Monaghan County Council, Inniskeen Waste Water Treatment Plant – Annual Environmental Report 2010

#### MONAGHAN COUNTY COUNCIL



# WASTE WATER DISCHARGE LICENCE REGISTER NUMBER: D0348 AGGLOMERATION: Inniskeen Town ANNUAL ENVIRONMENTAL REPORT 1st JANUARY 2010 - 31st DECEMBER 2010

A/County Manager: D Fallon Director of Services: D Fallon

Inniskeen Waste Water Treatment Plant – Annual Environmental Report 2010

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#### **Monaghan County Council Water Services Section**

Annual Environmental Report 2010

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#### 1.1 Introduction.

This is the first Annual Environmental Report (AER) for Inniskeen Town Waste Water Treatment Plant.

The Environmental Protection Agency granted a Waste Water Discharge Licence (Register No. D0348) in respect of the agglomeration named to Monaghan County Council on the 10th Feb 2011.

The purpose of this Annual Environmental Report (AER) is to provide a summary of activities relevant to the discharges from 1st January 2010 to the 31st December 2010 as required by Condition 6.11. The Annual Environmental Report (AER) for Inniskeen Agglomeration includes the information specified in Schedule D of the Wastewater Discharge Licence D0348

The AER content and has been prepared in accordance with the Environmental Protection Agency (EPA) publications: - "Guidance on the preparation & Submission of the 2009 Annual Environmental Report (AER) for Waste Water Discharge Licences" And .......

'A Step-by-Step Guide to reporting by EPA licensed facilities of AER/PRTR Emissions Data and the Annual Environmental Report'.

#### 1.2 Site Information.

Inniskeen is located near the County Louth border in the extreme south eastern corner of County Monaghan. It is approximately 10.5 km from the nearest large town of Carrickmacross and is 16 km west of Dundalk in County Louth. The population equivalent of Inniskeen village was last estimated at approximately 979 persons. This figure is based Census 2006 data. The domestic population growth rate and population projection over the period of the licences are based on the population change between 2002 and 2006 (Census 2006) of 2.4%. The duration of the licence is 6 years therefore based on the latter; a growth rate of 3.6% is predicted, giving a protected population of 1014 (excluding pending planning permissions).

#### 1.3 Description of Wastewater Treatment Works

The Waste Water Works comprises a network of gravity sewers, a pumping station and associated rising main and a Waste Water Treatment Works with a design capacity of 1750 P.E. The current load is approximately 979 PE (based on Census data 2006). The plant provides secondary treatment with nutrient removal (phosphorus reduction) for the effluent. The treated effluent has an average BOD concentration of 4.7mg/l and average suspended solids concentration of 7 mg/l. Average concentrations of nutrients are as follows; orthophosphate 0.9 mg/l (P), Total Phosphorus 0.9 mg/l (P) and Total Nitrogen 7.4 mg/l (N).

#### 1.4 Description of receiving aqueous environment

The outfall from the Inniskeen Waste Water Plant discharges to the River Fane at National Grid Reference 293924E 306703N in the Townland of Lacklom, Co Monaghan. The associated Waste Water Treatment Plant is located at 293924E 306661N also in the townland Lacklom, Co Monaghan The River Fane is not a designated Salmonid water (under the European Communities (Quality of Salmonid Waters) Regulations, 1988) nor is it identified as sensitive water in terms of the Urban Waste Water Treatment Regulations 2001. The river is not designated as an SPA, SAC or NHA. However, it is a valuable salmonid river and contains good stocks of wild brown trout and salmon throughout. There is no flow monitoring data available at the outfall location. However, OPW has flow records for the River Fane at Moyles Mill (NGR 292049, 307808; Station No. 06011) located upstream of the outfall location. The 95-percentile flow (m3/s) is given as 0.20, the average flow as 4.027 (m3/s) and the 50 percentile flow (m3/s) as 2.87 (m3/s). A Q value of 3-4 was recorded upstream of the discharge point (Inniskeen Bridge Station No. 0650) in 2004. A previous Q value of 4 was recorded at this location in 2000 and 1997. EPA Physiochemical water quality monitoring data at this site from 2001 and 2003 gave a median BOD level of 1.6mg O2/I, Ortho-phosphate level 0.02mg P/I, Oxidised Nitrogen 0.9 mg N/I and Total Ammonia level of <0.03 mg N/l. A Q value of 4 was recorded downstream of the discharge point at Castlering Bridge (Station Number 0700) in 2003. EPA Physiochemical water quality monitoring data at this site from 2001 and 2003 gave a median BOD level of 1.4mg O2/I, Ortho-phosphate level 0.04mg P/I, Oxidised Nitrogen 1.2 mg N/I and Total Ammonia level of <0.03 ma N/I.

Monaghan County Councils upstream monitoring results indicate relatively good water quality in the river, with the average orthophosphate level recorded at 0.018 mg/l P, average ammonia levels of 0.12 mg/l NH3-N and average BOD of <2 mg/l. Dangerous substances concentrations were below detection level for 14 of the 19 parameters tested in February 2009. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

Results from the downstream monitoring site (aSW1(P)d) indicates generally good water quality with average orthophosphate levels of 0.045 mg/l P recorded for 2007 and 2008, average ammonium 0.25 mg/l NH3-N, and average BOD of 0.9 mg/l. Dangerous substances concentrations were below detection level for 13 of the 19 parameters tested in February 2009. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

The assimilative capacity calculations indicate that there is significant dilution capacity within the receiving water, even at low flows, to assimilate discharges from the Waste Water Works. The results of the assimilative capacity are consistent with the physiochemical water quality monitoring results (EPA and Monaghan County Council Data) and indicate that the discharges from the works are not having a significant detrimental impact on the receiving environment.

The Waste Water Treatment Plant (WWTP) which provides treatment for a design load of 1750 population equivalent comprises aeration by mechanical

surface aerators followed by settlement and clarification and tertiary treatment to reduce phosphate levels. The plant is designed to produce a fully nitrified effluent of 10:10mg/l BOD: Suspended Solids. Sludge dewatering is provided by thickening the sludge in a picket fence thickener followed by dewatering on a sludge belt press.

#### 2.1 Discharge Points

Discharge Point Ref.	Discharge	Easting	Northing	Description
SW1P	Primary	293963	306678	To FANE via 150mm DI UPVC pipe
SW2 Emergency overflow	Secondary	293926	306701	To FANE via 225mm from storm tanks Concrete pipe
Mullens Pumping station overflow	Drumass road	293358	306997	To FANE via 150mm DI UPVC pipe

#### 2.1.1 Effluent Outfall (Primary Discharge) (Ref. SW1)

The existing outfall (150mm DI concrete pipe) is discharging the treated effluent into the Fane River adjacent to the treatment works location.

#### 2.1.2 Storm Tanks (Secondary Discharge) (Ref. SW2)

The storm tanks for the treatment works are located on the treatment works site. The storm tanks have a storage capacity of 150 m3 (15.5x5.6x1.75m deep to lip of overflow pipe). This equates to a storage capacity of 12 hours at 3DWF for 1750 p.e (300m3). Under actual DWF (measured 21st. March 2011 at 130m3/day), the capacity of the storm tank is over 24 hours. Under storm conditions, the discharge pipe from the storm tanks to the inlet works is manually shut, and hence storm water accumulates in the storm tanks. Once the tanks are full, the storm water overflows to the Fane River via a 300mm uPVC emergency overflow pipe.

#### 3.1 Summary of Monitoring Data

#### **3.1.1** Flow rates

Table below details flow data relating to inflow to plant in 2011.

Date	Inlet flow (m3/day)
24 feb 2011	516 (wet weather)
27 feb 2011	333 (wet weather)
28 feb 2011	340 (wet weather)
1 March 2011	280 (wet weather)
13 march 2011	170
14 march 2011	142
15 march 2011	165
16 march 2011	174
17 march 2011	157
18 march 2011	135 (Dry weather)
19 march 2011	135 (Dry weather)
20 march 2011	135 (Dry weather)
21 march 2011	124 (Dry weather)
22 march 2011	129 (Dry weather)

#### 3.1.2 Influent Monitoring

Table below details the monitoring results for Influent samples taken in 2010.

Influent characteristic into STW:

Date of Sampling	Sample Type (C or G)	BOD mg/l	COD mg/l	TSS mg/l	Total P mg/l P	Ortho P mg/l P	Total N mg/l N	N mg/l N
06/02/2010	С	16.0	59	31	1.22	0.41	0.62	8.08
25/02/2010	С	52.0	106	31	1.53	0.51	17.36	11.67
31/03/2010	С	110.0	507	106	4.46	1.49	31.92	17.92
29/04/2010	С	115.0	224	57	4.70	1.57	0.12	37.42
28/05/2010	С	450.0	1815	774	13.41	4.47	0.12	85.25
24/06/2010	С	349.0	761	376	6.76	2.25	0.12	34.54
29/07/2010	С	546.0	1700	684	5.93	1.96	0.12	67.99
25/08/2010	С	320.0	504	99	7.76	2.59	76.84	67.70
11/10/2010	С	131.0	328	98	1.61	0.54	0.12	14.20
24/11/2010	С	315.0	612	132	3.67	1.22	0.12	15.37
14/12/2010	С	238.0	451	153	3.10	1.03	22.43	19.22

#### 3.2.1 Primary Discharge (Effluent) Monitoring

Table below details the monitoring results for Primary Discharge samples taken in 2010 at ISCO auto composite refrigerated sampler (E 293916, N 306660):

Effluent characteristic results, Primary discharge:

Date of Sampling	Sample Type (C or G)	BOD mg/l	COD mg/l	TSS mg/l	Total P mg/l P	Ortho P mg/l P	Total N mg/l N	N mg/l N
06/02/2010	С	2.0	7	2	0.71	0.24	8.98	0.15
06/02/2010	G	2.0	16	6	0.04	0.01	1.48	0.01
06/02/2010	G	2.0	21	6	0.04	0.01	1.51	0.02
25/02/2010	С	2.0	11	2	1.62	0.54	14.99	0.08
25/02/2010	G	2.0	11	2	0.04	0.01	3.25	0.02
25/02/2010	G	2.0	12	4	0.06	0.02	3.27	0.02
31/03/2010	С	2.0	20	2	2.99	1.00	24.73	0.10
31/03/2010	G	2.0	26	4	0.06	0.02	5.31	0.01
31/03/2010	G	3.0	27	15	0.07	0.02	5.71	0.05
29/04/2010	С	2.0	17	2	3.53	1.18	22.88	0.05
29/04/2010	G	2.0	26	2	0.03	0.01	0.73	0.09
29/04/2010	G	2.0	27	2	0.05	0.01	0.81	0.09
28/05/2010	С	2.0	32	2	6.79	2.26	50.19	0.30
28/05/2010	G	2.0	17	2	0.03	0.01	0.07	0.07
28/05/2010	G	2.0	7	4	0.04	0.01	0.07	0.07
24/06/2010	С	2.0	21	7	1.45	0.48	32.54	0.05
24/06/2010	G	2.0	23	5	0.12	0.04	0.56	0.04
24/06/2010	G	2.0	24	5	0.13	0.04	0.57	0.04
29/07/2010	С	2.0	6	3	2.69	0.90	19.27	0.01
29/07/2010	G	2.0	12	9	0.04	0.01	0.15	0.04
29/07/2010	G	2.0	16	4	0.04	0.01	0.12	0.05
25/08/2010	С	2.0	18	3	3.96	1.32	25.78	0.26
25/08/2010	G	2.0	18	2	0.05	0.01	2.35	0.03
25/08/2010	G	2.0	21	3	0.05	0.02	1.27	0.05
11/10/2010	С	2.0	8	2	1.16	0.39	11.65	0.01
11/10/2010	G	2.0	38	3	0.07	0.02	0.92	0.01
11/10/2010	G	2.0	37	2	0.10	0.03	1.44	0.01
24/11/2010	С	2.0	11	2	0.11	0.04	10.68	0.05
24/11/2010	G	2.0	22	2	0.06	0.02	2.46	0.01
24/11/2010	G	2.0	22	2	0.05	0.02	3.03	0.01
14/12/2010	С	3.0	7	2	0.49	0.16	11.84	0.01
14/12/2010	G	2.0	3	18	0.06	0.02	2.94	0.01
14/12/2010	G	3.0	17	3	0.07	0.02	3.52	0.01

#### 3.3.1 Ambient Monitoring – Receiving Water Upstream

Table below details the monitoring results for Receiving Water Upstream samples taken in 2010, 20m upstream of Outfall, (E293947, N 306689),

Date of Sampling	Sample Type (C or G)	BOD mg/l	COD mg/l	TSS mg/l	Total P mg/l P	Ortho P mg/l P	Total N mg/l N	N mg/l N
06/02/2010	G	2.0	16	6	0.04	0.01	1.48	0.01
25/02/2010	G	2.0	11	2	0.04	0.01	3.25	0.02
31/03/2010	G	2.0	26	4	0.06	0.02	5.31	0.01
29/04/2010	G	2.0	26	2	0.03	0.01	0.73	0.09
28/05/2010	G	2.0	17	2	0.03	0.01	0.07	0.07
24/06/2010	G	2.0	23	5	0.12	0.04	0.56	0.04
29/07/2010	G	2.0	12	9	0.04	0.01	0.15	0.04
25/08/2010	G	2.0	18	2	0.05	0.01	2.35	0.03
11/10/2010	G	2.0	38	3	0.07	0.02	0.92	0.01
24/11/2010	G	2.0	22	2	0.06	0.02	2.46	0.01
14/12/2010	G	2.0	3	18	0.06	0.02	2.94	0.01

#### 3.3.2 Ambient Monitoring – Receiving Water Downstream

Table below details the monitoring results for Receiving Water Downstream samples taken in 2010, 20m down stream of outfall (E 293979, N 306665)

Date of Sampling	Sample Type (C or G)	BOD mg/l	COD mg/l	TSS mg/l	Total P mg/l P	Ortho P mg/l P	Total N mg/l N	N mg/l N
06/02/2010	G	2.0	21	6	0.04	0.01	1.51	0.02
25/02/2010	G	2.0	12	4	0.06	0.02	3.27	0.02
31/03/2010	G	3.0	27	15	0.07	0.02	5.71	0.05
29/04/2010	G	2.0	27	2	0.05	0.01	0.81	0.09
28/05/2010	G	2.0	7	4	0.04	0.01	0.07	0.07
24/06/2010	G	2.0	24	5	0.13	0.04	0.57	0.04
29/07/2010	G	2.0	16	4	0.04	0.01	0.12	0.05
25/08/2010	G	2.0	21	3	0.05	0.02	1.27	0.05
11/10/2010	G	2.0	37	2	0.10	0.03	1.44	0.01
24/11/2010	G	2.0	22	2	0.05	0.02	3.03	0.01
14/12/2010	G	3.0	17	3	0.07	0.02	3.52	0.01

Amalgamated table below relating Influent to Effluent to Upstream (USW) to Downstream (DSW) results:

Influent Sample Or Effluent Date of Type (C **Total P** Ortho P Total N Sampling or G) BOD mg/l COD mg/l TSS mg/l mg/I P mg/I P mg/I N N mg/l N Influent 06/02/2010 С 16.0 59 31 1.22 0.41 0.62 8.08 С 7 06/02/2010 2.0 2 8.98 0.15 Effluent 0.71 0.24 USW 06/02/2010 G 2.0 16 6 0.04 0.01 1.48 0.01 DSW 06/02/2010 G 2.0 21 6 0.04 0.01 1.51 0.02 Influent 25/02/2010 С 52.0 106 31 1.53 0.51 17.36 11.67 С 2 25/02/2010 2.0 Effluent 11 1.62 0.54 14.99 0.08 G 2 USW 25/02/2010 2.0 11 0.04 0.01 3.25 0.02 3.27 DSW 25/02/2010 G 2.0 12 4 0.06 0.02 0.02 31/03/2010 С 110.0 507 106 4.46 1.49 31.92 17.92 Influent Effluent 31/03/2010 С 2.0 20 2 2.99 1.00 24.73 0.10 4 USW 31/03/2010 G 2.0 26 0.06 0.02 5.31 0.01 G 15 0.07 DSW 31/03/2010 3.0 27 0.02 5.71 0.05 0.12 Influent 29/04/2010 С 115.0 224 57 4.70 1.57 37.42 Effluent 29/04/2010 С 2.0 17 2 3.53 1.18 22.88 0.05 G 2 USW 29/04/2010 2.0 0.03 0.01 26 0.73 0.09 29/04/2010 G 2.0 2 0.05 DSW 27 0.01 0.81 0.09 28/05/2010 С 450.0 1815 774 13.41 4.47 Influent 0.12 85.25 28/05/2010 С 2.0 32 2 6.79 2.26 50.19 0.30 Effluent USW 28/05/2010 G 2.0 17 2 0.03 0.01 0.07 0.07 7 DSW 28/05/2010 G 2.0 4 0.04 0.01 0.07 0.07 24/06/2010 С Influent 349.0 761 376 6.76 2.25 0.12 34.54 24/06/2010 С 21 7 32.54 Effluent 2.0 1.45 0.48 0.05 5 USW 24/06/2010 G 2.0 23 0.12 0.04 0.56 0.04 DSW 24/06/2010 G 2.0 24 5 0.13 0.04 0.57 0.04 С Influent 29/07/2010 546.0 1700 684 5.93 1.96 0.12 67.99 Effluent 29/07/2010 С 2.0 6 3 2.69 0.90 19.27 0.01 USW 29/07/2010 G 2.0 12 9 0.04 0.01 0.15 0.04 DSW 29/07/2010 G 2.0 16 4 0.04 0.01 0.12 0.05 25/08/2010 С 320.0 504 2.59 Influent 99 7.76 76.84 67.70 С 25/08/2010 2.0 3 3.96 1.32 25.78 Effluent 18 0.26 <u>0.</u>01 USW 25/08/2010 G 2.0 18 2 0.05 2.35 0.03 25/08/2010 2.0 21 3 0.05 1.27 DSW G 0.02 0.05 11/10/2010 С 131.0 328 98 1.61 0.54 0.12 Influent 14.20 Effluent 11/10/2010 С 2.0 8 2 1.16 0.39 11.65 0.01 USW 11/10/2010 G 2.0 38 3 0.07 0.02 0.92 0.01 DSW 11/10/2010 G 2.0 37 2 0.10 0.03 1.44 0.01 24/11/2010 С 315.0 612 132 3.67 1.22 0.12 15.37 Influent С Effluent 24/11/2010 2.0 11 2 0.11 0.04 10.68 0.05 USW 24/11/2010 G 2.0 22 2 0.06 0.02 2.46 0.01 G DSW 24/11/2010 2.0 22 2 0.05 3.03 0.01 0.02 Influent 14/12/2010 С 238.0 451 153 3.10 1.03 22.43 19.22 Effluent 14/12/2010 С 3.0 7 2 0.49 0.16 11.84 0.01 G 3 18 2.94 USW 14/12/2010 2.0 0.06 0.02 0.01 3 DSW 14/12/2010 G 3.0 17 0.07 3.52 0.02 0.01

Table below relating bacteria to the Influent to Effluent to Upstream (USW) to Downstream (DSW) results:

		E Coli	Coliforms (Faecal)	Enterococci
Influent	11/10/2010	4800.00	4150.00	2120.00
Effluent	11/10/2010	1098.00	942.00	132.00
USW	11/10/2010			
DSW	11/10/2010			
Influent	24/11/2010			
Effluent	24/11/2010	67.00	546.00	35.00
USW	24/11/2010			
DSW	24/11/2010	666	680	20

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

It is confirmed that the annual urban waste water information for agglomerations and treatment plants with a population equivalent greater than 500 is submitted in electronic format on an annual basis.

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

This information was submitted electronically via the EPA website. Both the AER / PRTR Emissions Data information (i.e. all relevant worksheets including the "Facility ID & Activities" sheet) is printed out and included at the end of this AER in Appendix 1.

**3.6 Pollutant Release and Transfer Register - proposal for current year** This requirement is covered under the electronic submission in 3.5 above.

#### 3.7 Abstraction Points

There is a drinking water abstraction point downstream of the discharge points at Stephentown (u/s of Stephentown Bridge) (301115E, 301607N). The EPA water quality monitoring data for 2001-2003 at Castlering Br (u/s of abstraction point and d/s of discharge point) would indicate that discharge does not impact significantly on the water environment.

The impact of the discharge from the wastewater treatment plant in Inniskeen has been calculated in the Assimilative Capacity calculations in main application previously. These results show that the impact of the discharge can be assimilated into the river and will not have a pollution effect over long distances and is therefore of **minimal risk** to drinking water contamination:

Dundalk currently using 18,454 m3/d Approx 10km to abstraction point 301115 301607 N

#### **4.1.1 Complaints Summary**

There were no complaints of an environmental nature related to the discharge(s) to waters from the waste water works.

#### 4.1.2 Reported Incidents Summary

There were no recorded incidents.

Date &	Incident	Authorities	Corrective	Closed (Y/N)
Time	Description	Contacted	Action	
None	None	None	None	None

#### 4.1.3 Notices of Non-Compliance

There were no Notices of Non-Compliance issued by the Agency in 2010.

#### 5. Infrastructural Assessments and Programme of Improvements.

#### **5.1 Treatment Capacity**

Under the terms of Condition 1.7.1 of the licence, the licensee shall on an annual basis undertake an assessment of the remaining organic and hydraulic treatment capacities within the waste water works (design capacity of plant, less flow-load calculation for representative period). Please include this report as part of the AER.

#### Determination of the Population Equivalent load to the WWTP.

With the limited information available it appears that

PE= Av Flow x BOD / (BOD/person 60g with units correction- 1000)

 $PE = (245 \times 240)/(0.06 \times 1000) = 980pe$ 

The data available is not sufficient to generate an accurate PE figure for the 2010 report.

#### 5.2 Storm water overflow identification and inspection report

Under the terms of Condition 4.12 of the licence, the licensee shall carry out an investigation for the identification and assessment of storm water overflows.

This report is not required until the second AER and will be submitted then.

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

Under the terms of Condition 5 of the licence, the licensee shall submit to the Agency a programme of infrastructural improvements to maximize the effectiveness and efficiency of the waste water works.

This report is not required until the second AER and will be submitted then.

#### 6.1 Annual Statement on Prevention of Environmental Damage.

Condition 7.2.1 Environmental Liabilities of Licence states:

"The licensee shall as part of the **AER** provide an annual statement as to the

measures taken or adopted in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with discharges or overflows from the waste water works."

#### **Submission**

An Environmental Liabilities Risk Assessment (ELRA) will be carried out.

#### 7. Licence Specific Reports

The following reports are required by the Licence: -

7.1.1 Condition 4.12 of Licence relates to Storm water overflows.

#### 4.12.1—Identification & Assessment of Storm water overflows

"The licensee shall, prior to the date for submission of the **second AER** (required under Condition 6.11), carry out an investigation for the identification and assessment of storm water overflows. A report on the storm water overflows shall be submitted to the Agency as part of the second AER. The assessment shall include a determination of compliance with the criteria for storm water overflows, as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency".

#### **Submission**

A report shall be submitted as part of the second AER

#### 7.1.2 4.12.2—Ongoing Assessment of Storm Water Overflows

"The licensee shall carry out an assessment of storm water overflows at least once every three years thereafter and report to the Agency on each occasion as part of the **AER**. The assessment shall include a determination of compliance with the criteria for storm water overflows, as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency. The licensee shall maintain a written record of all assessments and remedial measures arising from the assessment".

#### **Submission**

Reports shall be submitted subsequent to the second AER

#### 7.2 Condition 4.13 of Licence relates to PRTR Report

"The licensee shall prepare a PRTR report for the primary and secondary discharges. The substances to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulation No. 166/2006 concerning the establishment of the European Pollutant and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC. The PRTR shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the **AER**"

#### **Submission**

A PRTR report has been submitted electronically to the Agency and the printed Worksheets are attached at the end of this AER.

#### 7.3 Condition 5.1 relates to Infrastructural Improvements

"The licensee shall, as a part of the **second AER** (required under Condition 6.11), prepare and submit to the Agency a programme of infrastructural improvements to maximise the effectiveness and efficiency of the waste water works in order to:

- a) achieve improvements in the quality of all discharges from the works;
- b) meet the emission limit values specified in Schedule A; Discharges, of this licence:
- c) give effect to Regulation 2 of the Waste Water Discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007);
- d) reduce total phosphorous loadings in the discharge to the maximum practicable

extent:

- e) reduce Total Phosphorus loadings in the discharge to the maximum practicable extent;
- f) meet the obligations of Condition 1.7".

#### **Submission**

A report shall be submitted as part of the second AER

## 7.4 Condition 6.8 relates to Public Awareness and Communications Programme

"The licensee shall establish and maintain a Public Awareness and Communications Programme...."

#### **Submission**

This has not been established but will be by Q3 2011.

#### 7.5 Condition 6.11 relates to Submission of AER

"The licensee shall submit to the Agency, by the 28<sup>th</sup> February of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule D: Annual Environmental Report, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency".

#### **Submission**

This is the AER report required to be submitted which is 3 weeks late in submission.

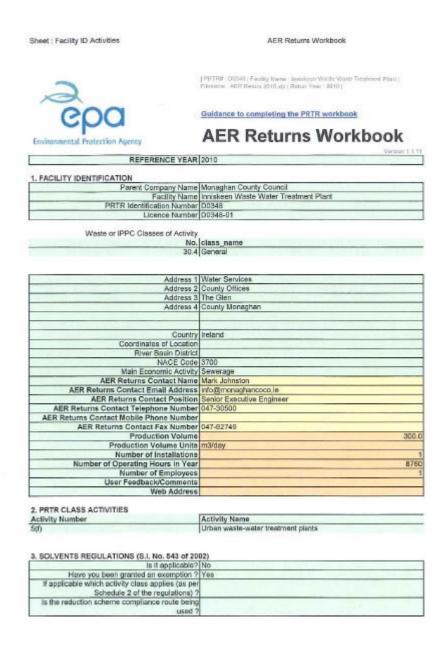
## 7.6 Condition 7.2.1 relates to Statement on the prevention of environmental damage.

"The licensee shall as part of the **AER** provide an annual statement as to the measures taken or adopted in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with discharges or overflows from the waste water works."

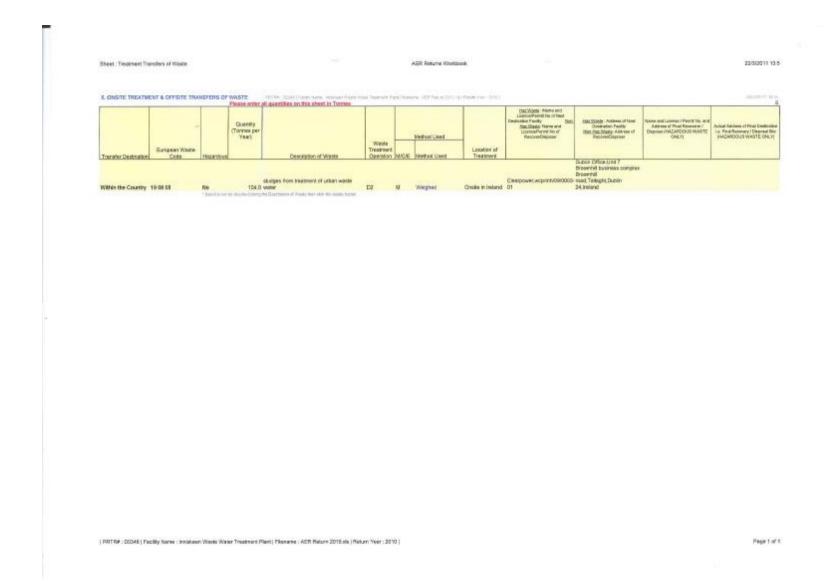
#### **Submission**

This is discussed in Section 6.1 above.

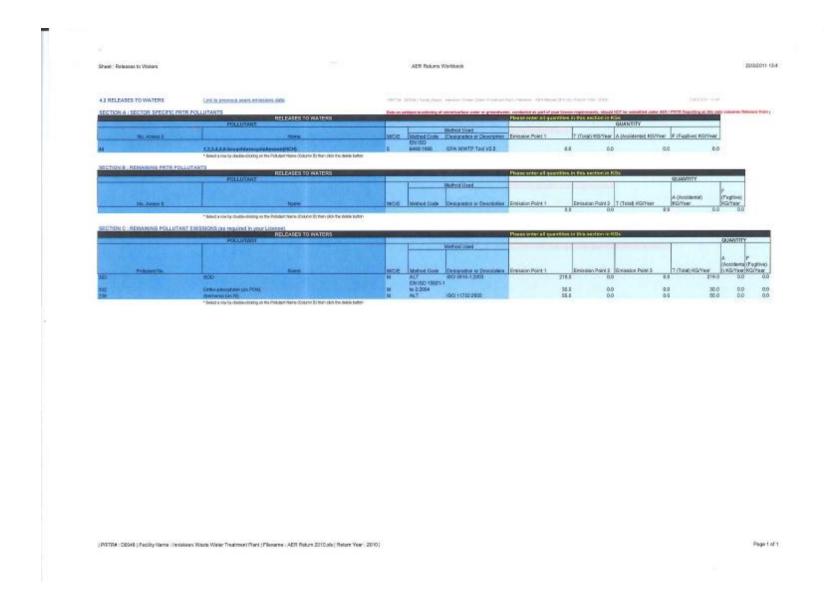
## **Appendix 1 Pollutant Release and Transfer Register.**



#### MONAGHAN COUNTY COUNCIL



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