



# Environment Monitoring Report

**January 2016**

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    |        |
|                      |   | 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 22-Air emissions monitoring, main boiler PPU    |  |  |      |           | 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 |  |      |           |           |        |



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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 |
|                      |   | Lab report number  |  |      |           |           |        |
|                      |   | Sampled date   |  |      |           |           |        |
|                      |   | Lab received date  |  |      |           |           |        |
| Report received date |   |  |  |      |           |           |        |
| <b>Summary</b>       |   | Testing is conducted yearly and is not required this month |  |      |           |           |        |



**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><br/>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><br>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><br>Testing is conducted yearly and is not required this month |              |      |                           |           |



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|-----------------------|--|---------------------------|--------------|--------|-------|-----------|-----------|
| 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           | 23           |        |       |           |           |
|                       |  | Volume (Average)          | 701          | kL/day |       |           |           |
|                       |  | Volume (Min-Max)          | 27 - 1625    | kL/day |       |           |           |
|                       |  | Sampled date              | 31/01/2016   |        |       |           |           |
|                       | <b><u>Summary</u></b>  |                           |              |        |       |           |           |
|                       | EPA 23-Environmental monitoring subsurface drainage sump at WWSD   |                           |              |        |       | none      | Quarterly |
|                       |  | Biochemical oxygen demand | 5            | mg/L   |       |           |           |
|                       |  | Conductivity              | 1300         | µS/cm  |       |           |           |
|                       |  | Nitrate                   | 0.43         | mg/L   |       |           |           |
| PH                    |  | 6.3                       |              |        |       |           |           |
| Lab report number     |  | N058341                   |              |        |       |           |           |
| Sampled date          |  | 28/01/2016                |              |        |       |           |           |
| Lab received date     |  | 29/01/2016                |              |        |       |           |           |
| Report received date  |  | 4/02/2016                 |              |        |       |           |           |
| <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          | 900          | µS/cm |       |           |
|                 |  | Depth                 | 1.20         | m     |       |           |
|                 |  | Nitrate               | 12           | mg/L  |       |           |
|                 |  | Nitrogen (total)      | 13           | mg/L  |       |           |
|                 |  | Phosphorus (total)    | 0.097        | mg/L  |       |           |
|                 |  | PH                    | 6.7          |       |       |           |
|                 |  | Available phosphorus  | 0.033        | mg/L  |       |           |
|                 |  | Lab report number     | N058453      |       |       |           |
|                 |  | Sampled date          | 28/01/2016   |       |       |           |
|                 |  | Lab received date     | 29/01/2016   |       |       |           |
|                 |  | Report received date  | 11/02/2016   |       |       |           |
|                 |  | <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          | 1400         | µS/cm |       |           |
|                 |  | Depth                 | 3.45         | m     |       |           |
|                 |  | Nitrate               | 1            | mg/L  |       |           |
|                 |  | Nitrogen (total)      | 1.6          | mg/L  |       |           |
|                 |  | Phosphorus (total)    | 0.072        | mg/L  |       |           |
|                 |  | PH                    | 6.7          |       |       |           |
|                 |  | Available phosphorus  | 0.004        | mg/L  |       |           |
|                 |  | Lab report number     | N058453      |       |       |           |
|                 |  | Sampled date          | 28/01/2016   |       |       |           |
|                 |  | Lab received date     | 29/01/2016   |       |       |           |
|                 |  | Report received date  | 11/02/2016   |       |       |           |
|                 |  | <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          | 940          | µS/cm |       |           |
|                 |   | Depth                 | 4.45         | m     |       |           |
|                 |   | Nitrate               | 4.9          | mg/L  |       |           |
|                 |   | Nitrogen (total)      | 5.4          | mg/L  |       |           |
|                 |   | Phosphorus (total)    | 0.048        | mg/L  |       |           |
|                 |   | PH                    | 6.3          |       |       |           |
|                 |   | Available phosphorus  | 0.004        | mg/L  |       |           |
|                 |   | Lab report number     | N058453      |       |       |           |
|                 |   | Sampled date          | 28/01/2016   |       |       |           |
|                 |   | Lab received date     | 29/01/2016   |       |       |           |
|                 |   | Report received date  | 11/02/2016   |       |       |           |
|                 |   | <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          | 1100         | µS/cm |       |           |
|                 |  | Depth                 | 4.60         | m     |       |           |
|                 |  | Nitrate               | 3.3          | mg/L  |       |           |
|                 |  | Nitrogen (total)      | 4.5          | mg/L  |       |           |
|                 |  | Phosphorus (total)    | 0.05         | mg/L  |       |           |
|                 |  | PH                    | 6.7          |       |       |           |
|                 |  | Available phosphorus  | 0.012        | mg/L  |       |           |
|                 |  | Lab report number     | N058453      |       |       |           |
|                 |  | Sampled date          | 28/01/2016   |       |       |           |
|                 |  | Lab received date     | 29/01/2016   |       |       |           |
|                 |  | Report received date  | 11/02/2016   |       |       |           |
|                 |  | <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          | 1300         | µS/cm |       |           |
|                 |  | Depth                 | 5.50         | m     |       |           |
|                 |  | Nitrate               | 0.06         | mg/L  |       |           |
|                 |  | Nitrogen (total)      | 1.2          | mg/L  |       |           |
|                 |  | Phosphorus (total)    | 0.035        | mg/L  |       |           |
|                 |  | PH                    | 6.1          |       |       |           |
|                 |  | Available phosphorus  | 0.004        | mg/L  |       |           |
|                 |  | Lab report number     | N058453      |       |       |           |
|                 |  | Sampled date          | 28/01/2016   |       |       |           |
|                 |  | Lab received date     | 29/01/2016   |       |       |           |
|                 |  | Report received date  | 11/02/2016   |       |       |           |
|                 |  | <b><u>Summary</u></b> |              |       |       |           |



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|-----------------|---|-----------------------|--------------|-------|-------|-----------|
| Water & Land    | EPA 30 - Groundwater monitoring point at Apps/Ubrihien farm south |                       |              |       | none  | Quarterly |
|                 |   | Conductivity          | 360          | µS/cm |       |           |
|                 |   | Depth                 | 5.30         | m     |       |           |
|                 |   | Nitrate               | 4.1          | mg/L  |       |           |
|                 |   | Nitrogen (total)      | 5.1          | mg/L  |       |           |
|                 |   | Phosphorus (total)    | 0.071        | mg/L  |       |           |
|                 |   | PH                    | 6.4          |       |       |           |
|                 |   | Available phosphorus  | 0.004        | mg/L  |       |           |
|                 |   | Lab report number     | N058453      |       |       |           |
|                 |   | Sampled date          | 28/01/2016   |       |       |           |
|                 |   | Lab received date     | 29/01/2016   |       |       |           |
|                 |   | Report received date  | 11/02/2016   |       |       |           |
|                 |   | <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                 | 6.40         | m     |       |           |
|                 |   | Nitrate               | 4            | mg/L  |       |           |
|                 |   | Nitrogen (total)      | 5.1          | mg/L  |       |           |
|                 |   | Phosphorus (total)    | 0.056        | mg/L  |       |           |
|                 |   | PH                    | 5.9          |       |       |           |
|                 |   | Available phosphorus  | 0.004        | mg/L  |       |           |
|                 |   | Lab report number     | N058453      |       |       |           |
|                 |   | Sampled date          | 28/01/2016   |       |       |           |
|                 |   | Lab received date     | 29/01/2016   |       |       |           |
|                 |   | Report received date  | 11/02/2016   |       |       |           |
|                 |   | <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 | 5050         | mg/L       |       |           |
|                       |  | Conductivity              | 2205         | µS/cm      |       |           |
|                       |  | Faecal coliforms          | 1636667      | cfu/100 ml |       |           |
|                       |  | Nitrate                   | 35           | mg/L       |       |           |
|                       |  | Nitrogen (total)          | 230          | mg/L       |       |           |
|                       |  | Phosphorus (total)        | 56           | mg/L       |       |           |
|                       |  | Sodium                    | 740          | mg/L       |       |           |
|                       |  | Sodium adsorption ratio   | 20           |            |       |           |
|                       |  | Total suspended solids    | 1300         | mg/L       |       |           |
|                       |  | PH                        | 4.85         |            |       |           |
|                       |  | Lab report number         | N058454      |            |       |           |
|                       |  | Sampled date              | 31/01/2016   |            |       |           |
|                       |  | Lab received date         | 2/02/2016    |            |       |           |
|                       |  | Report received date      | 11/02/2016   |            |       |           |
| <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 | 1800         | mg/L       |       |                     |
|                       |  | Conductivity              | 4800         | µS/cm      |       |                     |
|                       |  | Faecal coliforms          | 10000        | cfu/100 ml |       |                     |
|                       |  | Nitrate                   | 1            | mg/L       |       |                     |
|                       |  | Nitrogen (total)          | 180          | mg/L       |       |                     |
|                       |  | Phosphorus (total)        | 55           | mg/L       |       |                     |
|                       |  | Sodium                    | 550          | mg/L       |       |                     |
|                       |  | Sodium adsorption ratio   | 12           |            |       |                     |
|                       |  | Total suspended solids    | 530          | mg/L       |       |                     |
|                       |  | PH                        | 7            |            |       |                     |
|                       |  | Irrigation Days           | 15           |            |       |                     |
|                       |  | Volume (Average)          | 1071         | kL/day     |       |                     |
|                       |  | Volume (Min-Max)          | 41 - 1664    | kL/day     |       |                     |
|                       |  | Lab report number         | N058397      |            |       |                     |
|                       |  | Sampled date              | 28/01/2016   |            |       |                     |
|                       |  | Lab received date         | 29/01/2016   |            |       |                     |
|                       |  | Report received date      | 9/02/2016    |            |       |                     |
| <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  |