

Pine Dale Mine EPA Compliance Data

M5 Monitoring of Pollution Complaints - Summary

Number of Pollution Complaints

| Pollution Category | Number of Complaints |
|--------------------|----------------------|
| Air | 0 |
| Water | 0 |
| Noise | 0 |
| Waste | 0 |
| Blast | 0 |

Notes:

Refer to Complaints register section of Enhance Place Pine Dale Mine website for further details.

M2 Requirement to Monitor Concentration of Pollutants Discharged

M2.2 Air Monitoring Requirements

| | EPL Point 6 | EPL Point 7 | EPL Point 8 | EPL Point 10 | EPL Point 11 | EPL Point 12 |
|--------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Dust Gauge D1 | Dust Gauge D2 | Dust Gauge D3 | Dust Gauge D4 | Dust Gauge D5 | Dust Gauge D6 |
| Sample results for month of August 2013 (g/m ² per mth) | 1.0 | 0.9 | 1.1 | 0.4 | 0.2 | 3.6 |
| No of Samples required by licence -year to date | 12 | 12 | 12 | 12 | 12 | 12 |
| No of Samples collected & analysed -year to date | 9 | 9 | 9 | 9 | 9 | 9 |
| Lowest Sample value -year to date (g/m ² per mth) | 0.3 | 0.2 | 0.4 | 0.2 | 0.2 | 0.3 |
| Mean of samples -year to date (g/m ² per mth) | 1.0 | 0.7 | 0.9 | 0.6 | 0.5 | 1.2 |
| Highest sample value -year to date (g/m ² per mth) | 2.4 | 1.0 | 1.3 | 1.5 | 0.9 | 3.6 |



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| | | EPL Point 9 | EPL Point 9 |
|----------------------------------------------------------------------|-----------|-------------|-----------------------|
| | | HVAS TSP | HVAS PM ₁₀ |
| Sample results for month of August 2013 ($\mu\text{g}/\text{m}^3$) | 01-Aug-13 | 16 | 5 |
| | 07-Aug-13 | 2 | ND |
| | 13-Aug-13 | 15 | 4 |
| | 19-Aug-13 | 11 | 4 |
| | 25-Aug-13 | 17 | 9 |
| | 31-Aug-13 | 29 | 12 |
| No of Samples required by licence -year to date | | 61 | 61 |
| No of Samples collected & analysed -year to date | | 47 | 46 |
| Lowest Sample value -year to date ($\mu\text{g}/\text{m}^3$) | | 2 | 1 |
| Mean of samples -year to date ($\mu\text{g}/\text{m}^3$) | | 23.2 | 10.4 |
| Highest sample value -year to date ($\mu\text{g}/\text{m}^3$) | | 62 | 30 |

Notes:

ND - No Data due to damage to filter paper.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

M2.3 Water Monitoring Requirements

| | | EPL Point 2 | EPL Point 3 | EPL Point 14 |
|--------------------------------------------------|------------------------------------------|---------------------------------------|----------------------------------------|-------------------------------------|
| | | Neubecks Creek Upstream of Flow Gauge | Neubecks Creek Downstream from Offices | Cox's River Downstream of Blue Lake |
| Sample results* for Month of August 2013 | pH | 7.2 | 6.9 | 7.9 |
| | Conductivity ($\mu\text{S}/\text{cm}$) | 1152 | 1681 | 1141 |
| | Sulphate (mg/L) | 457 | 758 | 86 |
| | Iron (filterable) | <0.05 | 0.98 | <0.05 |
| | TSS (mg/L) | 2 | 12 | 5 |
| | Turbidity (NTU) | 1.0 | 2.7 | 4.1 |
| No of Samples required by licence -year to date | | 4 | 4 | 4 |
| No of Samples collected & analysed -year to date | | 3 | 3 | 3 |

Notes:

NA - no samples required for monitoring period. Reporting year runs from 24 Nov 2012 to 23 Nov 2013

* Pine Dale Mine does not have water quality licence limits for ambient water quality monitoring of Points 2, 3 & 14 in its EPL.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

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| | | EPL Point 4 | EPL Point 5 | |
|--------------------------------------------------|----------------------|----------------------------------------|---------------------------------------|-----------|
| | | Wallerawang Colliery No. 1A Mine Entry | Wallerawang Colliery Punch Mine Entry | EPL limit |
| Sample results for Month of August 2013 | pH | NA | NA | 6.5 - 8.5 |
| | Conductivity (µS/cm) | NA | NA | |
| | Sulphate (mg/L) | NA | NA | |
| | Iron (filterable) | NA | NA | |
| | TSS (mg/L) | NA | NA | 50 |
| | Turbidity (NTU) | NA | NA | |
| | Oil & Grease (mg/L) | NA | NA | 10 |
| No of Samples required by licence -year to date | | NA | NA | |
| No of Samples collected & analysed -year to date | | NA | NA | |

Notes:

NA - no samples required for monitoring period.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

| | | EPL Point 13 | |
|--------------------------------------------------|----------------------|----------------------------------------|----------------------------------------|
| | | Wallerawang Colliery No. 1A Mine Entry | EPL 100 percentile concentration limit |
| Sample results for Month of August 2013 | pH | NA | 6.5 - 8.5 |
| | Conductivity (µS/cm) | NA | |
| | Sulphate (mg/L) | NA | |
| | Iron (filterable) | NA | |
| | TSS (mg/L) | NA | 30 |
| | Turbidity (NTU) | NA | |
| | Oil & Grease (mg/L) | NA | 10 |
| No of Samples required by licence -year to date | | NA | |
| No of Samples collected & analysed -year to date | | NA | |

Notes:

NA - no samples required for monitoring period.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

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L4 Noise Limits

| | Location | Date & Time | Daytime Noise Level recorded dB (LAeq 15 minute) | PDM Noise Contribution (LAeq 15 minute) | Daytime Noise Limit dB (LAeq 15 minute) |
|-------------------------|----------------------|-------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Results for August 2013 | NM1 (EPL Ref No. 33) | NA | | | 42 |
| | | | | | |
| | | | | | |
| | NM2 (EPL Ref No. 14) | NA | | | 42 |
| | | | | | |
| | | | | | |
| | NM3 (EPL Ref No. 10) | NA | | | 42 |
| | | | | | |
| | | | | | |
| | NM4 (EPL Ref No. 5) | NA | | | 35 |
| | | | | | |
| | | | | | |
| | NM5 (EPL Ref No. 4) | NA | | | 35 |
| | | | | | |
| | | | | | |
| | NM6 (EPL Ref No. 2) | NA | | | 35 |
| | | | | | |
| | | | | | |

Notes:

NA - no samples required for monitoring period.

Nil –Noise source not audible during survey session

Noise monitoring is conducted at the same sites as Depositional Dust monitoring. Refer to Community Consultive Monthly Reports for Maps of Sample Locations



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L5 Blasting

| Date | Park Street Blackmans Flat | | Noon St. | | Summer St. | |
|------------|----------------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| | Overpressure (dB) | Vibration (mm/sec) | Overpressure (dB) | Vibration (mm/sec) | Overpressure (dB) | Vibration (mm/sec) |
| 15/08/2013 | NT | NT | 109.9 | 1.45 | 113.3 | 1.19 |
| 16/08/2013 | NT | NT | 109.5 | 1.28 | 109.4 | 1.37 |
| | | | | | | |
| | | | | | | |

Notes:

NT - no trigger of monitoring equipment recorded at this monitoring location.

EPL Blasting Limit for 95% of blasts:

- Airblast overpressure level of **115dB**
- Ground vibration peak velocity of **5mm/sec**

EPL Blasting Limit for 100% of blasts:

- Airblast overpressure level of **120dB**
- Ground Vibration peak velocity of **10mm/sec**

M4 Weather Monitoring

| Parameter required to be monitored | Monitoring Period Required | Compliance Achieved this Month |
|------------------------------------|----------------------------|--------------------------------|
| Air Temperature | Continuous | Yes |
| Wind Direction | Continuous | Yes |
| Wind Speed | Continuous | Yes |
| Sigma theta | Continuous | Yes |
| Rainfall | Continuous | Yes |
| Relative Humidity | Continuous | Yes |

Notes:

Refer to Community Consultive Committee Report for Weather Monitoring Data.



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