

From: Carl.Thomas@keldawater.co.uk [mailto:Carl.Thomas@keldawater.co.uk]  
Sent: 29 January 2018 10:10  
To: Parr, Elizabeth <Elizabeth.Parr@cyfoethnaturiolcymru.gov.uk>  
Subject: Annual Reporting for Tremorfa AB3093CA – Forms Performance1, Water Usage1 & Air1 forms

Hello Liz,

Please find attached the annual reporting forms for the Tremorfa AD Plant, (I am still awaiting meter readings to complete the Lamby way forms).

(See attached file: Tremorfa annual reports.pdf)

**4.2.2(a)** The annual reports show a pattern expected with a challenging but successful first year of operations for the AD plant.

Water usage is higher than expected due to commissioning issues with our odour control system, additional potable water has been required to maintain the systems biology through the spraying system.

The higher than expected water usage can also be attributed to the delayed operation of our rainwater harvesting system. Issues with a faulty pump in the first 4 months of the year resulted in the system losing stored rainwater whilst calling for potable water for product dilution. This issue has now been resolved.

Power output at 8075 Mwh is overall down on the plants expected of 15000+ Mwh per annum. This can be put down to the lack of third party waste available in the area, with the input tonnages made up 99% of local authority waste. We are working towards securing further commercial waste inputs to the plant in 2018.

Flare running hours have been higher than expected which has been caused due to a build up of biodegradable bags remaining as a floating layer within primary fermenter. Work is due to start early 2018 to remove and filter all material within the tank that has caused a number of issues on site, especially with consistent gas production. The flair has been operational in times that h2s levels within the biogas have exceeded the CHP manufacturers running limits. Rectifying this issue in 2018 should result in less flare running time and more energy output from longer CHP running times.

Best Regards

Carl Thomas  
Lead Operator  
Welsh Water Organic Energy – Cardiff  
Tel: 07790615787  
Email: [Carl.Thomas@keldawater.co.uk](mailto:Carl.Thomas@keldawater.co.uk)

-----  
Kelda Group Limited  
Registered Office: Western House, Halifax Road, Bradford, BD6 2SZ