



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	20.0	120	Mineral Material (60%)	Vegetation (15%), Coal (10%), Insects (10%)	NA	Rail and Highway to the north, Shubble paddock to north east, JRLF to east, Grass and Crop paddocks to south east, Residential to north, and west, Road with unsealed edges immediately north.
JD2	36.7	120	Coal (45%), Mineral Material (20%), Vegetation (20%)	Insects (15%)	NA	Rail and Highway to north, JRLF to the east, Paddocks to the east, Residential to south and west, Road with unsealed edges immediately east.
JD3	33.3	120	Mineral Material (40%), Coal (40%)	Vegetation (15%), Insects (5%)	NA	Highway and rail to north, JRLF to the east, Residential surrounding, Road with unsealed edges immediately east and south, Paddocks to the west.
JD4	30.0	120	Mineral Material (40%), Coal (40%)	Vegetation (10%), Insects (10%)	NA	Crop paddock surrounding, Residential to west, Rail, Highway and Jondaryan town to south, JRLF to the east.
JD5	10.0	120	Mineral Material (40%), Coal (40%)	Vegetation (15%), Insects (5%)	NA	Rail and highway immediately north, JRLF to the east, Grass paddocks and residential to east, south and west.

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

<sup>b</sup> Polysaccharide slime is a by product of the bio-degradation of insects and vegetation

<sup>c</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 May were from the east (~31%), south east (~15%), and south west (~14%). The predominant wind speed for May was light winds.

Table 2: Quarterly PM<sub>10</sub> monitoring result for the period 23-24 April 2013

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>a</sup> (µg/m <sup>3</sup> )	Comments <sup>b</sup>
Corner of Lagoon and Earl Streets, Jondaryan	61	24	50	Site ... is located ~1 km west-north-west from the JRLF. Site was downwind of the JRLF for ~1/4 of the sampling period. Winds were light. It was noted during the field work that the filter retained a brown-grey dust the same colour as the local ground. During sampler setup and removal, several trucks were noted in the area on the nearby dirt road.

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

<sup>b</sup> PM<sub>10</sub> 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.

May 2013 TEOM Results

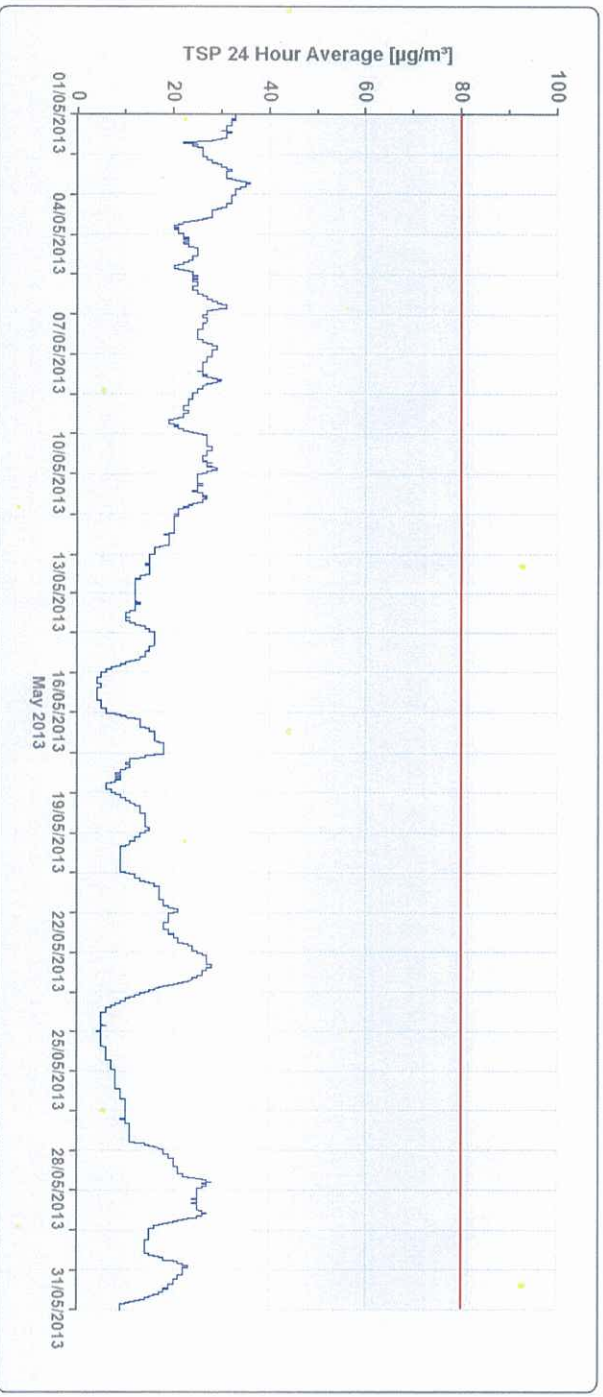


Figure 1: Jondaryan Township TSP continuous monitoring results for the period: May 2013

**Comments:** The predominant wind directions for the month of May were from the east (~31%), south east (~15%), and south west (~14%). The predominant wind speed for May 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: 08/07/2013