

EPR/EP3230BW EnviroWales Ltd. Plateaux 1 & 2 Rassau Industrial Estate, Ebbw Vale NP23 5SD

Permit Condition 4.2.2 a) review of the results of the monitoring and assessment carried out in accordance with the Permit including an interpretive review of that data.

Introduction

This report is provided to meet the requirements of Permit EP3230BW condition 4.2.2a) and is a review of the annual monitoring and assessment carried out in accordance with the Permit including an interpretive review of that data.

Performance review 2022 – Permitted Release Points

Twice yearly extractive monitoring of emission points A1 – A5 were carried out in accordance with the permit for the specified parameters and to the standards required.

Testing was carried out for lead and other heavy metals, combustion gases (carbon monoxide, sulphur dioxide, nitrogen oxides, VOCs) as well as dioxins and furans. The battery breaker emission point also test for Acid Mist from the wet scrubber attenuation stack A1.

All extractive samples of particulates and the heavy metals were well within compliance of the Permitted ELVs at both 6 monthly sampling visits. Levels of dioxins and furans were extremely low, being 1/50th of the ELV as a maximum for the year. Combustion gases levels varied dependant upon the plant operational status, however there was no exceedance of any ELV.

Emission point A6 is not operational as the process associated is not installed, A7 and A8 require visual compliance only with no exceedance.

Monthly sewer emissions for BOD and Arsenic at discharge point S1 were carried out and reported in the annual form as a maximum emitted. There was no exceedance of the emission limits reported in 2022.

There is a release point permitted to controlled waters (W1) but this is not operational; all surface and rain water collected on site is reused as washdown before being routed to the effluent treatment plant and trade sewer.

Ambient monitoring takes place monthly for lead and particulate matter (PM₁₀) at the nearest sensitive receptor which is Garnlyddan School.

Measured ambient Lead levels are continuously well below the requirement, consistently measured at around 20% of the 0.25µg/m³ Air Quality Standard, whilst particulate levels fluctuate significantly dependent upon local road and house building activities in the area, and also, this summer showed the effects of grass fires burning on the moors nearby.

Other performance comparisons 2021 - 2022

Comparison of annual production and treatment figures between 2021 and 2022 show there is no significant change between the quantities of materials received on site, raw materials sent for smelting or material sent for off-site disposal or recovery with around 60,000 - 65,000 tonnes of raw materials sent for smelting in both years. This is an energy intensive process and a comparison of the energy and utilities performance per tonne of output shows little

variation between the years. Energy efficiency measures are part of the key site performance indicators and improvements have been made over a number of years to reduce energy consumption through both hardware such as more efficient motors, to production and process control changes.

Other Performance parameters			
Parameter	Units	2021	2022
Water usage	tonnes / tonne product	0.63	0.73
Electricity usage	MWh / tonne	0.6	0.62
Natural Gas usage	MWh / tonne	0.88	0.89

Summary

EnviroWales' process emissions and performance measures are monitored in accordance with the Permit requirements using UKAS accredited testing contractors. Performance continues to be well within compliance for the parameters within the Permit, showing that process controls and abatement measures continue to be effective. There are no issues of concern at present and environmental performance and compliance continues to be a key part of site improvement plans and key indicators.

Terri Williams / Brian Kelly 17/02/2023