1. MONTHLY REPORT SUMMARY

No air related dust complaints were received this December 2025.

Continuous air quality monitoring was undertaken throughout December 2025. During this period, two days recorded PM10 concentrations exceeding the applicable 24-hour criterion (50 µg/m³). Data analysis confirmed that these exceedances were attributable to regional dust storm events and were not associated with mine site commissioning and mining development operations.

Operational air quality management measures. Water carting across the site, application of the dust suppressant polymer "Crustex", and temporary suspension of work activities during high wind conditions were implemented this month.

2. LEGAL REQUIREMENTS

Balranald Mineral Sands Mine (the Mine) is required by the following to minimise the generation or emission from the premises of wind-blown and traffic-generated dust and to monitor and report particulate matter concentrations:

- NSW Consolidated Development Consent SSD-5285 (MOD 4) (the Consent);
- NSW Environment Protection Licence (EPL) 20795; and
- Balranald Mineral Sands Mine Air Quality Management Plan

2.1 Regulatory criteria and methodology

Air quality monitoring at monitoring point CPM1 is conducted continuously with Particulate Matters PM_{10} and $PM_{2.5}$ in micrograms per cubic metre (µg/m³) and determined in accordance with Australian Standard 3580.9.11-2008.

The recorded data are assessed against the 24-hour incremental (short term) criteria outlined in Table 4 of the Consent and Conditions L4.1 and M2.2 of EPL 20795. A summarised table of the criteria is presented in the Table below.

Table 1 – Incremental (short term) impact assessment criteria for particulate matter monitoring.

Pollutant	Concentration Limit (Criterion[b])	Averaging Period (Short Term)	Monitoring Frequency
Particulate matter < 10 µm (PM_{10})	50 µg/m³	24-hour	Continuous
Particulate matter < 2.5 µm ($PM_{2.5}$)	25 µg/m³	24-hour	Continuous

Note: [b] Incremental impact i.e. incremental increase in concentrations due to the development on its own.

3. MONTHLY MONITORING SUMMARY

3.1 Particulate matter monitoring results – December 2025

Time & Date	PM2.5 (µg/m³)	Compliant (Yes/No)	PM10 (µg/m³)	Compliant (Yes/No)	Comments
24:00 01/12/2025	4.48	Yes	12.59	Yes	
24:00 02/12/2025	4.87	Yes	12.23	Yes	
24:00 03/12/2025	6.33	Yes	11.44	Yes	
24:00 04/12/2025	4.84	Yes	10.05	Yes	
24:00 05/12/2025	4.54	Yes	15.81	Yes	
24:00 06/12/2025	9.37	Yes	64.61	No	Predominant wind – WSW. See Section 3.2 of this Report
24:00 07/12/2025	4.18	Yes	16.99	Yes	
24:00 08/12/2025	7.8	Yes	19.64	Yes	
24:00 09/12/2025	6.56	Yes	16.69	Yes	
24:00 10/12/2025	6.42	Yes	41.52	Yes	
24:00 11/12/2025	6.84	Yes	15.8	Yes	
24:00 12/12/2025	6.12	Yes	20.04	Yes	
24:00 13/12/2025	5.57	Yes	16.18	Yes	
24:00 14/12/2025	3.1	Yes	27.2	Yes	
24:00 15/12/2025	9.01	Yes	34.32	Yes	
24:00 16/12/2025	8.42	Yes	23.11	Yes	
24:00 17/12/2025	8.26	Yes	23.08	Yes	
24:00 18/12/2025	7.53	Yes	19.88	Yes	
24:00 19/12/2025	10.22	Yes	44.88	Yes	
24:00 20/12/2025	7.77	Yes	13.84	Yes	
24:00 21/12/2025	4.46	Yes	18.26	Yes	
24:00 22/12/2025	1.84	Yes	8.73	Yes	
24:00 23/12/2025	4.89	Yes	11.55	Yes	
24:00 24/12/2025	5.28	Yes	14.71	Yes	
24:00 25/12/2025	7.21	Yes	23.76	Yes	
24:00 26/12/2025	6.93	Yes	17.85	Yes	
24:00 27/12/2025	6.16	Yes	13.09	Yes	
24:00 28/12/2025	6.89	Yes	13.4	Yes	
24:00 29/12/2025	5.32	Yes	13.83	Yes	
24:00 30/12/2025	9.33	Yes	74.72	No	Predominant wind SW-SSW. See Section 3.2 0f this Report
24:00 31/12/2025	4.26	Yes	29.09	Yes	

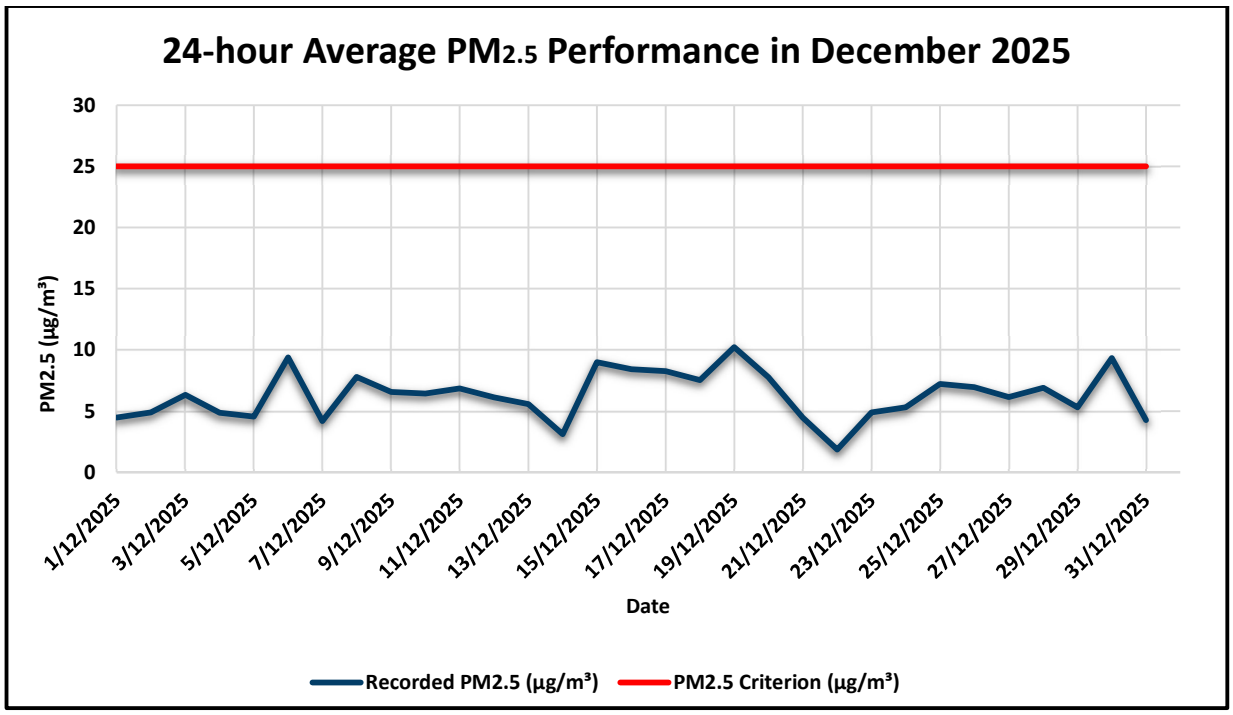


Figure 1- 24-hour Average PM2.5 Performance in December 2025

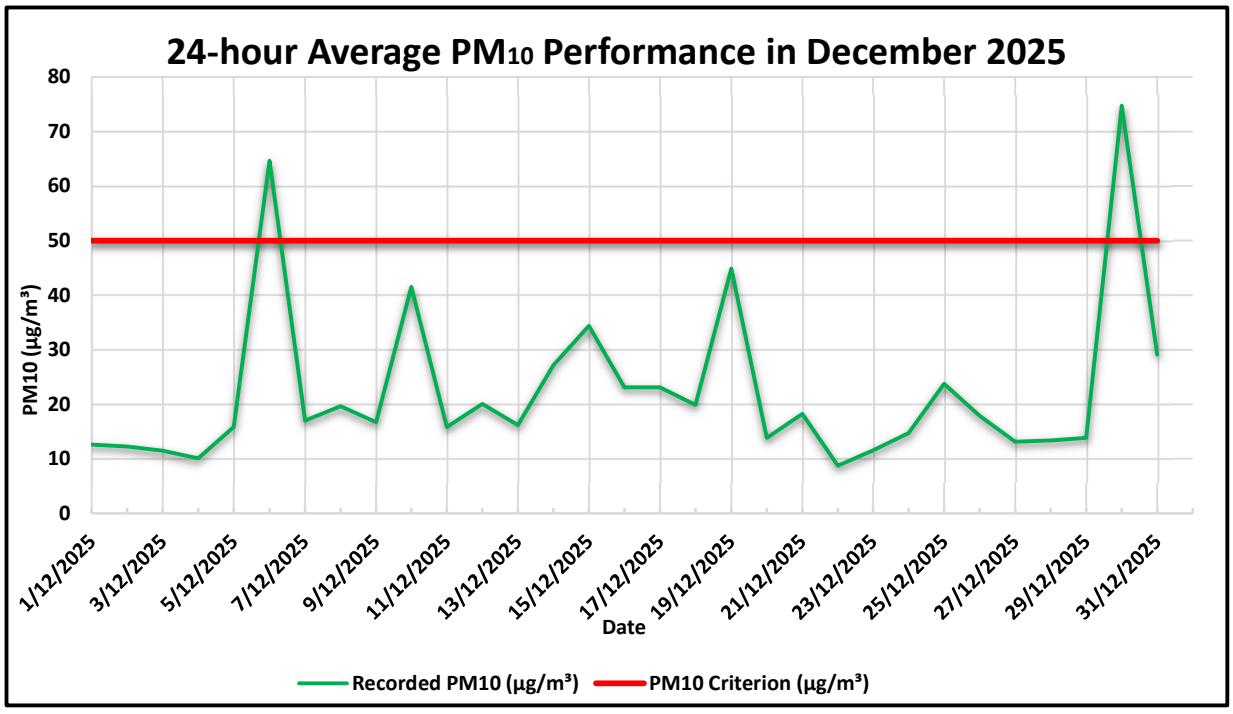


Figure 2 - 24-hour Average PM10 Performance in December 2025

3.2 Exceedances and Incidents Summary

No complaints received in December 2025.

The table below presents additional information to provide an analysis of the recorded exceedances in December 2025. Exceedance of the PM10 criteria is not caused by the mine site activities.

Date	Pollutant	Value (µg/m³)	Criterion Exceeded?	Meteorological Conditions	Extraordinary Event?	Incremental (24-hr) vs Total (annual)	Notification Status
06/12/2025	PM10	64.61	Yes	**Site station (Iluka):** Predominant wind direction **WSW**, average vector wind speed (VWS) was **18.7 km/h**; **0 mm** rain; **RH ~34%** (dry). **BOM (regional):** **Mildura Airport** recorded **max wind gust 63 km/h from NW at 11:09 local**, indicating strong regional winds consistent with dust transport; multiple days around this period show elevated gusts from W–NW/SW across the district.	Yes - regional dust storm event	Incremental – not mine site implicated. Total – annual levels expected to be elevated due to Regional dust event	No external notification required (extraordinary event); internal record maintained
30/12/2025	PM10	74.72	Yes	**Site station (Iluka):** Predominant wind direction **SW-SSW**, average **VWS** was **15.37 km/h**; **0 mm** rain; **RH ~21%** (very dry). **BOM (regional):** **Mildura Airport** observed **max wind gust 46 km/h from SSW at 17:10 local**; broader December obervations show frequent strong **SW–SSW** winds in the region, supporting dust transport from the southwest into Lower Western NSW.	Yes – regional dust storm event	Incremental – not mine site implicated. Total – annual levels expected to be elevated due to Regional dust event	No external notification required (extraordinary event); internal record maintained

4. REPORTING

In accordance with **Schedule 5, Access to Information (condition 10)** of the Consent monthly air quality reports are published each month on the Balranald Mine's website: **Balranald - Community Engagement | Iluka Resources**.