

Administration  
Environmental Licensing Programme,  
Office of Climate, Licensing & Resource Use,  
Environmental Protection Agency  
Headquarters  
PO Box 3000  
Johnstown Castle Estate  
County Wexford.

8<sup>th</sup> October 2008.

**RE:- WWDL FOR BLARNEY REF NO.D0043-01.**

**Additional information in Response to Notice in accordance with Regulation 18(3)(b) of the Waste Water Discharge (Authorisation) Regulations 2007 –**

Dear Ms Donlon,

I refer to your e mail of the 18<sup>th</sup> September 2008 concerning above. The following is our reply to your request for clarification of the further information submitted in accordance with Regulation 18(3) (b) . the issues are clarified in numbered sequence with the points raised in the e mail : Note all responses are in blue text

1. Give the year that the Blarney WWTP upgrade was completed. –**The upgrade was completed in 2007**
2. Proposed date of completion of the Kerry Pike area connection to Blarney WWTP. –**October 2008**
3. Complete Table D1(ii)a for SW04 (discharge from the Cloghroe WWTP) and give date of when this secondary discharge will be discontinued as a result of the connection to Blarney WWTP. This discharge appears to be more than emergency discharge. Give the current PE loading on the Cloghroe package plant. Give the grid reference for the sampling point. **Part a -tables are attached for table d (revised) and attachment E4 in respect of SW04 Part b - The loading info available is from the revised PR which did sampling on two days as follows: Note: Samples were time proportional not flow composite (i)Tue 28 Mar to Wed 29 Mar 2007 from 1pm to 1pm – BOD load 20.3kgs i.e. PE of 338 (ii) Sat 8 April to Sun 9 April 2007 from 1pm to 1pm – BOD load 18.5 kgs i.e. PE of 308. Part c –grid reference of E157582 N74065 however this is currently under review under h&s requirements due to difficulties with safe access to a sampling location.**
4. Confirm that there are currently 4 storm water overflows from the agglomeration and give details (if any) that demonstrates they comply or not, as the case maybe, with the DOEHLG guidance on storm water overflows. Identify those existing storm water overflows to be discontinued. Identify the number and approximate location of any proposed storm water overflows from the agglomeration. – **Further to our discussion this morning I can confirm that the overflows at Kerry Pike and the Gothic Bridge are emergency overflows only and are not storm water overflows. Therefore there are 2 storm overflows associated with the system- SW01 (at plant) and SW04 (at Cloghroe)**
5. Is the composite sampler at the primary discharge time-based or flow proportional? Give details of the monitoring undertaken at the Cloghroe package plant discharge point SW04.**The composite sampler in Blarney WWTP is a time based sampler . Monitoring at Cloghroe is approximately 2 to 4 times per year and results have been submitted with this response as E4 additional information SW04**

6. Identify the emergency outfalls that are proposed to be discontinued and any new proposed emergency outfalls. The secondary discharge of SW04 will be discontinued once the Cloghroe system is connected to the Blarney network –projected date of 2012 however an emergency overflow and storm overflow will be constructed as part of this scheme. There are no design or exact location details available at this time as Cork County Council are awaiting formal approval from the DOE in respect of this scheme and all details will be finalised at that stage.

7. Give details of any further correspondence with the NPWS including any planned correspondence. – There is no further correspondence at this time and Cork County Council are assessing the queries raised by the NPWS in conjunction with a number of applications that ultimately discharge to Cork harbour estuary using an integrated approach where there are multiple discharges to the estuary.

8. CASP document provided appears to be a tender document. Is there another document that would answer the Art 18 questions on this matter. Further to the query from the EPA regarding the relevance of the CASP Northern Catchment Feasibility Report to the current wastewater discharge licence application for the 13,000 PE WWTP at Blarney please be advised that as stated this morning the outcome of this study does not affect the current licence application.

I trust the above answers the queries you have raised

Yours sincerely,

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Valerie Hannon  
A/Senior Executive Scientist

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#### List of Attachments

- 1 Revised Table D for SW04
- 2 Attachment E4 –additional information SW0w –Cloghroe secondary discharge

Please note : content of electronic files is a true copy of original hardcopy

TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS **Revised**  
**(Secondary Discharge Point) (1 table per discharge point)**

**Discharge Point Code:** SW04 Blarney

Source of Emission:	Secondary Discharge From Cloghroe WWTP
Location:	Townland of Coolflugh
Grid Ref. (12 digit, 6E, 6N):	E157548 N74040
Name of receiving waters:	River Owennagearagh
River Basin District:	South Western River Basin District
Designation of receiving waters:	None
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available _____ m<sup>3</sup>.sec<sup>-1</sup> Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available _____ m<sup>3</sup>.sec<sup>-1</sup> 95%ile flow</p>

**Emission Details:**

(i) Volume emitted			
Normal/day	300 m <sup>3</sup>	Maximum/day	Not available
Maximum rate/hour	Not Available m <sup>3</sup>	Period of emission (avg)	____ 60 ____ min/hr ____ 24 ____ hr/day ____ 365 day/yr
Dry Weather Flow	Not Available m <sup>3</sup> /sec		

**TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission  
(1 table per discharge point)(Secondary Discharge Point)**

**Discharge Point Code:** SW04 Blarney Revised

Number	Substance	As discharged	
		Max. daily average	
1	pH	6.0-9.0	
2	Temperature	30°C	
3	Electrical Conductivity (@25°C)	1500	
		Max. daily average (mg/l)	kg/day*
4	Suspended Solids	150	45
5	Ammonia (as N)	Not Applicable	Not Applicable
6	Biochemical Oxygen Demand	76	22.8
7	Chemical Oxygen Demand	184	55.2
8	Total Nitrogen (as N)	35	10.5
9	Nitrite (as N)	Not Applicable	Not Applicable
10	Nitrate (as N)	Not Applicable	Not Applicable
11	Total Phosphorus (as P) <sup>Note 1</sup>	5.0	1.5
12	Orthophosphate (as P)	Not Applicable	Not Applicable
13	Sulphate (SO <sub>4</sub> )	Not Applicable	Not Applicable
14	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not Applicable	Not Applicable

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Note 3: \* Average Flow Data of 300m<sup>3</sup> Used.

**TABLE D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS**

**Secondary Discharge Point - Characteristics of the emission (1 table per discharge point)**

**Discharge Point Code:** SW04 Blarney Revised

Number	Substance	As discharged		
		Max. daily average ( $\mu\text{g/l}$ )	kg/day	Kg/year
1	Atrazine	Not Applicable	Not Applicable	Not Applicable
2	Dichloromethane	Not Applicable	Not Applicable	Not Applicable
3	Simazine	Not Applicable	Not Applicable	Not Applicable
4	Toluene	Not Applicable	Not Applicable	Not Applicable
5	Tributyltin	Not Applicable	Not Applicable	Not Applicable
6	Xylenes	Not Applicable	Not Applicable	Not Applicable
7	Arsenic	Not Applicable	Not Applicable	Not Applicable
8	Chromium	Not Applicable	Not Applicable	Not Applicable
9	Copper	Not Applicable	Not Applicable	Not Applicable
10	Cyanide	Not Applicable	Not Applicable	Not Applicable
11	Fluoride	Not Applicable	Not Applicable	Not Applicable
12	Lead	Not Applicable	Not Applicable	Not Applicable
13	Nickel	Not Applicable	Not Applicable	Not Applicable
14	Zinc	Not Applicable	Not Applicable	Not Applicable
15	Boron	Not Applicable	Not Applicable	Not Applicable
16	Cadmium	Not Applicable	Not Applicable	Not Applicable
17	Mercury	Not Applicable	Not Applicable	Not Applicable
18	Selenium	Not Applicable	Not Applicable	Not Applicable
19	Barium	Not Applicable	Not Applicable	Not Applicable

## Attachment E 4 Supplementary Information for SW04 Cloghroe Discharge Outlet

Sample Date	24/01/07	04/04/2007	20/06/08	08/08/2007	18/10/07	13/12/07	28/02/08	06/05/08
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Flow M <sup>3</sup> /Day	*	*	*	*	*	*	*	*
pH	7.4	7.3	7.3	7.3	7.8	7.7	7.60	7.50
Temperature °C	*	*	*	*	*	*	*	*
Cond 20°C	*	*	*	*	*	*	*	*
SS mg/L	48	52	60	130	56	39	141.00	88.00
NH <sub>3</sub> mg/L	*	*	*	*	14.5	*	21.40	20.70
BOD mg/L	37	62.3	20	76	13	26.92	42.00	29.86
COD mg/L	98	133	68	184	87	86	139.00	155.00
TN mg/L	24	22.8	3.53	23.7	23	15.9	22.05	*
Nitrite mg/L	*	*	*	*	*	*	*	*
Nitrate mg/L	*	*	*	*	*	*	*	*
TP mg/L	1.46	3	0.81	2.95		1.49	4.10	*
O-PO4-P mg/L	*	*	*	*	2.03	1.02	2.53	2.20
SO4 mg/L	*	*	*	<30	<30	34.1	<30	*
Phenols µg/L	*	*	*	*	*	*	*	*
Atrazine µg/L	*	*	*	*	*	*	*	*
Dichloromethane	*	*	*	*	*	*	*	*
Simazine µg/L	*	*	*	*	*	*	*	*
Toluene µg/L	*	*	*	*	*	*	*	*
Tributyltin µg/L	*	*	*	*	*	*	*	*
Xylenes µg/L	*	*	*	*	*	*	*	*
Arsenic µg/L	*	*	*	*	*	*	*	*
Chromium mg/L	*	*	<0.02	<0.02	<0.02	*	*	*
Copper mg/L	*	*	<0.02	<0.02	<0.02	*	*	*
Cyanide µg/L	*	*	*	*	*	*	*	*
Fluoride µg/L	*	*	*	*	*	*	*	*
Lead mg/L	*	*	<0.02	<0.02	<0.02	*	*	*
Nickel mg/L	*	*	<0.02	<0.02	<0.02	*	*	*
Zinc mg/L	*	*	<0.02	0.036	<0.02	*	*	*
Boron mg/L	*	*	*	*	*	*	*	*
Cadmium mg/L	*	*	<0.02	<0.02	<0.02	*	*	*
Mercury µg/L	*	*	*	*	*	*	*	*
Selenium µg/L	*	*	*	*	*	*	*	*
Barium mg/L	*	*	<0.02	0.028	<0.02	*	*	*

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