



Dunbia (WALES) 2020 Annual Performance Report

Prepared by Luke Healy

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1.0 Introduction

Dunbia (WALES) became a division of the Dawn Meats group in the latter half of 2017. Dunbia (WALES) operates an animal slaughtering and meat processing business at its Llanybydder facility under a PPC Permit, No. BV9863IH issued by Natural Resources Wales. The facility at Llanybydder is comprised of slaughter and boning of carcasses into primal cuts for further processing / retail packing at other facilities.

Condition 4.2.2 of permit BV9863IH requires the operator to produce a report of the performance of the activities with a comparison over the previous year to include the following:

- (a) A review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) The annual production/treatment data set out in schedule 4 table S4.2; and
- (c) The performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

2.0 Monitoring Results Comparison

This section reviews the monitoring results required to be submitted under permit BV9863IH and aims to explain any patterns or changes to the data submitted.

2.1 Production

Year	Slaughtering of Animals (Carcase Sales Tonnes)	Primal Cuts & Retail Packs (Boning Hall Sales Tonnes)	Total Production (Tonnes)
2007	Production data was not collected in this format prior to licence review in 2013.		
2008			
2009			
2010			
2011			
2012			
2013	3,992.404	23,971.66	27,964.064
2014	3,897.663	21,125.312	25,022.975
2015	2,696.765	19,442.125	22,138.890
2016	2,213.251	17,516.19	19,729.441
2017	3,176.316	18,983.913	22,160.23
2018	2,668.596	15,183.404	17,852.000
2019	2,430.390	13,613.667	16,044.057
2020	2,505.065	14,175.751	16,680.816

Explanation for change in 2020

Production tonnage and product mix (The % of product supplied as whole carcasses or undergoing further processing) will change year on year due to a change in requirement for the product supplied. Overall production tonnage is increased slightly in 2020 compared to 2019.

2.2 Water

Year	Mains Water (m ³)	Borehole Water (m ³)	Total Water (m ³)	Water Usage per Tonne of Production (m ³ /T)
2007	2,895	56,514	59,409	Production data was not collected in this format prior to licence review in 2013.
2008	2,752	56,868	59,620	
2009	6,954	48,083	55,037	
2010	8,738	35,785	44,523	
2011	7,378	54,147	61,525	
2012	4,625	52,759	57,384	
2013	5,390	58,575	63,965	2.287
2014	2,464	75,645	78,109	3.12
2015	2,294	90,522	92,816	4.19
2016	3,068	91,762	94,830	4.806
2017	2,465	99,365	101,830	4.595
2018	2,502	101,256	103,758	5.812
2019	2,061	104,520	106,581	6.643
2020	1,448	81,939	83,387	4.999

Explanation for change in 2020

Total water usage has decreased in 2020 compared to 2019, this is due to increased efforts around reductions in water use through KPIs that are communication through site particularly with the Production and Hygiene teams.

2.3 Effluent

Year	Discharged to Sewer via S1(m ³)	Discharged to River via W1 (m ³)	Total Effluent (m ³)	Effluent Generation per Tonne of Production (m ³ /T)	Imported Effluent (m ³)
2007	63,667	0	63,667	Production data was not collected in this format prior to licence review in 2013.	0
2008	63,176	0	63,176		0
2009	47,902	0	47,902		0
2010	30,103	16,504	46,607		0
2011	0	50,293	50,293		0
2012	0	66,220	66,220		0
2013	0	71,451	71,451	2.555	0
2014	0	94,862	94,862	3.791	0
2015	0	89,987	89,987	4.065	0
2016	0	86,933	86,933	4.406	0
2017	0	104,866	104,866	4.732	0
2018	0	105,871	105,871	5.930	0
2019	0	110,052	110,052	6.859	0
2020	0	84,335	84,335	5.056	0

Explanation for change in 2020

Total effluent discharged from Dunbia (Llanybydder) decreased in 2020 compared to 2019. This is in line with the reduction in water use and tankering during centrifuge maintenance.

2.4 Energy

Year	Total Electric (mWh)	Total Gas Oil (mWh)	Total Energy (mWh)	Total Energy per Tonne of Production (mWh/T)
2007	4,370.42	3,631.41	8,001.83	Production data was not collected in this format prior to licence review in 2013.
2008	4,756.03	3,146.87	7,902.9	
2009	4,825.281	3,034.91	7,860.19	
2010	4,900.073	3,788.12	8,688.19	
2011	4,949.416	3,437.347	8,386.76	
2012	4,597.886	3,593.08	8,190.97	
2013	5,454.174	4,688.136	10,142.31	0.363
2014	5,537.363	4,632.90	10,170.26	0.406
2015	5,144.454	5,340.09	10,484.54	0.474
2016	5,409.877	4,945.46	10,355.34	0.525
2017	5,773.418	4,872.81	10,646.23	0.480
2018	5,919.908	6,162.41	12,082.31	0.677
2019	5,745.143	5,426.60	11,171.74	0.696
2020	4,984.611	5,096.36	10,080.97	0.604

Explanation for change in 2020

There has been a decrease in overall total energy consumption and a reduction in energy consumption per tonne of production in 2020 compared to 2019. This reduction in energy consumption is due to increased efforts around KPIs and waste reduction linked to ISO50001.

2.5 Waste

Year	Average BOD (mg/L)	Hazardous Recovery (Tonnes)	Hazardous Disposal (Tonnes)	Non Hazardous Recovery (Tonnes)	Non-Hazardous Disposal (Tonnes)	Total Waste per Tonne Production (T/T)
2007	1,590.44	2.81	0	14,522	231	Production data was not collected in this format prior to licence review in 2013.
2008	1,477.35	2.59	0	15,301.22	213.15	
2009	136.9	35.76	0	12,248.54	230	
2010	182.51	65.07	0	11,548.99	225	
2011	2.39	61.46	0	13,712.96	219.3	
2012	2.16	74.85	0	12,522.28	136.44	
2013	2.03	10.68	0	13,555.59	254.92	0.494
2014	2.12	11.92	0	4,378.48	0	0.175
2015	1.34	38.31	0	6,137.47	0	0.279
2016	1.21	27.10	0	3,723.87	0	0.190
2017	1.95	33.38	0	3,336.71	0	0.152
2018	1.55	21.035	0	4,218.65	0	0.238
2019	2.0	2.35	0	4,170.29	0	0.2589
2020	1.96	6.343	0	4,902.72	0	0.2943

Explanation for change in 2020

The average BOD of the effluent discharge has decreased slightly in 2020 compared to 2019.

There is an increase in tonnage of both hazardous and non-hazardous wastes removed from Dunbia (Llanybydder) in 2020 compared to 2019. The increase in non-hazardous waste was due to the liquid sludge removed during maintenance to the centrifuge in the ETP, the difference in weight here is the water weight which the centrifuge would normally separate.

All waste was diverted from landfill in 2020.