

PB Gelatins Annual Environmental Performance Report 2014

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 water, air or land have been recorded except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3. The limits given in schedule 3 have not been exceeded during 2014.

2. REVIEW OF MONITORING

2.1 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	Weekly	Sample analysis by Welsh Water
DP1	COD	Weekly	Sample analysis by Welsh Water
DP1	Discharge Flow	Continuous	Sample analysis by Welsh Water

2.1.1. Site Effluent - Monitoring Results

Welsh Water analysed 23 effluent samples during 2014. All were reported to be within consent compliance limits (see appendix 1 for monitoring results)

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

2.2.1 Odour – Monitoring Results

System for daily monitoring of odour emissions not implemented in 2014. Formal, recorded sniff testing at site perimeter to be introduced in Q1 2015

2.2.2 Odour – Complaints

In total, nine odour complaints were recorded during 2014. All complaints were received from Keyline Builders Merchants, Taffsmead Road, Treforest Industrial Estate, and relate to odours perceived to be emanating from work activities in the A18 area.

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. 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 2016

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

A review of waste management systems and procedures will take place every four years. The next review is scheduled for 2015

6. ANNUAL PRODUCTION / TREATMENT

For the reporting period 2014, PB Gelatins produced 5471 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	9	Tonnes
Effluent solids	0	Tonnes
Effluent liquid discharged	650163	Tonnes

7.2 Form Performance 1

Parameter	Quantity	Units
Total raw material used (Ossein only)	32140	Tonnes
Ossein sludge waste	12096	Tonnes
Solid bone waste	832	Tonnes

7.3 Form Water Usage 1

Parameter	Quantity	Units
Mains water	2759	Tonnes
Abstracted water	714267	Tonnes
Total water usage	717026	Tonnes

7.4 Form Energy Usage 1

Parameter	Quantity	Units
Grid electricity consumption	7942	MWh
Gas consumption	63596	MWh
Total energy usage	71538	MWh

8. PERMIT COMPLIANCE ASSESSMENT REPORTS

Two Compliance Assessment Reports were received from NRW in 2014

9. PERMIT IMPROVEMENT PROGRAMME REQUIREMENTS

In total, fourteen Improvement Requirements were identified in the Permit. Ten have been completed and four are scheduled for completion in 2015

Appendix 1 – Welsh Water Effluent Sampling Results 2014

Effluent Analysis Welsh Water - Dwr Cymru										
Date	Charging			Consent Compliance						
	COD	TSS	Flow	COD	COD	TSS	Sulphide	Chloride	Sulphate	pH
Limit	8,000	2,000	2,000,000	8,000	8,000	2,000	1.0	1,500	1,800	5 - 11
Max	6,150	593	1,955,080	7,890	8,940	1,238	1	3,761	1,366	11
Avg	1,720	197	1,181,511	2,987	3,254	390	0	662	416	8
Min	195	53	463,485	1,103	1,129	70	0	83	10	3
24-Jan-14	1,548	146	1,312,230	4,418	4,832	744	0.029	1,087	100	6.0
24-Jan-14				3,137	5,470	493	0.029	180	332	9.0
07-Feb-14				2,020	2,176	245	0.029	698	231	9.0
07-Feb-14	1,869	178	1,332,830							
07-Mar-14	1,231	128	1,385,220							
07-Mar-14				2,071	2,119	124	0.029	732	100	9.3
14-Mar-14	1,575	421	1,394,590							
14-Mar-14				4,697	6,230	964	0.092	380	911	8.5
21-Mar-14	1,208	73	1,405,930							
21-Mar-14				1,444	1,517	99	0.061	827	100	7.8
17-Apr-14	1,357	53	1,447,000							
17-Apr-14				2,485	2,727	288	0.029	594	830	7.4
25-Apr-14	1,760	106	1,460,610							
25-Apr-14				2,636	2,737	233	0.029	530	290	7.8
28-Apr-14				2,530	2,710	248	0.044	377	100	8.1
16-May-14	661	245	1,496,130							
16-May-14				1,298	2,406	217	0.029	1,215	759	7.6
21-May-14	1,813	141	1,503,730							
21-May-14				2,753	3,130	330	0.048	391	100	7.2
11-Jun-14	1,885	93	1,543,700							
11-Jun-14				1,895	2,179	221	0.029	510	100	9.0
27-Jun-14	2,162	360	1,571,700							
27-Jun-14				4,034	4,129	770	0.042	438	100	8.2
25-Jul-14	1,418	146	1,621,190							
25-Jul-14				2,730	2,828	225	0.029	716	847	9.0
31-Jul-14	2,632	281	1,632,330							
31-Jul-14				4,329	4,250	232	0.029	428	898	8.7
07-Aug-14	1,219	86	1,644,970							
07-Aug-14				2,060	2,092	292	0.040	477	327	8.1
15-Aug-14	2,275	229	1,658,420							
29-Aug-14	1,850	138	1,684,980							
29-Aug-14				1,610	1,693	252	0.044	239	1,069	8.3
03-Sep-14	6,150	139	1,693,280							
08-Oct-14	1,648	121	1,754,710							
08-Oct-14				4,233	4,334	1,238	0.045	1,265	100	6.3
17-Oct-14	1,434	162	1,771,560							
06-Nov-14	1,583	181	1,806,050							
06-Nov-14				3,364	3,563	303	0.038	1,027	100	6.0
03-Dec-14	1,064	84	1,851,790							
03-Dec-14				1,504	1,497	174	0.036	491	591	8.1
10-Dec-14	387	115	1,862,550							
10-Dec-14				5,450	5,810	448	0.038	895	100	6.0

