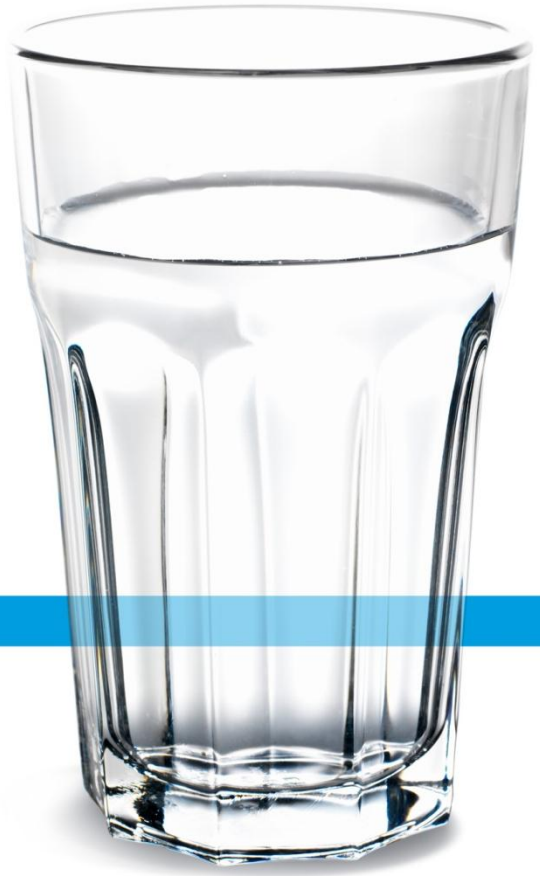
Annual Environmental Report 2014

Agglomeration Name:	**Donegal Town**
Licence Register No.	**D0135-01**



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Section 1. Executive Summary and Introduction to the 2014 AER

1.1 Summary report on 2014

This Annual Environmental Report has been prepared for D0135-01, Donegal Town and Environs, in County Donegal in accordance with the requirements of the wastewater discharge licence for the agglomeration.

Donegal town is located on the Eske river as it enters into the Atlantic Ocean. The main feature of the town is its market square known as the Diamond. The main industry in the town is the hospitality trade hence the effluent from the agglomeration is domestic in nature. The town was previously known for its textile manufacturing, including dyeing but the dye works have closed. A newly constructed plant located outside the town at Drumkeeghan approximately 3.5 kilometres from the town treats the effluent to a very high standard. The plant is run under a DBO contract by Veolia Ltd on behalf of Irish Water/Donegal County Council. The site includes a sludge hub for other treatment plants including those run by Veolia and involves a sludge drier. The dried sludge is used as fertiliser on farmland within the County. The plant was commissioned in June 2008.

Specified assessments are included as an appendix to the AER as follows:

- Priority substances screening

The agglomeration is served by a wastewater treatment plant with a Design PE of 12,000. The treatment process includes the following:-

- preliminary treatment (including screening / grit removal)
- primary treatment
- secondary treatment -. conventional activated sludge

The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2014.

82,000 kgs sludge (as kgs dry solids) were removed from the wastewater treatment plant in 2014 as dried sludge pellets. The total removed was 159,000kgs including the imported sludge from other plants. A total of 20,170kgs was removed as grit and screenings to landfill in Co Monaghan under licence W0020-02. Dried sludge was transferred to local land spreading.

There were no major capital or operational changes undertaken in 2014.

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

	BOD (mg/l)	COD (mg/l)	SS (mg/l)	TP (mg/l)	TN (mg/l)	Hydraulic Loading (m3/d)	Organic Loading (PE/day)
Number of Samples	12	12	12	12	12		
Annual Max.	165.5	551	408	3.83	25.7	4494	8283
Annual Mean	80.1	291	216	1.33	14.4	2809	7100

Significance of results
The annual mean hydraulic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.

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

The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

2.2 Discharges from the agglomeration

Table 2.2 - Effluent Monitoring Summary

	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	pH	Temp C	Toxicity TU	NH3 as N (mg/l)	Comment
WWDL ELV (Schedule A)	25	125	35	6<*x*<9	25	5	5	
ELV with Condition 2 Interpretation included	50	250	87.5	-	-	6	6	
Number of sample results	12	12	12	12	12	None taken		
Number of sample results above WWDL ELV	0	0	0	0	0	0	0	
Number of sample results above ELV with Condition 2 Interpretation included	0	0	0	0	0	0	0	
Annual Mean (for parameters where a mean ELV applies)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Overall Compliance (Pass/Fail)	Pass	Pass	Pass	Pass	Pass	None taken	Pass	

Significance of results

The WWTP was compliant with the ELVs set in the wastewater discharge licence. The impact on receiving waters is assessed further in Section 2.3.

2.3 Ambient monitoring summary

Table 2.3 - Ambient Monitoring Report Summary

Ambient Monitoring Point from WWDL (or as agreed with EPA)	***Irish Grid Reference***	**EPA Feature Coding Tool code**	**Current EQS Status**	**Does assessment of the ambient monitoring results indicate that the discharge is impacting on water quality?**
Upstream monitoring point (SW1)	192082 377920	TW06007042ESI007	good	No Impact
Downstream monitoring point (SW1)	191993 377867	TW06007042ES1008	good	No Impact
Murvagh Beach	372975 189312	BPBLF06000130001	good	No Impact

The results for the upstream and downstream monitoring are included as in Appendix 7.2.

Significance of results

The WWTP was compliant with the ELVs set in the wastewater discharge licence as detailed in Section 2.2.

The discharge from the wastewater treatment plant doesn't have an observable impact on the water quality status.

2.4 Data collection and reporting requirements under the Urban Waste Water Treatment Directive

The electronic submission of data was completed on: 16/02/2015.

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

The PRTR data is included in Appendix 7.3.

Section 3 Operational Reports Summary

3.1 Treatment Efficiency Report

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:-

Table 3.1 - Treatment Efficiency Report Summary

	cBOD (kg/yr)	COD (kg/yr)	SS (kg/yr)	Total P (kg/yr)	Total N (kg/yr)	Comment
Influent mass loading (kg/year)	82,023	298,358	222,487	1,333	14,354	
Effluent mass emission (kg/year)	1,900	38,217	10,564	258	11,760	Figures taken from PRTR
% Efficiency (% reduction of influent load)	**97%**	**87%**	**95%**	**80%**	**8%**	

3.2 Treatment Capacity Report

Table 3.2 - Treatment Capacity Report Summary

Hydraulic Capacity – Design / As Constructed (dry weather flow) (m3/year)	1,095,000
Hydraulic Capacity – Design / As Constructed (peak flow) (m3/year)	3,285,000
Hydraulic Capacity – Current loading (m3/year)	1,010,160
Hydraulic Capacity – Remaining (m3/year)	2,274,840
Organic Capacity - Design / As Constructed (PE)	12,000
Organic Capacity - Current loading (PE)	7,100
Organic Capacity – Remaining (PE)	4,900
Will the capacity be exceeded in the next three years? (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 treated 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
Load generated in the agglomeration that is collected in the sewer network	100%
Load collected in the agglomeration that enters treatment plant	100%
Load collected in the sewer network but discharged without treatment	0%

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**.**

The data in Table 3.3 above is based on influent monitoring as detailed in Section 2.1 above.

3.4 Complaints Summary

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

Table 3.4 - Complaints Summary Table:

Number	Date & Time	Nature of Complaint	Cause of Complaint	Actions taken to resolve issue	Closed (Y/N)
1	17/04/2014	Foul odour	unknown	Complaint originated 500m from WWTW. Issue not directly linked to WWTW.	Yes (however no conclusions on what the source of the complaint was).

3.5 Reported Incidents Summary

A summary of reported incidents is included below.

Table 3.5.1 - Summary of Incidents

Incident Type (e.g. Non-compliance, Emission, spillage, Emergency Overflow Activation)	Incident Description	Cause	No. of incidents	Corrective Action	Authorities Contacted Note 1	Reported to EPA (Yes/No)	Closed (Y/N)
0	No incidents						

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 2014	0
Number of Incidents reported to the EPA via EDEN in 2014	0
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**	**PE/year**	**% of load to WWTP**	**Is there a leachate/sludge acceptance procedure for the WWTP? (Y/N)**	**Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)**
Domestic /Septic Tank Sludge	0				
Industrial / Commercial Sludge	0				
Landfill Leachate (delivered by tanker)	0				
Landfill Leachate (delivered by sewer network)	0				
Other (specify)	0				

Notes:

1. Other Inputs include; septic tank sludge, industrial /commercial sludge, landfill leachate and any other sludge that is collected and added to the treatment plant.
2. Sludge that is added to a dedicated sludge reception facility at a waste water treatment plant not included in Table 3.6. Only include sludge which is added to the waste water treatment process stream. Enter zero where there are no inputs

Section 4. Infrastructural Assessments and Programme of Improvements

4.1 Storm water overflow identification and inspection report

The Storm Water Overflow Identification and Inspection Report has not yet been completed.

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 / Medium / Low)	Compliance with DoEHLG Criteria	No. of times activated in 2014 (No. of events)	Total volume discharged in 2014 (m3)	Total volume discharged in 2014 (P.E.)	Estimated /Measured data
SW2	192560E 378082N	Yes	Low	Not yet assessed	Unknown	Unknown	Unknown	E
SW3	192032E 377897N	Yes	Low	Not yet assessed	Unknown	Unknown	Unknown	E

Table 4.1.2 - SWO Identification and Inspection Summary Report

How much sewage was discharged via SWOs in the agglomeration in the year (m3/yr)?	Unknown
How much sewage was discharged via SWOs in the agglomeration in the year (p.e.)?	Unknown
What % of the total volume of sewage generated in the agglomeration was discharged via SWOs in the agglomeration in 2014?	Unknown
Is each SWO identified as non-compliant with DoEHLG Guidance included in the Programme of Improvements?	Not yet assessed
The SWO assessment includes the requirements of Schedule A3 & C3	Not yet assessed
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	No changes

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

There are no further improvements required for this agglomeration. There are no proposed changes to the system other than the connection of a collection network from neighbouring Mountcharles.

Table 4.2.1 - Specified Improvement Programme Summary

Specified Improvement Programmes (under Schedule A and C of WWDL)	Licence Schedule (A or C)	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works ((i) Not Started; (ii) At planning stage; (iii) Work ongoing on-site; (iv) Commissioning Phase; (v) Completed; (vi) Delayed;)	% Construction Work Completed	Timeframe for Completing the Work	Comments
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

There no improvements for 2014 identified under condition 5.2.

Improvements identified above also include measures taken to prevent environmental damage anticipated following events or accidents/incidents associated with discharges or overflows from the waste water works and as such are considered to fulfil any Statement of Measures requirements. Refer also to Appendix 7.1 which summarises the Annual Statement of Measures.

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*	*Comment*
Hydraulic Risk Assessment Score	*Low*	*43*	
Environmental Risk Assessment Score	*Low*	*135*	
Structural Risk Assessment Score	*Low*	*29*	
Operation & Maintenance Risk Assessment Score	*Low*	*4*	
Overall Risk Score for the agglomeration	*Low*	*211*	

Section 5. Licence Specific Reports

Licence Specific Reports Summary Table

Licence Specific Report	Required in 2014 AER or outstanding from previous AER	Included in 2014 AER	*Reference to relevant section of AER (e.g. Appendix 2 Section4.*
Priority Substances Assessment	Yes	Yes	Screening Results in Appendix 7.7.
Drinking Water Abstraction Point Risk Assessment	N/A	N/A	
Habitats Impact Assessment	Yes	No	Not yet complete
Shellfish Impact Assessment	Yes	No	Detailed desk based assessment to be provided in late August to mid September 2015. See appendix 7.8.
Pearl Mussel Report	N/A	N/A	
Toxicity/Leachate Management	N/A	N/A	
Toxicity of Final Effluent Report	N/A	N/A	

Licence Specific Reports Summary of Findings

Licence Specific Report	Recommendations in Report	Summary of Recommendations in Report
Priority Substances Assessment	No	
Drinking Water Abstraction Point Risk Assessment	N/A	
Habitats Impact Assessment	Not yet complete	
Shellfish Impact Assessment	Not yet complete	Detailed desk based assessment to be provided in late August to mid September 2015.
Pearl Mussel Report	N/A	
Toxicity/Leachate Management	N/A	
Toxicity of Final Effluent Report	N/A	

5.1 Priority Substances Assessment

The Priority Substances Assessment report is included in Appendix 7.7. A summary of the findings of this report is included below.

Table 5.1 - Priority Substance Assessment Summary

	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	Screening Analysis
Does the assessment include a review of Trade inputs to the works?	No
Does the assessment include a review of other inputs to the works?	No
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)	No
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

5.2 Drinking Water Abstraction Point Risk Assessment.

N/A

5.3 Shellfish Impact Assessment Report.

Detailed desk based assessment to be provided in late August to mid September 2015.

5.4 Toxicity / Leachate Management

N/A

5.5 Toxicity of the Final Effluent Report

N/A

5.6 Pearl Mussel Measures Report

N/A

5.7 Habitats Impact Assessment Report

Not yet complete.

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 (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a technical amendment / review of the licence?	No
List reason e.g. additional SWO identified *(insert lines as required)*	N/A
Is there a need to request/advise the EPA of any modifications to the existing WWDL? Refer to Condition 1.7 (changes to works/discharges) & Condition 4 (changes to monitoring location, frequency etc.)	No
List reason e.g. failure to complete specified works within dates specified in the licence, changes to monitoring requirements *(insert lines as required)*	N/A
Have these processes commenced? (i.e. Request for Technical Amendment / Licence Review / Change Request)	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER?	No
List outstanding reports *(insert lines as required)*	Habitat report, Shellfish Impact Assessment, Storm Water Overflow assessment

Declaration by Irish Water

The AER contains the following;

- Introduction and background to 2014 AER
- Monitoring reports summary.
- Operational reports summary.
- Infrastructural Assessment and Programme of Improvements.
- Licence specific reports.
- Certification and Sign Off
- Appendices

I certify that to the best of my knowledge the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed:  Date: 13/08/2015

Gerry Galvin
Chief Technical Advisor

Section 7. Appendix

Appendix 7.1 - Annual Statement of Measures
Appendix 7.2 - Ambient monitoring summary
Appendix 7.3 - Pollutant Release and Transfer Register (PRTR) Summary Sheets
Appendix 7.6 – Sewer integrity tool output
Appendix 7.7 - Priority substances assessment
Appendix 7.8 – Shellfish impact assessment letter

The construction of the proposed link to the Mountcharles system is the only project planned for this scheme. This project when complete will enable both discharges as listed in D0522-01 to be decommissioned. The only list improvement in the licence for this agglomeration was completed a number of years ago (cease secondary discharge from a housing scheme package plant).

Appendix 7.2 - Ambient monitoring summary (SEA)

Location	Lab. Ref	Date	pH	DO	BOD	Ammonia (as N)	DIN	MRP	Total N	Chlorophyll	Visual Inspection
					(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	
Uptream SW 1	142505376	26/09/2014	8.12	7.79	<1	0.022	0.103	<0.010	<0.5	2.14	Nothing observed
Uptream SW 1	142506048	14/10/2014	8.2	8.92	<1	0.018	0.09	<0.010	<0.5	<1	Nothing observed
Uptream SW 1	142506052	12/11/2014	7.99	8.73	<1	0.035	0.196	0.013	0.661	<1	Nothing observed
Uptream SW 1	142506068	12/12/2014	8.02	10.94	<1	0.02	0.209	<0.010	1.52	<1	Nothing observed
Downstream SW 1	142505377	26/09/2014	8.15	7.86	<1	0.027	0.138	<0.010	<0.5	<1.00	Nothing observed
Downstream SW 1	142506049	14/10/2014	8.25	9.16	<1	0.016	0.087	<0.010	0.55	<1	Nothing observed
Downstream SW 1	142506053	12/11/2014	7.97	9.03	<1	0.023	0.164	0.01	0.662	<1	Nothing observed
Downstream SW 1	142506069	12/12/2014	8.06	10.82	<1	0.023	0.226	<0.010	2.29	<1	Nothing observed

Appendix 7.2 - Ambient monitoring summary (Beach)

Location	Lab Ref	Date	Time Sampled	Escherichia Coli	Intestinal Enterococci	Visual Inspection
Murvagh Beach						
Murvagh Beach	142502789	27/05/2014	13:30	<1	<1	Nothing observed
Murvagh Beach	142502956	10/06/2014	15:20	8	6	Nothing Observed
Murvagh Beach	142503214	25/06/2014	14:30	<1	<1	Nothing Observed
Murvagh Beach	142503345	02/07/2014	10:00	<1	19	Nothing Observed
Murvagh Beach	142503502	09/07/2014	15:45	10	<1	Nothing Observed
Murvagh Beach	142503661	22/07/2014	15:00	<1	<1	Nothing Observed
Murvagh Beach	142503782	31/07/2014	09:40	<1	1	Nothing Observed
Murvagh Beach	142503942	12/08/2014	11:00	14	136	Nothing Observed

Appendix 7.3 - Pollutant Release and Transfer Register (PRTR) Summary Sheets

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014

1. FACILITY IDENTIFICATION

Parent Company Name	Irish Water
Facility Name	Donegal Town Waste Water Treatment Plant
PRTR Identification Number	D0135
Licence Number	D0135-01

Classes of Activity

No.	**class_name**
-	Refer to PRTR class activities below

Address 1	
Address 2	
Address 3	
Address 4	
	Donegal
Country	Ireland
Coordinates of Location	-8.15647 54.6561
River Basin District	GBNIIENW
NACE Code	3700
Main Economic Activity	Sewerage
AER Returns Contact Name	Paul Lyons
AER Returns Contact Email Address	paul.lyons@donegalcoco.ie
AER Returns Contact Position	SEE
AER Returns Contact Telephone Number	0749724437
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	**Activity Name**
5(f)	Urban waste-water treatment plants

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : D0135 | Facility Name : Donegal Town Waste Water Treatment Plant | Filename : D0135_2014.xls | Return Year : 2014 | 11/08/2015 15:55

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
02	Carbon monoxide (CO)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
03	Carbon dioxide (CO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	224674.0	0.0	224674.0
05	Nitrous oxide (N2O)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	1.0	0.0	1.0
07	Non-methane volatile organic compounds (NMVOC)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Donegal Town Waste Water Treatment Plant

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this onl

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
34	1,2-dichloroethane (EDC)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
25	Alachlor	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
26	Aldrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
61	Anthracene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0
17	Arsenic and compounds (as As)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.572	0.592	0.0	0.02
27	Atrazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.011	0.011	0.0	0.0
62	Benzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.017	0.02	0.0	0.003
91	Benzo(g,h,i)perylene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
63	Brominated diphenylethers (PBDE)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.269	0.273	0.0	0.004
28	Chlordane	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
29	Chlordecone	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
30	Chlorfenvinphos	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
79	Chlorides (as Cl)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	886920.48	902308.915	0.0	15388.435
31	Chloro-alkanes, C10-C13	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.212	0.215	0.0	0.003
32	Chlorpyrifos	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
19	Chromium and compounds (as Cr)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.808	0.81	0.0	0.002
20	Copper and compounds (as Cu)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	3.03	3.116	0.0	0.086
82	Cyanides (as total CN)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	2.962	3.004	0.0	0.042
33	DDT	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
70	Di-(2-ethyl hexyl) phthalate (DEHP)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.927	0.972	0.0	0.045
35	Dichloromethane (DCM)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.046	0.048	0.0	0.002
36	Dieldrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
37	Diuron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.027	0.027	0.0	0.0
38	Endosulphan	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
39	Endrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
65	Ethyl benzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.017	0.019	0.0	0.002
88	Fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
83	Fluorides (as total F)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	237.388	242.393	0.0	5.005
40	Halogenated organic compounds (as AOX)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	2.411	2.447	0.0	0.036
41	Heptachlor	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
90	Hexabromobiphenyl	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
42	Hexachlorobenzene (HCB)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
43	Hexachlorobutadiene (HCBD)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
89	Isodrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
67	Isoproturon	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.008	0.008	0.0	0.0
23	Lead and compounds (as Pb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	3.07	3.234	0.0	0.164
45	Lindane	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.002	0.0	0.002
46	Mirex	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
68	Naphthalene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.004	0.006	0.0	0.002
22	Nickel and compounds (as Ni)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	4.301	4.356	0.0	0.055
64	Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.084	0.101	0.0	0.017
87	Octylphenols and Octylphenol ethoxylates	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
69	Organotin compounds (as total Sn)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
48	Pentachlorobenzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
49	Pentachlorophenol (PCP)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
71	Phenols (as total C)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.919	2.145	0.0	1.226
50	Polychlorinated biphenyls (PCBs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
72	Polycyclic aromatic hydrocarbons (PAHs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.011	0.014	0.0	0.003
51	Simazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.014	0.014	0.0	0.0
52	Tetrachloroethylene (PER)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.06	0.06	0.0	0.0
53	Tetrachloromethane (TCM)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
73	Toluene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.498	0.709	0.0	0.211
12	Total nitrogen	M	OTH	FIA	11760.283	11979.174	0.0	218.891
76	Total organic carbon (TOC) (as total C or COD/3)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	9313.446	9512.151	0.0	198.705
13	Total phosphorus	M	OTH	FIA	257.591	277.807	0.0	20.216
59	Toxaphene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
74	Tributyltin and compounds	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
54	Trichlorobenzenes (TCBs)(all isomers)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
57	Trichloroethylene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
77	Trifluralin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
75	Triphenyltin and compounds	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
60	Vinyl chloride	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
78	Xylenes	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.117	0.141	0.0	0.024
24	Zinc and compounds (as Zn)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	49.865	51.714	0.0	1.849

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
370	Selenium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.01	0.0	0.01
205	Antimony (as Sb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.156	0.163	0.0	0.007

368	Molybdenum	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.021	0.0	0.021
358	Tin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.146	0.146	0.0	0.0
373	Barium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	13.379	13.919	0.0	0.54
374	Boron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	61.732	66.666	0.0	4.934
356	Cobalt	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.178	0.183	0.0	0.005
386	Vanadium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	2.755	2.834	0.0	0.079
388	Dichlobenil	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.004	0.004	0.0	0.0
383	Linuron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
385	Mecoprop Total	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.108	0.11	0.0	0.002
380	2,4 Dichlorophenol (2,4 D)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.052	0.053	0.0	0.001
384	MCPA	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.09	0.09	0.0	0.0
382	Glyphosate	E	ESTIMATE	EPA UWWTP Tool Version 5.0	1.548	1.554	0.0	0.006
389	Benzo[a]pyrene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
390	Benzo[b]fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
391	Benzo[k]fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
392	Indeno[1,2,3-c,d]pyrene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
393	Carbon tetrachloride	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
394	2,6-Dichlorobenzamide	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.081	0.082	0.0	0.001
395	Dicofol	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
396	Hexabromocyclodecane (HBCD)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
397	PFOS	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
238	Ammonia (as N)	M	OTH	FIA	781.864	940.925	0.0	159.061
303	BOD	M	OTH	Standard Methods	1900.111	3115.408	0.0	1215.297
306	COD	M	OTH	HACH	38217.383	42634.481	0.0	4417.098
362	Kjeldahl Nitrogen	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
327	Nitrate (as N)	M	OTH	FIA	3405.249	3407.615	0.0	2.366
372	Nitrite (as N)	M	OTH	FIA	90.914	91.157	0.0	0.243
332	Ortho-phosphate (as PO4)	M	OTH	FIA	46.467	55.339	0.0	8.872
240	Suspended Solids	M	OTH	Gravimetric	10564.253	13854.062	0.0	3289.809

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
			Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
			Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 08 01	No	20.17	screenings	D5	M	Weighed	Offsite in Ireland	Monaghan County Council Landfill,W0020-02	Scotch Corner,.,Co. Monaghan,.,Ireland		
Within the Country	19 08 05	No	82.0	sludges from treatment of urban waste water	R10	M	Weighed	Offsite in Ireland	SEDE Ireland,Unknown	Suite 3,Unit 26 IDA Industrial Estate,Purcellsinch,Co. Kilkenny,Ireland		

Appendix 7.6 – Sewer integrity tool output

Section 6.1 Summary of Risk Assessment Scores			
Element	Risk Assessment Score	Risk Category	% Risk Score
Section 2.1 Hydraulic Risk Assessment	96	Medium Risk	64%
Section 3.1 Environmental Risk Assessment	360	Medium Risk	72%
Section 4.1 Structural Risk Assessment	96.04583333	Medium Risk	64%
Section 5.1 O&M Risk Assessment	8	Low Risk	4%
Total RAS for Network	560.0458333	High Risk	56%

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"

Appendix 7.7 - Priority substances assessment

Location			Donegal WWTP-Outlet
Lab.Ref			142505472
Date			10/11/2014
Metals Tested		LOQ	Result
Chromium-Total	ug/L	3	<3
Copper-Total	mg/L	0.003	0.008
Lead-Total	ug/L	0.9	<0.9
Zinc-Total	ug/L	10	40
Mercury-Total	ug/L	0.06	2.91
Nickel-Total	ug/L	1.5	2.2
Arsenic-Total	ug/L	1	1.3
Barium-Total	ug/L	3	18.6

Mr. Brendan Kissane
Office of Environmental Enforcement,
EPA Headquarters
P.O. Box 3000,
Johnstown Castle Estate,
Wexford

NW 30/06/2015_03 _Donegal

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RE: Shellfish Waters Regulations S.I. No. 268/2006
Donegal (D0135-01) – CI 000798

Dear Mr. Kissane,

Irish Water have a large number of EPA enforcement actions (>35) requiring the preparation of Shellfish Water Impact Assessments pursuant to conditions of discharge licenses and certificates, many of which have been outstanding for a number of years. As a first step, in the delivery of these assessments Irish Water are undertaking desktop studies for all outstanding assessments. Irish Water had given a commitment to the delivery of desk top studies for all licensed sites by the 30th of June 2015.

Irish Water can confirm that these desk studies are underway, and the EPA will begin to receive these desk studies the week beginning Monday 29th of June 2015, however due to delays in the procurement process, limited resources to undertake these studies at this time and the significant effort in review and standardisation of these assessments there will be a delay in submitting some of these reports. Irish Water are also currently seeking further advice and clarification on some of these desk studies with the Sea Fisheries Protection Agency and the Marine Institute.

Irish Water have met with and have been in on-going consultation with the Food Safety Authority of Ireland, the Marine Institute and the Sea Fisheries Protection Agency with respect to the requirements of the shellfish waters regulations, shellfish impact assessments, prioritisation of designated shellfish areas for detailed investigation and virus monitoring requirements. Irish Water is also now a member of the Molluscan Shellfish Safety Committee and attended the first meeting on the 9th of June 2015.

Update on consultation so far

- Bord Iascaigh Mhara have informed Irish Water that the Department of the Environment, Community and Local Government intends to begin drafting new Shellfish Water Regulations within the next 6 weeks.
- The EFSA (European Food Safety Authority) and CEFAS the Micro Community Reference Laboratory are co-ordinating an EU wide survey of noro-virus in oysters with monitoring expected to kick off in Autumn 2015 lasting 18 months (The Marine Institute informed Irish Water that this may be delayed).
- The Sea Fisheries Protection Agency have provided Irish Water with a list of Food Safety Incidents over the last 5 years to check on production areas that Norovirus contaminated oysters originated from. Irish water is also awaiting a prioritised list of sites from the Marine Institute.
- Irish Water have discussed with the Food Safety Authority of Ireland and the Marine Institute the set up of a working group to prioritise areas for detailed investigation and discuss the delivery of these investigations. It is proposed that this meeting could take place in August 2015.

Irish Water would propose that the desk study for the Donegal Town agglomeration will be delivered by late August to mid September.

Yours sincerely,

Louise Dwyer

Wastewater Compliance – Northwest Region
Operational Support Services