



Environment Monitoring Report

February 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	0.057	g/m3			
		Lab report number	R000491				
		Sampled date	3/02/2015				
		Lab received date	20/02/2015				
		Report received date	2/03/2015				
		<u>Summary</u>					
	EPA 22-Air emissions monitoring, main boiler PPU					0.35 g/m3	Yearly
		Nitrogen Oxides	0.12	g/m3			
		Lab report number	R000491				
		Sampled date	3/02/2015				
		Lab received date	20/02/2015				
		Report received date	2/03/2015				
		<u>Summary</u>					



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BEGA CHEESE
SINCE 1899

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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	0.089	g/m3			
		Lab report number	R000491				
		Sampled date	2/02/2015				
		Lab received date	20/02/2015				
		Report received date	2/03/2015				
		<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	R000491				
Sampled date		2/02/2015					
Lab received date		20/02/2015					
Report received date		2/03/2015					
<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	0.34	g/m3		
		Lab report number	R000491			
		Sampled date	4/02/2015			
		Lab received date	20/02/2015			
		Report received date	2/03/2015			
<u>Summary</u>						
An emission reduction study is underway						



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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	28				
		Volume (Average)	1366	kL/day			
		Volume (Min-Max)	1090 - 1531	kL/day			
		Sampled date	28/02/2015				
	<u>Summary</u>						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Biochemical oxygen demand	5	mg/L			
		Conductivity	990	µS/cm			
		Nitrate	0.74	mg/L			
PH		6.3					
Lab report number		N052114					
Sampled date		18/02/2015					
Lab received date		24/02/2015					
Report received date		11/03/2015					
<u>Summary</u>							



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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	840	µS/cm		
		Depth	1.65	m		
		Nitrate	0.31	mg/L		
		Nitrogen (total)	1.1	mg/L		
		Phosphorus (total)	0.1	mg/L		
		PH	6.6			
		Available phosphorus	0.028	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	1000	µS/cm		
		Depth	3.60	m		
		Nitrate	0.08	mg/L		
		Nitrogen (total)	0.56	mg/L		
		Phosphorus (total)	0.12	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	850	µS/cm		
		Depth	4.60	m		
		Nitrate	4.6	mg/L		
		Nitrogen (total)	4.9	mg/L		
		Phosphorus (total)	0.015	mg/L		
		PH	6.3			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	860	µS/cm		
		Depth	5.55	m		
		Nitrate	0.03	mg/L		
		Nitrogen (total)	1	mg/L		
		Phosphorus (total)	0.069	mg/L		
		PH	6.3			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	860	µS/cm		
		Depth	4.65	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	1.1	mg/L		
		Phosphorus (total)	0.056	mg/L		
		PH	6.7			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	340	µS/cm		
		Depth	5.40	m		
		Nitrate	0.75	mg/L		
		Nitrogen (total)	1.8	mg/L		
		Phosphorus (total)	0.056	mg/L		
		PH	6.4			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<u>Summary</u>				



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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	890	µS/cm		
		Depth	6.40	m		
		Nitrate	1.8	mg/L		
		Nitrogen (total)	2.2	mg/L		
		Phosphorus (total)	0.11	mg/L		
		PH	5.9			
		Available phosphorus	0.004	mg/L		
		Lab report number	N052107			
		Sampled date	18/02/2015			
		Lab received date	24/02/2015			
		Report received date	11/03/2015			
		<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	2200	mg/L		
		Conductivity	2531	µS/cm		
		Faecal coliforms	240000000	cfu/100 ml		
		Nitrate	1.4	mg/L		
		Nitrogen (total)	120	mg/L		
		Phosphorus (total)	34	mg/L		
		Sodium	520	mg/L		
		Sodium adsorption ratio	16			
		Total suspended solids	790	mg/L		
		PH	5.36			
		Lab report number	N052193			
		Sampled date	28/02/2015			
		Lab received date	3/03/2015			
		Report received date	16/03/2015			
Summary						



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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	840	mg/L		
		Conductivity	3800	µS/cm		
		Faecal coliforms	5500000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	120	mg/L		
		Phosphorus (total)	38	mg/L		
		Sodium	450	mg/L		
		Total suspended solids	260	mg/L		
		PH	6.9			
		Irrigation Days	11			
		Volume (Average)	624	kL/day		
		Volume (Min-Max)	61 - 1072	kL/day		
		Lab report number	N051918			
		Sampled date	18/02/2015			
		Lab received date	19/02/2015			
		Report received date	28/02/2015			
<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