

Environment Agency Wales

**SURFACE WATER MANAGEMENT
REVIEW AUDIT**

On

14th July 2009

By

David Griffiths (PPC Compliance Officer – Environment Agency)



Audit Report form



Part one- Audit reference information

Permit number	RP3733PC	Site name	Trecatti Landfill Site
Date(s) of audit	14 th July 2009	CAR ID No.	I/090613/RP3733PC
Lead auditor	David Griffiths	Other auditors	

Part two - Scope of audit

This Audit was undertaken to ensure that the issues raised in a similar Audit on the 16th May 2008 have been complied with. Furthermore, that all the actions in the revised Surface Water Management Plan submitted by Biffa on the 27th November 2008 have also been addressed.

The Agency has focused on Emissions to Surface Water Management due to the extensive Engineering works on site, which have resulted in numerous discharge consent failures over the last 6 months. In order for Biffa to address these works the Agency temporarily suspended the CCS Compliance Scores for this emission until June 2009.

The Audit on the 14th July 2009 was a compliance check against all these outstanding actions highlighted in the May 2008 Audit. The Audit was undertaken by myself and Mr Tim Stamper – Site Manager. The main actions were:-

- Improve Surface water drainage channels on perimeter road to control Suspended Solids.
- Ensure adequate mixing of surface water leaving site in order to obtain representative samples of water for compliance checking.
- Adequate labelling / sign posting of consented sampling points.
- Silt trap to be installed via surface water discharge point by office car park.

Part three - Permit conditions

The table below summarises what permit conditions were audited, areas of non-compliance and suggested corrective action.

Permit condition	CAR sub-criteria	Comments and suggested corrective action	Proposed date for completion	CCS score 4 – 1	Environment Agency proposed response
2.2.2.3 (Table 2.2.4)	B3	Correct NGR'S have been sent to Permitting for updating in Sites New Permit	na	na	Compliant
2.2.2.4 (Table 2.2.5)	C1	Correct NGR'S have been sent to Permitting for updating in Sites New Permit. New procedures have been implemented.	na	na	Compliant
2.2.2.4	C2	Correct NGR'S have been sent to Permitting for updating in Sites New Permit. New procedures have been implemented.	na	na	Compliant
2.2.2.6	B3	Surface Water Management plan has been updated. Completed on 15 th December 2008. Completed actions submitted on 14 th July 2009.	na	na	Compliant

Part four - Observations

Biffa have invested approximately £10,000 to resolve these issues highlighted in the May 2008 Audit. I will address each action item in turn highlighting improvements:

- **Improve Surface water drainage channels on perimeter road to control Suspended Solids**

Biffa have installed a series of v-notches in the perimeter Surface water channel to improve retention time in the flow of water from this part of the site. The v-notch structure allows the Suspended Solids to settle out. Having a series of these structures in line will polish the water to acceptable standards for discharging to controlled waters. Photograph below illustrates area of concern before improvements (May 2008).



This photograph below illustrates the improvements Biffa have made in this area by constructing / installing v-notches. (July 2009).



- **Ensure adequate mixing of surface water leaving site in order to obtain representative samples of water for compliance checking.**

The Audit in May 2008 identified inadequate mixing of surface water discharging from site. There was water leaving the site from West side via the Surface water Cascade not consented for discharge. The consented discharge point has now been changed to the area where all Surface Water discharges / leaves site and Biffa has engineered a mixing area / sump to ensure adequate mixing of surface water. This allows the Agency and Biffa to obtain a representative sample of this water for ensuring Permit Compliance. The photograph below illustrates this area prior to any improvements (May 2008)



The photograph illustrates the improvements in this area (July 2009).



- **Adequate labelling / sign posting of consented sampling points.**

There are three Surface Water Sampling points on site, one by the office Car Park, one upstream sampling point in the adjacent field next to the perimeter road (North area of site). There is no upstream watercourse due to the location of Trecatti being at the top of the water catchment. Therefore, we have identified and upstream land drain as the upstream Surface water Sampling point. Finally the third sampling point is by the Surface water cascade, this is where Surface water within the site is pumped to from the engineered lagoons. The photograph below illustrates the new signs erected by Biffa to ensure correct sampling locations which are cross-referenced with the Permit.



- **Silt trap to be installed via surface water discharge point by office car park.**

Biffa have now installed a silt trap on the haul road to the weighbridge by the car park. This collects primarily road run-off that was previously heavily silted and overflowing the site drainage channel and discharging into the adjacent field. This improvement has significantly addressed the appearance in this area and the unacceptable discharge.



Part five – Actions/recommendations

Biffa have addressed all the actions that were assigned to them during the Audit in May 2008. The Agency is satisfied that the site is now compliant with the Permit requirements for Surface Water Management.

The Agency will be monitoring the proactive maintenance of the Surface water channels, sumps and traps to ensure they are operating to their specifications. These areas will require regular de-silting and inspecting.

This is another significant investment by Biffa Waste Services at Trecatti Landfill Site in further improving environmental controls and standards. The Agency welcomes this continuing proactive management approach to ensure Permit Compliance.

Part six - Report approval

Lead auditor	David Griffiths	Signed		Date	02/09/2009
Report authorised by	A W Leakey	Signed		Date	08/09/2009
Job title	Team Leader				