



**Jondaryan Rail Loading Facility Air Quality Monitoring Results**

New Acland Coal Pty Ltd (NAC) undertakes air quality monitoring as part of the environmental monitoring program for the Jondaryan Rail Loading Facility (JRLF). The following air quality data is provided to the Jondaryan community.

**Table 1: Dust deposition and compositional monitoring results for the period: October 2012**

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	33.3	120	Mineral Material (30%), Vegetation (20%), Insects (20%), Polysaccharide Slime* (20%)	Coal (10%)	NA	Grass immediately surrounding gauge. Bare paddock and stubble paddock immediately east and to the east. Dirt shouldered road immediately north and north-west. Highway and rail line to the north.
JD2	26.7	120	Mineral Material (50%), Vegetation (20%)	Coal (10%), Insects (10%), Polysaccharide Slime* (10%)	NA	Mown grass immediately surrounding gauge, highway and rail line to the north/north west. Paddock with stubble to the south-east. Dirt shouldered road immediately east.
JD3	16.7	120	Mineral Material (50%)	Insects (15%), Vegetation (15%), Coal (10%), Polysaccharide Slime* (10%)	NA	Grass immediately surrounding gauge. Dirt shouldered road immediately east. Bare paddock to the east, south-east and south. Highway and rail line to the north. Insects and vegetation in funnel stem.
JD4	26.7	120	Mineral Material (45%), Vegetation (20%)	Coal (15%), Insects (10%), Polysaccharide Slime* (10%)	NA	Grass immediately surrounding the gauge. Bare paddock immediately west, north-west and north. Dirt shouldered road to the south. Highway and rail line to the south and south-east.
JD5	23.3	120	Mineral Material (30%), Vegetation (20%), Insects (20%)	Coal (15%), Polysaccharide Slime* (15%)	NA	Grass immediately surrounding the gauge. Highway and rail to the north. Bare paddocks to the south-east and south. Foreign matter in funnel stem.

<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 October were from the east (~27%), north west (~13%), and west (~12%). The predominant wind speed for October was light winds.

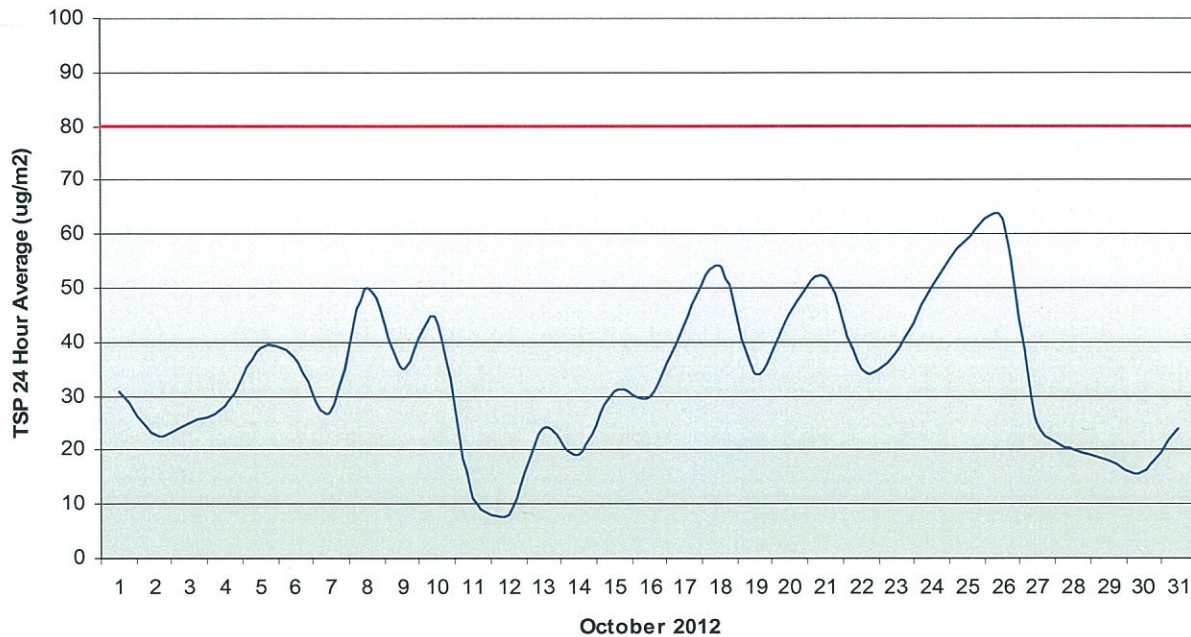
**Table 2: Quarterly PM<sub>10</sub> monitoring result for the period 27-28 September 2012**

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* (µg/m <sup>3</sup> )	Comments
Corner of Lagoon and Earl Streets, Jondaryan	25	22	50	"Site...was within the downwind area of the Jondaryan coal stockpile for the sampling period". "While setting up...several large trucks were noticed producing significant dust on a nearby gravel road".

\*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. The predominant wind direction for the PM<sub>10</sub> monitoring (24 hours) was east-north-easterly.

**October 2012 TEOM Results**



**Figure 1: Jondaryan Township TSP continuous monitoring results for the period: October 2012**

**Comments: The predominant wind directions for October were from the east (~27%), north west (~13%), and west (~12%). The predominant wind speed for October 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:

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New Acland Coal Pty Ltd

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