



ENVIRONMENTAL MONITORING REPORT JBS YAMBINYA FEEDLOT

Environment Protection Licence Summary	
Licence (EPL) Number:	5245
Licensee's Name:	JBS Australia Pty Limited
Premises Address:	Yambinya Station, Jimaringle Road, Burraboii NSW 2732
Reporting Year:	02 JANUARY 2020 – 01 JANUARY 2021

EPA Monitoring Requirements –JBS Yambinya

Point 7			
Pollutant	Units of Measure	Frequency	Sampling Method
Chloride	mg/kg	Yearly during discharge	Special Method 1
Conductivity	deciSiemens/M	Yearly during discharge	Special Method 1
Exchangeable Calcium	centimoles of positive charge per Kg of soil	Yearly during discharge	Special Method 1
Exchangeable Magnesium	centimoles of positive charge/Kg of soil	Yearly during discharge	Special Method 1
Exchangeable Potassium	centimoles of positive charge/Kg of soil	Yearly during discharge	Special Method 1
Exchangeable Sodium	centimoles of positive charge per Kg of soil	Yearly during discharge	Special Method 1
Exchangeable Sodium Percentage	%	Yearly during discharge	Special Method 1
pH	pH	Yearly during discharge	Special Method 1
Phosphorus (total)	mg/kg	Yearly during discharge	Special Method 1
Phosphorus Sorption Capacity	mg/kg	3 years	Special Method 1
TKN-N	%	Yearly during discharge	Special Method 1
Total organic carbon	Percent	3 years	Special Method 1

Note: The monitoring frequency includes the term "during discharge". This means monitoring of bores and effluent reuse area is only required when premises is operational

Point 8			
Pollutant	Units of Measure	Frequency	Sampling Method
Conductivity	deciSiemens per metre	Quarterly during discharge	Representative sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly during discharge	Representative sample
pH	pH	Quarterly during discharge	Representative sample
Phosphorus (total)	milligrams per litre	Quarterly during discharge	Representative sample
Standing Water level	metres	Quarterly during discharge	Inspection
TKN-N	milligrams per litre	Quarterly during discharge	Representative sample

Point 9			
Pollutant	Units of Measure	Frequency	Sampling Method
Conductivity	deciSiemens per metre	Quarterly during discharge	Representative sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly during discharge	Representative sample
pH	pH	Quarterly during discharge	Representative sample
Phosphorus (total)	milligrams per litre	Quarterly during discharge	Representative sample
Standing Water level	metres	Quarterly during discharge	Inspection
TKN-N	milligrams per litre	Quarterly during discharge	Representative sample

Point 10			
Pollutant	Units of Measure	Frequency	Sampling Method
Conductivity	deciSiemens per metre	Quarterly during discharge	Representative sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly during discharge	Representative sample
pH	pH	Quarterly during discharge	Representative sample
Phosphorus (total)	milligrams per litre	Quarterly during discharge	Representative sample
Standing Water level	metres	Quarterly during discharge	Inspection
TKN-N	milligrams per litre	Quarterly during discharge	Representative sample

Point 11			
Pollutant	Units of Measure	Frequency	Sampling Method
Conductivity	deciSiemens per metre	Quarterly during discharge	Representative sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly during discharge	Representative sample
pH	pH	Quarterly during discharge	Representative sample
Phosphorus (total)	milligrams per litre	Quarterly during discharge	Representative sample
Standing Water level	metres	Quarterly during discharge	Inspection
TKN-N	milligrams per litre	Quarterly during discharge	Representative sample

Data Gaps During Jan 2020- Dec 2021 reporting Period

- Groundwater bores 3 (EPA 10) and bore 4 (EPA 11) have been dry during the period and unable to provided samples for analysis.
- 2020 - 4th Quarter ground water samples were not provided for analysis due to impact of Covid-19 and therefore only 3 out of 4 quarters analysed during the reporting period.

JBS Yambinya – Environmental Monitoring Points



JBS Yambinya - Monitoring Results

Type: Groundwater Monitoring

Frequency: Quarterly during discharge

GROUNDWATER												
				Pollutant	Conductivity	Nitrate + Nitrite (oxidised nitrogen)	pH	Phosphorus (total)	Standing Water Level	TKN-N		
				Units of measure	decisiemens/M	mg/l	pH	mg/L	Metres	mg/L		
				Frequency	Quarterly							
				Limits	N/A	N/A	N/A	N/A	N/A	N/A		
EPA Licence Location	JBS Sampling Location	Number of Samples required	Number of samples collected and analysed	Date of Sampling	Date of Analysis	Date Results Obtained	Test Results					
EPA 8	Bore No. 1	4	3	24/12/2019	6/01/2020	10/01/2020	45000	0.9	6.2	0.038	4.2	<0.01
				26/04/2020	3/06/2020	16/06/2020	46000	0.57	6.4	0.037	4	0.054
				16/09/2020	22/09/2020	30/09/2020	46000	0.59	6.6	0.61	4	<0.01
				4th Quarter	n/a	No Sample	n/a	n/a	n/a	n/a	n/a	n/a
EPA 9	Bore No. 2	4	3	24/12/2019	6/01/2020	10/01/2020	3200	0.23	6.9	0.17	4	0.4
				26/04/2020	3/06/2020	16/06/2020	1900	0.44	7	0.19	4	0.19
				16/09/2020	22/09/2020	30/09/2020	1500	0.22	7.2	0.24	4	0.13
				4th Quarter	n/a	No Sample	n/a	n/a	n/a	n/a	n/a	n/a
EPA 10	Bore No. 3	4	0	24/12/2019	6/01/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				26/04/2020	3/06/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				16/09/2020	22/09/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				4th Quarter	n/a	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
EPA 11	Bore No. 4	4	0	24/12/2019	6/01/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				26/04/2020	3/06/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				16/09/2020	22/09/2020	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a
				4th Quarter	n/a	No water in Bore	n/a	n/a	n/a	n/a	n/a	n/a

Type: Soil Quality Monitoring / Solid Waste Utilisation Area

Frequency: Yearly during discharge

										Date 10/02/2020		
EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Pollutant	Units of measure	Limits	Date of Sampling	Date Results Obtained	Number of samples Required	Number of samples collected and analysed	Lowest Sample Value	Mean Value	Highest Sample Value
EPA 7	Property boundaries of Lots 76 and 77	Yearly	Chloride	mg/kg	N/A	10/02/2020	14/02/2020	2	2	39.2	127.1	215
			Conductivity (saturated Extract)	deciSiemens/M	N/A	10/02/2020	14/02/2020	2	2	1.7	1.9	2.1
			Exchangeable Calcium	centimoles of positive charge per Kg of soil	N/A	10/02/2020	14/02/2020	2	2	13.2	13.35	13.5
			Exchangeable Magnesium	centimoles of positive charge/Kg of soil	N/A	10/02/2020	14/02/2020	2	2	7.52	8.485	9.45
			Exchangeable Potassium	centimoles of positive charge/Kg of soil	N/A	10/02/2020	14/02/2020	2	2	1.7	1.79	1.88
			Exchangeable Sodium	centimoles of positive charge per Kg of soil	N/A	10/02/2020	14/02/2020	2	2	0.65	1.185	1.72
			Exchangeable Sodium Percentage	%	N/A	10/02/2020	14/02/2020	2	2	2.58	4.81	7.04
			pH (1:5 Water)	pH	N/A	10/02/2020	14/02/2020	2	2	8	8	8
			Phosphorus (total)	mg/kg	N/A	10/02/2020	14/02/2020	2	2	29	81	133
TKN-N	%	N/A	10/02/2020	14/02/2020	2	2	0.12	0.135	0.15			

Frequency: Once every 3 Years during discharge

										Date 10/02/2020		
EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Pollutant	Units of measure	Limits	Date of Sampling	Date Results Obtained	Number of samples Required	Number of samples collected and analysed	Lowest Sample Value	Mean Value	Highest Sample Value
EPA 7	Property boundaries of Lots 76 and 77	3 Years	Phosphorus Sorption Capacity	mg/kg	N/A	10/02/2020	14/02/2020	2	2	287	300.5	314
			Total Organic Carbon	%	N/A	10/02/2020	14/02/2020	2	2	0.97	1.23	1.49