Jondaryan Rail Loading Facility Air Quality Monitoring Results
Issue Month: July 2021

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 June 2021

Site	Dust Deposition (mg/m²/day)	EA Criteria (mg/m²/day)	Compositional Analysis[1]			Comments
			Major (>20%)	Minor (5% - 20%)	Trace (<5%)	
JD1	9	120	Dirt (90%)	Insects (10%)	Coal (<5%) Vegetation (<5%)	JRLF to 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	84	120	Dirt (60%) Polysaccharide slime (25%)	Insects (10%) Coal (5%)	Vegetation (<5%)	JRLF to east-south-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	15	120	Dirt (80%)	Vegetation (10%) Insects (5%) Polysaccharide slime (5%)	Coal (<5%)	JRLF to east-south-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	15	120	Dirt (75%)	Polysaccharide slime (10%) Insects (10%) Coal (5%)	Vegetation (<5%)	JRLF to south-east. Grass immediately surrounding. Cropped paddock to north. Local roads in all directions. Highway & rail to south-east, south & southwest.
JD5	57	120	Polysaccharide slime (70%)	Vegetation (15%) Dirt (10%) Insects (5%)	Coal (<5%)	JRLF to east-south-east. Grass immediately surrounding. Highway & rail to north-west, north, north-east, east & south-east. Road to north-west, north, 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 June 2021 were South East (20.1%), West (18.3%) and East (15.4%). The predominant wind speeds were light air to calm[2].

[2]Wind speed classification uses the Beaufort scale

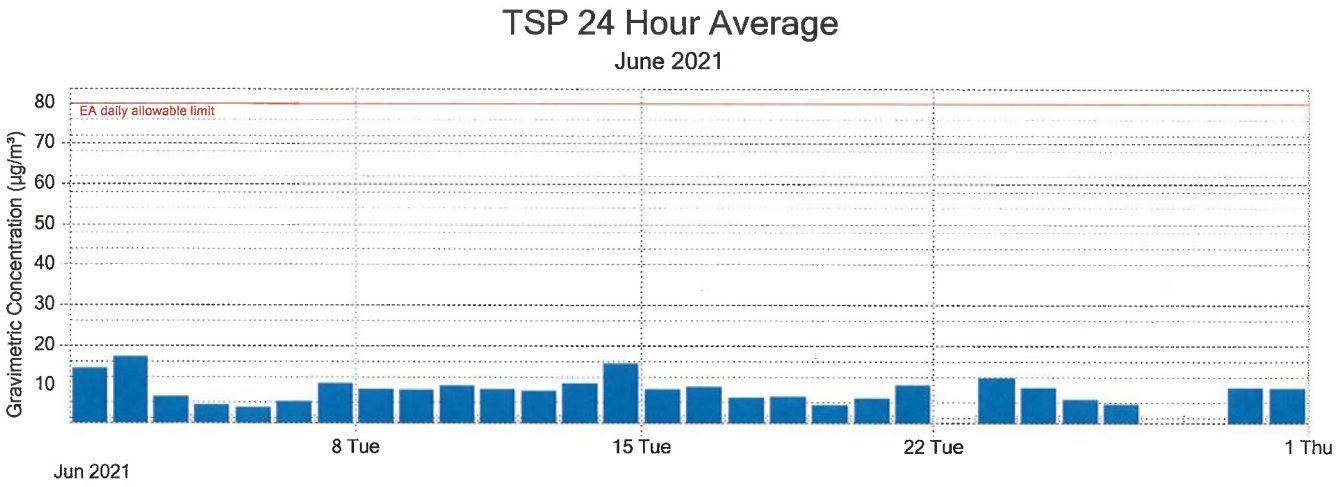

Figure 1: Jondaryan Township TSP continuous monitoring 24 Hr average results for June 2021

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 JLRF'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 June 2021 were South East (20.1%), West (18.3%) and East (15.4%). The predominant wind speeds were light air to calm[2]. Unit availability for TSP determination was 95.2% 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.

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