges compliant with their relevant licence and associated conditions	N/A	0		Answer N/A if none of the trade effluents are licenced. Answer No if this information is unknown. If the answer is Unknown or No , consider issuing a direction to the relevant Licencee. If the answer is Yes , no further action is needed.			
3.2.2	If Answer to Query 3.2.1 is "No", state what % of Trade Discharges are NOT compliant with their relevant licence and associated conditions (where that non-compliance led to enforcement action)	N/A	0		Select N/A if answer to Query 3.2.1 is Yes. If N/A is selected as answer to Query 3.2.2			
3.3	In accordance with the DoEHLG paper "Procedures & Criteria in relation to Storm Water Overflows", what % of storm water overflows in the system have been classified for their significance?	N/A	0		If the answer is No , consider a review of each discharge within the sewer network complete and Query 3.11. If the answer is Yes , proceed to Query 3.6			
3.4	Have samples from any Secondary Discharges within the system been analysed ?	No	30		Select N/A if no secondary discharges in system. If the answer to Query 3.4 is No, consider examining the quality of each secondary discharge within the sewer network complete Query 3.11. If the answer is Yes, proceed to Query			
3.5	What percentage of discharges from the system are known to cause environmental pollution of the receiving waters ?	N/A	0		If the answer is greater than 50% then detail, in the AER, the Improvement Programme necessary to reduce this percentage.			
3.6	In relation to possible exfiltration has a risk analysis of ground water contamination or pollution been undertaken?	N/A	0		answer is No , consider undertaking ground water risk analysis and complete Query 3.12			
3.6.1	If Answer to Query 3.6 is "Yes", have any groundwater aguifers been identified in the area of the Network and/or Discharge Points?	N/A	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.			
3.6.2	If Answer to Query 3.6.1 is "Yes", state the classification of groundwater aquifer identified in the area?	N/A	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.			
3.6.3	In relation to Query 3.6.1, is the aquifer used as a source for Public, Private or Group Water Supply Schemes?	N/A	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.			
3.7	Has an Impact Assessment of each Storm Water Overflow been undertaken in accordance with the DoEHLG paper "Procedures & Criteria in relation to Storm Water Overflows" including setting performance criteria?	No	40	SWO measurement/re corder to be installed to measure flows, record frequency of overflow	If the answer is No , consider assessing the risk category of the receiving waters. If the answer is Yes , proceed to Query 3.8 and provide summary details of the assessment in the AER.			
3.8	What percentage of storm water overflows comply with the performance criteria referred to in Query 3.7?	N/A	0		Select N/A if answer to Query 3.7 is No or if there are no SWOs in system. (Risk Score is locked at 0 if no SWOs in system is stated in Agglomeration Details)			
3.9	Have the causes of these Capacity Deficiencies (storm water overflows & Secondary Discharges) been identified?	No	15		no SWOs in system. If the answer to Query 3.9 is No, consider further examination of the environmental			
3.10	Prepare Assessment of Needs & Sewer Upgrade Implementation Plan	In the AER Attach Assessment	125 t of Needs and	Rehabilitation Im	plementation Plan as separate documents			

Provide Summary Details (in the AER) of records upstream and downstream of licenced discharges with regard to Environmental Performance of the network. These details can be included as part of the AER submitted for the agglomeration.

3.11

Has a CCTV Survey been undertaken in accordance with WRc Documentation "Model Contract Document for Sewer Condition Inspections" and "Manual of Sewer Condition Classification"? 4.1.1 How many years has it been since the completion of the CCTV Survey? 4.2 What was this CCTV Survey Information Used for? What was this CCTV Survey been used to Assess the Structural Condition of the Sewer Network? Authority If the answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the Answer is No Undertaking an assess the If the I	
4.1 with WRc Documentation "Model Contract Document for Sewer Condition Inspections" and "Manual of Sewer Condition Classification"? 4.1.1 How many years has it been since the completion of the CCTV Survey? 4.2 What was this CCTV Survey Information Used for? 4.3 What was this CCTV Survey been used to Assess the Structural Condition of the Sewer Network? 4.3 Structural Condition of the Sewer Network? 4.4 Idea of the Sewer Network of Structural Condition of the Sewer Network? 4.5 What was this CCTV Survey been used to Assess the Structural Condition of the Sewer Network? 4.6 If the answer is No Queries 4.4.1 to 4.4 Idea of the Sewer Medium or long form structural No.	or Action to be Taken
4.2 What was this CCTV Survey Information Used for? N/A 10 Select N/A if a If no CCTV has been If no CCTV has been If the answer is No Structural Condition of the Sewer Network or targeted sections of the Sewer Network? Have Performance Criteria been developed to Additional of the Sewer Structural Condition of the Sewer Network or the lift the answer is No. Queries 4.4.1 to 4.4.	assess the need and benefit of aking CCTV Survey. Proceed to Query 4.2
Has the CCTV Survey been used to Assess the 4.3 Structural Condition of the Sewer Network or targeted sections of the Sewer Network? No 5 undertaking an assess the lift the answer is No the Sewer Network? Have Performance Criteria been developed to Queries 4.4.1 to 4.4.	undertaken, select "N/A" response
Has the CCTV Survey been used to Assess the 4.3 Structural Condition of the Sewer Network or targeted sections of the Sewer Network? No 5 undertaking an assess the lift the answer is No lift the answer is No Queries 4.4.1 to 4.4.	answer to Query 4.1 is NO.
Have Performance Criteria been developed to. Queries 4.4.1 to 4.4.	undertaken, select "No" response. assess the need and benefit of sment of the Structural Condition of Sewer Network. ver is Yes proceed to Q
Needs o	, enter "unknown" in response to .5; consider assessing the Future if the Sewer Network. s Yes proceed to Queries 4
4.4.1 What % of the Total Sewer Length contains Collapsed of Imminent Collapse of Sewers (Grade 5) unknown 30 length contains a Grad length of that sewer in	Overall Network Length; if a sewer de 5 collapse, include the total calcuating the %. If information is known" into Prompt Box
4.4.2 What % of Total Sewer Length contains Sewers Likely to Collapse (Grade 4) unknown 25 length contains a Grac length of that sewer in	Overall Network Length; If a sewer de 4 condition, include the total calcuating the %. If information is known" into Prompt Box
4.4.3 What % of Total Sewer Length Contains Sewers with unknown 10 length contains a Grac length of that sewer in	Overall Network Length; If a sewer de 3 deterioration, include the total calcuating the %. If information is known" into Prompt Box
4.4.4 What % of Total Sewer Length contains sewers with unknown I length contains a Grac length of that sewer in not available type "Uni	Overall Network Length; if a sewer de 2 feature, include the total calcuating the %. If information is known" into Prompt Box
	Overall Network Length. If lable type "Unknown" into Prompt
If all % lengths are known, Check Total Length = 100% 75 set level, the RAS for	s 4.4.1, 4.4.2 or 4.4.3 are above a Query 4 is automitically set at the aximum of 140.
4.5 What % of the deficiencies, as detailed in Items 4.4.1, 4.4.2 and 4.4.3, have been rectified? N/A 35 If the answer is Ye ensure continued as Proc	to Query 4.4 is No . If the answer is coceed to Query 4.6 s , what monitoring is in place to eceptance of structural condition? seed to Query 4.7
Have the causes of the Structural Deficiencies (Grades 3.4 and 5) hope identified or it there a	consider further examination of the le structural loading conditions, le H ₂ S Formation. If Yes completed Query 4.7

47	Prepare Assessment of Needs & Sewer Rehabilitation	
4.7	Implementation Plan	

	Section 5.1 O&M Risk Assessment								
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken				
5.1	Are complaints of an environmental nature recorded and held in a central database?	Yes	0		Consider setting up Central Database for Complaints				
5.2	Is there an emergency response procedure in place?	No	20		Consider setting up target response times for dealing with Complaints				
5.3	What has been the highest frequency of flooding in the network due to hydraulic inadequacy, over the past 5 years?	None	0		Refers to flooding from the Network only, not natural flooding from rivers/streams/high tides. Select the highest number of events in any 12 month period.				
5.4	What has been the highest frequency of flooding in the network due to operational causes over the past 5 years?	None	0		Refers to flooding from the Network only, not natural flooding from rivers/streams/high tides. Select the highest number of events in any 12 month period.				
5.5	What has been the highest frequency of surcharging of critical sewers in the network, over the past 5 years?	None	0		Select the highest number of events in any 12 month period.				
5.6	What has been the highest frequency of reportable incidents in the network, over the past 5 years?	None	0		Select the highest number of events in any 12 month period.				
5.7	What has been the highest frequency of reportable incidents due to discharges, for whatever reason, from Pumping Station Emergency Overflows in the network, over the past 5 years?	None	0		Select the highest number of events at any given Pumping Station in any 12 month period.				
5.8	What has been the highest frequency of blockages in sewers in the network over the past 5 years?	unknown	20		Select the highest number of events per km of sewer network in any 12 month period.				
5.9	What has been the highest frequency of collapses in sewers in the network over the past 5 years?	None	0		Select the highest number of events in any 12 month period.				
5.10	What has been the highest frequency of bursts in rising mains in the network over the past 5 years?	None	0	_	Select the highest number of events in any 12 month period.				
	Total Risk Asse	essment Score (RAS)	40						
5.11	Prepare Up Dated Operational and Maintenance Plan								

Section 6.1 Summary of Risk Assessment Scores Risk **Maximum Risk** Element Assessment **Risk Category** % Risk Score Score Score Section 2.1 Hydraulic Risk Assessment High Risk Section 3.1 Environmental Risk Assessment Section 4.1 Structural Risk Assessment Section 5.1 O&M Risk Assessment Low Risk High Risk Low Risk 500 150 High Risk **Total RAS for Network**

If the total RAS is greater than 750, or if any of the individual RASs are greater than 75% of the Maximum Available Score, the Risk category for the Network is graded "High Risk"