

PB Gelatins Annual Environmental Performance Report 2020

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 2019.

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 2021

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 2020. 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. A Site Condition Report was submitted in January 2020

2.4 Monitoring - Soil

Periodic monitoring of soil will be carried out every 10 years. Monitoring is scheduled to take place in 2023.

3. COMPLAINTS

3.1 Dust Complaints

No dust complaints were received in 2020.

3.2 Odour Complaints

A number of major projects were put in place in 2019. Covering of the balance tank. An associated chemical scrubber to treat the odorous air from the balance tank. A new sludge tank and associated pipework. Installation of a cover in the pumping station and associated scrubber. A

buffer tank in the pumping station. No odour complaints were recorded in 2020, since all the new installations no complains have been received.

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.

Net production of Gelatine increased by 2.4% from previous year.

There was a 7.11% decrease in the amount of electrical consumption in 2020 compared to 2019, and there has been a 9.29% reduction in electricity consumed per tonne of gelatine produced.

There was a 7.01% increase in the amount of gas consumed in 2020 compared to 2019, which has resulted in a 4.5% increase in gas consumed per tonne of gelatine produced. This was down to the installation in February of the two space heaters in the millennium farm and the farm, these control the internal temperature.

There was a 5.46% increase in the total energy usage in 2020 compared to 2019, but there has been a 2.99% increase of total energy usage per tonne of gelatine produced

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 increased by 2.4% from previous year with a 4.9% increase of raw material used in 2020 compared to 2019 but there has been 2.4% increase per tonne of gelatine.

There was a 1.38% decrease in the amount of Ossein sludge waste in 2020 compared to 2019, which has resulted in a 3.7% reduction of Ossein sludge waste per tonne of gelatine produced.

There was a 3.47% increase in the amount of solid bone waste in 2020 compared to 2019, and there has been a 1.04% increase of solid bone waste per tonne of gelatine produced.

Mains water (domestic use – non production) use has increased by 14.02% from last year. There was a leak found on site and was fixed in October. There was a 1.85% increase in the abstracted water used in 2020 compared to 2019, which has resulted in a 0.55% reduction in water abstracted per tonne of gelatine.

There was a 1.97% increase in the total water used in 2020 compared to 2019, which has resulted in a 0.42% reduction in the total water used per tonne of gelatine.

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

5.1 Form Sewer 1

Parameter	Quantity	Units
Effluent sludge	0	Tonnes
Effluent solids	0	Tonnes
Effluent liquid discharged	727,965	Tonnes

7.2 Form Performance 1

Parameter	Quantity	Units
Total raw material used (Ossein only)	34,405	Tonnes
Gelatin produced	6,133	Tonnes
Ossein sludge waste	16,111	Tonnes

Solid bone waste	848	Tonnes
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7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	9,416	Tonnes
Abstracted water	799,028	Tonnes
Total water usage	808,444	Tonnes

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Electricity consumption	8,181	MWh
Gas consumption	76,462	MWh
Total energy usage	84,644	MWh

6. PERMIT COMPLIANCE ASSESSMENT REPORTS

Three Compliance Assessment Reports were received from NRW in 2020

7. ADDITIONAL ENVIRONMENTAL IMPROVEMENTS

- Waste Management Storage. IBC Storage A21**
 This project was to install hard standing with tertiary containment, draining into our onsite effluent treatment plant
- Waste Management Storage. IBC Storage Farm**
 This project was to install hard standing with tertiary containment, draining into our onsite effluent treatment plant
- Waste Management Storage. Skip Storage A21**
 This project was to install hard standing with tertiary containment, draining into our onsite effluent treatment plant.
- Waste Management Storage. Veolia Compound**
 This project was to install hard standing with tertiary containment, draining into our onsite effluent treatment plant.