

Bridgend Waste Facility

EPR Ref: PP3430UL

January 2017

Introduction

Condition 4.2.2 of the above permit requires the following:

4.2.2 For the following activities referenced in schedule 1, table S1.1 (A1 to A8 inclusive). A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The reports shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 5 table S5.2; and
- (c) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule.

A. Review of the results of the monitoring and assessment

Efficacy Tests

Number of Spore strips tested within Year	Number of Spore Strips that pass within Year	Pass Rate
60	59	98%

Commissioning Report

The re-validation was carried out at the facility in May 2015 with the report concluding:

“Bridgend, Wales has proved the system to be capable of achieving and surpassing the required level of bacterial inactivation during normal operation. Spore strip tests carried out over five separate operating cycles produced 100% pass results proving that >4 log₁₀ inactivation of *B atrophaeus* spores was achieved in all tests, equating to STAATT level III inactivation and that >6 log₁₀ inactivation of *B atrophaeus* spores was achieved in 95% of tests, equating to STAATT level IV inactivation”

Annual air emission environmental

The emission testing was carried out in 24th October 2016

The Environmental monitoring continued to demonstrate that the Microbial counts were well within the Environmental Agency Benchmarks.

B. Annual production/treatment data

The performance parameters for the facility were as follows:

S4.2 Annual production/treatment		
Amount of waste treated in the heat disinfection unit	7646	Tonnes

C. Annual performance parameters

The performance parameters for the facility were as follows:

Energy Usage

Energy Source	Primary Energy (MWh)	Specific Usage MW/unit output (tonnes)
Electricity*	2075	0.27
Natural Gas	83	0.011
TOTAL	2185	

Water Usage

	Usage (m3)	Specific Usage (m3/t)
Mains water	2660	0.3
TOTAL WATER USAGE	2660	

Discharge to Sewer

Point Emission	Substance / Parameter	Emission Limit Value	Result [1] m3	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty[5]
S1	Flow	N/A	1.2	m3/per tonne of treated waste	-	calculation	n/a