



# Environment Monitoring Report

**December 2015**

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	0.11	g/m3			
		Lab report number	R002093				
		Sampled date	7/12/2015				
		Lab received date	7/12/2015				
		Report received date	25/01/2016				
		<b><u>Summary</u></b>					
	EPA 22-Air emissions monitoring, main boiler PPU					0.35 g/m3	Yearly
		Nitrogen Oxides	0.16	g/m3			
		Lab report number	R002093				
		Sampled date	7/12/2015				
		Lab received date	7/12/2015				
		Report received date	25/01/2016				
		<b><u>Summary</u></b>					



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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	
		Lab report number					
		Sampled date					
		Lab received date					
		Report received date					
	<b>Summary</b>		Testing is conducted yearly and is not required this month				
	EPA 7- Air emissions monitoring, DPU boiler Stack					0.25 g/m3	Yearly
		Particulate matter	0.184	g/m3			
		Lab report number	R001631				
		Sampled date	1/12/2015				
Lab received date		1/12/2015					
Report received date		1/12/2015					
<b>Summary</b>		Testing was conducted on 8 September 2015 using hardwood.					



**BEGA CHEESE**  
SINCE 1899

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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
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
<p><b><u>Summary</u></b> Testing is conducted yearly and is not required this month</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				
		<b>Summary</b>		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				
		<b>Summary</b>		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)	1481	kL/day			
		Volume (Min-Max)	1204 - 1719	kL/day			
		Sampled date	31/12/2015				
	<b><u>Summary</u></b>						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Biochemical oxygen demand	5	mg/L			
		Conductivity	1500	µS/cm			
		Nitrate	0.06	mg/L			
PH		6					
Lab report number		N057650					
Sampled date		10/12/2015					
Lab received date		11/12/2015					
Report received date		22/12/2015					
<b><u>Summary</u></b>							



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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	820	µS/cm		
		Depth	1.60	m		
		Nitrate	3	mg/L		
		Nitrogen (total)	4.1	mg/L		
		Phosphorus (total)	0.13	mg/L		
		PH	6.6			
		Available phosphorus	0.027	mg/L		
		Lab report number	N057650			
		Sampled date	10/12/2015			
		Lab received date	11/12/2015			
		Report received date	22/12/2015			
		<b><u>Summary</u></b>				



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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	1600	µS/cm		
		Depth	3.60	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	0.32	mg/L		
		Phosphorus (total)	0.075	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057650			
		Sampled date	10/12/2015			
		Lab received date	11/12/2015			
		Report received date	22/12/2015			
		<b><u>Summary</u></b>				



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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	870	µS/cm		
		Depth	4.65	m		
		Nitrate	1.6	mg/L		
		Nitrogen (total)	0.01	mg/L		
		Phosphorus (total)	0.012	mg/L		
		PH	6.1			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057650			
		Sampled date	10/12/2015			
		Lab received date	11/12/2015			
		Report received date	22/12/2015			
		<b><u>Summary</u></b>				





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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	1400	µS/cm		
		Depth	4.75	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	1.7	mg/L		
		Phosphorus (total)	0.15	mg/L		
		PH	6.4			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057650			
		Sampled date	10/12/2015			
		Lab received date	11/12/2015			
		Report received date	22/12/2015			
		<b><u>Summary</u></b>				



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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	880	µS/cm		
		Depth	5.70	m		
		Nitrate	0.04	mg/L		
		Nitrogen (total)	0.64	mg/L		
		Phosphorus (total)	0.4	mg/L		
		PH	6.4			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057835			
		Sampled date	16/12/2015			
		Lab received date	17/12/2015			
		Report received date	31/12/2015			
		<b><u>Summary</u></b>				



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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	210	µS/cm		
		Depth	5.50	m		
		Nitrate	0.04	mg/L		
		Nitrogen (total)	1	mg/L		
		Phosphorus (total)	0.038	mg/L		
		PH	6.5			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057835			
		Sampled date	16/12/2015			
		Lab received date	17/12/2015			
		Report received date	31/12/2015			
		<b><u>Summary</u></b>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 31 - 'Control' Groundwater monitoring point at Ubrihien farm west				none	Quarterly
		Conductivity	1100	µS/cm		
		Depth	5.80	m		
		Nitrate	2	mg/L		
		Nitrogen (total)	2.4	mg/L		
		Phosphorus (total)	0.12	mg/L		
		PH	5.9			
		Available phosphorus	0.004	mg/L		
		Lab report number	N057835			
		Sampled date	16/12/2015			
		Lab received date	17/12/2015			
		Report received date	31/12/2015			
		<b><u>Summary</u></b>				



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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	4500	mg/L		
		Conductivity	2794	µS/cm		
		Faecal coliforms	205000	cfu/100 ml		
		Nitrate	11	mg/L		
		Nitrogen (total)	270	mg/L		
		Phosphorus (total)	93	mg/L		
		Sodium	860	mg/L		
		Sodium adsorption ratio	23			
		Total suspended solids	1400	mg/L		
		PH	4.66			
		Lab report number	N057940			
		Sampled date	31/12/2015			
		Lab received date	5/01/2015			
		Report received date	12/01/2016			
<b><u>Summary</u></b>						



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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	1300	mg/L		
		Conductivity	4700	µS/cm		
		Faecal coliforms	10000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	170	mg/L		
		Phosphorus (total)	52	mg/L		
		Sodium	570	mg/L		
		Sodium adsorption ratio	15			
		Total suspended solids	160	mg/L		
		PH	6.2			
		Irrigation Days	18			
		Volume (Average)	1012	kL/day		
		Volume (Min-Max)	71 - 3256	kL/day		
		Lab report number	N057651			
		Sampled date	10/12/2015			
		Lab received date	11/12/2015			
Report received date	22/12/2015					
<b><u>Summary</u></b>						



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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