

PB Gelatins Annual Environmental Performance Report 2019

Permit No: EPR/DP3030ZC

Report Date: 28/01/2020

Author: Julie Campbell

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 2020

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 2019. 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. Meeting with NRW has been held and agreement in place on Site Condition report base levels.

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 2019.

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. The two odour complaints were recorded in 2019, complaints

were received directly from neighbouring businesses. This was when pipework was being switched over from the old process to the new process. 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 3% from previous year.

There was a 1% increase in the amount of electrical consumption in 2019 compared to 2018, but there has been a 3% reduction in electricity consumed per tonne of gelatine produced.

There was a 1% decrease in the amount of gas consumed in 2019 compared to 2018, which has resulted in a 3% reduction in gas consumed per tonne of gelatine produced

There was a 1% decrease in the total energy usage in 2019 compared to 2018, but there has been a 3% reduction 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 3% from previous year with a 1% reduction of raw material used in 2019 compared to 2018 but there has been 3% reduction per tonne of gelatine.

There was a 1% decrease in the amount of Ossein sludge waste in 2019 compared to 2018, which has resulted in a 3% reduction of Ossein sludge waste per tonne of gelatine produced.

There was a 18% decrease in the amount of solid bone waste in 2019 compared to 2018, and there has been a 20% reduction of solid bone waste per tonne of gelatine produced.

Mains water (domestic use – non production) use has increased by 42% from last year. A working group has been set up and is investigating possible causes and improvements.

There was a 5% decreased in the abstracted water used in 2019 compared to 2018, which has resulted in a 7% reduction in water abstracted per tonne of gelatine.

There was a 5% decrease in the total water used in 2019 compared to 2018, which has resulted in a 7% 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	736,697	Tonnes

7.2 Form Performance 1

Parameter	Quantity	Units
Total raw material used (Ossein only)	32,796	Tonnes
Gelatin produced	5,989	Tonnes
Ossein sludge waste	16,336	Tonnes
Solid bone waste	819	Tonnes

7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	8,258	Tonnes
Abstracted water	784,545	Tonnes
Total water usage	792,803	Tonnes

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Electricity consumption	8,807	MWh
Gas consumption	71,452	MWh
Total energy usage	80,260	MWh

6. PERMIT COMPLIANCE ASSESSMENT REPORTS

One Compliance Assessment Reports were received from NRW in 2019

7. ADDITIONAL ENVIRONMENTAL IMPROVEMENTS

- **Improvements to bulk chemical storage facilities**
This project was to improve the liquid containment of our bulk chemical storage facilities, this work included the installation of ChemiGuard tanker discharge & pump units and dual containment pipe work for the Sulphuric acid system.
- **Waste Water Treatment Plant odour Control Improvements.**
This project was to install odour mitigation systems, to reduce or eliminate odour release. This work was carried out in two areas, the installation of a GRP cover to the balance tank, with a carbon and acid based wet scrubber unit, the other phase of the project was the installation of a GRP floor in the effluent pumping station and a dry scrubber unit.
- **New effluent treatment plant sludge tank**
This project was to replace the old Permastore Trifusion glass lined tank, with a HDPE Helically wound tank, with a concrete bund.
- **New Tac40 storage vessel**
The old vessel was past its design life and required replacing. A new HDPE Helically wound storage vessel, with an integrated bund was installed, with the associated Chemiguard, tanker discharge & pump unit.

8. APPLICATION FOR ENVIRONMENT PERMIT FOR STEAM BOILER HOUSE

Permit application issued to Veolia Energy and Utility Services UK Plc on the 10-01-2019 number EPR/BB3097ZS.