

PB Gelatins Annual Environmental Performance Report 2016

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 2016.

PB Gelatins recorded two instances of emissions to water during 2016.

- a) Release of Gelatin / condensate to the north outfall into the River Taff
- b) Release of Ossein particulates to the south outfall into the River Taff

Both emissions were investigated and a corrective action plan has been implemented to prevent re-occurrence. The incidents were also recorded by NRW in the relevant Compliance Assessment Reports

2. REVIEW OF MONITORING

2.1 Monitoring - Site Effluent

Table S3.3 Process Monitoring Requirements – Site Effluent

Emission point ref	Parameter	Monitoring frequency	Monitoring method
DP1	pH	Continuous	Sample analysis by Welsh Water
DP1	Suspended Solids	2 weekly	Sample analysis by Welsh Water
DP1	COD	2 weekly	Sample analysis by Welsh Water
DP1	Discharge Flow	2 weekly	Sample analysis by Welsh Water

Site Effluent - Monitoring Results

Welsh Water analysed 19 effluent samples during 2016. All samples were within consent compliance limits

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. Monitoring is scheduled to take place in 2018.

2.4 Monitoring - Soil

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

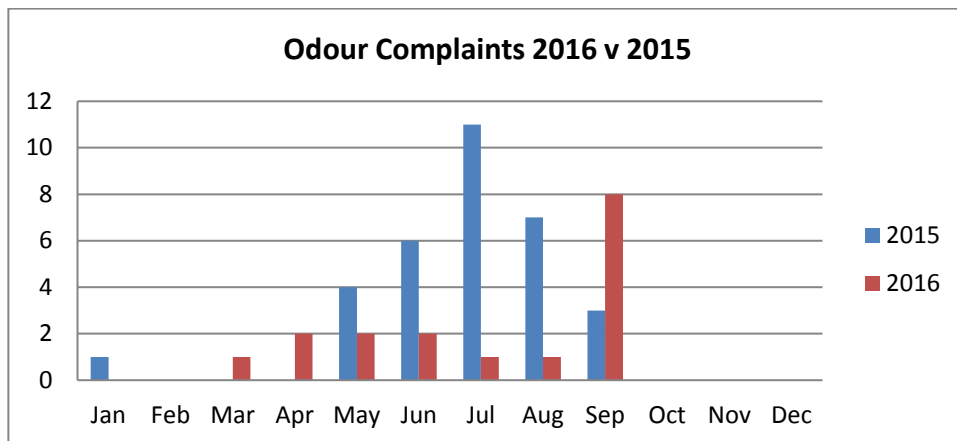
3. COMPLAINTS

3.1 Odour Complaints

Six odour complaints were received from the NRW Incident Communication Centre and a further 11 complaints were received directly from neighbouring businesses. This represents a significant improvement to 2015 when 32 complaints were received from the Incident Communication Centre alone. In response to the complaints the following odour control improvements were implemented:

- i. The DAF balance tank was drained down and cleaned in October. The cleaning appeared to have a positive effect in controlling odour. Henceforth, in addition to the scheduled annual clean, the tank will be drained and inspected for build up of particulates every three months and cleaned where necessary
- ii. Hydrogen Peroxide was dosed into an A18 internal effluent drain (from where it would circulate around the DAF system) and again this appears to have a positive effect in controlling odour. The Peroxide delivery system will be made more robust and dosing will continue through 2017
- iii. Internal drains inside the A18 building were cleaned to remove solidified particulates
- iv. An external effluent drain was relined to remove a “step” which was causing a build up of solids within the pipe work

The effectiveness of the above improvements will be monitored through 2017



3.1.1 Liaison Group

Following on from the 2015 Liaison Group meeting, a second meeting took place in May 2016 to discuss odour issues associated with PB Gelatins operation. All local business were invited however only Greggs and NRW attended on the day

3.2 Dust Complaints

In May 2016 a local car dealership complained that lorries delivering Ossein to A18 were creating a dust cloud (A similar complaint was received Q4 2015). In response to the complaints the lorry turning area was redesigned and resurfaced. There have been no further complaints since this work was completed

3.3 Foam Complaints

A complaint was received relating to foam appearing from the effluent drain manhole on Taffs Mead Rd. The foam was associated with agitation of the effluent water which contains a weak Gelatin solution. This is due to the A18 effluent drain converging at 90 degrees with the main A21 drain. In response to the complaints the following actions were completed in 2016:

- A new anti foam dosing system was installed on the DAF plant
- The A18 effluent drain was modified with the inclusion of a sweeping bend to reduce turbulence. The effectiveness of the above improvements will be monitored through 2017

3. REVIEW OF ENERGY EFFICIENCY

A review to identify suitable opportunities to improve the energy efficiency of the activities at PB Gelatins will take place every four years. The next review is scheduled for 2017

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 use will take place every four years. The next review is scheduled for 2017

5. REVIEW OF AVOIDANCE, RECOVERY AND DISPOSAL OF WASTES

The next review is scheduled for 2017

6. ANNUAL PRODUCTION / TREATMENT

For the reporting period 2016, PB Gelatins produced 5020 tonnes of Gelatin product

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

7.1 Form Sewer 1

Parameter	Quantity	Units
Effluent sludge	0	Tonnes
Effluent solids	0	Tonnes
Effluent liquid discharged	582063	Tonnes

7.2 Form Performance 1

Parameter	Quantity	Units
Total raw material used (Ossein only)	28692	Tonnes
Ossein sludge waste	11939	Tonnes
Solid bone waste	847	Tonnes

7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	6942	Tonnes
Abstracted water	681627	Tonnes
Total water usage	688569	Tonnes

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Grid electricity consumption	8034	MWh
Gas consumption	58315	MWh
Total energy usage	66349	MWh

8. PERMIT COMPLIANCE ASSESSMENT REPORTS

Four Compliance Assessment Reports were received from NRW in 2016

9. ADDITIONAL ENVIRONMENTAL IMPROVEMENTS

Two large IBC storage containers were purchased. The containers are fitted with integral bunds and together have the capacity to store 12 IBCs