

Jondaryan Rail Loading Facility Air Quality Monitoring Results

Issue Month: May 2020

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 April 2020

Site	Dust Deposition (mg/m ² /day)	EA Criteria (mg/m ² /day)	Compositional Analysis ¹			Comments
			Major (>20%)	Minor (5% - 20%)	Trace (<5%)	
JD1	20	120	Mineral Material (60%) Coal (30%)	Vegetation (10%)	Insects (<5%)	JRLF to north-east. Dirt & gravel immediately surrounding. Gravel driveways to west, north-west, north & north-east. Road to south-west, west & north-west. Gravel edge road to north-west, north & north-east. Highway & rail to north-west, north & north-east. Bare paddock to north-east, east & south-east. Gravel road to east & south-east.
JD2	17	120	Mineral Material (60%) Coal (40%)	-	Vegetation (<5%) Insects (<5%)	JRLF to north-east. Grass immediately surrounding. Highway & rail to north-west, north & north-east. Gravel edge road to north-east, east, south-east & south. Gravel road to south-east, south & south-west.
JD3	23	120	Mineral Material (75%)	Vegetation (15%) Coal (10%)	Insects (<5%)	JRLF to north-east. Grass & garden immediately surrounding. Highway & rail to north-west, north & north-east. Gravel driveways to north, north-east, east, south-east & south. Road to north, north-east & east. Gravel edge road to south-east, south & south-west.
JD4	76	120	Mineral Material (50%) Vegetation (25%)	Polysaccharide Slime (10%) Coal (10%)	Copper Sludge (5%) Insects (<5%)	JRLF to east. Grass immediately surrounding. Cropped paddock to north. Road to north-east, east, south-east, south & south-west. Highway & rail to south-east, south & south-west.
JD5	30	120	Vegetation (30%) Copper Sludge (20%) Mineral Material (35%)	Coal (15%)	Insects (<5%)	JRLF to north-east. Grass immediately surrounding. Highway & rail to north-west, north & north-east. Road to north-east, east & south-east. Bare ground to the north.

¹ A semi-qualitative visual analysis of a representative portion of the collected sample which is as consistent as possible (however potentially biased) to that of the complete sample

When measured at a sensitive place, the allowable maximum level of the release of dust from JRLF is 120 milligrams per square metre per day (120 mg/m²/day as stated in JRLF's Environmental Authority (EA). The dust deposition monitors do not distinguish between dust sources. The predominant wind directions for April 2020 were East (31.8%), North East (17.0%) and South East (13.0%). The predominant wind speeds were light air to gentle breeze².

²Wind speed classification uses the Beaufort scale

Table 2: Quarterly PM₁₀ monitoring result for 30-31 March 2020

Location	24 Hour PM ₁₀ Result (µg/m ³)	Long-Term PM ₁₀ average (µg/m ³)	NEPM Criteria for 24 Hour PM ₁₀ exposure (µg/m ³) ³	Comments
Corner of Lagoon and Earl Streets, Jondaryan	43	22	50	The site was upwind of the stockpile operations for the majority of the monitoring period.

³Taken from monitoring report, with respect to most recent result

The national 24-hour exposure for PM₁₀ particulates stated in the National Environment Protection Measure for Ambient Air Quality is 50 micrograms per cubic meter (50 µg/m³). The PM₁₀ monitors do not distinguish between *particulate matter sources*.

TSP 24 Hour Average April 2020

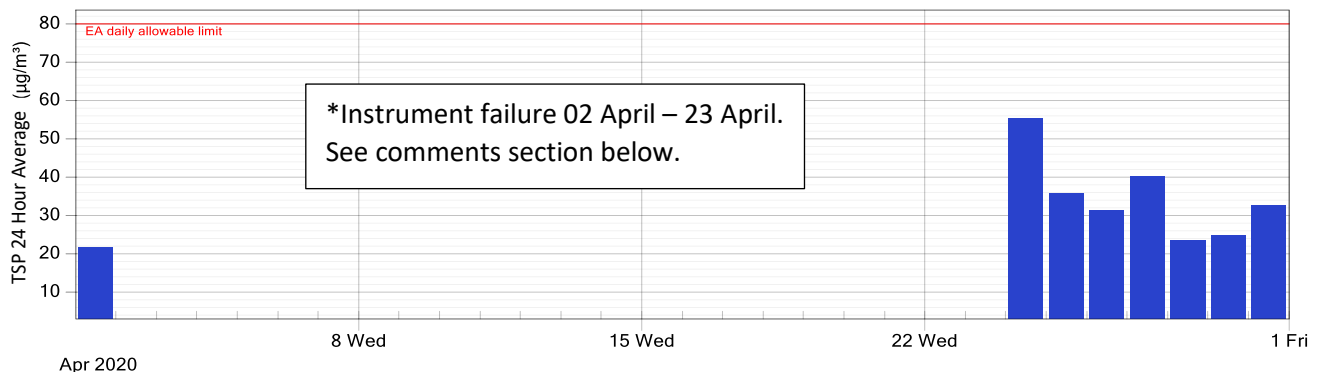


Figure 1: Jondaryan Township TSP continuous monitoring 24 Hr average results for April 2020*

Comments: Ecotech Pty Ltd has been contracted by NAC for the maintenance and data collection at a TEOM site located in the Jondaryan Township which 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 rolling average) is 80 micrograms per cubic metre (80 µg/m³) as stated in the JRLF's EA. Any exceedances of this limit are displayed in Figure 1 (above). The TEOM does not distinguish between particulate matter sources. The predominant wind directions for April 2020 were East (31.8%), North East (17.0%) and South East (13.0%). The predominant wind speeds were light air to gentle breeze². *A major leak on the TEOM resulted in an extended period of invalid data. The leak occurred during a periodic service and was caused by the inadvertent unsealing of an O-ring seal. If there are any queries regarding the air quality monitoring undertaken for the Jondaryan Rail Loading Facility please contact Andrew Scouller 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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