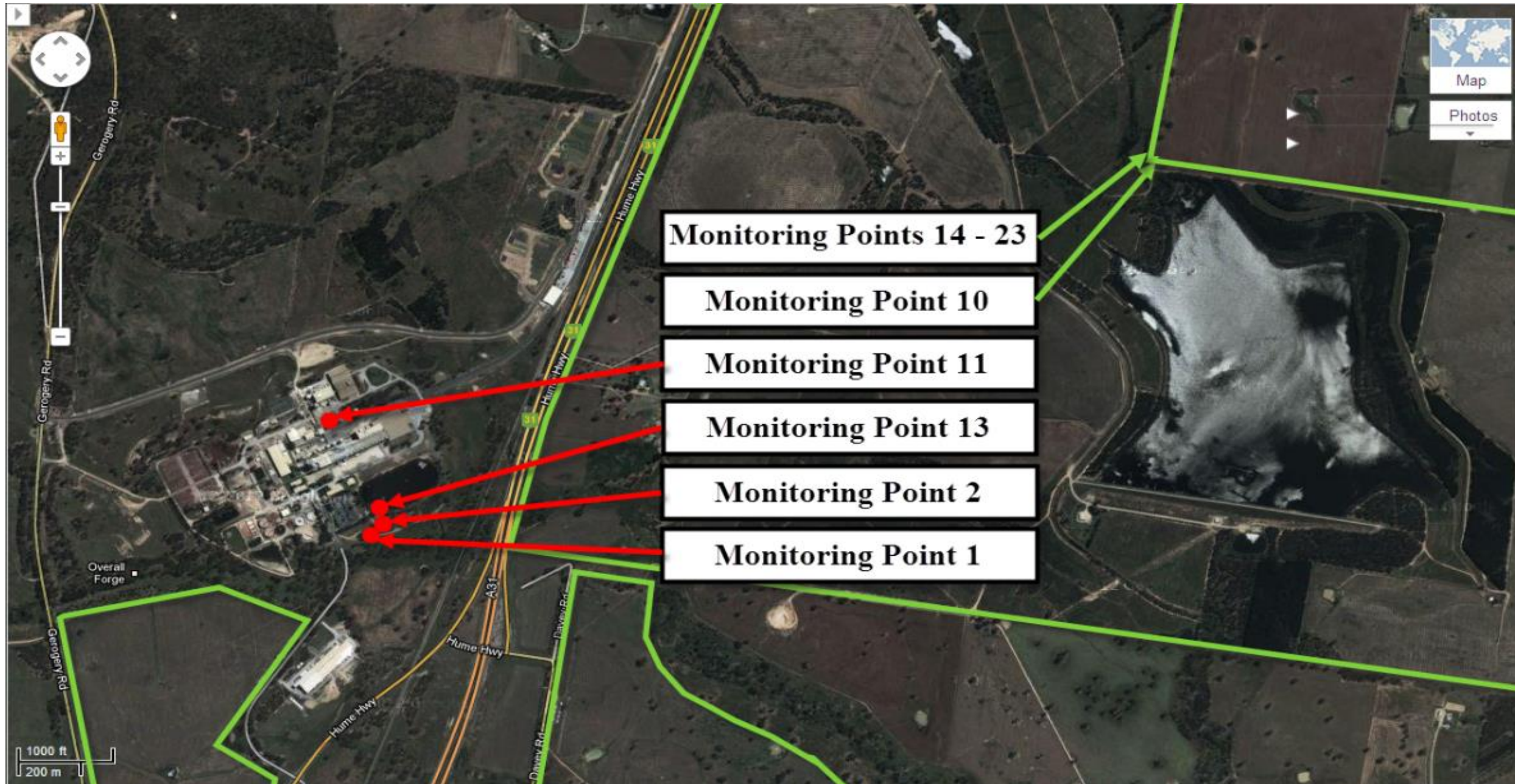


A full copy of our license can be found on the EPA website under the following address
<http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32757&SYSUID=1&LICID=1272>

Result data last updated **8 January 2018**

Map of Norske Skog Albury Paper Mills Environmental Protection Licence compliance monitoring sites



Courtesy of Google Maps

Monitoring point 1

Discharge to waters, Effluent quality and volume monitoring

| Pollutant | Units of measure | Licence requirements | | | July | | | | | | August | | | | | | September | | | | | |
|-----------------------------|----------------------|--|----------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | Biochemical Oxygen Demand | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 7 | 7.0 | 7 |
| Chemical Oxygen Demand | Milligrams per Litre | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 82 | 82 | 82 | 82 | no |
| Colour | Hazen | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 352 | 352 | 352 | 352 | no |
| Copper | Milligrams per Litre | Quarterly | - | 0.05 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | - | 0.00 | - | - | no |
| Nitrogen (Ammonia) | Milligrams per Litre | Weekly | - | 3.0 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 1.3 | 1.30 | 1.3 | 1.3 | no |
| Nitrogen (Total) | Milligrams per Litre | Weekly | - | 15 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 6.8 | 6.80 | 6.8 | 6.8 | no |
| Oil and Grease | Milligrams per Litre | Weekly | - | 10 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | < 1 | < 1 | < 1 | < 1 | no |
| pH | pH | Weekly | 6.5 | 8.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 8.2 | 8.15 | 8.2 | 8.2 | no |
| Phosphorus (Total) | Milligrams per Litre | Weekly | - | 0.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 0.45 | 0.45 | 0.45 | 0.45 | no |
| Total Dissolved Solids | Milligrams per Litre | Weekly | - | 2000 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | 970 | 970 | 970 | 970 | no |
| Total Suspended Solids | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | < 2 | < 2 | < 2 | < 2 | no |
| Zinc | Milligrams per Litre | Monthly | - | 0.4 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | - | 0.10 | - | - | no |
| Monthly Samples Collected | | | | | | | | | | | | | | | | 25 September 2017 | | | | | | |
| Monthly Results Obtained | | | | | | | | | | | | | | | | 11 October 2017 | | | | | | |
| Monthly Results Published | | | | | | | | | | | | | | | | 17 October 2017 | | | | | | |
| Quarterly Samples Collected | | | | | | | | | | | | | | | | 25 September 2017 | | | | | | |
| Quarterly Results Obtained | | | | | | | | | | | | | | | | 11 October 2017 | | | | | | |
| Quarterly Results Published | | | | | | | | | | | | | | | | 17 October 2017 | | | | | | |

| Pollutant | Units of measure | Licence requirements | | | October | | | | | | November | | | | | | December | | | | | |
|-----------------------------|----------------------|--|----------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | Biochemical Oxygen Demand | Milligrams per Litre | Weekly | - | 20 | 5 | 3 | 5.0 | 4 | 7 | no | 4 | 5 | 5.3 | 5 | 6 | no | 3 | < 2 | 2.3 | 3 |
| Chemical Oxygen Demand | Milligrams per Litre | Weekly | - | - | 5 | 132 | 158 | 156 | 189 | no | 4 | 153 | 163 | 163 | 171 | no | 3 | 140 | 159 | 157 | 180 | no |
| Colour | Hazen | Weekly | - | - | 5 | 273 | 344 | 370 | 409 | no | 4 | 398 | 435 | 424 | 495 | no | 3 | 406 | 422 | 411 | 448 | no |
| Copper | Milligrams per Litre | Quarterly | - | 0.05 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 1 | - | 0.01 | - | - | no |
| Nitrogen (Ammonia) | Milligrams per Litre | Weekly | - | 3.0 | 5 | < 0.2 | 0.09 | 0.1 | 0.2 | no | 4 | < 0.2 | 0.09 | 0.1 | 0.2 | no | 3 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | no |
| Nitrogen (Total) | Milligrams per Litre | Weekly | - | 15 | 5 | 1.1 | 1.61 | 1.6 | 2.2 | no | 4 | 0.2 | 0.98 | 1.0 | 1.8 | no | 3 | 0.1 | 1.72 | 1.8 | 3.2 | no |
| Oil and Grease | Milligrams per Litre | Weekly | - | 10 | 5 | < 1 | < 1 | < 1 | < 1 | no | 4 | < 1 | 0.50 | < 1 | 2.00 | no | 3 | < 1 | 0.33 | < 1 | 1.00 | no |
| pH | pH | Weekly | 6.5 | 8.5 | 5 | 8.1 | 8.18 | 8.2 | 8.2 | no | 4 | 8.2 | 8.19 | 8.2 | 8.2 | no | 3 | 8.2 | 8.23 | 8.2 | 8.3 | no |
| Phosphorus (Total) | Milligrams per Litre | Weekly | - | 0.5 | 5 | 0.07 | 0.10 | 0.10 | 0.12 | no | 4 | 0.07 | 0.09 | 0.09 | 0.10 | no | 3 | 0.06 | 0.07 | 0.07 | 0.08 | no |
| Total Dissolved Solids | Milligrams per Litre | Weekly | - | 2000 | 5 | 944 | 976 | 962 | 1044 | no | 4 | 1032 | 1063 | 1067 | 1084 | no | 3 | 962 | 981 | 964 | 1018 | no |
| Total Suspended Solids | Milligrams per Litre | Weekly | - | 20 | 5 | < 2 | < 2 | < 2 | < 2 | no | 4 | < 2 | < 2 | < 2 | < 2 | no | 3 | < 2 | 2.67 | < 2 | 8.00 | no |
| Zinc | Milligrams per Litre | Monthly | - | 0.4 | 1 | - | 0.04 | - | - | no | 1 | - | 0.00 | - | - | no | 1 | - | 0.00 | - | - | no |
| Monthly Samples Collected | | | | 3 October 2017 | | | | | | 27 November 2017 | | | | | | 18 December 2017 | | | | | | |
| Monthly Results Obtained | | | | 20 October 2017 | | | | | | 22 December 2017 | | | | | | 17 January 2018 | | | | | | |
| Monthly Results Published | | | | 8 November 2017 | | | | | | 8 January 2018 | | | | | | 8 January 2018 | | | | | | |
| Quarterly Samples Collected | | | | | | | | | | | | | | | | 18 December 2017 | | | | | | |
| Quarterly Results Obtained | | | | | | | | | | | | | | | | 17 January 2018 | | | | | | |
| Quarterly Results Published | | | | | | | | | | | | | | | | 8 January 2018 | | | | | | |

Monitoring point 1

Discharge to waters, Effluent quality and volume monitoring

| Pollutant | Units of measure | Licence requirements | | | January | | | | | | February | | | | | | March | | | | | |
|---------------------------|----------------------|--|--------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | | | | | | | | | | | | | | | | | | | | | |
| Biochemical Oxygen Demand | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Chemical Oxygen Demand | Milligrams per Litre | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Colour | Hazen | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Copper | Milligrams per Litre | Quarterly | - | 0.05 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Ammonia) | Milligrams per Litre | Weekly | - | 3.0 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Total) | Milligrams per Litre | Weekly | - | 15 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Oil and Grease | Milligrams per Litre | Weekly | - | 10 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| pH | pH | Weekly | 6.5 | 8.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Phosphorus (Total) | Milligrams per Litre | Weekly | - | 0.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Dissolved Solids | Milligrams per Litre | Weekly | - | 2000 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Suspended Solids | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Zinc | Milligrams per Litre | Monthly | - | 0.4 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| | | Monthly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Published | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Results Published | | | | | | | | | | | | | | | | | | | | |

| Pollutant | Units of measure | Licence requirements | | | April | | | | | | May | | | | | | June | | | | | |
|---------------------------|----------------------|--|--------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | | | | | | | | | | | | | | | | | | | | | |
| Biochemical Oxygen Demand | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Chemical Oxygen Demand | Milligrams per Litre | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Colour | Hazen | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Copper | Milligrams per Litre | Quarterly | - | 0.05 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Ammonia) | Milligrams per Litre | Weekly | - | 3.0 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Total) | Milligrams per Litre | Weekly | - | 15 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Oil and Grease | Milligrams per Litre | Weekly | - | 10 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| pH | pH | Weekly | 6.5 | 8.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Phosphorus (Total) | Milligrams per Litre | Weekly | - | 0.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Dissolved Solids | Milligrams per Litre | Weekly | - | 2000 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Suspended Solids | Milligrams per Litre | Weekly | - | 20 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Zinc | Milligrams per Litre | Monthly | - | 0.4 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| | | Monthly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Published | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Quarterly Results Published | | | | | | | | | | | | | | | | | | | | |

| Pollutant | Units of measure | Monitoring frequency required when discharging | Yearly Licence requirements | | | | | | | | |
|---------------------------|----------------------|--|-----------------------------|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | Number of results | Minimum Value | Maximum Value | 50 percentile limit | 50 percentile value | Exceedance (yes/no) | 90 percentile limit | 90 percentile value | Exceedance (yes/no) |
| Biochemical Oxygen Demand | Milligrams per Litre | Weekly | 13 | < 2 | 7 | 14 | 5.0 | no | 18 | 7.0 | no |
| Nitrogen (Ammonia) | Milligrams per Litre | Weekly | 13 | < 0.2 | 1 | - | - | no | 2.0 | 0.22 | no |
| Nitrogen (Total) | Milligrams per Litre | Weekly | 13 | 0.1 | 7 | 4 | 1.6 | no | 7 | 3.0 | no |
| Phosphorus (Total) | Milligrams per Litre | Weekly | 13 | 0.1 | 0 | - | - | no | 0.3 | 0.12 | no |
| Total Dissolved Solids | Milligrams per Litre | Weekly | 13 | 944.0 | 1084 | 1650 | 970 | no | - | - | - |

| Volume Monitoring | Unit of measure | Monitoring frequency required when discharging | Average Value |
|-----------------------------|--------------------|--|---------------|
| Liquids discharged to water | kilolitres per day | Continuous | 3642 |

| Volume Limit | Unit of measure | Yearly Licence requirements | | | | |
|-----------------------------|--------------------|--|-------------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | Number of results | Volume Limit | Maximum Value | Exceedance (yes/no) |
| Liquids discharged to water | kilolitres per day | Daily | 91 | 10000 | 10300 | yes |

Monitoring point 2

Discharge to waters, Cooling Water quality and volume monitoring

| | | Licence requirements | | | July | | | | | | August | | | | | | September | | | | | | |
|---------------------------|----------------------|--|--------------------|----------------------|-------------------|-----------------|------------|--------------|---------------|---------------------|-------------------|-------------------|------------|--------------|---------------|---------------------|-------------------|-------------------|------------|--------------|---------------|---------------------|--|
| Pollutant | Units of measure | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | |
| Biochemical Oxygen Demand | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | |
| Conductivity | Millisiemens per cm | Weekly | - | - | 5 | 67 | 74 | 73 | 78 | - | 4 | 76 | 78 | 77 | 81 | - | 4 | 78 | 83 | 83 | 86 | - | |
| Nitrogen (Total) | Milligrams per Litre | Monthly | - | - | 1 | - | 0 | - | - | - | 1 | - | 0 | - | - | - | 1 | - | < 2 | - | - | - | |
| Oil and Grease | Milligrams per Litre | Monthly | - | 5 | 1 | - | < 5 | - | - | no | 1 | - | 6 | - | - | yes | 1 | - | < 5 | - | - | no | |
| pH | pH | Weekly | 6.5 | 8.5 | 5 | 7.39 | 7.43 | 7.43 | 7.46 | no | 4 | 7.39 | 7.43 | 7.40 | 7.53 | no | 4 | 7.38 | 7.48 | 7.50 | 7.53 | no | |
| Phosphorus (Total) | Milligrams per Litre | Monthly | - | - | 1 | - | < 0.01 | - | - | - | 1 | - | < 0.01 | - | - | - | 1 | - | < 0.01 | - | - | - | |
| Total Dissolved Solids | Milligrams per Litre | Monthly | - | 200 | 1 | - | 44 | - | - | no | 1 | - | 34 | - | - | no | 1 | - | 30 | - | - | no | |
| Total Suspended Solids | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | |
| Zinc | Milligrams per Litre | Monthly | - | - | 1 | - | 0 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | 0 | - | - | - | |
| | | Monthly Samples Collected | | | | 3 July 2017 | | | | | | 7 August 2017 | | | | | | 4 September 2017 | | | | | |
| | | Monthly Results Obtained | | | | 11 July 2017 | | | | | | 29 August 2017 | | | | | | 20 September 2017 | | | | | |
| | | Monthly Results Published | | | | 28 July 2017 | | | | | | 14 September 2017 | | | | | | 3 October 2017 | | | | | |
| | | Licence requirements | | | October | | | | | | November | | | | | | December | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | |
| Biochemical Oxygen Demand | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | |
| Conductivity | Millisiemens per cm | Weekly | - | - | 5 | 71 | 78 | 77 | 85 | - | 4 | 69 | 72 | 72 | 73 | - | 4 | 74 | 82 | 76 | 105 | - | |
| Nitrogen (Total) | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | 0 | - | - | - | 1 | - | 0 | - | - | - | |
| Oil and Grease | Milligrams per Litre | Monthly | - | 5 | 1 | - | < 5 | - | - | no | 1 | - | < 5 | - | - | no | 1 | - | < 5 | - | - | no | |
| pH | pH | Weekly | 6.5 | 8.5 | 5 | 7.30 | 7.41 | 7.44 | 7.49 | no | 4 | 7.22 | 7.34 | 7.33 | 7.48 | no | 4 | 7.14 | 7.31 | 7.36 | 7.37 | no | |
| Phosphorus (Total) | Milligrams per Litre | Monthly | - | - | 1 | - | < 0.01 | - | - | - | 1 | - | < 0.01 | - | - | - | 1 | - | < 0.01 | - | - | - | |
| Total Dissolved Solids | Milligrams per Litre | Monthly | - | 200 | 1 | - | 51 | - | - | no | 1 | - | 36 | - | - | no | 1 | - | 28 | - | - | no | |
| Total Suspended Solids | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | |
| Zinc | Milligrams per Litre | Monthly | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | 1 | - | < 2 | - | - | - | |
| | | Monthly Samples Collected | | | | 3 October 2017 | | | | | | 6 November 2017 | | | | | | 4 December 2017 | | | | | |
| | | Monthly Results Obtained | | | | 20 October 2017 | | | | | | 17 November 2017 | | | | | | 14 December 2017 | | | | | |
| | | Monthly Results Published | | | | 8 November 2017 | | | | | | 27 November 2017 | | | | | | 8 January 2018 | | | | | |

Monitoring point 2

Discharge to waters, Cooling Water quality and volume monitoring

| Pollutant | Units of measure | Licence requirements | | | January | | | | | | February | | | | | | March | | | | | |
|---------------------------|----------------------|--|--------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | | | | | | | | | | | | | | | | | | | | | |
| Biochemical Oxygen Demand | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Conductivity | Millisiemens per cm | Weekly | - | - | 3 | 75 | 79 | 81 | 82 | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Total) | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Oil and Grease | Milligrams per Litre | Monthly | - | 5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| pH | pH | Weekly | 6.5 | 8.5 | 3 | 7.15 | 7.26 | 7.18 | 7.45 | no | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Phosphorus (Total) | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Dissolved Solids | Milligrams per Litre | Monthly | - | 200 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Suspended Solids | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Zinc | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| | | Monthly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Published | | | | | | | | | | | | | | | | | | | | |

| Pollutant | Units of measure | Licence requirements | | | April | | | | | | May | | | | | | June | | | | | |
|---------------------------|----------------------|--|--------------------|----------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|-------------------|---------------|------------|--------------|---------------|---------------------|
| | | Monitoring frequency required when discharging | 0 percentile limit | 100 percentile limit | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) | Number of results | Minimum Value | Mean Value | Median Value | Maximum Value | Exceedance (yes/no) |
| | | | | | | | | | | | | | | | | | | | | | | |
| Biochemical Oxygen Demand | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Conductivity | Millisiemens per cm | Weekly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Nitrogen (Total) | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Oil and Grease | Milligrams per Litre | Monthly | - | 5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| pH | pH | Weekly | 6.5 | 8.5 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Phosphorus (Total) | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Dissolved Solids | Milligrams per Litre | Monthly | - | 200 | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Total Suspended Solids | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| Zinc | Milligrams per Litre | Monthly | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - |
| | | Monthly Samples Collected | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Obtained | | | | | | | | | | | | | | | | | | | | |
| | | Monthly Results Published | | | | | | | | | | | | | | | | | | | | |

| Volume Monitoring | Unit of measure | Monitoring frequency required when discharging | Average Value |
|-----------------------------|--------------------|--|---------------|
| Liquids discharged to water | kilolitres per day | Continuous | 798 |

| Yearly Licence requirements | | | | | | |
|-----------------------------|--------------------|--|-------------------|--------------|---------------|---------------------|
| Volume Limit | Unit of measure | Monitoring frequency required when discharging | Number of results | Volume Limit | Maximum Value | Exceedance (yes/no) |
| Liquids discharged to water | kilolitres per day | Daily | 200 | 10000 | 5026 | no |

Monitoring Point 7
Maryvale effluent reuse system volume monitoring

| Volume Monitoring | Unit of measure | Monitoring frequency required | Average Value | Maximum Value |
|-------------------------------|--------------------|-------------------------------|---------------|---------------|
| Maryvale Effluent Storage Dam | kilolitres per day | Continuous | 4628 | 12664 |

Monitoring point 10
Soil Monitoring

See separate PDF report titled 'Soil Properties Report'

Monitoring point 11
Discharge to Air, Air Emissions Monitoring

| Pollutant | Units of measure | Monitoring frequency required | Number of results | July | August | September | October | November | December | January | February | March | April | May | June |
|-----------------------------|----------------------------|-------------------------------|-------------------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|
| Coarse Particulates | Milligrams per cubic meter | 2 times a year | 1 | | | 31 | | | | | | | | | |
| Fine Particulates | Milligrams per cubic meter | 2 times a year | 1 | | | 56 | | | | | | | | | |
| Nitrogen Oxides | Milligrams per cubic meter | 2 times a year | 1 | | | 191 | | | | | | | | | |
| Bi-annual Samples Collected | | | | | | 14 Sep 17 | | | | | | | | | |
| Bi-annual Results Obtained | | | | | | 9 Oct 17 | | | | | | | | | |
| Bi-annual Results Published | | | | | | 17 Oct 17 | | | | | | | | | |

Monitoring point 13
Effluent quality monitoring - 4 Day Pond Outlet

| Pollutant | Units of measure | Monitoring frequency required when discharging | July | August | September | October | November | December | January | February | March | April | May | June |
|---------------------------|----------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|---------|----------|-------|-------|-----|------|
| Biochemical Oxygen Demand | Milligrams per Litre | Monthly | 10 | 6 | 5 | 4 | 5 | 5 | | | | | | |
| Nitrogen (Total) | Milligrams per Litre | Monthly | 1.8 | 4.8 | 3.0 | 2.0 | 2.0 | 2.1 | | | | | | |
| pH | pH | Monthly | 8.1 | 8.0 | 8.1 | 8.1 | 8.0 | 8.1 | | | | | | |
| Phosphorus (Total) | Milligrams per Litre | Monthly | 0.11 | 0.22 | 0.09 | 0.10 | 0.10 | 0.12 | | | | | | |
| Total Dissolved Solids | Milligrams per Litre | Monthly | 1044 | 943 | 998 | 942 | 1093 | 969 | | | | | | |
| Total Suspended Solids | Milligrams per Litre | Monthly | 10 | 8 | 7 | 0 | 5 | 7 | | | | | | |
| Zinc | Milligrams per Litre | Monthly | 0.01 | 0.01 | 0.04 | 0.00 | 0.02 | 0.06 | | | | | | |
| Monthly Samples Collected | | | 3 Jul 17 | 7 Aug 17 | 4 Sep 17 | 3 Oct 17 | 6 Nov 17 | 4 Dec 17 | | | | | | |
| Monthly Results Obtained | | | 11 Jul 17 | 29 Aug 17 | 20 Sep 17 | 20 Oct 17 | 17 Nov 17 | 14 Dec 17 | | | | | | |
| Monthly Results Published | | | 28 Jul 17 | 14 Sep 17 | 3 Oct 17 | 8 Nov 17 | 27 Nov 17 | 8 Jan 18 | | | | | | |

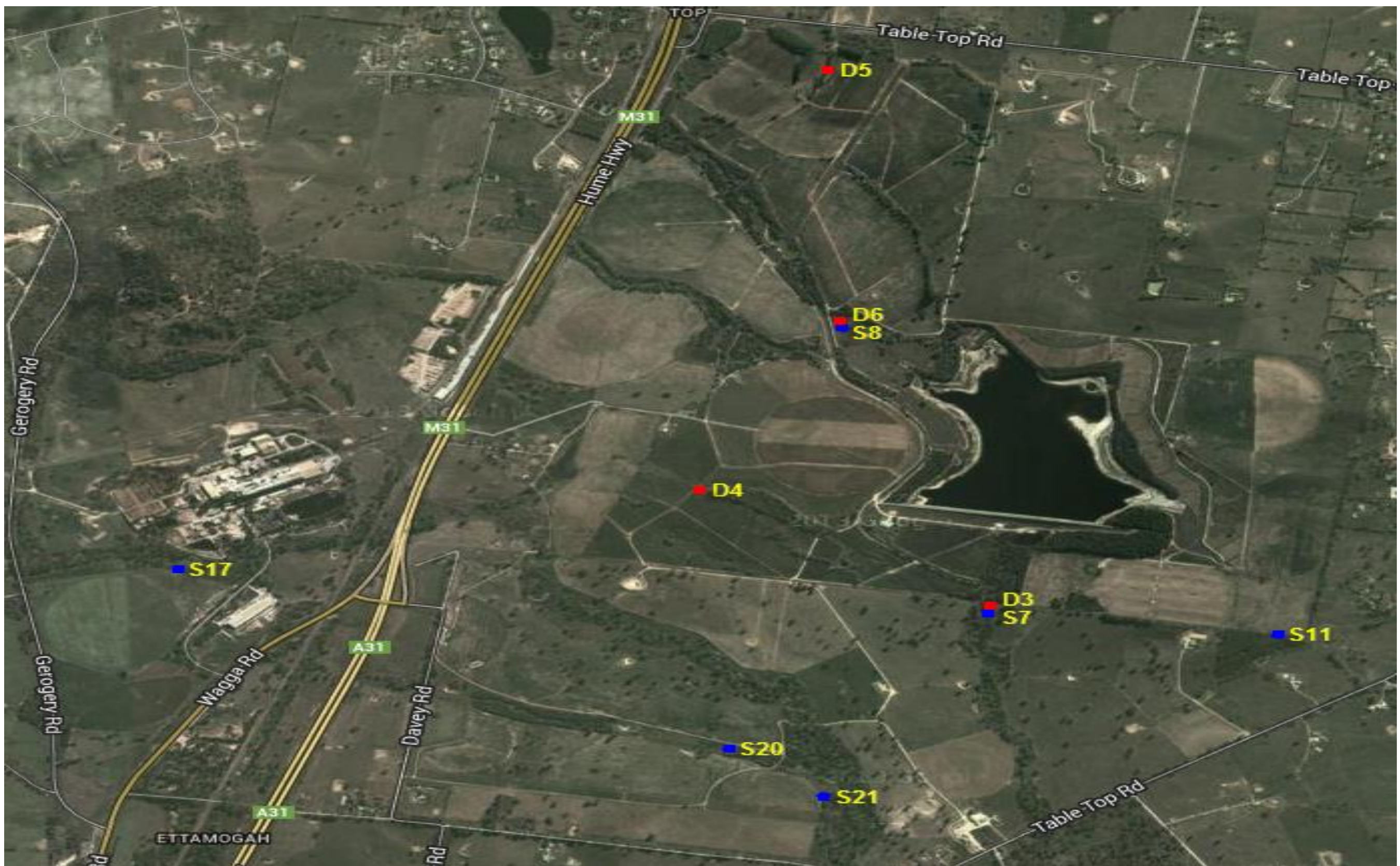
Monitoring points 14 to 23

Groundwater quality monitoring

| | Month | August | | | November | | | February | | | May | | | |
|-----------------------------|-------|-----------|----------------------|--------|--------------|-----------------------------|--------|--------------|-----------------------------|--------|--------------|-----------------------------|--------|--------------|
| | | Pollutant | Standing Water Level | pH | Conductivity | Standing Water Level | pH | Conductivity | Standing Water Level | pH | Conductivity | Standing Water Level | pH | Conductivity |
| | | | Units of measure | Meters | | microsiemens per centimeter | Meters | | microsiemens per centimeter | Meters | | microsiemens per centimeter | Meters | |
| Deep Bores | 3 | 45.3 | 7.3 | 958 | 45.3 | 7.5 | 956 | | | | | | | |
| | 4 | 44.8 | 7.2 | 1704 | 44.7 | 7.1 | 2058 | | | | | | | |
| | 5 | 44.7 | 7.0 | 3834 | 44.7 | 6.8 | 4105 | | | | | | | |
| | 6 | 43.6 | 8.1 | 691 | 43.6 | 8.0 | 688 | | | | | | | |
| Shallow Bores | 7 | 8.7 | 7.5 | 3281 | 9.0 | 7.3 | 3574 | | | | | | | |
| | 8 | 1.9 | 7.1 | 1359 | 2.0 | 7.0 | 1112 | | | | | | | |
| | 11 | 2.9 | 7.1 | 7234 | 6.9 | 7.0 | 7158 | | | | | | | |
| | 17 | 5.1 | 6.6 | 402 | 5.5 | 6.7 | 471 | | | | | | | |
| | 20 | Dry | | | Dry | | | | | | | | | |
| | 21 | 6.8 | 7.3 | 2269 | 6.9 | 7.2 | 2301 | | | | | | | |
| 3 Monthly Samples Collected | | 04 Oct 17 | | | 22 Nov 17 | | | | | | | | | |
| 3 Monthly Results Obtained | | 13 Oct 17 | | | 14 Dec 17 | | | | | | | | | |
| 3 Monthly Results Published | | 17 Oct 17 | | | 08 Jan 18 | | | | | | | | | |

| Pollutant | Units of measure | Deep Bores | | | | Shallow Bores | | | | | |
|--------------------------|----------------------|------------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|----------|-----------|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 11 | 17 | 20 | 21 |
| Nitrate | Milligrams per Litre | 0.18 | 1.00 | 3.80 | 0.02 | 29.00 | 0.13 | 0.06 | 12.00 | | 7.20 |
| Total Nitrogen | Milligrams per Litre | 0.7 | 4.7 | 4.4 | 3.8 | 29.9 | 1.5 | 0.5 | 14.0 | | 7.9 |
| Total Phosphorus | Milligrams per Litre | 0.19 | 0.26 | 0.00 | 0.00 | 0.12 | 0.18 | 0.07 | 0.00 | | 0.09 |
| Annual Samples Collected | | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | 04 Oct 17 | Bore Dry | 04 Oct 17 |
| Annual Results Obtained | | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | 13 Oct 17 | | 13 Oct 17 |
| Annual Results Published | | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | 17 Oct 17 | | 17 Oct 17 |

Ettamogah Site map showing Groundwater Bores



Note: Shallow Bores are denoted with blue markers and Deep Bores are denoted by red markers. The water quality of 8 and 9 mile creeks are also monitored, but are not required to be reported by EPL 1272

Non compliance log

| Pollutant | Sample dates | Detail |
|---|---------------------|--|
| Oil and Grease at Monitoring Point 2 | 07 August | Exceeded 100 percentile limit (6 mg/L). Cooling water flow less than 0.5 L/s. Resample taken 30 August was 0 mg/L, so it is possible it was a non-representative sample. |
| Monitoring Point 1 - Effluent discharge to waters | 23 and 24 September | Maximum volume limit of 10,000 kilolitres per day exceeded by 296 and 199 kilolitres respectively. Reviewed our current DCS logic to limit the maximum flow possible. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Correction log

| Sample date and time | Original data | Corrected data | Date corrected | Date originally published | Reason |
|----------------------|---------------|----------------|----------------|---------------------------|--------|
| | | | | | |

Community Complaints

| Complaint | Date | Detail |
|-----------|------|--------|
| | | |
| | | |