

Jondaryan Rail Loading Facility Air Quality Monitoring Results



Issue Month: June 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 May 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	13	120	Mineral Material (70%) Coal (30%)	-	Vegetation (<5%) 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 & southeast. Gravel road to east & south-east.
JD2	20	120	Mineral Material (40%) Coal (40%)	Vegetation (20%)	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 southeast, south & south-west.
JD3	17	120	Mineral Material (50%) Coal (40%)	-	Vegetation (<5%) 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 southeast, south & south-west.
JD4	50	120	Mineral Material (20%) Coal (20%)	Vegetation (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 & southwest.
JD5	10	120	Mineral Material (50%) Coal (50%)	-	Vegetation (<5%) 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 May 2020 were East (27.5%), South East (17.7%) and South West (16.1%). The predominant wind speeds were light air to gentle breeze².

² Wind 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 ⁴
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.

³ Taken 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
May 2020

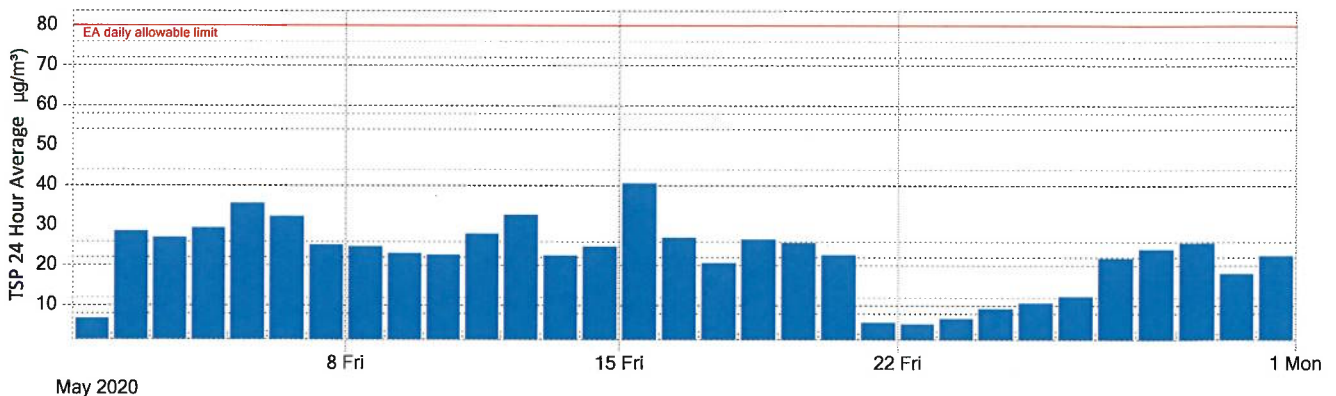


Figure 1: Jondaryan Township TSP continuous monitoring 24 Hr average results for May 2020

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 May 2020 were East (27.5%), South East (17.7%) and South West (16.1%). The predominant wind speeds were light air to gentle breeze². The TEOM unit availability for TSP determination was 99.7% of the sample period. 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 46948888.

Issued by:
Andrew Scouller
CHPP Manager
New Acland Coal Pty Ltd

Date: 24-06-20