



REVIEW OF MONITORING AND ASSESSMENT AT POETON CARDIFF 2022

This review is undertaken to comply with condition 4.2.2(a) of our environmental permit no. BP1772IZ.

As COVID-19 restrictions eased throughout 2022 we have seen an upturn in work, and we are now nearing pre-covid levels. This is expected to continue throughout 2023. The increased workload has enabled us to continue recruiting and increase staff levels, again as input of work increases staff levels will increase in line with this.

Year	Employees
2021	67
2022	72

Water Use:

Year	Total water use	Operational Hours	M3 water /op. hour
2021	31676	6330	5.00
2022	27081	6400	4.2

After finding that the water consumption for 2022 was incorrect (see review of water usage and cadmium discharge report), our actual water consumption has decreased on the previous year. We are planning further energy saving projects for 2023 which will include the use of croffles on heated process tanks. The croffles will help insulate the surface of the solutions, to reduce heat loss and evaporation, so savings will be made on energy and water usage.

Waste:

Waste	Haz waste (tonnes)	Recycled (Tonnes)
2021	28.9	14.7
2022	48.2	17.0

Waste consigned as a whole has increased in 2022, but we have continued with a high level of waste being recycled. The high level of hazardous waste hazardous waste is a continuation of us removing waste that had built up and aiming to not keep as much waste on site, we also had to dispose of several processing solutions that had become unusable. We are working towards improving our control of stock and reducing / limiting where possible waste generated in going forward. Recycled Solvents were approx. 2.25 tonnes, recycled scrap and empty drums were approx. 0.96 tonnes, recycled IT Equipment approx. 0.1 tonnes, and recycling consigned through Biffa 13.7 tonnes.

We continue to reuse packaging where possible and we are encouraging customers to use bespoke packaging for their parts, so they can be sent back in the packaging they came in. This has an immediate effect on stopping waste being generated in the first place.

Energy Use:

Year	Primary Energy (MWh)	Energy/op hour	Co2	Co2/op hour
2019	4242.6	0.67	721.5	0.114
2021	3162.1	0.49	537.7	0.084
2022	3292.0	0.51	559.8	0.087

More efficient equipment and lighting continues to be installed when upgrades take place in line with continual improvement projects, along with ensuring equipment that is not being used is turned off, is having a positive impact on our energy usage. Energy usage has increased slightly this year, but this is in line with the increased operational hours and workload. Airbus production was down across the site in 2020 & 2021, increasing in 2022 to just short of 2019 (pre-covid) levels, also some staff were working from home and others on furlough, this has led to higher energy usage than 2021 even with the energy savings in place. In this case we believe comparison should be made against 2019 figures not 2020 & 2021. We are looking to make further improvements on energy efficiency with the use of croffles as stated on water use.

Mass Release:

Year	Cadmium (Kg)	Mercury (mg)
2021	0.75	0.002
2022	5.99	0.002

New calculation of mass cadmium release based on new calculations of water use (please see review of water usage and cadmium discharge report).

Design works for a completely new effluent plant have been received, and new quote for installation is being discussed with CAPEX update to be submitted to board of directors. This will enable us to continue to comply with our permit and increase controls around our effluent.

Jason Hamling
(HSE & Facilities Manager)