



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2016

Obtained Date: 15th September 2016

Publication Date: 16th September 2016

Table 1 - No Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Measurements for the Month | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|------------------------|-------------------------|----------------------|-----------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 3 | Solid Particles | g/m ² /month | Continuous | 1 | 15/08/16 | 29/08/16 | - | - | - | 0.5 |
| 5 | Solid Particles | g/m ² /month | Continuous | 0 | - | - | - | - | - | - |
| | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 15/09/16 | 3.7 | 12.7 | 8.6 | 23.3 |
| 11 | PM ₁₀ | µg/m ³ | Every 6 days | 0 | - | - | - | - | - | - |
| 12 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 15/09/16 | 3.0 | 11 | 9.9 | 19.0 |
| 6 | Conductivity | ms/cm | Each overflow event | 0 | - | - | - | - | - | - |
| | Oil and Grease | mg/L | | 0 | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | | 0 | - | - | - | - | - | - |
| | Total Suspended Solids | mg/L | | 0 | - | - | - | - | - | - |
| | pH | pH | | 0 | - | - | - | - | - | - |
| 7 | Conductivity | ms/cm | Quarterly | 1 | 8/08/16 | 15/08/16 | - | - | - | 2180 |
| | Oil and Grease | mg/L | | 1 | 8/08/16 | 15/08/16 | - | - | - | 6 |
| | Total Organic Carbon | mg/L | | 1 | 8/08/16 | 15/08/16 | - | - | - | 3 |



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|--------|------------------------|------------------|----------------------|-----------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| | Total Suspended Solids | mg/L | | 1 | 8/08/16 | 15/08/16 | - | - | - | 24 |
| | pH | pH | | 1 | 8/08/16 | 15/08/16 | - | - | - | 8.5 |

Table 2 – Groundwater Monitoring (Quarterly – No Limits apply)

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Period | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 8 | Ammonia | mg/L | Quarterly | 1 | 24/08/16 | 30/08/16 | - | - | - | 0.2 |
| | Bicarbonate | mg/L | | | | | - | - | - | 1200 |
| | Calcium | mg/L | | | | | - | - | - | 39 |
| | Chloride | mg/L | | | | | - | - | - | 1330 |
| | Conductivity | µs/cm | | | | | - | - | - | 7600 |
| | Lead | mg/L | | | | | - | - | - | 0.002 |
| | Magnesium | mg/L | | | | | - | - | - | 119 |
| | Nitrate | mg/L | | | | | - | - | - | 1.18 |
| | Potassium | mg/L | | | | | - | - | - | 20 |
| | Sodium | mg/L | | | | | - | - | - | 1610 |
| | Standing Water Level | m | | | | | - | - | - | 8.25 |
| | Sulphate | mg/L | | | | | - | - | - | 729 |
| pH | pH | - | - | - | 8.5 | | | | | |
| 9 | Ammonia | mg/L | Quarterly | 1 | 24/08/16 | 30/08/16 | - | - | - | <0.01 |
| | Bicarbonate | mg/L | | | | | - | - | - | 836 |



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| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Period | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| | Calcium | mg/L | | | | | - | - | - | 271 |
| | Chloride | mg/L | | | | | - | - | - | 1150 |
| | Conductivity | µs/cm | | | | | - | - | - | 6170 |
| | Lead | mg/L | | | | | - | - | - | 0.005 |
| | Magnesium | mg/L | | | | | - | - | - | 234 |
| | Nitrate | mg/L | | | | | - | - | - | 0.11 |
| | Potassium | mg/L | | | | | - | - | - | 122 |
| | Sodium | mg/L | | | | | - | - | - | 757 |
| | Standing Water Level | m | | | | | - | - | - | 1.88 |
| | Sulphate | mg/L | | | | | - | - | - | 782 |
| | pH | pH | | | | | - | - | - | 7.0 |
| 10 | Ammonia | mg/L | Quarterly | 1 | 24/08/16 | 30/08/16 | - | - | - | 0.07 |
| | Bicarbonate | mg/L | | | | | - | - | - | 632 |
| | Calcium | mg/L | | | | | - | - | - | 189 |
| | Chloride | mg/L | | | | | - | - | - | 1450 |
| | Conductivity | µs/cm | | | | | - | - | - | 6010 |
| | Lead | mg/L | | | | | - | - | - | <0.001 |
| | Magnesium | mg/L | | | | | - | - | - | 209 |
| | Nitrate | mg/L | | | | | - | - | - | 15.0 |
| | Potassium | mg/L | | | | | - | - | - | 61 |
| | Sodium | mg/L | | | | | - | - | - | 742 |
| | Standing Water Level | m | | | | | - | - | - | 1.29 |
| | Sulphate | mg/L | | | | | - | - | - | 271 |
| | pH | pH | | | | | - | - | - | 7.4 |



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

| EPL ID | Date | Start Time | Measurement Period | Measured levels – All sources – dB(A) | | Limit(s) | Weather (wind speed/direction) | Observations | (Potential) Non-compliance /breach |
|--------|------|------------|--------------------|---------------------------------------|-----------------------------|----------|--------------------------------|--------------|------------------------------------|
| | | | | L _{A1, 1} Minute | L _{Aeq, 15} Minute | | | | |
| N1 | - | - | 15 min | - | - | - | - | - | |
| | - | - | 15 min | - | - | - | - | - | |
| | - | - | 15 min | - | - | - | - | - | |
| | - | - | 1 min | - | - | - | - | - | |

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Figure 1 – EPL 3637 Monitoring Locations

