

Annual Environmental Report 2014

Agglomeration Name:	Carrickmacross
Licence Register No.	D0062-01



Table of Contents

Section 1. Executive Summary and Introduction to the 2014 AER	1
1.1 Summary report on 2014	1
Section 2. Monitoring Reports Summary	2
2.1 Summary report on monthly influent monitoring	2
2.2 Discharges from the agglomeration	3
2.3 Ambient monitoring summary	5
2.4 Data collection and reporting requirements under the Urban Waste Water Treatment Directive	5
2.5 Pollutant Release and Transfer Register (PRTR) - report for previous year	5
Section 3 Operational Reports Summary	6
3.1 Treatment Efficiency Report	6
3.2 Treatment Capacity Report	6
3.3 Extent of Agglomeration Summary Report	6
3.4 Complaints Summary	7
3.5 Reported Incidents Summary	7
3.6 Sludge / Other inputs to the WWTP	8
Section 4. Infrastructural Assessments and Programme of Improvements	9
4.1 Storm water overflow identification and inspection report	9
4.2 Report on progress made and proposals being developed to meet the improvement programme requirements.	10
Section 5. Licence Specific Reports	13
5.1 Priority Substances Assessment	14
5.2 Drinking Water Abstraction Point Risk Assessment.	14
5.3 Shellfish Impact Assessment Report.	14
5.4 Toxicity / Leachate Management	14
5.5 Toxicity of the Final Effluent Report	14
5.6 Pearl Mussel Measures Report	14
5.7 Habitats Impact Assessment Report	14
Section 6. Certification and Sign Off	15
Section 7. Appendix	16

Section 1. Executive Summary and Introduction to the 2014 AER

1.1 Summary report on 2014

This Annual Environmental Report has been prepared for D0062-01, Carrickmacross, 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:

- Storm water overflow assessment

The agglomeration is served by a wastewater treatment plant with a Design PE of 12,150. The treatment process includes the following:-

- preliminary treatment
- primary treatment
- secondary treatment - conventional activated sludge
- ferric dosing for phosphorus removal
- tertiary treatment – rapid gravity sand filter

The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Value for Ortho-phosphate in 2014.

The following parameters exceeded the emission limit values in 2014:-

- Suspended solids
- Orthophosphate
- Total phosphorus

993 kgs of sludge (total weight sludge at 14%) were removed from the wastewater treatment plant in 2014 as dewatered sludge cake. Sludge was transferred to Ballivor, Co. Meath, where it is mixed with hydrated lime (5% by weight), before being stored in approved facility, prior to being ploughed into agricultural land spread during the open season as defined by the Regulations.

The following improvement works were undertaken during 2014:-

Ferric dosing day tanks were removed and a direct feed was taken from the Ferric tank to the dosing pumps; these pumps (duty/standby), were also replaced as at end of life.

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 (m ³ /d)	Organic Loading (PE/day)
Number of Samples	12	12	12	12	12		
Annual Max.	648	8820	6095	82.7	82.2	10253	20,250
Annual Mean	187.0	943.98	566.14	9.17	31.48	2533	10382

Significance of results

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

2.2 Discharges from the agglomeration

Table 2.2 - Effluent Monitoring Summary

	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Total P (mg/l)	Ortho P (mg/l)	Total N (mg/l)	Comment
WWDL ELV (Schedule A)	10	125	10	n/a	2	1	n/a	
ELV with Condition 2 Interpretation included	No result >100% ELV = 20mg/l	No result >100% ELV = 250mg/l	No result >150% ELV = 25mg/l	N/A	Annual mean shall not exceed ELV, no result shall exceed ELV by >20% = 2.4mg/l	8 out of 10 consec. samples shall not exceed ELV & 2 allowable failures provided under 100% of ELV (2.0mg/l)	N/A	13 samples taken, therefore 2 'allowable' failures
Number of sample results	13	13	13	13	13	13	13	
Number of sample results above WWDL ELV	0	0	1	N/A	1	1	N/A	
Number of sample results above ELV with Condition 2 Interpretation included	0	0	0	0	0	1	N/A	
Annual Mean (for parameters where a mean ELV applies)	N/A	N/A	N/A	N/A	0.67	N/A	N/A	
Overall Compliance (Pass/Fail)	Pass	Pass	Pass	N/A	Pass	FAIL	N/A	

Significance of results

The WWTP was non-compliant with the ELV for Ortho-phosphate set in the wastewater discharge licence. There were 3 samples exceeded the emission limit values in relation to Suspended solids, orthophosphate and total phosphorus. As per schedule B3 of the licence, two allowable exceedances are permitted each year. There were no identifiable causes for the exceedances at the WWTP and the trend prior to and after the exceedances is under the ELVs for all parameters tested. 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	284561E 302882N	RS06P010230	Poor status	n/a
Downstream monitoring point	284719E 302758N	RS06P010280	Poor status	No

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

Significance of results

The WWTP was non-compliant with the ELV for Orthophosphate 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 by MCC on a monthly basis, by the middle of succeeding month, to the EPA via MDS (formerly EDEN) in XML format.

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

The Pollutant Release and Transfer Register (PRTR) Summary Sheets 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)	4780	24137	14476	235	789	
Effluent mass emission (kg/year)	37	579	112	17	283	
% Efficiency (% reduction of influent load)	99.23	97.60	99.23	92.80	64.16	

3.2 Treatment Capacity Report

Table 3.2 - Treatment Capacity Report Summary

Hydraulic Capacity – Design / As Constructed (dry weather flow) (m3/year)	332,637
Hydraulic Capacity – Design / As Constructed (peak flow) (m3/year)	997,910
Hydraulic Capacity – Current loading (m3/year)	921,585
Hydraulic Capacity – Remaining (m3/year)	76,325
Organic Capacity - Design / As Constructed (PE)	12150
Organic Capacity - Current loading (PE)	10380
Organic Capacity – Remaining (PE)	1770
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

There were no complaints of an environmental nature related to the discharge to waters from the Carrickmacross WWTP in 2014.

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 <small>Note 1</small>	Reported to EPA (Yes/No)	Closed (Y/N)
Exceedance	ELV exceedance	Unknown	1	Continue to monitor Ortho P levels	EPA	Yes	Yes
Pollution Incident	Uncontrolled release of sludge to adjoining river	Lightning strike caused an electrical failure on ultrasonic	1	Electrical damage was repaired	EPA, Fisheries, and DS GWS	Yes	Yes

		level control in the sludge return pump sump.					
Pollution Incident	Overflow to adjoining river	Blockage on pumping station during DWF.	1	Txt alert system repaired.	EPA, Fisheries	Yes	Yes

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	3
Number of Incidents reported to the EPA via EDEN in 2014	3
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

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	45	122	1.4	Y	N
Industrial / Commercial Sludge	767	1046	11.6	Y	N
Landfill Leachate (delivered by tanker)	0	0	0	N	N
Landfill Leachate (delivered by sewer network)	0	0	0	N	N
Other (specify)	0	0	0	N	N

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 & Inspection report was submitted as part of the 2nd (2012) AER for Carrickmacross WWTP.

Under schedule C.3 'Improvement Programme for Storm Water Overflows' of the licence, upgrading of Storm Water Overflow, SW2, is required to comply with the criteria outlined in the DoECLG document, 'Procedures and Criteria in relation to Storm Water Overflows, 1995'.

The storm water overflow is from a storm tank (600m³ capacity) at the WWTP. It was not designed to the criteria in the aforementioned DoECLG document, as it was constructed pre 1995. It would overflow to the River Proules during adverse weather conditions, however, there is no monitoring or flow measurement device on the SWO to record such overflows.

An assessment of this SWO in relation to the 'Procedures and criteria in relation to Storm Water Overflows', 1995 document is attached in Appendix 7.4:

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
SW-2	28458 8E, 30286 0N	Yes	Medium	Not Compliant	20	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)?	0m3/yr
How much sewage was discharged via SWOs in the agglomeration in the year (p.e.)?	0m3/yr
What % of the total volume of sewage generated in the agglomeration was discharged via SWOs in the agglomeration in 2014?	0m3/yr
Is each SWO identified as non-compliant with DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO assessment includes the requirements of Schedule A3 & C3	N/A
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	Yes, in previous AER

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

The Improvement Programme was included in the 2nd AER (2012) for Carrickmacross. An update is required on the Improvement Programme for the years between reviews and is provided in Appendix 7.5.

The Improvement Programme report included in Appendix 7.5 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 (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
Advance works at the WWTP, including: - Effluent Outfall pipeline and associated works - Pumping Station (inlet and outlet) - storm tanks and - inlet works:	C.1	1 January 2015	Y	At planning stage	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”
Upgrading of SWO to comply with criteria outlined in DoEHLG ‘procedures and criteria in relation to SWO’s, 1995’	C.3	1 January 2015	Y	Not started	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”

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	Improvement Description	Improvement Source	Progress (% completed)	Expected Completion Date	Comments
Overflows from tank during adverse weather.	Extension/upgrading of aeration tank no. 1.	WWTP assessment (Condition 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”
No standby pump at main inlet Oriel road pump station, no overhead lifting equipment or gantry to lift pump when required.	Provision and installation of standby pump and overhead lifting equipment and gantry at Oriel road inlet pump station.	WWTP assessment (Condition 5.2).	50%	April 2015	
		Sewer Integrity Tool (Condition 5.2)	10%	2015	Data not available for 2014
	N/A	Secondary Discharges Assessment (Condition 5.2)	N/A	N/A	N/A
No record of activation or flow measurement from SWO tank at the WWTP.	Install SWO measurement/recorder device to measure flows/record no. times it activates	SWO assessment (Condition 4 & 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
	None	Drinking Water Abstraction Risk Assessment (Condition 4)			

	N/A	Shellfish Impact Risk Assessment (Condition 5)	N/A	N/A	N/A
	N/A	Pearl Mussel Impact Assessment (Condition 4)	N/A	N/A	N/A
	None	Improved Operational Control	N/A	N/A	N/A
	None	Incident Reduction	N/A	N/A	N/A
	None	Elimination/Reduction of Priority Substances	N/A	N/A	N/A

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	Not calculated	New town collection network with no SWO completed in 2011
Environmental Risk Assessment Score	med	Not calculated	There are some pumping stations that activate an emergency overflow in high rainfall event; Oriel road PS is such a one that is having a second pump added in Q1, 2015
Structural Risk Assessment Score	Low	Not calculated	New town collection network with no SWO completed in 2011
Operation & Maintenance Risk Assessment Score	low	Not calculated	New town collection network with no SWO completed in 2011
Overall Risk Score for the agglomeration	low	Not calculated	New town collection network with no SWO completed in 2011

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 Section 4).
Priority Substances Assessment	No	No	N/A
Drinking Water Abstraction Point Risk Assessment	No	No	N/A
Habitats Impact Assessment	No	No	N/A
Shellfish Impact Assessment	No	No	N/A
Pearl Mussel Report	No	No	N/A
Toxicity/Leachate Management	No	No	N/A
Toxicity of Final Effluent Report	No	No	N/A

Licence Specific Reports Summary of Findings

Licence Specific Report	Recommendations in Report	Summary of Recommendations in Report
Priority Substances Assessment	N/A	N/A
Drinking Water Abstraction Point Risk Assessment	N/A	N/A
Habitats Impact Assessment	N/A	N/A
Shellfish Impact Assessment	N/A	N/A
Pearl Mussel Report	N/A	N/A
Toxicity/Leachate Management	N/A	N/A
Toxicity of Final Effluent Report	N/A	N/A

5.1 Priority Substances Assessment

A priority substance assessment was submitted with the 2012 AER for Carrickmacross.

5.2 Drinking Water Abstraction Point Risk Assessment.

The Drinking Water Abstraction Point Risk Assessment report was included in the 2013 AER for Carrickmacross. A copy of the detailed assessment was included in the 2013 AER.

5.3 Shellfish Impact Assessment Report.

A Shellfish Impact Assessment Report is not required for Carrickmacross.

5.4 Toxicity / Leachate Management

A Toxicity / Leachate Management Assessment report is not required for Carrickmacross.

5.5 Toxicity of the Final Effluent Report

A Toxicity / Leachate Management Assessment report is not required for Carrickmacross.

5.6 Pearl Mussel Measures Report

A sub-basin management plan in relation to Pearl Mussels is not required for Carrickmacross.

5.7 Habitats Impact Assessment Report

A Habitats Impact Assessment Report is not required for Carrickmacross.

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 (<i>insert lines as required</i>)	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 (<i>insert lines as required</i>)	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?	N/A
List outstanding reports (<i>insert lines as required</i>)	N/A

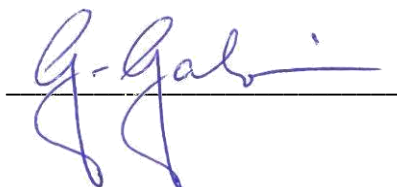
Declaration by Irish Water

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: 16/03/2015

Gerry Galvin
Chief Technical Advisor

Section 7. Appendix

In the appendix include all the detailed or site specific reports that are relevant to the AER. Reports omitted from previous AERs should also be appended here.

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 7.4 - Storm water overflow identification and inspection report

Appendix 7.5 – Specified Improvement Programme

a) Specified Improvement Programme

b) Programme of Improvements

Appendix 7.1 - Annual Statement of Measures

Risk /Description of issue	Risk Score	Mitigation Measure to be taken	Outcome	Action	Date for Completion	Owner/ Contact Person
Shared access by municipal district and WWTP, no site boundaries.		Provision of separate access road to WWTP and fencing.	The council yard has been fenced off.		complete	Municipal district
Overflows from tank during adverse weather.		Extension/upgrading of aeration tank no. 1.	Increase capacity of tank, prevent spillages to River.		Unknown	C McCrossan
No standby pump or overhead lifting equipment or gantry at main inlet Oriel road pump station.		Provision and installation of standby pump and overhead lifting equipment and gantry at Oriel road inlet pump station.	Prevent spillage to river if duty pump fails. Enable pump to be lifted out with ease when required.		April 2015	C McCrossan
No record of activation or flow measurement from SWO tank at the WWTP.		Install SWO measurement/recorder device to measure flows/record no. times it activates	Measure flows and activation of SWO to River.		Unknown	C McCrossan

Appendix 7.2 - Ambient monitoring summary

Upstream monitoring results														
Location	Flow M3/day	Location	Date of Sampling	Sample Type (C or G)	Temp	pH	cBOD mg/l	CO D mg/l	Suspended Solids mg/l	Ortho P mg/l (as P)	Total Phosphorus mg/l (as P)	Ammonia (as N)	Total Nitrogen mg/l (as N)	Dissolved Oxygen (DO) mg/l
Carrickmacross		Up Stream Of Works	14/01/2014	G		8.00	1.00			0.04		0.02	3.20	11.44
Carrickmacross		Up Stream Of Works	17/02/2014	G		8.00	1.00			0.13		0.01	3.10	10.28
Carrickmacross		Up Stream Of Works	18/03/2014	G		8.00	1.00			0.03		0.04	2.90	
Carrickmacross		Up Stream Of Works	22/04/2014	G		8.00	1.00			0.02		0.06	2.70	
Carrickmacross		Up Stream Of Works	19/05/2014	G	12.5	8.50	1.00			0.03		0.03	1.70	9.33
Carrickmacross		Up Stream Of Works	10/06/2014	G		7.80	1.00			0.01		0.05	2.00	
Carrickmacross		Up Stream Of Works	11/06/2014	G		7.70	4.00			0.07		0.17	3.10	
Carrickmacross		Up Stream Of Works	08/07/2014	G		7.80	1.00			0.05		0.06	2.20	
Carrickmacross		Up Stream Of Works	11/08/2014	G		7.80	2.00			0.06		0.05	1.80	
Carrickmacross		Up Stream Of Works	09/09/2014	G		8.00	1.00			0.04		0.01	1.90	
Carrickmacross		Up Stream Of Works	13/10/2014	G		8.20	1.00			0.03		0.02	1.40	10.8
Carrickmacross		Up Stream Of Works	03/11/2014	G	10.3	7.80	1.00			0.03		0.04	2.70	10.41
Carrickmacross		Up Stream Of Works	12/11/2014	G	13.1	7.50	1.00			0.07		0.03	1.70	9.9
Carrickmacross		Up Stream Of Works	01/12/2014	G		7.90	3.00			0.02		0.03	2.60	10.17
Average					11.97	7.93	2.50			0.04		0.04	2.36	10.33

Downstream monitoring results														
Location	Flow M3/day	Location	Date of Sampling	Sample Type (C or G)	Temp	pH	cBOD mg/l	CO D mg/l	Suspended Solids mg/l	Ortho P mg/l (as P)	Total Phosphorus mg/l (as P)	Ammonia (as N)	Total Nitrogen mg/l (as N)	Dissolved Oxygen (DO) mg/l
Carrickmacross		Down Stream of Works	14/01/2014	G		7	1			0.068		0.252	1.7	9.94
Carrickmacross		Down Stream of Works	17/02/2014	G		7	1			0.014		0.152	1.5	10.28
Carrickmacross		Down Stream of Works	18/03/2014	G		8	1			0.09		0.035	5	
Carrickmacross		Down Stream of Works	22/04/2014	G		7.4	1			0.009		0.115	1	
Carrickmacross		Down Stream of Works	19/05/2014	G	13.5	8.5	1			0.268		0.024	5.9	9.57
Carrickmacross		Down Stream of Works	10/06/2014	G		7.3	1			0.009		0.306	1.8	
Carrickmacross		Down Stream of Works	11/06/2014	G		7.5	1			0.211		0.051	3.2	
Carrickmacross		Down Stream of Works	08/07/2014	G		7.8	1			0.186		0.201	6.8	
Carrickmacross		Down Stream of Works	11/08/2014	G		7.7	2			0.092		0.048	3.2	
Carrickmacross		Down Stream of Works	09/09/2014	G		8	1			0.01		0.007	9.7	
Carrickmacross		Down Stream of Works	13/10/2014	G		8	1			0.153		0.047	5.4	10.09
Carrickmacross		Down Stream of Works	03/11/2014	G	10.3	7.7	1			0.071		0.055	2.9	10.24
Carrickmacross		Down Stream of Works	12/11/2014	G	13.1	7.5	3			0.098		0.14	2.3	9.85
Carrickmacross		Down Stream of Works	01/12/2014	G		7.8	1			0.047		1.1	4.5	10.23
Average					12.30	7.66	3.43			0.09		0.18	3.92	10.03

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



[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	Carrickmacross Waste Water Treatment Plant
PRTR Identification Number	D0062
Licence Number	D0062-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	
Address 2	
Address 3	
Address 4	
	Monaghan
Country	Ireland
Coordinates of Location	-6.711 53.968
River Basin District	GBNIIENB
NACE Code	3700
Main Economic Activity	Sewerage
AER Returns Contact Name	John Paul Mc Entee
AER Returns Contact Email Address	jpcentee@monaghancoco.ie
AER Returns Contact Position	Technician
AER Returns Contact Telephone Number	07430592
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	0
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# : 0002 | Facility Name : Carrickmacross Waste Water Treatment Plant | Filename : 0002_2014 - Copy (2).xls | Return Year : 2014

25/03/2015 13:07

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
No. Annex II	POLLUTANT Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
02	Carbon monoxide (CO)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
03	Carbon dioxide (CO2)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	209705.0	0.0	209705.0
05	Nitrous oxide (N2O)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	1.0	0.0	1.0
07	Non-methane volatile organic compounds (NMVOC)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	E	ESTIMATE	EPA LWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	E	ESTIMATE	EPA LWWTP 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			
No. Annex II	POLLUTANT Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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 No.	POLLUTANT Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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 Tonsnes KG/yr for Section A, Sector specific PRTR pollutants above. Please complete the table below.

Landfill: Carrickmacross 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		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engines	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : D0062 | Facility Name : Carrickmacross Waste Water Treatment Plant | Filename : D0062_2014 - Copy (2).xls | Return Year : 2014 |

25/03/2015 13:07

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 only concerns Releases from your facility

RELEASES TO WATERS				Please enter all quantities in this section in KGs			
No. Annex II	POLLUTANT Name	M/C/E	Method Used Method Code Designation or Description	QUANTITY			
				Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
34	1,2-dichloroethane (EDC)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
25	Alachlor	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
26	Aldrin	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
61	Anthracene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.003	0.003	0.0	0.0
17	Arsenic and compounds (as As)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.323	0.327	0.0	0.004
27	Atrazine	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.01	0.01	0.0	0.0
62	Benzene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.015	0.016	0.0	0.001
91	Benzo(g,h,i)perylene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.002	0.002	0.0	0.0
63	Brominated diphenylethers (PBDE)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.046	0.047	0.0	0.001
28	Chlordane	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
29	Chlordecone	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
30	Chlorfenvinphos	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
79	Chlorides (as Cl)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	78229.162	78443.002	0.0	213.84
31	Chloro-alkanes, C10-C13	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.194	0.195	0.0	0.001
32	Chlorpyrifos	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
19	Chromium and compounds (as Cr)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.269	0.269	0.0	0.0
20	Copper and compounds (as Cu)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	2.842	2.861	0.0	0.019
82	Cyanides (as total CN)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	2.702	2.711	0.0	0.009
33	DDT	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
70	Di-(2-ethyl hexyl) phthalate (DEHP)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.845	0.855	0.0	0.01
35	Dichloromethane (DCM)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.042	0.042	0.0	0.0
36	Dieldrin	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
37	Diuron	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.024	0.024	0.0	0.0
38	Endosulphan	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
39	Ethrin	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
65	Ethyl benzene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.015	0.015	0.0	0.0
88	Fluoranthene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.002	0.002	0.0	0.0
83	Fluorides (as total F)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	222.908	223.639	0.0	0.731
40	Halogenated organic compounds (as AOX)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	2.2	2.208	0.0	0.008
41	Heptachlor	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
90	Hexabromobiphenyl	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
42	Hexachlorobenzene (HCB)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
43	Hexachlorobutadiene (HCBd)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
89	Isodrin	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
67	Isoproturon	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.007	0.007	0.0	0.0
23	Lead and compounds (as Pb)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	2.801	2.837	0.0	0.036
45	Lindane	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
46	Mirex	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
68	Naphthalene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.004	0.004	0.0	0.0
22	Nickel and compounds (as Ni)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	3.924	3.936	0.0	0.012
64	Nonylphenol and Nonylphenol ethoxylates (NPNPEs)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.076	0.08	0.0	0.004
87	Octylphenols and Octylphenol ethoxylates	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
69	Organotin compounds (as total Sn)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
48	Pentachlorobenzene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
49	Pentachlorophenol (PCP)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
71	Phenols (as total C)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.838	1.105	0.0	0.267
50	Polychlorinated biphenyls (PCBs)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
72	Polycyclic aromatic hydrocarbons (PAHs)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.008	0.009	0.0	0.001
51	Simazine	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.013	0.013	0.0	0.0
52	Tetrachloroethylene (PER)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.054	0.054	0.0	0.0
53	Tetrachloromethane (TCM)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
73	Toluene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.455	0.501	0.0	0.046
12	Total nitrogen	M	ALT ALPHA 2320 (2005) by TN analyser, EW 140 EPA UWWTP Tool Version	13989.66	14067.144	0.0	77.484
76	Total organic carbon (TOC) (as total C or COD/3)	E	ESTIMATE 5.0 ALPHA 4500 PJ (2005) Total Phosphorus by Ganimede, EW 146 EPA UWWTP Tool Version	8496.804	8540.041	0.0	43.237
13	Total phosphorus	M	ALT Ganimede, EW 146 EPA UWWTP Tool Version	691.189	705.363	0.0	14.174
59	Toxaphene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
74	Tributyltin and compounds	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
54	Trichlorobenzenes (TCBs)(all isomers)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
57	Trichloroethylene	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
77	Trifluralin	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
75	Triphenyltin and compounds	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
60	Vinyl chloride	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.0	0.0	0.0	0.0
78	Xylenes	E	ESTIMATE 5.0 EPA UWWTP Tool Version	0.107	0.112	0.0	0.005
24	Zinc and compounds (as Zn)	E	ESTIMATE 5.0 EPA UWWTP Tool Version	45.493	45.895	0.0	0.402

* 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			
No. Annex II	POLLUTANT Name	M/C/E	Method Used Method Code Designation or Description	QUANTITY			
				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 No.	POLLUTANT		M/C/E	Method Used		Emission Point 1	QUANTITY			
	Name			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
370	Selenium		E	ESTIMATE	EPA UWWTP Tool Version		0.403	0.403	0.0	0.0
205	Antimony (as Sb)		E	ESTIMATE	EPA UWWTP Tool Version		0.142	0.144	0.0	0.002
368	Molybdenum		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.005	0.0	0.005
358	Tin		E	ESTIMATE	EPA UWWTP Tool Version		0.1	0.1	0.0	0.0
373	Barium		E	ESTIMATE	EPA UWWTP Tool Version		17.057	17.176	0.0	0.119
374	Boron		E	ESTIMATE	EPA UWWTP Tool Version		57.945	58.239	0.0	0.294
356	Cobalt		E	ESTIMATE	EPA UWWTP Tool Version		0.162	0.163	0.0	0.001
386	Vanadium		E	ESTIMATE	EPA UWWTP Tool Version		2.513	2.53	0.0	0.017
388	Dichlobenil		E	ESTIMATE	EPA UWWTP Tool Version		0.004	0.004	0.0	0.0
383	Linuron		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
385	Mecoprop Total		E	ESTIMATE	EPA UWWTP Tool Version		0.099	0.099	0.0	0.0
380	2,4 Dichlorophenol (2,4 D)		E	ESTIMATE	EPA UWWTP Tool Version		0.047	0.047	0.0	0.0
384	MCPA		E	ESTIMATE	EPA UWWTP Tool Version		0.082	0.082	0.0	0.0
382	Glyphosate		E	ESTIMATE	EPA UWWTP Tool Version		1.413	1.414	0.0	0.001
389	Benzo[a]pyrene		E	ESTIMATE	EPA UWWTP Tool Version		0.002	0.002	0.0	0.0
390	Benzo[b]fluoranthene		E	ESTIMATE	EPA UWWTP Tool Version		0.002	0.002	0.0	0.0
391	Benzo[k]fluoranthene		E	ESTIMATE	EPA UWWTP Tool Version		0.002	0.002	0.0	0.0
392	Indeno[1,2,3-c,d]pyrene		E	ESTIMATE	EPA UWWTP Tool Version		0.002	0.002	0.0	0.0
393	Carbon tetrachloride		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
394	2,6-Dichlorobenzamide		E	ESTIMATE	EPA UWWTP Tool Version		0.074	0.074	0.0	0.0
395	Dicofol		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
396	Hexabromocyclodecane (HBCD)		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
397	PFOS		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
238	Ammonia (as N)		M	ALT	APHA 4500NH3G (2005) Ammonia by Autoanalyser Spectrophotometry EW154 APHA 5210B (2005)		488.44	488.44	0.0	0.0
303	BOD		M	ALT	EN1899-1:1998 BOD EW001 APHA 5220D (2005) closed Reflux Colorimetric.		1492.968	1492.968	0.0	0.0
306	COD		M	ALT	EW004 EPA UWWTP Tool Version		24385.139	24385.139	0.0	0.0
362	Kjeldahl Nitrogen		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
327	Nitrate (as N)		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
372	Nitrite (as N)		E	ESTIMATE	EPA UWWTP Tool Version		0.0	0.0	0.0	0.0
332	Ortho-phosphate (as PO4)		M	ALT	USEPA 365.1 (1983) Phosphate by Autoanalyser Spectrophotometry EW154 APHA 4500G (2005)		617.462	617.462	0.0	0.0
240	Suspended Solids		M	ALT	Dissolved oxygen measurement EW013		5243.819	5243.819	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : D0062 | Facility Name : Carrickmacross Waste Water Treatment Plant | Filename : D0062

25/03/2015 13:07

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			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) 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)

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR#: D0062 | Facility Name : Carrickmacross Waste Water Treatment Plant | Filename : D0062_2014 - Copy (2).xls | Return Year : 2014 |

25/03/2015 13:07

SECTION A : PRTR POLLUTANTS

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : D0062 | Facility Name : Carrickmacross Waste Water Treatment Plant | Filename : D0062_2014 - Copy (2).xls | Return Year : 2014 |

25/03/2015 13:07

Please enter all quantities on this sheet in Tonnes

5

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	<small> Haz Waste: Name and Licence/Permit No of Next Destination Facility Non-Haz Waste: Name and Licence/Permit No of Recover/Disposer </small>	<small> Haz Waste: Address of Next Destination Facility Non-Haz Waste: Address of Recover/Disposer </small>	<small> Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) </small>	<small> Actual Address of Final Destination (i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)) </small>
						M/C/E	Method Used					
Within the Country	19 08 01	No	14.5 screenings	D5	M	Weighed		Offsite in Ireland	Euromex T/A McElvaney's Waste & Recycling, WCP/MH/2005/8 9B	Corcaghan, Co. Monaghan, Ireland	Clarity House, Belgard Road, Tallaght, Dublin 24, Ireland	
Within the Country	19 08 05	No	993.3 sludges from treatment of urban waste water R10		M	Weighed		Offsite in Ireland	BioCore Environmental Ltd ,WCP/DC/11/1342/01			

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)

Section 4. 'Assessment Criteria for Existing SWO's':

- (1) It does not cause visual/aesthetic impact or public complaints.
- (2) No analyses have been carried out on this SWO discharge.
- (3) The receiving River Proules, is designated as 'sensitive water' under the Urban Wastewater Treatment Directive (UWWTD). The impact of the discharge from the SWO is unknown on the receiving water, as no analyses have been carried out when it operates.
- (4) It does not operate in dry weather.

Section 5, 'Options following Assessment'

The option following assessment considered is the 'use of storage' option as a storm tank is already employed at the WWTP. From the document, section 7 is the next relevant part for assessment.

Section 7, 'Use of Storage'

The existing storm tank volume equates to approximately 600m³, the WWTP average flow figure for 2014 is 1,795m³, with a Dry Weather Flow (DFW) of 1,000m³. The capacity of the storm tank is therefore 0.6 times the DWF of the plant. Storage of 4.8 hours at 3 x DWF is provided.

Appendix 1, Table 1:

A. 'Medium Significance SWOs'

The Carrickmacross SW2 is in the 'Medium significance SWO' category as the p.e. is >2,000, dilution factor <8:1 and Cyprinid fishery (carp) criteria apply.

Appendix 2, A. 'Medium Significance SWOs'

The document states that the use of hydraulic models for the sewer networks and 'Interim Procedure and CARP' would be appropriate for overflows of medium significance. There is no available data for the Carrickmacross SWO in this regard, therefore, no further calculations can be completed.

From the assessment of this SW2 in relation to the 'Procedures and criteria in relation to Storm Water Overflows', 1995 document, it is concluded that the SWO does not comply with the document as assessed under section 4.1 of this document.

SWO Identification and Inspection Summary Report Table A:

WWDL Name/Code for Storm Water Overflow	SW -2
IGR	284588E, 302860N
Included in Schedule A4 of the WWDL	Yes
Compliance with DoEHLG Criteria	Does not comply
No. of times activated in 2014	20
Total volume discharged (m3)	Unknown
Total volume discharged in 2014 (P.E.)	Unknown
Estimated/Measured Data	Estimated

Appendix 7.5 – Specified Improvement Programme

a) Specified Improvement Programme

Under Schedule C.1 ‘Improvement Programme for Primary Discharge’ of the licence, ‘Advance Works’ are specified at the WWTP, including,

- Storm tanks
- Inlet Works
- Pumping Station (inlet and outlet)
- Effluent outfall pipeline and associated works.

The completion date specified for these works is unknown and subject to approval by Irish Water.

Schedule C.3 ‘Specified Improvement for Storm Water Overflows’ of the licence, upgrading of Storm Water Overflow, SW-2, is required to comply with the criteria outlined in the DoECLG, ‘Procedures and Criteria in relation to Storm Water Overflows, 1995’.

The completion date specified for these works is 1st January 2015.

Schedule C.1 and C.3 specified improvements form part of proposed Contract 3 for Carrickmacross WWTP as outlined in the executive summary of this report. The estimated cost of Contract No. 3 is € 5.5M. Progress of these works will depend on Irish Water approval and funding.

Specified Improvement Programmes	Licence Schedule	Licence Completion date	Date Expired	Status of works	% Construction work completed	Licensee timeframe for completing work	Comments
Advance works at the WWTP	C.1	1/1/2015	Y	At Planning	0%	Dependent on Irish Water approval & funding	
Upgrading of SWO to comply with criteria outlined in DoEHLG ‘procedures and criteria in relation to SWO’s, 1995’	C.3	1/1/2015	Y	Forms part of the ‘Advance Works’	0%	Dependent on Irish Water approval & funding	

b) Programme of Improvements

Other identified improvement works by for the WWTP are summarised in the following table:

Improvement Summary Table

Improvement Identifier	Improvement Description	Improvement Source	Progress (% completed)	Expected Completion Date
Shared access by Town Council and WWTP, no site boundaries.	Provision of separate access road to WWTP and fencing.	Irish Water establishment and for H & S reasons	0% Municipal district dependent.	2015/2016
Overflows from tank during adverse weather.	Extension/upgrading of aeration tank no. 1.	Section 3.4	0%	Dependent on Irish Water approval and funding
No standby pump at main inlet Oriel road pump station, no overhead lifting equipment or gantry to lift pump when required.	Provision and installation of standby pump and overhead lifting equipment and gantry at Oriel road inlet pump station.	Executive summary	50%	April 2015
No record of activation or flow measurement from SWO tank at the WWTP.	Install SWO measurement/recorder device to measure flows/record no. times it activates	Cond. 4.1 of this report	0%	Dependent on Irish Water approval and funding