



Environment Monitoring Report

December 2013

EPA Licence number: 1511

PO Box 123
Bega NSW 2550
Australia
Reception Ph: +61-2-6491 7777
Environment Line Ph: +61-2-6491 7691

Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Air	EPA 12-Air emissions monitoring, back up boiler PPU				0.35 g/m3	Yearly	
		Nitrogen Oxides	0.05	g/m3			
		Lab report number	RP251113				
		Sampled date	18/12/2013				
		Lab received date					
		Report received date	18/12/2013				
		<u>Summary</u>					
	Sampled in November, report finalised in December						
	EPA 22-Air emissions monitoring, main boiler PPU					0.35 g/m3	Yearly
		Nitrogen Oxides	0.095	g/m3			
		Lab report number	RP251113				
		Sampled date	18/12/2013				
		Lab received date					
		Report received date	18/12/2013				
<u>Summary</u>							
Sampled in November, report finalised in December							



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BEGA CHEESE
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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Air	EPA 24 - Air emissions monitoring, gas boiler stack DPU				0.35 g/m3	Yearly	
		Nitrogen Oxides	0.047	g/m3			
		Lab report number	N91994				
		Sampled date	16/12/2013				
		Lab received date	18/12/2013				
		Report received date	24/12/2013				
		<u>Summary</u>					
	EPA 7- Air emissions monitoring, DPU boiler Stack					0.25 g/m3	Yearly
		Particulate matter	0.21	g/m3			
		Lab report number	N91994				
Sampled date		16/12/2013					
Lab received date		18/12/2013					
Report received date		24/12/2013					
<u>Summary</u>							



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Air	EPA 8-Air emissions monitoring, Whey plant stack DPU				0.25 g/m3	Special frequency 2
		Particulate matter	0.27	g/m3		
		Lab report number	N91994			
		Sampled date	16/12/2013			
		Lab received date	18/12/2013			
		Report received date	24/12/2013			
<p><u>Summary</u></p> <p>Results of the two samples taken as per license requirement are 0.25g/m3 and 0.29g/m3. The average reported as being 0.27g/m3. Stack test result exceeding limit appears an anomaly as the higher result occurred when the stack was clean.</p>						



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Noise	L3.2 - Noise emissions during night time (10pm to 7am) at the most affected residential property				LA10(15 minutes) 45dB (A)	Yearly
		Lab report number				
		Sampled date				
		Report received date				
		Summary	Testing is conducted yearly and is not required this month			
Noise	L3.3 - Noise emissions during day time at the most affected residential property				LA1(15 minute) 53 dB (A)	Yearly
		Lab report number				
		Sampled date				
		Report received date				
		Summary	Testing is conducted yearly and is not required this month			



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Water & Land	EPA 1 – Volume monitoring from DPU to utilisation areas - The Ranch, Wet Weather Storage Dam, Angeldale Apps Farm West, Apps Farm East, Apps Flat, Rockleigh, Ubrihien & Factory Flats				none	Daily	
		Irrigation Days	31				
		Volume (Average)	1424	kL/day			
		Volume (Min-Max)	1162 - 1711	kL/day			
		Sampled date	31/12/2013				
	Summary						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Conductivity	1300	µS/cm			
		Nitrate	0.06	mg/L			
		PH	6.3				
Lab report number		N044516					
Sampled date		19/12/2013					
Lab received date		27/12/2013					
Report received date		8/01/2014					
Summary							
BOD was not tested on this occasion. A test request sheet, specific to this sample, has been developed to ensure the test is performed when sending multiple samples to the laboratory for testing. Historically BOD is typically <5 mg/L.							



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 25 - 'Control' Groundwater monitoring point at corner of Daisy Hill & Buckajo Rd				none	Quarterly
		Conductivity	940	µS/cm		
		Depth	2.10	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	0.63	mg/L		
		Phosphorus (total)	0.17	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 26 - Groundwater monitoring point at 'The Ranch' fenceline				none	Quarterly
		Conductivity	1100	µS/cm		
		Depth	3.70	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	0.25	mg/L		
		Phosphorus (total)	0.25	mg/L		
		PH	6.5			
		Available phosphorus	0.12	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 27 - Groundwater monitoring point at Bega River crossing, Factory Flats				none	Quarterly
		Conductivity	1100	µS/cm		
		Depth	4.55	m		
		Nitrate	2.1	mg/L		
		Nitrogen (total)	2.9	mg/L		
		Phosphorus (total)	0.13	mg/L		
		PH	6.3			
		Available phosphorus	0.02	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 28 - Groundwater monitoring point at Apps Farm near bridge				none	Quarterly
		Conductivity	2100	µS/cm		
		Depth	4.80	m		
		Nitrate	4.2	mg/L		
		Nitrogen (total)	5.6	mg/L		
		Phosphorus (total)	0.17	mg/L		
		PH	6.7			
		Available phosphorus	0.004	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 29 - Groundwater monitoring point at Apps Farm, east river flats				none	Quarterly
		Conductivity	1000	µS/cm		
		Depth	5.70	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	0.72	mg/L		
		Phosphorus (total)	0.4	mg/L		
		PH	6.2			
		Available phosphorus	0.004	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 30 - Groundwater monitoring point at Apps/Ubrihien farm south				none	Quarterly
		Conductivity	250	µS/cm		
		Depth	5.55	m		
		Nitrate	0.11	mg/L		
		Nitrogen (total)	1	mg/L		
		Phosphorus (total)	0.14	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Water & Land	EPA 31 - 'Control' Groundwater monitoring point at Ubrihien farm west				none	Quarterly
		Conductivity	1300	µS/cm		
		Depth	6.50	m		
		Nitrate	0.06	mg/L		
		Nitrogen (total)	2.4	mg/L		
		Phosphorus (total)	0.15	mg/L		
		PH	6.3			
		Available phosphorus	0.057	mg/L		
		Lab report number	N044516			
		Sampled date	19/12/2013			
		Lab received date	27/12/2013			
		Report received date	8/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 5-Effluent quality monitoring, DPU holding tanks 1 & 2				none	Monthly
		Biochemical oxygen demand	2300	mg/L		
		Conductivity	2493	µS/cm		
		Nitrate	14	mg/L		
		Nitrogen (total)	160	mg/L		
		Phosphorus (total)	50	mg/L		
		Sodium	670	mg/L		
		Sodium adsorption ratio	20			
		Total suspended solids	800	mg/L		
		PH	4.83			
		Lab report number	N044553			
		Sampled date	31/12/2013			
		Lab received date	2/01/2014			
		Report received date	13/01/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Water & Land	EPA 6-Effluent quality & discharge volume monitoring from WWSD holding tank to utilisation areas 'The Ranch' and 'Grevillea'				none	Special frequency 1	
		Biochemical oxygen demand	850	mg/L			
		Conductivity	2300	µS/cm			
		Faecal coliforms	100000	cfu/100 ml			
		Nitrate	1	mg/L			
		Nitrogen (total)	76	mg/L			
		Phosphorus (total)	25	mg/L			
		Sodium	270	mg/L			
		Sodium adsorption ratio	11				
		Total suspended solids	140	mg/L			
		PH	6.4				
		Irrigation Days	1				
		Volume (Average)	800	kL/day			
		Volume (Min-Max)	800 - 800	kL/day			
		Lab report number	N044340 N044613				
		Sampled date	9/12/2013				
		Lab received date	10/12/2013				
		Report received date	23/12/2013				
<u>Summary</u>							



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Glossary

Abbreviation	Description
DPU	Dairy Processing Unit, Lagoon St
Lab	Laboratory
PPU	Processing & Packaging Plant, Ridge St
special frequency 1	Monthly sampling during discharge from point 6 during any month that discharge occurs
special frequency 2	Annual sampling of two samples: sample 1 collected no more than 1 hour before the stack is washed, and sample 2 collected no more than 1 hour after the stack is washed.
WWSD	Wet weather storage dam