

**Iluka Resources Limited- Balranald Mineral Sands Mine
Monthly Particulate Monitoring (PM2.5 and PM10)**



The below air quality monitoring results have been obtained in accordance with the Balranald Mineral Sands Mine Air Quality Management Plan and assessed against the air quality criteria outlined in Table 4 of the NSW Development Consent SSD-5285.

Table 4- Short term impact assessment criterion for particulate matter		
Pollutant	Averaging period	Criterion
Particulate matter < 10µm (PM10)	24 Hour	50 µg/m ³
Particulate matter < 2.5µm (PM2.5)	24 Hour	25 µg/m ³

There are 3 days of exceedance in particulate levels recorded on the monitoring station during the month of May. However, no contribution from site activities was observed on either days where the criteria was exceeded.

Figure 1 and 2 represents the 24-hour average PM2.5 and PM10 performance in May 2025 respectively against the limits as mentioned in Table 4.

Please see the comment section of the individual days for detailed information in the table below.

Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
	µg/m³	µg/m³		
24:00 01/05/2025	4.88	9.59	Yes	
24:00 02/05/2025	4.24	13.87	Yes	
24:00 03/05/2025	4.46	10.15	Yes	
24:00 04/05/2025	3.6	8.52	Yes	
24:00 05/05/2025	2.9	5.56	Yes	
24:00 06/05/2025	1.07	5.8	Yes	
24:00 07/05/2025	4.55	23.04	Yes	
24:00 08/05/2025	6.98	23.89	Yes	
24:00 09/05/2025	7.08	17.73	Yes	
24:00 10/05/2025	6.98	19.07	Yes	
24:00 11/05/2025	4.69	11.16	Yes	
24:00 12/05/2025	4.53	45.55	Yes	
24:00 13/05/2025	5.54	16.06	Yes	
24:00 14/05/2025	7	19.36	Yes	
24:00 15/05/2025	5.64	19.47	Yes	
24:00 16/05/2025	6.37	21.05	Yes	
24:00 17/05/2025	2.95	14.69	Yes	
24:00 18/05/2025	6.41	109.19	No	Period of exceedance – 10:45h to 20:15h 18/05/2025. Average wind speed – 45.36 km/hr (up to 51.95 km/hr) Wind direction -predominantly from S.

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Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
				Ongoing site activities were assessed to have not contributed to the event. As the wind was predominantly blowing from S direction, any impact on dust levels cannot be attributed to the site activities. Occasional wind gusts were observed during the exceedance period which could have potentially caused elevation in PM10 concentration at the monitoring station.
24:00 19/05/2025	4.01	10.83	Yes	
24:00 20/05/2025	2.97	13.88	Yes	
24:00 21/05/2025	4.03	15.68	Yes	
24:00 22/05/2025	10.06	22.08	Yes	
24:00 23/05/2025	11.06	17.54	Yes	
24:00 24/05/2025	3.02	14.01	Yes	
24:00 25/05/2025	3.54	9.46	Yes	
24:00 26/05/2025	49.86	287.48	No	Period of exceedance – 16:00h 26/05/2025 to 05:00h 27/05/2025. Average wind speed – 17.96 km/hr (up to 32.86 km/hr) Wind direction – winds swirled from NW-W-NW-N. Ongoing site activities were assessed to have not contributed to the event. Considering the swirling winds and not blowing from the direction of site, any impact on dust levels cannot be attributed to the site activities.
24:00 27/05/2025	16.51	131.59	No	Continuation from previous day until 05:00h 27/05/2025. Ongoing site activities were assessed to have not contributed to the event. Considering the swirling winds and not blowing from the direction of site, any impact on dust levels cannot be attributed to the site activities.
24:00 28/05/2025	5.01	17.15	Yes	
24:00 29/05/2025	4.29	11.8	Yes	
24:00 30/05/2025	5.82	13.75	Yes	
24:00 31/05/2025	5.32	16.58	Yes	

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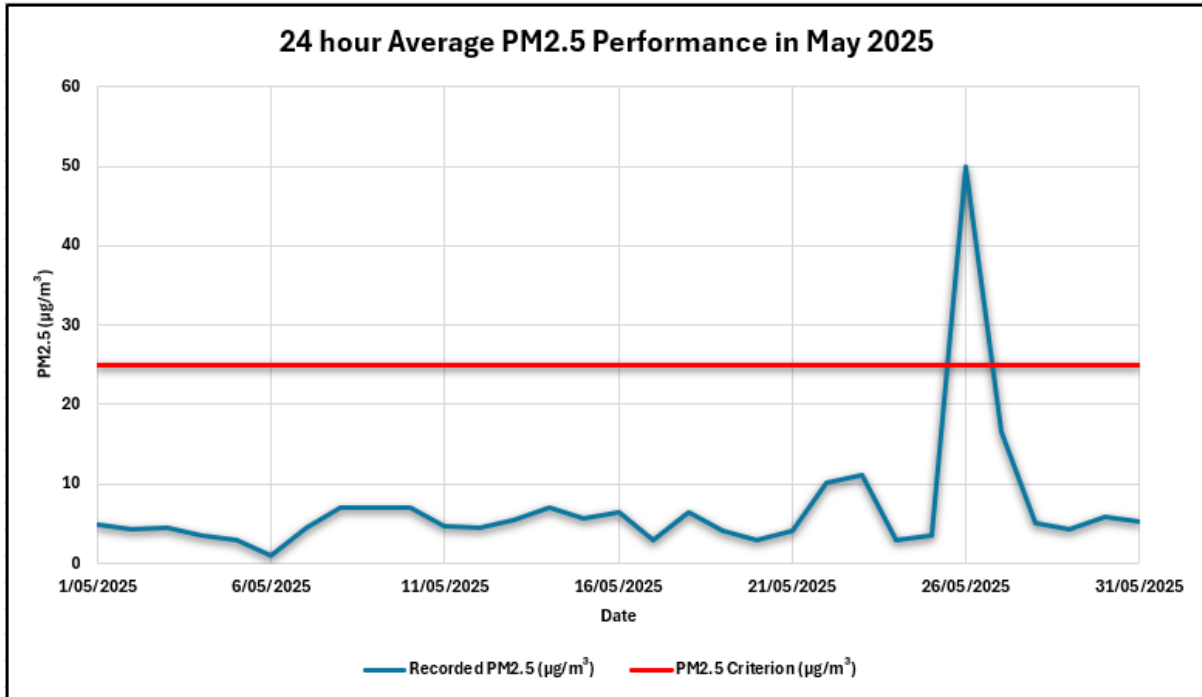


Figure 1 - 24 hour Average PM2.5 Performance in May 2025

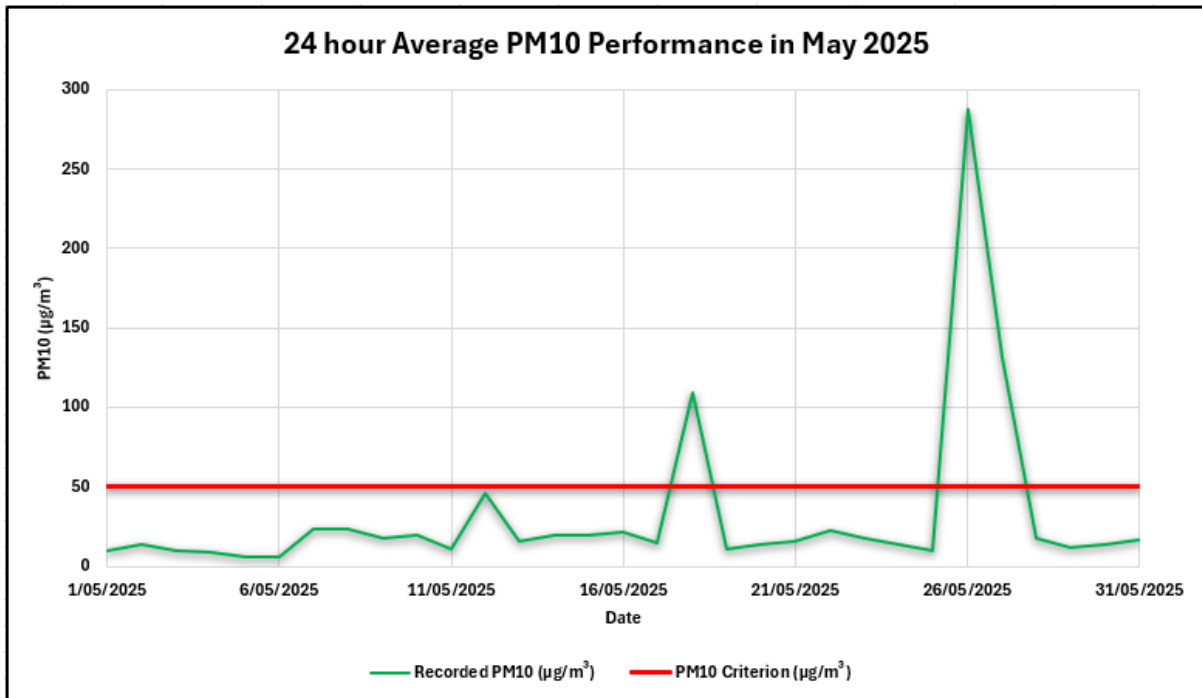


Figure 2 - 24 hour Average PM10 Performance in May 2025