

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: May 2014

Publication Date: 25th June 2014

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 | 16/5/14 | 26/5/14 | - | - | - | 2.0 |
| 5 | Solid Particles | g/m ² /month | Continuous | 1 | 16/5/14 | 26/5/14 | - | - | - | 51.9 |
| | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 13/6/14 | 2.0 | 10.3 | 10.2 | 17.6 |
| 11 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 13/6/14 | 2.4 | 21.5 | 21.6 | 46.2 |
| 12 | PM ₁₀ | µg/m ³ | Every 6 days | 3 | Various | 13/6/14 | 2.6 | 12.6 | 14.0 | 19.2 |
| 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 | 1/5/14 | 9/5/14 | - | - | - | 2110 |
| | Oil and Grease | mg/L | | 1 | 1/5/14 | 9/5/14 | - | - | - | <5 |
| | Total Organic Carbon | mg/L | | 1 | 1/5/14 | 9/5/14 | - | - | - | <1 |
| | Total Suspended Solids | mg/L | | 1 | 1/5/14 | 9/5/14 | - | - | - | 17 |
| | pH | pH | | 1 | 1/5/14 | 9/5/14 | - | - | - | 8.24 |

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Table 2 – 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 | 29/5/14 | 5/6/14 | - | - | - | 0.1 |
| | Bicarbonate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1300 |
| | Calcium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 30 |
| | Chloride | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1100 |
| | Conductivity | µs/cm | | 1 | 29/5/14 | 5/6/14 | - | - | - | 7310 |
| | Lead | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.002 |
| | Magnesium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 108 |
| | Nitrate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.24 |
| | Potassium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 24 |
| | Sodium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1430 |
| | Standing Water Level | m | | 1 | 29/5/14 | 5/6/14 | - | - | - | 6.47 |
| | Sulphate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 665 |
| | pH | pH | | 1 | 29/5/14 | 5/6/14 | - | - | - | 8.18 |
| 9 | Ammonia | mg/L | Quarterly | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.06 |
| | Bicarbonate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 724 |
| | Calcium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 206 |
| | Chloride | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1030 |
| | Conductivity | µs/cm | | 1 | 29/5/14 | 5/6/14 | - | - | - | 6030 |
| | Lead | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.001 |
| | Magnesium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 241 |
| | Nitrate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.40 |
| | Potassium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 110 |
| | Sodium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 695 |
| | Standing Water Level | m | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1.03 |
| | Sulphate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 754 |
| | pH | pH | | 1 | 29/5/14 | 5/6/14 | - | - | - | 7.79 |
| 10 | Ammonia | mg/L | Quarterly | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.04 |

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|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| | Bicarbonate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 612 |
| | Calcium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 175 |
| | Chloride | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 1220 |
| | Conductivity | µs/cm | | 1 | 29/5/14 | 5/6/14 | - | - | - | 5900 |
| | Lead | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.003 |
| | Magnesium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 209 |
| | Nitrate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 14.5 |
| | Potassium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 59 |
| | Sodium | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 665 |
| | Standing Water Level | m | | 1 | 29/5/14 | 5/6/14 | - | - | - | 0.97 |
| | Sulphate | mg/L | | 1 | 29/5/14 | 5/6/14 | - | - | - | 255 |
| | pH | pH | | 1 | 29/5/14 | 5/6/14 | - | - | - | 7.78 |

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 | 6/5/14 | 8:14pm | 15 min | | 26 | 35 | Calm | Traffic (32), CHPP (26) | Yes |
| | 6/5/14 | 10:45pm | 15 min | | 39 | 35 | 0.7/136 | CHPP (39) , traffic (33) | |
| | 7/5/14 | 7:14am | 15 min | | 38 | 35 | 0.9/188 | Traffic (39), CHPP (38) , birds (32) | |
| | 6/5/14 | 10:45pm | 15 min | 44 | | 45 | 0.7/136 | CHPP (44) | |

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Figure 1 – EPL 3637 Monitoring Locations

