Castlepollard
Wastewater Treatment Plant

WWDL No. D0105-01

ANNUAL ENVIRONMENTAL REPORT 2013
(Third Report)

Castlepollard Waste Water Discharge Licence

(EPA Ref: D0105-01)

Annual Environmental Report 2013

License Holder	Irish Water
Local Authority	Westmeath County Council
Project Title	Castlepollard Waste Water Discharge Licence
Document Title	Annual Environmental Report 2013 (Third Report)
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28th February 2014	M. Makura	G. Duggan		

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A) INTRODUCTION

In accordance with Schedule D of the Wastewater Discharge Licence Ref No D0105-01, the following Annual Environmental Report covers the period January 2013 to December 2013. This is the third Annual Environmental Report submitted to the Agency for the Castlepollard Wastewater Treatment Plant and agglomerations. The format of the report has taken into consideration the Environmental Protection Agency Guidance Document on the Preparation of the 2013 Annual Environmental Report (A.E.R.) for Waste Water Discharge Licences.

B) Executive Summary

This Annual Environmental Report relates to the requirements of the Discharge Licence Ref D0105-01 for the Castlepollard Town and agglomeration. The design population equivalent (P.E.) of the Castlepollard Wastewater Plant is **6,500** and the actual measured organic population equivalent for 2013 is **1,132.** The Castlepollard network consists of a 225mm diameter gravity sewer except for approximately 1km from the inlet pumping station to WWTP. The treatment plant provides secondary treatment with chemical phosphorus removal. The treated effluent from the treatment plant is discharged to the River Yellow. The Castlepollard agglomeration is situated to the southeast of County Westmeath and incorporates the majority of the villages of Castlepollard. The waste water treatment plant (WWTP) is sited close to and discharges to the Yellow River.

A Wastewater Discharge Licence was granted by the Environmental Protection Agency (EPA) to Westmeath County Council for the Castlepollard WWTP on 13th December, 2011. Under Condition 6 of the granted licence, an Annual Environmental Report shall be submitted to the EPA by the 28th February of each year. This report is the Third Annual Environmental Report.

Section 1: Introduction and Background to 2013 AER

In accordance with the Environmental Protection Agency Wastewater Discharge Licence (W.W.D.L.), reference number D0105-01 for the Castlepollard Wastewater Treatment Plant (W.W.T.P.), an Annual Environmental Report (A.E.R.) must be submitted to the Agency. This A.E.R. covers the period from January 2013 to December 2013 and includes the information as specified in Schedule D of W.W.D.L. reference number D0105 as outlined below and also takes cognisance of the Environmental Protection Agency, "Guidance on the Preparation and Submission of the Annual Environmental Report for Waste Water Discharge Licences", 2013.

SCHEDULE D: Annual Environmental Report [Note 1]

- ◊ Discharges from the agglomeration
- ◊ Summary report on monthly influent monitoring
- ◊ Data collection and reporting requirements under the Urban Waste Water Treatment Directive
- ◊ Complaints Summary
- ◊ Pollutant Release and Transfer Register – report on previous year
- ◊ Pollutant Release and Transfer Register – proposal for current year
- ◊ Ambient Monitoring
- ◊ Storm water overflow identification and inspection report
- ◊ Reported Incident Summary
- ◊ Report on progress made and proposals being developed to meet the improvement programme requirements
- ◊ Development/Infrastructural works summary (competed in previous year or prepared for current year)
- ◊ Risk based Assessment to identify possible presence of priority substances
- ◊ Any other items specified by the Agency

Section 2: Monitoring Reports Summary

2.1 Summary Report on Monthly Influent Monitoring

In accordance with condition 4.16 of licence D0105-01 the influent stream to the Castlepollard Wastewater Treatment Plant was monitored for cBOD (Carbonaceous Biological Oxygen Demand), COD (Chemical Oxygen Demand), Suspended Solids, Total Nitrogen and Total Phosphorus. The results period January 2013–December 2013 are presented in Appendix 1. The average monthly flows and equivalent PE are summarised in Appendix 1. The average daily flow to the Castlepollard wastewater treatment plant was **531 m^3/d** and the population equivalent (P.E.) is **P.E. 1,132.**

	BOD mg/l	**cBOD** mg/l	**COD** mg/l	**SS mg/l**	**TP mg/g**	**TN mg/l**	**Cond. (200C uS/cm)**	**pH (pH units)**	**Hydraulic Loading m3/d**	**Organic Loading (PE/day)**
Number of Samples		12	12	12	12	12	12	12		
Maximum Result		535	723	980	11.6	116	1157	7.94	980	2,515
Annual Mean		154.63	261.33	213.92	4.48	37.83	743.75	1.33	**531**	**1,132**

Table 2.1: Influent Monitoring Summary Table

2.2 Discharges from the Agglomeration

The primary wastewater discharge SW1 (P) discharges directly to the river Yellow at location 204152E, 240545N. Composite samples of the effluent were taken over the period of January 2013 to December. The results are presented in Appendix 3. The results show the effluent quality was of an excellent standard except for Ammonia and TSS. In accordance with Schedule B, Table B2 interpretation of Discharge Monitoring Results for January 2013 to December 2013, twelve effluent samples of Ammonia and TSS were taken between January 2013 and December 2013 and two samples for Ammonia and one sample for TSS were over the Emission limit values. It should be noted that all E.L.V excedences were reported to the Agency in 2013.

	Flow (m3/dy)	cBOD (mg/l)	COD (mg/l)	TSS (mg/l)	Total P (mg/l)	Total N (mg/l)	Ammonia (mg/l)	Ortho P (mg/l)	Conductivity	PH	Comment
Monitoring Frequency	Daily	Fortnightly	Fortnightly	Fortnightly	Fortnightly	Fortnightly	Fortnightly	Fortnightly	Fortnightly	Conti	
WWDL ELV (Schedule A)		**10**	**125**	**10**			**2**	**1**		**6.00-9.00**	
ELV with Condition 2 Interpretation included	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	
Number of sample results	12	12	12	12	12	12	12	12	12	12	
Number of sample results above WWDL ELV	N/A	0	1	3	N/A	N/A	2	0	N/A	0	
Number of sample results above ELV with Condition 2 Interpretation included	N/A	0	0	1	N/A	N/A	2	0	N/A	0	
Annual Mean (for parameters where a mean ELV applies)	531	3.33	19.13	4.42	0.28	21.98	1.19	0.82	641	7.81	
Overall Compliance (Pass/Fail)		Pass	Pass	Fail	N/A	N/A	Fail	Pass	N/A	Pass	

Table 2.2.1: Effluent Monitoring Summary Table

2.3 Ambient Monitoring Summary

The ambient monitoring of the receiving water was carried out in accordance with Schedule B4: of the Wastewater Discharge Licence D0105-01. The results are presented in Appendix 4, upstream monitoring data for sampling station aSW1u and the downstream monitoring data for sampling station aSW1d.

The arithmetic mean for the water quality parameters tested indicate that the receiving water upstream and downstream of the primary discharge is of poor status in accordance with the European Communities Environmental Objectives (Surface Waters) Regulations, 2009 (S.I. No 272 of 2009) and the arithmetic mean for the parameters tested downstream of the primary discharge show that the primary discharge point is have a very slight negative impact on surface water quality of the Yellow River.

Ambient Monitoring Point from WWDL	Irish Grid Reference	EPA Feature Coding Tool	Does assessment of the ambient monitoring results indicate that the discharge if impacting on the water quality?
aSW1(P)u	**244451E 269160N**		**The Surface water is not achieving good water quality status upstream of discharge point**
aSW1(P)d	**245020E 268680N**		**The discharge point have a slightly negative impact on the surface water quality**

Table 2.3.1: Ambient Monitoring Summary Table

2.4 Data Collection and Reporting Requirements under the Urban Waste Water Treatment Directive.

The Environmental Section of Westmeath County Council is responsible for all the data collection and reporting requirement under the Urban Waste Water Treatment Directive. All results have been submitted via EDEN at https://www.edenireland.ie

2.5 Pollutant Release and Transfer Register (PRTR) - Report for Previous Year.

The PRTR data for 2013 presented in Appendix 11 and a copy of the electronic PRTR submission has been uploaded through the AER/PRTR website.

Section 3: Operation Reports Summary

3.1 Treatment Efficiency Report

In accordance with condition 4.16 of Wastewater Discharge Licence D0105-01 the wastewater treatment plant removal efficiencies for 2013 are presented in Appendix 5. The summary of the removal efficiencies is represented in Table 3.1.1 below

	cBOD kg/yr	COD kg/yr	SS kg/yr	Total P kg/yr	Total N kg/yr	Comment
Influent mass loading(kg/year)	24,782.00	41,501.26	33,907.62	740.82	5,818.59	
Effluent mass emission (kg/year)	467.81	4,956.05	1,180.65	44.31	3,705.38	
% Efficiency (% reduction of influent load)	98.11%	88.06%	96.52%	94.02%	36.32%	

Table 3.1.1 Treatment Efficiency Summary Report

3.2 Treatment Capacity

The Average daily flow at the Castlepollard WWTP between the dates between January 2013 and December 2013 was **531m³/day** with the average strength of the influent in terms of cBOD being **154.63mg/*l*** for results taken from January 2013 to December 2013.The Urban Waste Water Treatment Regulations define that one Population Equivalent (PE) is equivalent to 60g of cBOD. A figure of 225 litres per person was used to determine the hydraulic loadings.

Hydraulic Capacity – Design / As Constructed (m3/day)	1,463
Hydraulic Capacity – Current loading (m3/day)	531
Hydraulic Capacity – Remaining (m3/day)	932
Organic Capacity - Design / As Constructed (PE)	6,500
Organic Capacity - Current loading (PE)	1,132
Organic Capacity – Remaining (PE)	5,368
Will the capacity be exceeded in the next three years? (Yes / No)	No

Table 3.2.1 Treatment Capacity Report Summary Table

3.3 Extent of Agglomeration Summary Report

The table below summaries the amount of urban waste water generated within an agglomeration depending on whether it is collected and treated in a municipal waste water works or in a private system

	% of total load generated in the agglomeration
Load generated in the agglomeration that is collected in the sewer network	**100%**
Load collected in the agglomerations that enters treatment plant	**100%**
Load generated in the agglomeration going to individual and appropriate treatment systems.	**0%**
Load generated in the agglomeration that is not collected and not individually treated.	**0%**

Table 3.3.1 Extent of Agglomeration Summary Table

3.4 Complaints Summary

The following tables summarises the complaints and incidents recorded on Castlepollard WWTP. For the period of January 2013 to December 2013 there have been no reported complaints

Number	Date & Time	Nature of Complaint	Cause of Complaint	Actions taken to resolve issue	Closed
None	None	None	None	None	None

Table 3.4.1 Complaint Summary Table

3.5 Reported Incidents Summary

Reported incidents for 2013 are summarised in the Incident Table below

Date & Time	Incident Description	Cause	Corrective Action	Authorities Contacted	Reported to EPA	Closed Y/N
07/03/2013	SS ELV Excedences 14.4mg/l	Picket fence thickener undergoing repair	Picket Fence Thickener repaired	Inland Fisheries Board & EPA	Yes	Yes
25/07/2013	SS ELV Excedences 17.20mg/l	Clarifier scraper and drive wheel fault	Clarifier scraper and drive wheel repaired	Inland Fisheries Board & EPA	Yes	Yes
22/08/2013	Ammonia ELV Excedences 2.62mg/l	Belt press breakdown elevated MLSS	Belt press repaired.	Inland Fisheries Board & EPA	Yes	Yes
05/09/2013	SS ELV Excedences 25.20mg/l			Inland Fisheries Board & EPA	Yes	Yes
05/09/2013	Ammonia ELV Excedences 8.45mg/			Inland Fisheries Board & EPA	Yes	Yes
05/09/2013	cBOD ELV Excedences 11.79mg/			Inland Fisheries Board & EPA	Yes	Yes
19/09/2013	Ammonia ELV Excedences 5.4mg/l			Inland Fisheries Board & EPA	Yes	Yes
03/10/2013	SS ELV Excedences 12mg/l			Inland Fisheries Board & EPA	Yes	Yes
31/10/2013	SS ELV Excedences 12mg/l			Inland Fisheries Board & EPA	Yes	Yes
28/11/2013	Ammonia ELV Excedences 8.85mg/l			Inland Fisheries Board & EPA	Yes	Yes

Table 3.5.1 Incidents Reported to the Environmental Protection Agency in 2013.

There were no recurring incidents on Castlepollard WWTP

Incident Type (e.g. Non-compliance, Emission, Spillage, pollution Incident)	Incident Description	Cause	No. Of Incident	Corrective Action	Authorities Contacted	Reported to EPA	Closed Y/N
Non-compliance	Suspended solids ELV exceedance	Storm water event	6	Install a stormwater tank	Inland Fisheries Board & EPA	Yes	Yes
Non-compliance	Ammonia ELV exceedance		5	Change to alum Aug 2013	Inland Fisheries Board & EPA	Yes	Yes

Table 3.5.2 Summary of Recurring Incidents Table

There were no discrepancies between the number of incidents and the records of incidents reported to EPA in 2013

Number of Incidents in 2013	11
Number of Incidents reported to the EPA in 2013	11
Explanation of any discrepancies between the two numbers above	N/A

Table 3.5.3 Summary of Incidents Reported to EPA

3.6 Sludge/Other Inputs to the WWTP

All agglomerations are required to provide a report detailing all 'other inputs' to the waste water treatment plant. These inputs include; septic tank sludge, industrial /commercial sludge, landfill leachate and any other sludge that is collected and added to the treatment plant. The table below summaries the Sludge inputs to the treatments stream at the WWTP for 2013

Input type	m^3/year	PE/year	% of Load
Domestic/Septic Tank Sludge	**0**	**0**	**0**
Industrial/Commercial Sludge	**0**	**0**	**0**
Landfill Leachate(delivered by tanker)	**0**	**0**	**0**
Landfill Leachate(delivered by Sewer Network	**0**	**0**	**0**
Other (specify)	**0**	**0**	**0**

Table 3.6.1: Sludge Other Inputs Summary table

Section 4: Infrastructural Assessments & Programme of Improvements

4.1 Stormwater Overflow identification and Inspection Report

Storm Water Overflow Assessment as per condition 4.12.1 & 4.12.2.

The Castlepollard agglomeration currently includes only one pumping station which has a storm overflow facility. No inline storm water storage tanks are provided in the entire sewer collection network for Castlepollard. There are no storm water overflows or CSO's on the collection network. If in the event that the pumps are unable to cope with the flows entering the station or in the event of electrical power failure or catastrophic pump failure or heavy rain, the stormwater overflow is activated. However the stormwater facility has not been activated because the plant is currently operating at 20% of the hydraulic capacity of the plant

The table below summaries the Stormwater Overflow identification and Inspection Report

WWDL Name / Code for Storm Water Overflow	Irish Grid Reference	Included in Schedule A4 of the WWDL	Compliance with DoEHLG Criteria	No. of times activated in 2013 (No. of events)	Total volume discharged in 2013 (m3)	Total volume discharged in 2013 (P.E.)	Estimated /Measured data
SW2	245734E 269414N	Yes	Yes	0	0.00	0.00	E

Table 4.1.1: SWO Identification and Inspection Summary Report Table A

How much sewage was discharged via SWOs in the agglomeration in the year (m3/yr)?	0.00
How much sewage was discharged via SWOs in the agglomeration in the year (p.e.)?	0.00
What % of the total volume of sewage generated in the agglomeration was discharged via SWOs in the agglomeration in 2013?	0%
Is each SWO identified as non-compliant with Guidance included in the Programme of Improvements?	No
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?	No

Table 4.1.2: SWO Identification and Inspection Summary Report Table B

4.2 Report on progress made and proposals being developed to meet the improvements programme requirement

There are no specified Improvement programs in Schedule C of the Castlepollard WWD license. The status of improvements identified as necessary in accordance with condition 5.2 is summarised in the Table 4.4 below

4.3 Sewer Integrity Assessment

This shall be forwarded when available. The report and investigations works required are included a "program and investigations works" report to Irish Water.

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 Section4.
Hydraulic Risk Assessment Score	*Not Assessed*	*Not Assessed*	*Not Assessed*
Environmental Risk Assessment Score	*Not Assessed*	*Not Assessed*	*Not Assessed*
Structural Risk Assessment Score	*Not Assessed*	*Not Assessed*	*Not Assessed*
Operation & Maintenance Risk Assessment Score	*Not Assessed*	*Not Assessed*	*Not Assessed*
Overall Risk Score for the agglomeration	*Not Assessed*	*Not Assessed*	*Not Assessed*

Table 4.3.3 Sewer Integrity Risk Assessment Tool Improvement Programme (Works) summary table:

Section 5: License Specific Reports

Discharge licence makes requirements in relation to submission of specific reports or carrying out specific assessments. The specific requirements for Castlepollard WWTP are summarised in the table below

Licence Specific Report	Required in 2013 AER or outstanding from previous AER	Included in 2013 AER	Reference to relevant Section of AER
Priority Substances Assessment	Yes	Yes	Summary of finding in Section 5.1. Full report was Submitted in the second AER
Drinking Water Abstraction Point Risk Assessment	No	No	
Habitats Impact Assessment	No	No	
Shellfish Impact Assessment	No	No	
Pearl Mussel Report	No	No	
Toxicity / Leachate Management	No	No	
Toxicity of Final Effluent	No	No	

Table 5.0: License Specific Report

5.1 Priority Substances Assessment

As required by Schedule D of the discharge licence, a representative sample of effluent was screened for the presents of organic and metals within 12 months of the date of licence. The result of the screening attached in this Report in Appendix 14. The parameters screened were based on the EPA document, 'Guidance on Screening for Priority Substances for Waste Water Discharge Licences'.

No additional requirements with regard to ongoing monitoring have been imposed by the EPA nor have ELVs been set for any of the parameters. The outcome is summarised in the table below.

Does the review 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 it include a review of Trade inputs to the works?	No
Does it include a review of other inputs to the works?	No
Does it contain 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 investigation identify that a priority substance is impacting the receiving water?	No
List priority substance(s) identified	None
Where relevant are there corrective actions identified to eliminate/minimize the substance identified in the discharge?	N/A
Is there a timeframe given to implement the corrective action for each substance identified?	N/A
List corrective actions	N/A
List completion date	N/A

Table 5.1.1: Priority Substances Assessment Summary Table

5.2 Drinking water Abstraction Point Risk Assessment

This report is not required

Is a Drinking Water Abstraction Risk Assessment required in the 2013 AER (or outstanding from a previous AER)	N/A
Does the Drinking Water Abstraction Risk Assessment identify whether any of the discharges in Schedule A of the licence pose a risk to a drinking water abstraction	N/A
Does the assessment identify if any other discharge(s) from the works pose a risk to a drinking water abstraction (includes emergency overflows)	N/A
What is the overall risk ranking applied by the licensee	N/A
Does the risk assessment consider the impacts of normal operation	N/A
Does the risk assessment consider the impacts of abnormal operation (e.g. incidents /overflows)	N/A
Does the risk assessment include control measures for each risk identified	N/A
Does the risk assessment include operational control measures e.g? incident notification to DW source	N/A
Does the risk assessment include infrastructural control measures	N/A
Does the Improvement Programme for the agglomeration include control measures / corrective actions to eliminate / reduce priority substances identified as having an impact on receiving water quality?	N/A

Table 5.2.1: Drinking water Abstraction Point Risk Assessment

5.3 Shellfish Impact Assessment Report

This report is not required

Is a Shellfish Impact assessment required in the 2013 AER (or outstanding from a previous AER)?	N/A
List prescribed organisations consulted when preparing the assessment (BIM, SFPA, MI)	N/A
Does the assessment identify that any of the discharges from the works are impacting on the microbiological quality of the shellfish?	N/A
Does the assessment recommend that there is a requirement to install UV/other disinfection equipment on any of the discharges?	N/A
Provide details on disinfection system to be employed	N/A
Has this been completed?	N/A
If not yet complete what is the expected date for completion?	N/A
Where disinfection is required, is there a programme in place to demonstrate the efficiency of any disinfection system in place?	N/A
What is the demonstrated efficiency of the disinfection system?	N/A
Is there a shellfish monitoring programme in place?	N/A
Does the shellfish or shellfish water monitoring programme include results generated by other organisations	N/A
List organisations contributing data to the assessment	N/A
Does the Improvement Programme for the agglomeration include the findings and recommendations of the shellfish impact risk assessment?	N/A

Table 5.3.1: Shellfish Impact Assessment summary table:

5.4 Toxicity/Leachate Management

This Report is not required

Is a Toxicity / Leachate Management Report required in the 2013 AER (or outstanding from previous AER)	N/A
What % of the total influent is leachate?	N/A
Does the study identify any constituents of the leachate that present an environmental risk?	N/A
List leachate constituent identified and impact *(insert a row for each constituent)*	N/A
Has the WWTP suitability to treat the leachate been assessed?	N/A
What are the results of the assessment (Suitable / Not Suitable / Suitable subject to improvement programme works completion)	N/A
Has the study identified the max and operational loadings (mass, volume and rate of addition) for leachate to the WWTP?	N/A
Is there a monitoring programme for the priority substances identified above?	N/A
Have trigger and action levels for the concentration of identified leachate constituents been established to prevent impact on the receiving water?	N/A
Does the Improvement Programme for the agglomeration include any procedural and/or infrastructural works to reduce the impacts of leachate acceptance on the operation of the WWTP?	N/A

Table 5.4.1:Toxicity / Leachate Management Report summary table:

5.5 Toxicity of the final Effluent Report

This report is not required

Toxicity of the final effluent assessment summary table:

Is a Toxicity report required? (Condition 4)	N/A
Has the study been carried out against 4 species in 3 trophic levels?	N/A
Does the report identify that the discharge is toxic to any of the species in the study?	N/A
List species impacted	N/A
Does the Improvement Programme for the agglomeration include any procedural and/or infrastructural works to reduce the toxicity of the final discharge?	N/A

Table 5.5.1: Toxicity of the final effluent assessment summary table:

5.6 Pearl Mussel Measures Report

This report is not required

Is a progress report on implementation of the findings of Pearl Mussel Protection Measures report required in the 2013 AER (or outstanding from previous AER)	N/A
Is there a Pearl Mussel Protection Measures Report for the receiving water body?	N/A
Include hyperlink to internet location of report	N/A
Does this report identify measures relevant to discharges from the works as having a potential impact on the Pearl Mussel water?	N/A
Does the Improvement Programme for the agglomeration include any procedural and/or infrastructural works to reduce the impacts of discharge on pearl mussel populations?	N/A

Table 5.6.1: Pearl Mussel Measure Report summary table

5.7 Habitats Impact Assessment Report

This report is not required

Is a Habitats Assessment required in the 2013 AER (includes outstanding assessments from previous years)?	N/A
Was the scope of the study agreed in advance with NPWS	N/A
Does the report include a Stage 1 screening assessment?	N/A
Does the screening identify that discharges are causing an impact on listed sites?	N/A
Does the report require a Stage 2 Appropriate assessment?	N/A
Does the report identify any European Sites (e.g. SPA, SAC, NHA) that discharges from the works could have an impact on?	N/A
List European sites identified (insert a line for each site identified)	N/A
Does the report include mitigation measures for each identified impact?	N/A
Does each measure explain how the adverse impact will be avoided/reduced?	N/A
Does the Improvement Programme for the agglomeration include any procedural and/or infrastructural works to reduce the impacts of discharges on the a listed site (NHA, SAC, SPA)?	N/A

Table 5.7.1 Habitats Impact Assessment summary table:

Section 6. Certification and Sign off

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)	N/A
Is there a need to request/advise the EPA of any modifications to the existing WWDL? (see 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)	Funding from DECLG
Have these processes commenced? (i.e. Request for Technical Amendment /Licence Review / Change Request)	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER?	No
List outstanding Report	

I hereby submit Annual Environmental Report for Castlepollard Town and Environs Agglomeration, WWDL No. D0105-01 for 2013. I certify that the information contained within this Annual Environmental Report is truthful, accurate and complete.

Signed by: _____ **Date:** 28/2/2014.
(On behalf of Westmeath County Council)

Print signature name: GREG DUGGAN.

Position in organisation: Senior Engineer.

Appendix 1: Influent Monitoring Data

StationName	SampleDate	Manual Flows m3	CBOD mg/l	Chemical Oxygen Demand	Conductivity @ 20°C	pH	Suspended Solids	Temperature	Total Nitrogen	Total Phosphorus
Castlepollard influent	10/01/2013	980.00	154.00	99.00	682.00	7.05	58.00	9.30	8.00	1.40
Castlepollard influent	05/02/2013	910.00	66.00	170.00	779.00	7.20	330.00	7.70	14.00	2.30
Castlepollard influent	07/03/2013	549.00	55.80	106.00	670.00	7.53	41.00	9.30	21.00	2.80
Castlepollard influent	17/04/2013	388.00	154.00	137.00	374.00	7.52	224.00	10.50	12.00	4.00
Castlepollard influent	15/05/2013	450.00	154.00	115.00	676.00	6.97	11.00	11.40	26.00	3.50
Castlepollard influent	11/06/2013	531.00	153.00	459.00	1,153.00	7.64	322.00	15.90	93.00	11.60
Castlepollard influent	25/07/2013	210.00	535.00	723.00	1,157.00	7.10	980.00	19.50	116.00	5.10
Castlepollard influent	22/08/2013	220.00	126.00	310.00	653.00	7.21	71.00	16.20	39.00	6.50
Castlepollard influent	05/09/2013	242.00	168.80	407.00	691.00	7.11	135.00	15.00	47.00	7.10
Castlepollard influent	03/10/2013	644.00	88.00	183.00	507.00	7.48	52.00	15.40	31.00	3.70
Castlepollard influent	14/11/2013	760.00	96.00	217.00	621.00	7.23	53.00	9.80	22.00	2.20
Castlepollard influent	05/12/2013	498.00	105.00	210.00	962.00	7.94	290.00	10.40	25.00	3.60
Average		531.83	**154.63**	**261.33**	**743.75**	**7.33**	**213.92**	**12.53**	**37.83**	**4.48**
MEL kg/year			**56,441.17**	**95,386.67**			**78,079.58**		**13,809.17**	**1,636.42**

Appendix 2: Effluent Monitoring Data

SamplePurpose	SampleDate	Flows	Ammonia(N)	CBOD	COD	Conductivity @ 20°C	Kjeldahl nitrogen	Nitrates (N)	Nitrites (N)	Ortho-P	pH	SS	Temperature	TN	TON	TP	
			2	10	125					1		10					
Castlepollard Effluent	10/01/2013	980.00	0.11	1.82	4.00	651.00	0.17	6.90	0.03	0.14	7.29	6.40	8.10	7.10	6.93	0.16	
Castlepollard Effluent	24/01/2013	910.00	0.12	2.87	10.00	656.00				0.10	7.75	4.00	10.20	8.30		0.11	
Castlepollard Effluent	05/02/2013	531.00	0.11	1.70	18.00	682.00	1.28	6.30	0.02	0.12	7.31	6.00	8.20	7.60	6.32	0.14	
Castlepollard Effluent	20/02/2013	531.00	0.07	1.38	14.00	685.00				0.05	7.88	1.00	12.10	10.70		0.11	
Castlepollard Effluent	07/03/2013	549.00	0.10	4.24	18.00	684.00	0.57	15.40	0.03	0.22	7.58	14.40	9.20	16.00	15.43	0.25	
Castlepollard Effluent	21/03/2013	531.00	0.13	1.15	22.00	690.00				0.13	6.99	6.00	9.60	19.00		0.20	
Castlepollard Effluent	04/04/2013	388.00	0.16	2.43	22.00	668.00				0.07	6.88	2.40	7.20	13.60		0.17	
Castlepollard Effluent	17/04/2013	531.00	0.17	2.02	9.00	648.00	8.34	9.90	0.06	0.09	7.36	1.00	10.40	18.30	9.96	0.14	
Castlepollard Effluent	02/05/2013	450.00	0.08	0.66	18.00	712.00				0.20	7.62	3.60	14.80	12.20		0.08	
Castlepollard Effluent	15/05/2013	531.00	0.20	1.42	43.00	664.00	13.04	10.10	0.57	0.19	7.01	2.80	11.10	23.20	10.16	0.20	
Castlepollard Effluent	30/05/2013	531.00	0.22	0.65	23.00	735.00				0.08	6.80	1.60	19.00	26.00		0.22	
Castlepollard Effluent	11/06/2013	531.00	0.37	2.00	25.00	795.00	0.83	25.00	0.18	0.15	7.55	1.20	15.40	26.00	25.17	0.28	
Castlepollard Effluent	27/06/2013	531.00	0.38	1.58	31.00	794.00				0.29	7.75	9.00	22.20	34.00		0.29	
Castlepollard Effluent	11/07/2013	210.00	0.50	1.62	29.00	810.00	3.01	26.00	0.19	0.28	7.23	7.20	17.00	29.20	26.19	0.39	
Castlepollard Effluent	25/07/2013	531.00	1.15	2.35	50.00	669.00	0.88	34.00	0.12	0.40	6.39	17.20	20.90	35.00	34.12	0.62	
Castlepollard Effluent	08/08/2013	220.00	0.60	0.59	13.00	608.00				0.06	6.47	1.20	20.30	27.00		0.17	
Castlepollard Effluent	22/08/2013	531.00	2.62	2.55	21.00	694.00	15.64	17.20	0.16	0.16	6.44	10.00	16.10	33.00	17.36	0.30	
Castlepollard Effluent	05/09/2013	242.00	8.45	11.79	98.00	611.00	25.69	17.50	0.81	0.38	6.50	25.20	17.10	44.00	18.31	0.61	
Castlepollard Effluent	19/09/2013	531.00	5.40	2.33	33.00	480.00				0.08	6.99	6.80	16.60	28.00		0.26	
Castlepollard Effluent	03/10/2013	644.00	0.73	6.00	46.00	459.00	1.24	24.60	0.17	0.07	7.07	12.00	15.00	26.00	24.77	0.23	
Castlepollard Effluent	17/10/2013	531.00	2.15	2.73	24.00	570.00				0.07	6.57	8.40	15.00	26.00		0.23	
Castlepollard Effluent	31/10/2013	531.00	0.38	2.42	39.00	507.00				0.12	7.38	12.00	12.90	14.00		0.27	
Castlepollard Effluent	14/11/2013	760.00	0.11	2.54	30.00	569.00	4.16	11.80	0.04	0.11	7.11	1.20	15.40	16.00	11.84	0.20	
Castlepollard Effluent	28/11/2013	531.00	8.85	1.92	20.00	636.00				0.11	7.58	1.00	14.40	9.10		0.23	
Castlepollard Effluent	05/12/2013	490.00	0.15	1.57	37.00	568.00	1.08	10.50	0.03	0.16	8.05	1.00	8.20	11.60	10.52	0.24	
Castlepollard Effluent	18/12/2013	531.00	0.07	2.94	24.00	505.00				0.10	7.32	4.00	11.10	15.10		0.23	
Average		531.08	1.28	2.51	27.73	644.23	5.84	16.55	0.18	0.15	7.19	6.41	13.75	20.62	16.70	0.24	
MEL kg/year		193,843.08	468.60	916.29	10,121.73		2,131.94	6,042.15	67.08	55.17		2,338.81		7,524.62	6,094.60	88.86	

Appendix 3: Ambient Monitoring Data

StationName	SampleDate	Ammonia (N)	BOD	Conductivity @ 20°C	Dissolved Oxygen % Saturation	Ortho-phosphate	pH	Temperature	Total Nitrogen
Castlepollard:u/s STW	10/01/2013	0.23	1.1	676	117.5	0.14	7.31	8.1	2.1
Castlepollard:u/s STW	05/02/2013	0.25	0.7	678	115.6	0.12	7.22	7.9	2.6
Castlepollard:u/s STW	07/03/2013	0.16	1.38	679	110.6	0.16	7.49	9.2	2.5
Castlepollard:u/s STW	17/04/2013	0.35	3.74	512	100.7	0.12	7.34	10.9	1.2
Castlepollard:u/s STW	15/05/2013	0.06	0.95	682	106.4	0.1	6.94	11.5	1.9
Castlepollard:u/s STW	11/06/2013	0.19	1.9	688	110.8	0.09	7.43	15.9	2.2
Castlepollard:u/s STW	25/07/2013	0.12	0.95	627	99.8	0.19	7.06	23.4	0.8
Castlepollard:u/s STW	22/08/2013	0.13	1.13	617	110.3	0.07	7.38	15.5	1
Castlepollard:u/s STW	05/09/2013	0.13	0.96	633	100.9	0.12	7.12	18	1.8
Castlepollard:u/s STW	03/10/2013	0.05	1.9	627	112.1	0.06	7.17	17.2	3
Castlepollard:u/s STW	14/11/2013	0.15	0.75	622	106.4	0.1	7.09	13.3	1.7
Castlepollard:u/s STW	05/12/2013	0.18	1.39	627	101.3	0.11	7.89	10.4	2.3
Mean		**0.17**	**1.40**	**639.00**	**107.70**	**0.12**	**7.29**	**13.44**	**1.93**
Surface Water Regulation 2009 Good		0.065	1.50			0.035			
95 Percentile		**0.30**	**2.73**	**684.70**	**116.46**	**0.17**	**7.67**	**20.43**	**2.78**
Surface Water Regulation 2009 Good		0.14	2.6		80%<95%<120%	0.065			
Status Upstream		**Poor**	**Poor**		**Good**	**Poor**			

StationName	SampleDate	Ammonia (N)	BOD	Conductivity @ 20°C	Dissolved Oxygen % Saturation	Ortho-phosphate	pH	Temperature	Total Nitrogen
Castlepollard:d/s STW	10/01/2013	0.49	1.83	605	118	0.11	7.3	8.2	4.1
Castlepollard:d/s STW	05/02/2013	0.35	0.56	679	113.7	0.11	7.21	7.5	4.2
Castlepollard:d/s STW	07/03/2013	0.2	1.29	687	110.1	0.19	7.57	9.1	2.9
Castlepollard:d/s STW	17/04/2013	0.49	5.04	517	101.6	0.17	7.34	11.6	1.5
Castlepollard:d/s STW	15/05/2013	0.09	1.09	687	106.9	0.13	7.01	11.9	2
Castlepollard:d/s STW	11/06/2013	0.21	2.46	690	109.4	0.09	7.46	16.2	1.8
Castlepollard:d/s STW	25/07/2013	0.15	1.17	631	103.7	0.17	7.09	22.2	1.1
Castlepollard:d/s STW	22/08/2013	0.16	1.45	628	110.5	0.07	7.36	17.2	1.8
Castlepollard:d/s STW	05/09/2013	0.24	1.52	634	109.4	0.11	7.17	18.4	2.3
Castlepollard:d/s STW	03/10/2013	0.18	2.45	515	106.4	0.1	725	16	1.4
Castlepollard:d/s STW	14/11/2013	0.16	0.53	623	107.8	0.09	7.09	14.1	3
Castlepollard:d/s STW	05/12/2013	0.16	1.08	670	101.1	0.11	7.91	10.3	3.1
Mean		**0.24**	**1.71**	**630.50**	**108.22**	**0.12**	**67.13**	**13.56**	**2.43**
Surface Water Regulation 2009 Good		0.065	1.50			0.035			
95 Percentile		**0.49**	**3.62**	**688.35**	**115.64**	**0.18**	**330.60**	**20.11**	**4.15**
Surface Water Regulation 2009 Good		0.14	2.6		80%<95%<120%	0.065			
Status Upstream		**Poor**	**Poor**		**Good**	**Poor**			

Appendix 4: Mass Loading

StationName	SampleDate	Manual Flows m3	CBOD Load Kg/d	COD Load Kg/d	SS Load	TP Load	TN Load
Castlepollard influent	10/01/2013	980.00	150.92	97.02	56.84	1.37	7.84
Castlepollard influent	05/02/2013	910.00	60.06	154.70	300.30	2.09	12.74
Castlepollard influent	07/03/2013	549.00	30.63	58.19	22.51	1.54	11.53
Castlepollard influent	17/04/2013	388.00	59.75	53.16	86.91	1.55	4.66
Castlepollard influent	15/05/2013	450.00	69.30	51.75	4.95	1.58	11.70
Castlepollard influent	11/06/2013	531.00	81.24	243.73	170.98	6.16	49.38
Castlepollard influent	25/07/2013	210.00	112.35	151.83	205.80	1.07	24.36
Castlepollard influent	22/08/2013	220.00	27.72	68.20	15.62	1.43	8.58
Castlepollard influent	05/09/2013	242.00	40.85	98.49	32.67	1.72	11.37
Castlepollard influent	03/10/2013	644.00	56.67	117.85	33.49	2.38	19.96
Castlepollard influent	14/11/2013	760.00	72.96	164.92	40.28	1.67	16.72
Castlepollard influent	05/12/2013	498.00	52.29	104.58	144.42	1.79	12.45
Average		531.83	**67.90**	**113.70**	**92.90**	**2.03**	**15.94**
MEL kg/year			**24,782.00**	**41,501.26**	**33,907.62**	**740.82**	**5,818.59**

SamplePurpose	SampleDate	Flows	CBOD Load	COD Load	SS Load	TP Load	TN Load
Castlepollard Effluent	10/01/2013	980.00	1.78	3.92	6.27	0.16	6.96
Castlepollard Effluent	24/01/2013	910.00	2.61	9.10	3.64	0.10	7.55
Castlepollard Effluent	05/02/2013	531.00	0.90	9.56	3.19	0.07	4.04
Castlepollard Effluent	20/02/2013	531.00	0.73	7.43	0.53	0.06	5.68
Castlepollard Effluent	07/03/2013	549.00	2.33	9.88	7.91	0.14	8.78
Castlepollard Effluent	21/03/2013	531.00	0.61	11.68	3.19	0.11	10.09
Castlepollard Effluent	04/04/2013	388.00	0.94	8.54	0.93	0.07	5.28
Castlepollard Effluent	17/04/2013	531.00	1.07	4.78	0.53	0.07	9.72
Castlepollard Effluent	02/05/2013	450.00	0.30	8.10	1.62	0.04	5.49
Castlepollard Effluent	15/05/2013	531.00	0.75	22.83	1.49	0.11	12.32
Castlepollard Effluent	30/05/2013	531.00	0.35	12.21	0.85	0.12	13.81
Castlepollard Effluent	11/06/2013	531.00	1.06	13.28	0.64	0.15	13.81
Castlepollard Effluent	27/06/2013	531.00	0.84	16.46	4.78	0.15	18.05
Castlepollard Effluent	11/07/2013	210.00	0.34	6.09	1.51	0.08	6.13
Castlepollard Effluent	25/07/2013	531.00	1.25	26.55	9.13	0.33	18.59
Castlepollard Effluent	08/08/2013	220.00	0.13	2.86	0.26	0.04	5.94
Castlepollard Effluent	22/08/2013	531.00	1.35	11.15	5.31	0.16	17.52
Castlepollard Effluent	05/09/2013	242.00	2.85	23.72	6.10	0.15	10.65
Castlepollard Effluent	19/09/2013	531.00	1.24	17.52	3.61	0.14	14.87
Castlepollard Effluent	03/10/2013	644.00	3.86	29.62	7.73	0.15	16.74
Castlepollard Effluent	17/10/2013	531.00	1.45	12.74	4.46	0.12	13.81
Castlepollard Effluent	31/10/2013	531.00	1.29	20.71	6.37	0.14	7.43
Castlepollard Effluent	14/11/2013	760.00	1.93	22.80	0.91	0.15	12.16
Castlepollard Effluent	28/11/2013	531.00	1.02	10.62	0.53	0.12	4.83
Castlepollard Effluent	05/12/2013	490.00	0.77	18.13	0.49	0.12	5.68
Castlepollard Effluent	18/12/2013	531.00	1.56	12.74	2.12	0.12	8.02
Average		531.08	1.28	13.58	3.23	0.12	10.15
MEL kg/year		193,843.08	**467.81**	**4,956.05**	**1,180.65**	**44.31**	**3,705.38**

Appendix 5: Sludge Production Register

Exported Liquid Sludge Record						
Date	**Origin of Product**	**Destination**	**Weight (Tonne)**	**% TDS**	**Delivered By**	**On behalf of**
06/08/2013	Castlepollard	Mullingar WWTP Sludge Building	26.9	1.6	WCC	Westmeath Co. Council
08/08/2013	Castlepollard	Mullingar WWTP Sludge Building	26.22	2.1	WCC	Westmeath Co. Council
13/08/2013	Castlepollard	Mullingar WWTP Sludge Building	27.68	1.7	WCC	Westmeath Co. Council
22/08/2013	Castlepollard	Mullingar WWTP Sludge Building	26.34	1.6	WCC	Westmeath Co. Council
27/08/2013	Castlepollard	Mullingar WWTP Sludge Building	25.84	1.6	WCC	Westmeath Co. Council
05/09/2013	Castlepollard	Mullingar WWTP Sludge Building	27.7	1.8	WCC	Westmeath Co. Council
10/09/2013	Castlepollard	Mullingar WWTP Sludge Building	26.34	2.2	WCC	Westmeath Co. Council
12/09/2013	Castlepollard	Mullingar WWTP Sludge Building	27.26	1.9	WCC	Westmeath Co. Council

Exported Cake Sludge Record						
Date	**Origin of Product**	**Destination**	**Weight (Tonne)**	**% TDS**	**Delivered By**	**On behalf of**
07/01/2013	Castlepollard	Mullingar WWTP Sludge Building	12.62	8.4	Ormonde Organics	Westmeath Co. Council
23/01/2013	Castlepollard	Mullingar WWTP Sludge Building	13.3	10.9	Ormonde Organics	Westmeath Co. Council
04/02/2013	Castlepollard	Mullingar WWTP Sludge Building	12.98	10.8	Ormonde Organics	Westmeath Co. Council
15/04/2013	Castlepollard	Mullingar WWTP Sludge Building	13.72	11.6	Ormonde Organics	Westmeath Co. Council
18/04/2013	Castlepollard	Mullingar WWTP Sludge Building	12.1	11.1	Ormonde Organics	Westmeath Co. Council
02/05/2013	Castlepollard	Mullingar WWTP Sludge Building	11.5	13.3	Ormonde Organics	Westmeath Co. Council
22/05/2013	Castlepollard	Mullingar WWTP Sludge Building	11.12	17	Ormonde Organics	Westmeath Co. Council
26/06/2013	Castlepollard	Mullingar WWTP Sludge Building	11.78	10.9	Ormonde Organics	Westmeath Co. Council
28/06/2013	Castlepollard	Mullingar WWTP Sludge Building	7.94	10.5	Ormonde Organics	Westmeath Co. Council
04/07/2013	Castlepollard	Mullingar WWTP Sludge Building	11.9	11.8	Ormonde Organics	Westmeath Co. Council
18/07/2013	Castlepollard	Mullingar WWTP Sludge Building	11.56	12	Ormonde Organics	Westmeath Co. Council
25/07/2013	Castlepollard	Mullingar WWTP Sludge Building	12.26	11.8	Ormonde Organics	Westmeath Co. Council
08/08/2013	Castlepollard	Mullingar WWTP Sludge Building	12.34	11.8	Ormonde Organics	Westmeath Co. Council
13/08/2013	Castlepollard	Mullingar WWTP Sludge Building	12.06	11.2	Ormonde Organics	Westmeath Co. Council
27/08/2013	Castlepollard	Mullingar WWTP Sludge Building	13.04	12.9	Ormonde Organics	Westmeath Co. Council
02/09/2013	Castlepollard	Mullingar WWTP Sludge Building	11.82	10.7	Ormonde Organics	Westmeath Co. Council
05/09/2013	Castlepollard	Mullingar WWTP Sludge Building	13.26	11.8	Ormonde Organics	Westmeath Co. Council
10/09/2013	Castlepollard	Mullingar WWTP Sludge Building	12.04	11.4	Ormonde Organics	Westmeath Co. Council
13/09/2013	Castlepollard	Mullingar WWTP Sludge Building	9.52	14.1	Ormonde Organics	Westmeath Co. Council
20/09/2013	Castlepollard	Mullingar WWTP Sludge Building	14.22	11.3	Ormonde Organics	Westmeath Co. Council
04/10/2013	Castlepollard	Mullingar WWTP Sludge Building	13.88	15	Ormonde Organics	Westmeath Co. Council
23/10/2013	Castlepollard	Mullingar WWTP Sludge Building	15.54	12.6	Ormonde Organics	Westmeath Co. Council
14/11/2013	Castlepollard	Mullingar WWTP Sludge Building	13.72	11.4	Ormonde Organics	Westmeath Co. Council
18/12/2013	Castepollard	Mullingar WWTP Sludge Building	10.28	11.4	Ormonde Organics	Westmeath Co. Council

Appendix 6:

Removal Efficiency Report

Castlepollard Removal Efficiency

2013	In	Out	BOD	In	Out	COD	In	Out	S.S.	In	Out	T.N.	In	Out	T.P.
	CBOD	CBOD	Removal	COD	COD	Removal	S.S	S.S	Removal	TN	TN	Removal	TP	TP	Removal
	mg/l	mg/l	Efficiency	mg/l	mg/l	Efficiency	mg/l	mg/l	Efficiency	mg/lN	mg/lN	Efficiency	mg/lP	mg/lP	Efficiency
Jan	27.9	1.82	**93**	99	4	**96**	58	6	**89**	8	7.1	**11**	1.4	0	**89**
Feb	66	1.7	**97**	170	18	**89**	330	6	**98**	14	7.6	**46**	2.3	0.14	**94**
Mar	55.8	4.24	**92**	106	18	**83**	41	14.4		21	16	**24**	2.8	0.25	**91**
Apr	20.85	2.02	**90**	137	9	**93**	224	1	**100**	19	18.3		4	0.14	**97**
May	37.5	1.42	**96**	115	43	**63**	11	2.8	**75**	26	23.2	**11**	3.5	0.2	**94**
Jun	153	2	**99**	459	25	**95**	322	1.2	**100**	93	26	**72**	11.6	0.28	**98**
Jul	535	2.35	**100**	723	50	**93**	980	17.2	**98**	116	35	**70**	5.1	0.62	**88**
Aug	126	2.55	**98**	310	21	**93**	71	10	**86**	39	33	**15**	6.5	0.3	**95**
Sep	168.8	11.79	**93**	407	98	**76**	135	25.2	**81**	47	44		7.1	0.61	**91**
Oct	88	6	**93**	183	46	**75**	52	12	**77**	31	26	**16**	3.7	0.23	**94**
Nov	96	2.54	**97**	217	30	**86**	53	1.2	**98**	22	16	**27**	2.2	0.2	**91**
Dec	105	1.57	**99**	210	37	**82**	290	1	**100**	25	11.6	**54**	3.6	0.24	**93**
SI 254 of 2001 minimum % reduction	**70-90**			**75**			**90**			**70-80**			**80**		
Average Removal Efficiency	**96**			**84**			**91**			**37**			**93**		
Results	**Pass**			**Pass**			**Pass**			**Fail**			**Pass**		

Appendix 7:

Pollutant Release and Transfer Register

| PRTR# : D0105 | Facility Name : Castlepollard Waste Water Treatment Plant | Filename : D0105_2013.xls | Return Year : 2013 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013

1. FACILITY IDENTIFICATION

Parent Company Name	Westmeath County Council
Facility Name	Castlepollard Waste Water Treatment Plant
PRTR Identification Number	D0105
Licence Number	D0105-01

Waste or IPPC Classes of Activity

No.	class_name
30.4	General

Address 1	County Buildings
Address 2	Mount Street
Address 3	Mullingar
Address 4	Co. Westmeath
Country	Ireland
Coordinates of Location	-7.321 53.668
River Basin District	IEGBNISH
NACE Code	3700
Main Economic Activity	Sewerage
AER Returns Contact Name	Catherine McDonough
AER Returns Contact Email Address	cmcdonough@westmeathcoco.ie
AER Returns Contact Position	A/Executive Technician
AER Returns Contact Telephone Number	044 9332123
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?	No
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) ?	

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : D0105 | Facility Name : Castlepollard Waste Water Treatment Plant | Filename : D0105_2013.xls | Return Year : 2013 | 20/02/2014 11:09

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	12914.0	0.0	12914.0
05	Nitrous oxide (N2O)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
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
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					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) flare 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: Castlepollard 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	

4.2 RELEASES TO WATERS Link to previous years emissions data | PRTR# : D0105 | Facility Name : Castlepollard Waste Water Treatment Plant | Filename : D0105_2013.xls | Return Year : 2013 | 20/02/2014 11:10

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 or

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	0.001	0.001	0.0	0.0
17	Arsenic and compounds (as As)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.11	0.11	0.0	0.0
27	Atrazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
62	Benzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0
91	Benzo(g,h,i)perylene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	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	0.052	0.052	0.0	0.0
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	10490.783	10490.783	0.0	0.0
31	Chloro-alkanes, C10-C13	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.041	0.041	0.0	0.0
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	0.155	0.155	0.0	0.0
20	Copper and compounds (as Cu)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.582	0.582	0.0	0.0
82	Cyanides (as total CN)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.568	0.568	0.0	0.0
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	0.178	0.178	0.0	0.0
35	Dichloromethane (DCM)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.009	0.009	0.0	0.0
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	0.005	0.005	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	0.003	0.003	0.0	0.0

88	Fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
83	Fluorides (as total F)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	45.553	45.553	0.0	0.0
40	Halogenated organic compounds (as AOX)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.463	0.463	0.0	0.0
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	0.001	0.001	0.0	0.0
23	Lead and compounds (as Pb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.589	0.589	0.0	0.0
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	0.0	0.0	0.0
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	0.001	0.001	0.0	0.0
22	Nickel and compounds (as Ni)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.825	0.825	0.0	0.0
64	Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.016	0.016	0.0	0.0
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	0.176	0.176	0.0	0.0
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	0.002	0.002	0.0	0.0
51	Simazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0
52	Tetrachloroethylene (PER)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.011	0.011	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	0.096	0.096	0.0	0.0
12	Total nitrogen	M	OTH	HACH	4260.669	4260.669	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	1787.188	1787.188	0.0	0.0
13	Total phosphorus	M	OTH	HACH	54.276	54.276	0.0	0.0
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	0.022	0.022	0.0	0.0
24	Zinc and compounds (as Zn)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	9.569	9.569	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 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	0.0	0.0	0.0
205	Antimony (as Sb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.03	0.03	0.0	0.0
368	Molybdenum	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
358	Tin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.028	0.028	0.0	0.0
373	Barium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	2.567	2.567	0.0	0.0
374	Boron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	11.846	11.846	0.0	0.0
356	Cobalt	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.034	0.034	0.0	0.0
386	Vanadium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.529	0.529	0.0	0.0
388	Dichlobenil	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.001	0.001	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	0.021	0.021	0.0	0.0
380	2,4 Dichlorophenol (2,4 D)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.01	0.01	0.0	0.0
384	MCPA	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.017	0.017	0.0	0.0
382	Glyphosate	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.297	0.297	0.0	0.0
389	Benzo[a]pyrene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
390	Benzo[b]fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0

391	Benzo[k]fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
392	Indeno[1,2,3-c,d]pyrene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	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	0.016	0.016	0.0	0.0
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	HACH	248.119	248.119	0.0	0.0
303	BOD	M	OTH	DO Prob	486.546	486.546	0.0	0.0
306	COD	M	OTH	HACH	5369.451	5369.451	0.0	0.0
362	Kjeldahl Nitrogen	M	OTH	HACH	1132.043	1132.043	0.0	0.0
327	Nitrate (as N)	M	OTH	HACH	3208.102	3208.102	0.0	0.0
372	Nitrite (as N)	M	OTH	HACH	35.473	35.473	0.0	0.0
332	Ortho-phosphate (as PO4)	M	OTH	HACH	89.152	89.152	0.0	0.0
240	Suspended Solids	M	OTH	Standard methods for SS	1240.595	1240.595	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

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	0.0	screenings	D1	M	Volume Calculation	Offsite in Ireland	Wallace Recycling ,W0197-02	Mullingar Business Park.,Mullingar Business Park.,Co Westmeath,.,Ireland		
Within the Country	19 08 05	No	484.38	sludges from treatment of urban waste water	R10	M	Weighed	Offsite in Ireland	SEDE Irleand,.	Unit 26,IDA Ind Estate,Kilkenny,.,Ireland		
Within the Country	19 08 05	No	0.0	sludges from treatment of urban waste water	R10	M	Weighed	Offsite in Ireland	Kinnegad WWTP,D0104-01	Kinnegad WWTP,.,Kinnegad,Westmeath,Ireland		

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