

**WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY**
**Site Information**
**EPL No:** 3637

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33124&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:** October 2013

**Publication Date:** 29<sup>th</sup> November 2013

**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 <sup>2</sup> /month | Continuous           | 1                                 | 17/10/13     | 28/10/13      | -         | -          | -            | 1.3               |
| 5      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 17/10/13     | 28/10/13      | -         | -          | -            | 0.4               |
|        | PM <sub>10</sub>       | µg/m <sup>3</sup>       | Every 6 days         | 6                                 | Various      | 15/11/13      | 6.6       | 18.9       | 18.3         | 35.9              |
| 11     | PM <sub>10</sub>       | µg/m <sup>3</sup>       | Every 6 days         | 6                                 | Various      | 15/11/13      | 13.3      | 28.9       | 28.5         | 44.2              |
| 12     | PM <sub>10</sub>       | µg/m <sup>3</sup>       | Every 6 days         | 5                                 | Various      | 15/11/13      | 11.7      | 31.3       | 35.9         | 57.9              |
| 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            | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Oil and Grease         | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Total Organic Carbon   | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Total Suspended Solids | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | pH                     | pH                      |                      | 0                                 | -            | -             | -         | -          | -            | -                 |



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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            | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Bicarbonate          | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Calcium              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Chloride             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Conductivity         | µs/cm            |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Lead                 | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Magnesium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Nitrate              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Potassium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sodium               | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Standing Water Level | m                |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sulphate             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
| pH     | pH                   | 0                | -                    | -                             | -            | -             | -         | -          | -            |                   |
| 9      | Ammonia              | mg/L             | Quarterly            | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Bicarbonate          | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Calcium              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Chloride             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Conductivity         | µs/cm            |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Lead                 | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Magnesium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Nitrate              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Potassium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sodium               | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Standing Water Level | m                |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sulphate             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
| pH     | pH                   | 0                | -                    | -                             | -            | -             | -         | -          | -            |                   |
| 10     | Ammonia              | mg/L             | Quarterly            | 0                             | -            | -             | -         | -          | -            | -                 |



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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 |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
|        | Bicarbonate          | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Calcium              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Chloride             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Conductivity         | µs/cm            |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Lead                 | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Magnesium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Nitrate              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Potassium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sodium               | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Standing Water Level | m                |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sulphate             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | pH                   | pH               |                      | 0                             | -            | -             | -         | -          | -            | -                 |

**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 <sub>A1, 1</sub> Minute             | L <sub>Aeq, 15</sub> Minute |          |                                |              |                                    |
| N1     | -    | -          | -                  |                                       | -                           | 38       | -                              | -            | No monitoring this month           |
|        | -    | -          | -                  |                                       | -                           | 37       | -                              | -            |                                    |
|        | -    | -          | -                  |                                       | -                           | 35       | -                              | -            |                                    |
|        | -    | -          | -                  | -                                     |                             | 45       | -                              | -            |                                    |

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Figure 1 – EPL 3637 Monitoring Locations

