



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: June 2020

Obtained Date: 14th July 2020

Publication Date: 20th July 2020

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 | 18/06/20 | 1/07/20 | - | - | - | 0.2 |
| 11 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 8/07/20 | 7.4 | 14.6 | 14.2 | 27.3 |
| 12 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 8/07/20 | 4.5 | 7.04 | 7.2 | 11.8 |
| 6 | Conductivity | µs/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 | µs/cm | Quarterly | 0 | - | - | - | - | - | - |
| | Oil and Grease | mg/L | | | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | | | - | - | - | - | - | - |
| | Total Suspended Solids | mg/L | | | - | - | - | - | - | - |
| | pH | pH | | | - | - | - | - | - | - |



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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 | 3/06/20 | 12/06/20 | - | - | - | 0.16 |
| | Bicarbonate | mg/L | | | | | - | - | - | 1320 |
| | Calcium | mg/L | | | | | - | - | - | 52 |
| | Chloride | mg/L | | | | | - | - | - | 2170 |
| | Conductivity | µs/cm | | | | | - | - | - | 9850 |
| | Lead | mg/L | | | | | - | - | - | <0.001 |
| | Magnesium | mg/L | | | | | - | - | - | 193 |
| | Nitrate | mg/L | | | | | - | - | - | <0.01 |
| | Potassium | mg/L | | | | | - | - | - | 49 |
| | Sodium | mg/L | | | | | - | - | - | 2060 |
| | Standing Water Level | m | | | | | - | - | - | 8.69 |
| | Sulphate | mg/L | | | | | - | - | - | 1300 |
| pH | pH | - | - | - | 7.5 | | | | | |
| 9 | Ammonia | mg/L | Quarterly | 1 | 3/06/20 | 12/06/20 | - | - | - | <0.01 |
| | Bicarbonate | mg/L | | | | | - | - | - | 698 |
| | Calcium | mg/L | | | | | - | - | - | 175 |
| | Chloride | mg/L | | | | | - | - | - | 1210 |
| | Conductivity | µs/cm | | | | | - | - | - | 5750 |
| | Lead | mg/L | | | | | - | - | - | <0.001 |
| | Magnesium | mg/L | | | | | - | - | - | 252 |
| | Nitrate | mg/L | | | | | - | - | - | 0.66 |



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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 |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| | Potassium | mg/L | | | | | - | - | - | 140 |
| | Sodium | mg/L | | | | | - | - | - | 716 |
| | Standing Water Level | m | | | | | - | - | - | 2.53 |
| | Sulphate | mg/L | | | | | - | - | - | 810 |
| | pH | pH | | | | | - | - | - | 7.6 |
| 10 | Ammonia | mg/L | Quarterly | 1 | 3/06/20 | 12/06/20 | - | - | - | 2.87 |
| | Bicarbonate | mg/L | | | | | - | - | - | 672 |
| | Calcium | mg/L | | | | | - | - | - | 170 |
| | Chloride | mg/L | | | | | - | - | - | 1440 |
| | Conductivity | µs/cm | | | | | - | - | - | 5810 |
| | Lead | mg/L | | | | | - | - | - | <0.001 |
| | Magnesium | mg/L | | | | | - | - | - | 232 |
| | Nitrate | mg/L | | | | | - | - | - | 1.18 |
| | Potassium | mg/L | | | | | - | - | - | 86 |
| | Sodium | mg/L | | | | | - | - | - | 708 |
| | Standing Water Level | m | | | | | - | - | - | 2.34 |
| | Sulphate | mg/L | | | | | - | - | - | 265 |
| | pH | pH | | | | | - | - | - | 7.7 |



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Table 3 – Monitoring (Quarterly Noise – Limits Apply) (Results received 21/4/2020)

| EPL ID | Date | Measurement Period | Measured levels – CHPP – dB(A) | | Limit(s) | Wind speed (m/s) | Observations | (Potential) Non-compliance /breach |
|--------|----------|--------------------|--------------------------------|------------------------------|----------|------------------|--------------|------------------------------------|
| | | | L _{A1} , 1 minute | L _{Aeq} , 15 minute | | | | |
| N1 | 22/06/20 | 15 mins | - | I/A | 35 | 4.5 m/s | - | No |
| | 22/06/20 | 15 mins | - | I/A | 35 | 0.9 m/s | - | |
| | 22/06/20 | 15 mins | - | I/A | 35 | 1.1 m/s | - | |
| | 22/06/20 | 1 min | I/A | - | 45 | 1.1 m/s | - | |

When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location. Not Measurable (NM) indicates that some site noise was audible, but indeterminate due to one of the following reasons:

- site noise levels were insignificant and unlikely, in many cases, to be even noticed; or
- site noise levels were masked by another relatively loud noise source, but were estimated to be less than L_{Aeq} 30 dB, which is insignificant in terms of any applicable criterion.



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