

<b>Company Name:</b>	Tradebe (Gwent) Ltd		
<b>Facility Name:</b>	Gwent Waste Management Centre		
<b>Facility Address:</b>	Corporation Road Newport South Wales NP19 4RD		
<b>Permit Number:</b>	SP3531SK	Issue Date:	26/06/06
<b>Variation Notice:</b>	EA/EPR/SP3531SK/V007	Issue Date:	27/04/15
<b>Activity Performance Report:</b>	01/01/18 – 31/12/18		

### 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

Trade Effluent generated by the treatment process is directed into two settlement tanks prior to overflow into the onsite drain for discharge into the local sewer. The Trade Effluent is discharged through a Siemens Magflo meter, which records the instantaneous flow rate (m<sup>3</sup>/hr-1), and the cumulative total flow (m<sup>3</sup>) and an Aquamatic auto sampler which takes a flow-proportional composite sample over the discharge period (24 hrs). The composite sample is analysed in house once per weekday when effluent is discharged. The composite sample is also sampled weekly by Welsh Water.

NRW report S1 records the high/low analytical results in each quarter and have been submitted to EA through 2018.

Total effluent produced: 85,766 m<sup>3</sup>  
Effluent produced per unit: 0.846m<sup>3</sup> / te

The effluent discharge monitoring and management systems achieved MCERTs re-certification on 29<sup>th</sup> Nov 2018 in line with follow up audits in March and November 2019. The Magflo meter is included in our site PPMS system, and receives an annual verification check that was carried out in Oct 2018 by Siemens.

To continue the improvement in Trade Effluent quality we are engaging with Welsh Water and have commissioned a chemical engineer to design a plant to further remove metals and anions from the Trade Effluent. Bench trials took place through Q4 2018 in readiness for a meeting with Welsh Water in Jan 2019.

## 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 reported for review at the daily morning meetings and also reported to NRW every six months as a permit requirement via form SC1.

All three site scrubbers were inspected by an external contractor and all recommendations/actions were noted and captured on the site work requisition system for the remedial work to be carried out.

## iii. Waste Inputs and Outputs

Waste inputs and outputs are monitored and tracked using SAP that is the system of choice used by Tradebe across all facilities in all countries. It is a fully integrated system 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. In summary:

For 2018

Inputs	Hazardous (te)	Non-Hazardous (te)
Treatment Plant	57,076	37,261
Transfer Station	5,432	1,429
Outputs		
Third Party Disposal	4,620	13,480
Landfill	1,305	12,191

Quantities are measured by means of the site weighbridge, which is calibrated annually by an external contractor. In 2018 this was carried out in November.

#### iv. Filtercake Outputs

Filtercake is produced in batches from the treatment process that is the site's single largest solid 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	2011	2012	2013	2014	2015	2016	2017	2018
te filtercake/tonne waste	0.29	0.29	0.23	0.27	0.26	0.22	0.16	0.14

2018 continued with the trend of the previous year with increases in the volume of wastes that had low solids coupled with more caustic waste streams that required less lime for neutralisation. This means that proportionally less filter cake was produced per tonne of waste that accounts for the ongoing reduction in te filtercake/tonne waste above for 2018.

The site continued to produce and subsequently send for recover Nickel rich filter cake.

#### b. Annual Improvement Targets (from Management System)

At the beginning of 2018 the plant roof was replaced due to the age of the building the potential for structural failure.

Trials are underway on improving the quality of the site effluent and these will inform engineering choices and improvements to the site.

The site has undergone a restructuring of staff and roles resulting in a new site manager and new position of assistant site manager. The company has continued with acquisitions and through this has re-structured the transfer division. There was also the appointment of a new CEO in 2018.

### c. Annual Production / Treatment Data

The data required by table S5.2 of the site Permit has been reported to NRW on form PI1 in Jan 17. In addition waste returns are submitted to NRW on a quarterly basis in an electronic format. The data submitted therein was:

Total waste received	94,377 te
Treatment residues disposed to non-hazardous landfill	12,191 te
Treatment residues disposed to hazardous landfill	1,305 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	85,766	m <sup>3</sup>
Water used	11,092	m <sup>3</sup>
Non-hazardous waste sent out	13,480	te
Hazardous waste sent out	4,620	te

### e. Site Contamination / Decontamination Notes

No contamination events occurred within 2018

Alex Morris  
 GWMC Assistant Site Manager  
 25 Jan 19