

Company Name:	Tradebe (Gwent) Ltd		
Facility Name:	Gwent Waste Management Centre		
Facility Address:	Corporation Road Newport South Wales NP19 4RD		
Permit Number:	SP3531SK	Issue Date:	23/06/06
Variation Notice:	EA/EPR/SP3531SK/V004	Issue Date:	23/01/13
Activity Performance Report:	01/01/13 – 31/12/13		

a. Review of Monitoring Results

The following measures are monitored on a routine basis as a requirement of the permit. (These do not constitute a complete list of all the monitoring carried out as part of management of the site).

i. Trade Effluent Discharges

Final effluent discharges pass through a Siemens Magflo meter, which records the instantaneous flow rate (ls^{-1}), and the cumulative total flow (m^3) and an Aquamatic auto sampler which takes a flow-proportional composite sample over the discharge period (24 hrs). This is an improvement carried out in 2011, to upgrade the autosampling equipment and connect to the flowmeter to provide true flow proportional sampling. The composite sample is analysed in house once per weekday when effluent is discharged. The composite sample is also sampled on a regular and random basis by Welsh Water.

NRW report S1 records the high/low analytical results in each quarter and have been submitted to EA through 2013.

Total effluent produced: 42,246 m^3
 Effluent produced per unit: 0.731 m^3 / te

The effluent discharge monitoring and management systems were accredited to MCerts in Oct 2009, with renewal required 29 Apr 14. The Magflo meter is included in our site PPM system, and receives an annual calibration check. This was carried out, for this year, in July by Siemens.

As described in last year's report further changes were made in early 2011 to further improve the effluent quality by providing more final settlement time & depth. This has seen an improvement in solids and heavy metal concentrations in the discharge. Further improvements are being planned by a project working group in 2012-2013. The goals of this are to reduce discharge concentrations of a number of parameters, such as sulphate, heavy metals, COD and solids. The project is looking to be self-funding, through the reductions targeted in the chargeable parameters of COD and suspended solids.

ii. Site Scrubber Monitoring

The site has three scrubbers that are checked on a daily basis for both alkalinity/acidity and pH and this is used to monitor performance. The results are also used as a baseline for any dosing in order to optimise scrubbing efficiency and the findings reported back for review at the daily morning meetings. This is an ongoing process that is reported to NRW every six months as a permit requirement via form SC1.

The Main Scrubber receives an annual clean which took place in January. The small pre-scrubbers also receive scheduled cleans that took place in January and September 2013.

iii. Waste Inputs and Outputs

Waste inputs and outputs are monitored on a daily and item by item basis. The SAP system now run by Tradebe across all facilities in all countries is fully integrated and controls waste enquiries, inputs, stock, financial data and analysis from cradle to grave. Reports of waste inputs and outputs are compiled and submitted to NRW as the site returns on a quarterly basis. Relevant figures for 2013 are:

Total haz waste received to plant 2013	40,196 tonnes
Total non-haz waste received to plant 2013	9,892 tonnes
Total haz waste received to tfr stn 2013	6,308 tonnes
Total non-haz waste received to Tfr Stn 2013	1,396 tonnes

Quantities are measured by means of the site weighbridges, which are calibrated annually by an external contractor. In 2013 this was carried out on 18 Mar 13.

iv. Filtercake Outputs

The filtercake that is produced in batches from the treatment process is non-hazardous and is the site's single largest output. The ratio of tonnes filtercake produced per tonne of waste treated is a good indicator of both operational and environmental efficiency but is variable dependent upon the types of waste being treated e.g. metal salt, sulphate, phosphate rich wastes will produce more filtercake when compared to landfill leachates or other less-contaminated effluents. The ratio for the last few years is given in the table below and 0.25 is considered an ideal figure:

Year	2007	2008	2009	2010	2011	2012	2013
te filtercake/tonne waste	0.31	0.31	0.27	0.26	0.29	0.29	0.23

b. Annual Improvement Targets (from Management System)

In the first half of 2013 the company underwent a number of radical improvements with the centralisation of customer services and the transfer to a central version of SAP. This was followed in the second half of the year by a transition period towards full integration. At Gwent this was accompanied by a number of changes in senior staff that included a new Site Manager and SHEQ Manager at the beginning of the fourth quarter. These changes have resulted in some momentum being lost in achieving improvement targets that it is anticipated will be recovered in due course.

Despite these changes the company managed to achieve accreditation to ISO18001:2007 in December 2013.

c. Annual Production / Treatment Data

The data required by table S5.2 of the site Permit has been reported to NRW on form PI1 on 22 Jan 13. In addition waste returns are submitted to NRW on a quarterly basis in an electronic format. The data submitted therein was:

Total waste received	57,792 te
Treatment residues disposed to non-hazardous landfill	13,093 te
Treatment residues disposed to hazardous landfill	0 te

d. Performance Parameters

As stated in section (c) above, form PI1 was submitted to NRW for the reporting period. The environmental performance indicators given on this form are:

Effluent discharged to sewer	42,246	m ³
Water used	13,187	m ³
Non-hazardous waste sent out	13,865	te
Hazardous waste sent out	2,094	te

e. Site Contamination / Decontamination Notes

No contamination events occurred within 2013. There was no particular/significant decontamination projects carried out during 2013. Obviously site cleaning and maintaining of housekeeping standards is an ongoing, daily task on the site. These involve routine inspection of, and cleaning where required of: all tank bunds, waste processing areas, waste reception areas, transfer station storage bays, filtercake handling areas etc.



Mark Griffiths
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Tradebe Ltd
23 Jan 14