



Table 1: Dust deposition and compositional monitoring results for the period: February 2013

Site	Dust Deposition (mg/m <sup>2</sup> /day)	DA Criteria (mg/m <sup>2</sup> /day) <sup>a</sup>	Compositional Analysis			Comments
			Major	Minor	Trace	
JD1	43.3	120	Vegetation (40%), Polysaccharide Slime* (20%), Mineral Material (20%), Coal (20%),	NA	Insects (<1%)	Dirt edged road to north, Highway and rail to north, cropped paddock to east.
JD2	73.3	120	Polysaccharide Slime* (30%), Mineral Material (30%), Coal (20%)	Insects (10%), Vegetation (10%)	NA	Grass immediately surrounding gauge, Highway and rail to north, Dirt edged road to east, Crop paddock to south east.
JD3	56.7	120	Mineral Material (30%), Vegetation (30%), Coal (20%)	Insects (10%), Polysaccharide Slime* (10%)	NA	Dirt edged road to east and south, Highway and rail to north, Crop paddock to east, Bare paddock to south.
JD4	73.3	120	Mineral Material (30%), Polysaccharide Slime* (30%), Vegetation (30%)	Coal (10%)	Insects (<1%)	Grass immediately surrounding gauge, Road to south, Highway and rail to south, Stubble paddock to north.
JD5	53.3	120	Vegetation (30%), Polysaccharide Slime (30%), Mineral Material (20%)	NA	Insects (<1%)	Grass immediately surrounding gauge, Unsealed road to the East and South, Highway and rail to north.

<sup>a</sup> Copper sludge is a by product of the necessary preservative (copper sulphate) in sample containers as directed by the laboratory

\*Polysaccharide slime is a by product of the bio-degradation of insects and vegetation

<sup>b</sup>When measured at a sensitive place, the allowable maximum level of the release of dust from the JRLF is 120 milligrams per square metre per day (120mg/m<sup>2</sup>/day) as stated in the JRLF's Development Approval (DA). The dust deposition monitors do not distinguish between dust sources. The predominant wind directions for the month of February were from the east (~52%), south east (~19%), and north east (~8%). The predominant wind speed for January was light winds.

Table 2: Quarterly PM<sub>10</sub> monitoring result for the period 20-21 December 2012

Location	24 Hour PM <sub>10</sub> Result (µg/m <sup>3</sup> )	Long-Term PM <sub>10</sub> Average (µg/m <sup>3</sup> )	NEPM Criteria for 24 Hour PM <sub>10</sub> exposure <sup>b</sup> (µg/m <sup>3</sup> )	Comments
Corner of Lagoon and Earl Streets, Jondaryan	33	23	50	This site was within the downwind area of the Jondaryan Rail Load Facility stockpile for the sample period. The sampler did not complete full 24-hour run (likely attributable to storm activity) and this result is considered semi qualitative only.

<sup>a</sup>Taken from monitoring report with respect to most recent result

<sup>b</sup>This monitoring is undertaken on a quarterly basis for a nominal 24 hour period

The national 24-hour exposure standard for PM<sub>10</sub> particulates stated in the National Environment Protection Measure for Ambient Air Quality is 50 micrograms per cubic metre (50µg/m<sup>3</sup>). The PM<sub>10</sub> monitors do not distinguish between particulate matter sources. The predominant wind direction for the PM<sub>10</sub> monitoring (24 hours) was east-north-easterly.

February 2013 TEOM Results

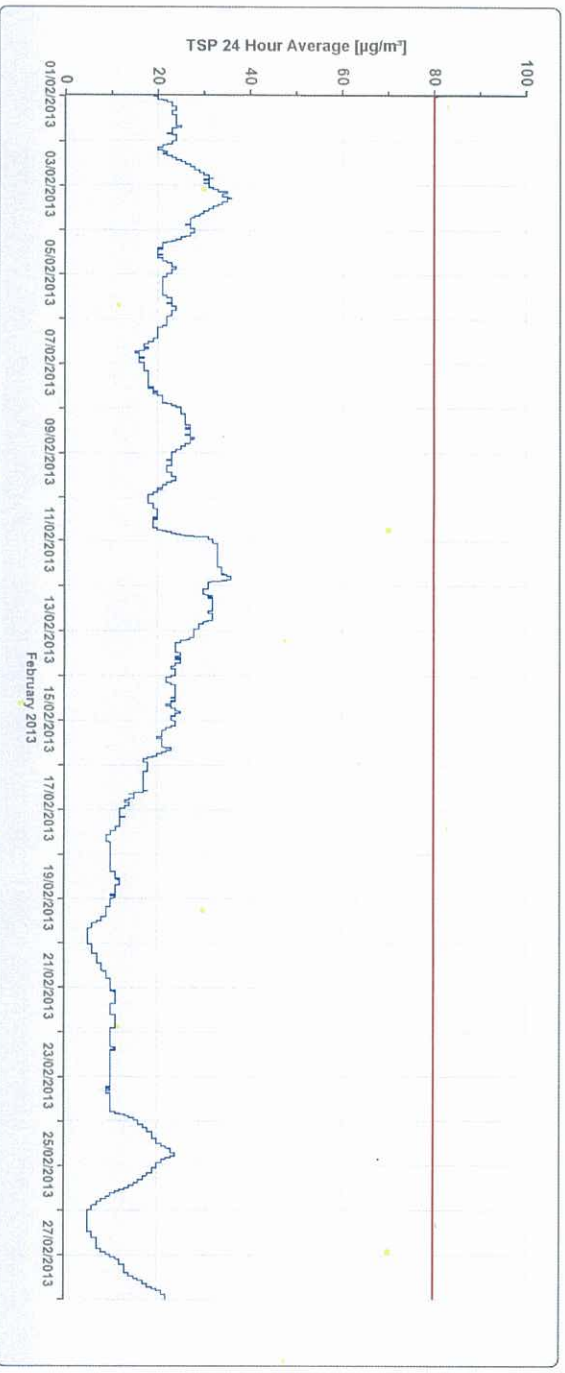


Figure 1: Jondaryan Township TSP continuous monitoring results for the period: January 2013

**Comments:** The predominant wind directions for the month of February were from the east (~52%), south east (~19%), and north east (~8%). The predominant wind speed for January was light winds.. The TEOM unit was operational for >99% of the sample period.

A TEOM located within the Jondaryan Township continuously measures Total Suspended Particulate (TSP) matter. When measured at a sensitive place, the maximum level of the release of TSP from the JRLF (24-hour average) is 80 micrograms per cubic metre (80µg/m<sup>3</sup>) as stated in the JRLF's DA. The TEOM's do not distinguish between particulate matter sources.

If there are any queries regarding the air quality monitoring undertaken for the Jondaryan Rail Loading Facility please contact Rob Rashleigh at the New Acland Coal Mine during business hours on 4694 8888.

Issued by:

Rob Rashleigh  
CHPP Superintendent  
New Acland Coal Pty Ltd

Date: 15/04/2013