

PB Gelatins Annual Environmental Performance Report 2022

Permit No: EPR/DP3030ZC

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This report is submitted in accordance with the requirements of permit condition 4.2.2

1. REVIEW OF EMISSIONS

No point source emissions to air or land have been recorded except from the sources and emission points listed in schedule 3 tables. The limits given in schedule 3 have not been exceeded during 2022.

2 gas fuelled space heaters to raise the ambient air temp in the New Farm building. The exhaust vents from these heaters will require a Permit Variation in 2023

2. REVIEW OF MONITORING

2.1 Monitoring - Site Effluent

Table S3.3 Process Monitoring Requirements – Site Effluent

	Parameter	Monitoring frequency	Monitoring method
DP1	pH	Continuous Monthly*	Sample analysis by Welsh Water
DP1	Suspended Solids	Monthly *	Sample analysis by Welsh Water
DP1	COD	Monthly *	Sample analysis by Welsh Water
DP1	Discharge Flow	Continuous *	Sample analysis by Welsh Water

Site Effluent - Monitoring Results

Welsh Water analysed 12 effluent samples during 2022. All samples were within consent compliance limits.

**sampling now takes place on a monthly basis, a frequency that is determined by Welsh Water*

2.2 Monitoring - Odour

Table S3.3 Process Monitoring Requirements – Odour

Emission point ref	Parameter	Monitoring Frequency	Monitoring method
Site perimeter	Odour	Daily	Sniff testing

2.3 Monitoring - Groundwater

Periodic monitoring of groundwater will be carried out every 5 years. Next report to be submitted January 2026

2.4 Monitoring - Soil

Periodic monitoring of soil will be carried out every 10 years. Report submitted September 2022. Next report to be submitted September 2032.

3. COMPLAINTS

3.1 Dust Complaints

No dust complaints were received in 2022.

3.2 Odour Complaints

1 Odour complaints were received in 2022, 1 complaints were received directly from neighbouring businesses, this had nothing to do with the site operating, the drains were dug up and the odour was reported from that.

3. REVIEW OF ENERGY EFFICIENCY

A review to identify suitable opportunities to improve the energy efficiency of the activities at PB Gelatines is taking place yearly.

There was a 3.0% decrease in the amount of electrical consumption in 2022 compared to 2021, and there has been a 1.8% decrease in electricity consumed per tonne of gelatine produced.

There was a 2.4% decrease in the amount of gas consumed in 2022 compared to 2021, which has resulted in a 1.2% decrease in gas consumed per tonne of gelatine produced. The total energy usage in 2022 compared to 2021 is 3.7% decrease.

4. REVIEW OF RAW MATERIAL AND WATER

A review to identify whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water will take place on a yearly basis.

Net production of Gelatine decreased by 1.2% from previous year with a 0.1% decrease of raw material used in 2022 compared to 2021 but there has been 1.1% increase per tonne of gelatine.

There was a 28.7% decrease in the amount of Ossein sludge waste in 2022 compared to 2021, which has resulted in a 27.8% decrease of Ossein sludge waste per tonne of gelatine

There was a 6.2% decrease in the amount of solid bone waste in 2022 compared to 2021, and there has been a 5.1% decrease of solid bone waste per tonne of gelatine produced.

Mains water (domestic use – non production) use has decreased by 5.1% from last year.

There was a 1.9% decrease in the abstracted water used in 2022 compared to 2021, which has resulted in a 0.7% decrease in water abstracted per tonne of gelatine.

There was a 1.9% decrease in the total water used in 2022 compared to 2021, which has resulted in a 0.7% decrease in the total water used per tonne of gelatine.

ASSESSMENT OF PERFORMANCE PARAMETERS AS SET OUT IN SCHEDULE 4 TABLE S4.2

4.1 Form Sewer 1

Parameter	Quantity	Units
Effluent sludge	11833	Tonnes
Effluent solids	672	Tonnes
Effluent liquid discharged	704,522	M3

Parameter	Quantity	Units
Total raw material used (Ossein only)	33,211	Tonnes
Gelatin produced	5,836	Tonnes
Ossein sludge waste	11833	Tonnes
Solid bone waste	672	Tonnes

7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	8,924	M3
Abstracted water	806,590	M3
Total water usage	815,514	M3

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Electricity consumption	8,820	MWh
Gas consumption	71,376	MWh
Total energy usage	81,524	MWh

5. PERMIT COMPLIANCE ASSESSMENT REPORTS

Four Compliance Assessment Reports were received from NRW in 2022

6. ADDITIONAL ENVIRONMENTAL IMPROVEMENTS

- Major work has been undertaken on the site drains