

## Pine Dale Mine EPA Compliance Data - November 2018

### M5 Monitoring of Pollution Complaints - Summary

#### Number of Complaints / Enquiries / Notifications - November 2018

Pollution Category	Number Received
Air	0
Water	0
Noise	0
Waste	0
Blast	0
Other	0
Enquiry / Notification	0

#### Notes:

Refer to Complaints register section of Energy Australia 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
Insoluble Solids sample results for month of November 2018 (g/m <sup>2</sup> per mth)	2.8	**	2.1	2.2	1.3	2.1
No of Samples required by licence for the period: 24/11/17 - 23/11/18	12	12	12	12	12	12
No of Samples collected & analysed to date: 24/11/17 - 30/11/18	12	3	11	12	12	12
Lowest Sample value (24/11/17 - 23/11/18) (g/m <sup>2</sup> per mth)	0.3	0.6	0.1	0.3	0.4	0.1
Mean of samples (24/11/17 - 23/11/18) (g/m <sup>2</sup> per mth)	1.1	0.8	0.8	0.8	1.1	0.7
Highest sample value (24/11/17 - 23/11/18) (g/m <sup>2</sup> per mth)	2.8	1.1	2.1	2.2	3.7	2.1

\*\*Dust gauge removed at request of property owner.

	EPL Point 9		
	HVAS TSP	HVAS PM <sub>10</sub>	
Sample results for month of November 2018 (µg/m <sup>3</sup> )	3-Nov-18	38	15
	9-Nov-18	40	7
	15-Nov-18	15	5
	21-Nov-18	70	49
	27/11/2018 <sup>^</sup>	38	11
No of Samples required by licence for the period: 24/11/17 - 23/11/18)	61	61	
No of Samples collected & analysed (24/11/17 - 23/11/17)	61	61	
Lowest Sample value (24/11/17 - 23/11/18) (µg/m <sup>3</sup> )	3	1	
Mean of samples (24/11/17 - 23/11/18) (µg/m <sup>3</sup> )	23	11	
Highest sample value (24/11/17 - 23/11/18) (µg/m <sup>3</sup> )	73	49	

#### Notes:

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

<sup>^</sup>outside EPL licence period 24/11/17 - 23/11/18, not included in statistical calculations



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### M2.3 Water Monitoring Requirements

		EPL Point 2 Neubeck's Creek Upstream of Flow Gauge	EPL Point 3 Neubeck's Creek Downstream from Offices	EPL Point 14 Cox's River Downstream of Blue Lake
Sample results* for Month November 2018.	pH	7.22	7.55	8.69
	Conductivity (µS/cm)	130	121	113
	Sulphate (mg/L)	482	465	57
	Iron - filterable (mg/L)	0.07	0.14	<0.05
	TSS (mg/L)	<5	6	7
	Turbidity (NTU)	<1	<1	20
No of Samples required by licence for the period: 24/11/17 - 23/11/18		4	4	4
No of Samples collected & analysed (24/11/17 - 23/11/18)		4	4	4

**Notes:**

NA - no samples required for monitoring period.

Reporting year runs from 24 Nov 2017 to 23 Nov 2018

\* 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

		EPL Point 13 Discharge to Neubecks Creek	EPL 100 percentile concentration limit
Sample results for Month of November 2018	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 24/11/17 - 23/11/18		NA	
No of Samples collected & analysed 24/11/17 - 23/11/18		NA	

**Notes:**

NA - no samples required for monitoring period due to no discharges.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

## Pine Dale Mine EPA Compliance Data - November 2018

### L4 Noise Limits

	Location	Date	Start Time	Daytime Noise Level recorded dB (LAeq 15 minute)	PDM Noise Contribution (LAeq 15 minute)	Daytime Noise Limit dB (LAeq 15 minute)
Results for November 2018	NM1 (EPL Ref No. 33)	NA	NA	NA	NA	42.0
	NM2 (EPL Ref No. 14)	NA	NA	NA	NA	42.0
	NM3 (EPL Ref No. 10)	NA	NA	NA	NA	42.0
	NM4 (EPL Ref No. 5)	NA	NA	NA	NA	35.0
	NM5 (EPL Ref No. 4)	NA	NA	NA	NA	35.0
	NM6 (EPL Ref No. 2)	NA	NA	NA	NA	35.0

**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

### 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)
No blasting undertaken during November 2018						

**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**



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## Pine Dale Mine EPA Compliance Data - November 2018

### 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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