

## Sonja Smith

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**From:** Brendan Kissane  
**Sent:** 30 August 2011 11:19  
**To:** Stuart Huskisson; Sonja Smith  
**Subject:** Castlemartyr WWTP discharge (WWDL No/ D0134-01) PAE2011/115  
**Attachments:** PAE2011/115 Castlemartyr WWTP; FW: Castlemartyr WWTP; FW: taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe

Sonja/ Stuart,

Update from Cork Co Co on complaint (PAE2011/115) about discharge from the Castlemartyr WWTP (WWDL No/ D0134-01).

Regards  
Brendan

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## Sonja Smith

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**From:** Gillian Vaughan [Gillian.Vaughan@CorkCoCo.ie]  
**Sent:** 25 August 2011 18:07  
**To:** djlong@eircom.net  
**Cc:** Brendan Kissane; Cliona Ni Eidhin  
**Subject:** PAE2011/115 Castlemartyr WWTP

Denis,

Further to your email regarding Castlemartyr Waste Water Treatment Plant, I wish to advise you of the following:

- Cork County Council is aware of the problem and is actively working to improve the quality of the final effluent
- Cork County Council in conjunction with the Waste Water Treatment Plant Operator EPS, have made certain modifications to the plant process in the past fortnight and the plant is being monitored to see if these process changes are proving adequate

Cork County Council will keep you updated regarding the above. Should you have any further queries, please do not hesitate to contact me.

Kind Regards,

Gillian Vaughan

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Waste Water Liaison, Water Services, Cork County Council  
Floor 11, County Hall, Cork

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☎ Fax: +353 (0) 21 434 6254  
✉ Email: [gillian.vaughan@corkcoco.ie](mailto:gillian.vaughan@corkcoco.ie)

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## Sonja Smith

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**From:** Jack McCarthy [Jack.McCarthy@CorkCoCo.ie]  
**Sent:** 24 August 2011 14:42  
**To:** Brendan Kissane  
**Cc:** Kevin Costelloe; Gillian Vaughan; John OConnor  
**Subject:** FW: Castlemartyr WWTP

I will forward other info to you after this. Essentially we are dealing with the current discharge problem with a view to determining what exactly is causing the problem and how do we manage it and prevent a reoccurrence.

-----Original Message-----

**From:** Jack McCarthy  
**Sent:** 16 August 2011 12:34  
**To:** Kevin Costelloe  
**Cc:** John OConnor; 'Vincent Browne'; 'Andrew Gillespie'; June Ford  
**Subject:** RE: Castlemartyr WWTP

Yes we are aware of this problem which has recently occurred. Essentially, the problem relates to rising sludge in the final clarifier, which is carried over into the outlet weir and into the river. The visual effect is much worse than the environmental impact.

This happened last week and a number of modifications have been made to the operation of the plant, which have brought about an improvement in the quality of the final effluent.

1. The D.O. in the aeration tank has been raised to between 2 and 3.
2. Polyelectrolyte is dosed to the outlet bellmouth from the aeration tank.
3. The amount of sludge being wasted from the final clarifier was increased. The MLSS in the aeration tank is now at 1800 mg/l.

There was a meeting on site this morning involving Cork Co Co, EPS Ltd and the South West Fisheries. A further course of action was agreed to bring about additional improvement in the operation of the plant. The wastewater treatment plant at Castlemartyr will be monitored closely over the next week to see if the proposed changes have the desired effect.

It may well be the case that additional significant alterations to the plant will be required to ensure a reoccurrence of the problem does not happen. This will form part of the current investigation.

Cork Co Co Environmental Department took a 24 hr composite sample at the plant on Thursday the 11th August. These results should be available in the next few days and will give a measure of the environmental impact.

-----Original Message-----

**From:** Kevin Costelloe  
**Sent:** 16 August 2011 11:43  
**To:** Jack McCarthy  
**Subject:** FW:

Jack  
FYA

Regards,

Kevin

-----Original Message-----

From: Kevin OSullivan (South Cork)  
Sent: 16 August 2011 11:37  
To: Kevin Costelloe  
Subject: FW:

-----Original Message-----

From: [scanner@corkcoco.ie](mailto:scanner@corkcoco.ie) [mailto:[scanner@corkcoco.ie](mailto:scanner@corkcoco.ie)]  
Sent: 16 August 2011 10:30  
To: Kevin OSullivan (South Cork)  
Subject:

This E-mail was sent from "RNPF017C4" (Aficio MP C5000).

Scan Date: 16.08.2011 11:30:23 (+0200)  
Queries to: [scanner@corkcoco.ie](mailto:scanner@corkcoco.ie)

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## Sonja Smith

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**From:** Jack McCarthy [Jack.McCarthy@CorkCoCo.ie]  
**Sent:** 24 August 2011 14:43  
**To:** Brendan Kissane  
**Subject:** FW: taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe  
**Attachments:** Castlemartyr.xls

fyi

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**From:** Jack McCarthy  
**Sent:** 24 August 2011 11:53  
**To:** Jack McCarthy  
**Subject:** FW: taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe

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**From:** Jack McCarthy  
**Sent:** 24 August 2011 11:49  
**To:** 'Andrew Gillespie'  
**Cc:** 'Kevin Costelloe'; Valerie Hannon; Nicholas Bond; John OConnor  
**Subject:** RE: taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe

This is really a work in progress at the moment.

1. I attach a copy of Cork Co Councils effluent sampling since January of 2011. As can be seen these appear to be ok, however, there is no denying that there appears to be an occasional problem with the operation of the plant.
2. We have made the adjustment to the pipework on the outlet from the clarifier and cleared the floating sludge from the outside of the outlet weir. I will forward you an e-mail detailing the changes. This should help matters.

John O Conner looked at the discharge on Monday the 22<sup>nd</sup> and the quality of the effluent appeared to be fine at that stage. We will continue to pay close attention to this plant and we will be doing a process analysis to see if we can improve on the overall performance of the plant.

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**From:** Andrew Gillespie [<mailto:Andrew.Gillespie@fisheriesireland.ie>]  
**Sent:** 24 August 2011 09:51  
**To:** Jack McCarthy  
**Subject:** FW: taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe

Jack,

Just thought this slightly different observation might be useful to you in ascertaining the changes being made at the plant and its resulting performance. I also received a report of visibly poor quality discharges on Wednesday evening last (17<sup>th</sup>) 9pm. All were from the same complainant. I look forward to hearing from you in due course.

Regards

Andrew Gillespie  
**Fisheries Environmental Officer - Inland Fisheries Ireland - Macroom**

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Iascach Intíre Éireann  
Inland Fisheries Ireland

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Email [Andrew.Gillespie@fisheriesireland.ie](mailto:Andrew.Gillespie@fisheriesireland.ie)  
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Sunnyside House, Macroom, Co. Cork, IRELAND.

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**From:** david o keeffe [<mailto:daveokeeffe2005@hotmail.com>]

**Sent:** 23 August 2011 09:53

**To:** andrew gillespie; denis long; dave burke; maurice cahill; [ncurt@eircom.net](mailto:ncurt@eircom.net); john curtin; niall coffey; liz maddocks; john landy; Anne Byrne; olive o kelleher; kevin scully; maurice hodnett; enda moroney

**Subject:** taken at 8.50a.m. on 23rd Aug 2011 at usual outflow pipe

Note the scum floating on the surface. it appears to be a fatty substance or grease mixed with a detergent. It is definitely a pollutant.

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## Castlemartyr Outlet Table E4

Sample Date	27/01/2011	24/02/2011	03/03/2011	20/04/2011	19/05/2011	16/06/2011	14/07/2011	11/08/2011	mean value
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	
Sample Code	GV031	GV123	GV171	GV310	GV396	GV472	GV593	GV689	
Sample Type	Comp	Comp	Grab	Comp	comp	Comp	Comp	Comp	
Flow M <sup>3</sup> /Day	*	*	*	*	*	*	*	*	
pH	*	*	*	*	*	*	*	7.3	
Temperature °C	*	*	*	*	*	*	*	*	
Conductivity uS/cm 20°C	*	*	*	*	*	*	*	*	5.333333333
Suspended Solids mg/L	6.0	8.0	6.0	3.0	3.0	<2.5	<2.5	6	0.78
Ammonia-N mg/L	*	*	*	0.9	0.3	0.2	0.7	1.8	4.225
BOD mg/L	3.8	5.5	9	1.9	4	2.1	1.9	5.6	38.5
COD mg/L	38	36	69	25	33	33	27	47	13.39
TN-N mg/L	*	*	*	7.55	10.47	6.95	28.59	pending	
O-PO4-P mg/L	*	*	*	0.54	3.31	3.85	4.93	5.82	3.69

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