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, Burraboi NSW 2732**
Reporting Year:	**02 JANUARY 2022 – 01 JANUARY 2023**

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 are 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 02 Jan 2022 - 01 Jan 2023 reporting period

- Groundwater monitoring was missed for Q1, Q2, and Q4 due to site access issues including floods. EPA 10 is historically dry. No discharge of wastewater occurred during the reporting period.
- Soil monitoring was missed due to site access issues due to flooding, however, 2022 soil monitoring was undertaken in March 2023. No discharge of wastewater occurred during the reporting period.

JBS Yambinya – Environmental Monitoring Points

JBS Yambinya - Monitoring Results

Type: Groundwater Monitoring

Frequency: Quarterly during discharge

					Pollutants					
EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Sampled By	Conductivity (µS/cm)	Nitrate + Nitrite (oxidised nitrogen) (mg/L)	pH	Phosphorus Total (mg/L)	Standing Water Level (m)	TKN-N (mg/L)
EPA 8	Bore No. 1	Quarterly								
			23/10/2022	A. Fisher	46000	1.5	6.8	0.052	4	0.13
EPA 9	Bore No. 2	Quarterly								
			23/10/2022	A. Fisher	1300	0.87	7.4	0.2	4	0.33
EPA 10	Bore No. 3	Quarterly								
			23/10/2022	A. Fisher					Bore Dry	
EPA 11	Bore No. 4	Quarterly								
			23/10/2022	A. Fisher	6200	0.81	7.5	0.75	4	0.37

Type: Soil Quality Monitoring / Solid Waste Utilisation Area

Frequency: Yearly during discharge

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Pollutant	Units of measure	Date of Sampling	Sampled By	Results
EPA 7	Property boundaries of Lots 76 and 77 - Sample MP4	Yearly	Chloride	mg/kg	8/03/2023	A. Fisher	48
			Conductivity (saturated Extract)	deciSiemens/M	8/03/2023	A. Fisher	150
			Exchangeable Calcium	centimoles of positive charge per Kg of soil	8/03/2023	A. Fisher	11
			Exchangeable Magnesium	centimoles of positive charge/Kg of soil	8/03/2023	A. Fisher	0.83
			Exchangeable Potassium	centimoles of positive charge/Kg of soil	8/03/2023	A. Fisher	0.18
			Exchangeable Sodium	centimoles of positive charge per Kg of soil	8/03/2023	A. Fisher	0.17
			Exchangeable Sodium Percentage	%	8/03/2023	A. Fisher	1.4
			pH (1:5 Water)	pH	8/03/2023	A. Fisher	6.1
			Phosphorus (total)	mg/kg	8/03/2023	A. Fisher	280
			TKN-N	mg/kg	8/03/2023	A. Fisher	800
		3 Years	Phosphorus Sorption Capacity	mg/kg	10/02/2020	A. Fisher	287
			Total Organic Carbon	%	10/02/2020	A. Fisher	0.97
EPA 7	Property boundaries of Lots 76 and 77 - Sample MP5	Yearly	Chloride	mg/kg	8/03/2023	A. Fisher	96
			Conductivity (saturated Extract)	deciSiemens/M	8/03/2023	A. Fisher	310
			Exchangeable Calcium	centimoles of positive charge per Kg of soil	8/03/2023	A. Fisher	8.1

			Exchangeable Magnesium	centimoles of positive charge/Kg of soil	8/03/2023	A. Fisher	1.1
			Exchangeable Potassium	centimoles of positive charge/Kg of soil	8/03/2023	A. Fisher	0.2
			Exchangeable Sodium	centimoles of positive charge per Kg of soil	8/03/2023	A. Fisher	0.19
			Exchangeable Sodium Percentage	%	8/03/2023	A. Fisher	2
			pH (1:5 Water)	pH	8/03/2023	A. Fisher	6.3
			Phosphorus (total)	mg/kg	8/03/2023	A. Fisher	1600
			TKN-N	mg/kg	8/03/2023	A. Fisher	2400
		3 Years	Phosphorus Sorption Capacity	mg/kg	10/02/2020	A. Fisher	329.9
			Total Organic Carbon	%	10/02/2020	A. Fisher	1.49