



SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12957

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31541&SYSUID=1&LICID=12957>

Licensee: Namoi Mining Pty Ltd

Licensee Address: Sunnyside Coal Project, 259 Coocooboona Lane, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2012

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Table 1 - No Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date(s) Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max Value |
|--------|-------------------------------|-------------------------|----------------------|------------------------------|--------------------|---------------|-----------|------------|--------------|-----------|
| 1 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 20/8/2012 | 29/8/2012 | 0.3 | 0.3 | 0.3 | 0.3 |
| 2 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 20/8/2012 | 29/8/2012 | 0.2 | 0.2 | 0.2 | 0.2 |
| 4 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 20/8/2012 | 29/8/2012 | 0.4 | 0.4 | 0.4 | 0.4 |
| 5 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 20/8/2012 | 29/8/2012 | 0.3 | 0.3 | 0.3 | 0.3 |
| 6 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 20/8/2012 | 29/8/2012 | 0.2 | 0.2 | 0.2 | 0.2 |
| 7 | PM ₁₀ | µg/m ³ | Every 6 days | 6 | 6,12,18,24,30/2012 | 13/9/2012 | 10.2 | 13.9 | 12.2 | 19.5 |
| 9 | Conductivity | µS/mg | Special Frequency 1* | 0 | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | 0 | - | - | - | - | - | - |
| 10 | Conductivity | µS/mg | Special Frequency 1* | 0 | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | 0 | - | - | - | - | - | - |

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| | | | | | | | | | | |
|----|----------------------|-------|-----------------------|---|---|---|---|---|---|---|
| 11 | TSS | mg/L | Special Frequency 2** | 0 | - | - | - | - | - | - |
| | Conductivity | µS/mg | | 0 | - | - | - | - | - | - |
| | Oil & Grease | mg/L | | 0 | - | - | - | - | - | - |
| | pH | pH | | 0 | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | 0 | - | - | - | - | - | - |
| 12 | TSS | mg/L | Special Frequency 2** | 0 | - | - | - | - | - | - |
| | Conductivity | µS/mg | | 0 | - | - | - | - | - | - |
| | Oil & Grease | mg/L | | 0 | - | - | - | - | - | - |
| | pH | pH | | 0 | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | 0 | - | - | - | - | - | - |

* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

** Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 9 and 10 commences and in any case not more than 12 hours after each discharge commences.

Table 2 - Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date Sampled | Date Obtained | Min Value | Max Value | 100%ile Limit | Exceedance (Yes/No) | Comments |
|--------|--------------|------------------|----------------------|------------------------------|--------------|---------------|-----------|-----------|---------------|---------------------|--------------|
| 9 | TSS | mg/L | Special Frequency 1* | 0 | - | - | - | - | 50 | - | No discharge |
| | Oil & Grease | mg/L | | 0 | - | - | - | - | 10 | - | No discharge |
| | pH | pH | | 0 | - | - | - | - | 6.5-8.5 | - | No discharge |
| 10 | TSS | mg/L | Special Frequency 1* | 0 | - | - | - | - | 50 | - | No discharge |
| | Oil & Grease | mg/L | | 0 | - | - | - | - | 10 | - | No discharge |
| | pH | pH | | 0 | - | - | - | - | 6.5-8.5 | - | No discharge |



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Table 3 – Monitoring (Noise – Limits Apply)

| EPL ID | Date | Start Time | Measurement Period | Measured Levels – dB(A) | Measured Levels – dB(A) | Limit(s) | Weather | Compliant (Yes/No) | Comments |
|--------|------|------------|--------------------|---------------------------|-------------------------------|---------------------------|---------|--------------------|-------------------------|
| | | | | L _{eq} 15min Day | L _{eq} 15min Evening | | | | |
| R2 | - | - | - | - | - | Day, Evening & Night~: 35 | - | - | No monitoring for month |
| R4 | - | - | - | - | - | Day, Evening & Night~: 35 | - | - | No monitoring for month |
| R5 | - | - | - | - | - | Day, Evening & Night~: 35 | - | - | No monitoring for month |
| R6 | - | - | - | - | - | Day, Evening & Night~: 35 | - | - | No monitoring for month |

~Note Sunnyside mine does not operate during night hours, hence no measurements are taken.

Table 4 – Monitoring (Blasts – Limits Apply)

| Location | Parameter | Units of Measure | Frequency | No. of Blasts for the Month | Average Value | Max Value | 100%ile Limit | (Potential) Non-compliance /breach |
|----------|-----------------|------------------|-------------|-----------------------------|---------------|-----------|---------------|------------------------------------|
| R1 | Blast Noise | dB (Lin Peak) | Every Blast | 2 | 102.0 | 102.1 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | 2 | 1.0 | 1.08 | 10 | No |
| R2 | Blast Noise | dB (Lin Peak) | Every Blast | 2 | 106.2 | 107.5 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | 2 | 0.48 | 0.62 | 10 | No |
| R4 | Blast Noise | dB (Lin Peak) | Every Blast | 2 | 106.9 | 109.7 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | 2 | 0.31 | 0.35 | 10 | No |
| R6 | Blast Noise | dB (Lin Peak) | Every Blast | 2 | 112.7 | 114.8 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | 2 | 0.89 | 1.10 | 10 | No |

DNT – Indicates the blast did not trigger a result at the monitor.

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Figure 1 – EPL 12957 Monitoring Locations

