

**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.

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

<b>Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13</b>				
<b>Date Time</b>	<b>PM2.5</b>	<b>PM10</b>	<b>Compliant (Yes/No)</b>	<b>Comments</b>
	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>		
24:00 01/11/2024	3.74	12.65	Yes	
24:00 02/11/2024	5.65	14.36	Yes	
24:00 03/11/2024	5.15	17.1	Yes	
24:00 04/11/2024	7.01	23.14	Yes	
24:00 05/11/2024	6.77	20.74	Yes	
24:00 06/11/2024	7.21	44.48	Yes	
24:00 07/11/2024	4.75	34.1	Yes	
24:00 08/11/2024	4.65	15.05	Yes	
24:00 09/11/2024	7	20.34	Yes	
24:00 10/11/2024	6.07	22.74	Yes	
24:00 11/11/2024	7.47	28.35	Yes	
24:00 12/11/2024	5.59	21.09	Yes	
24:00 13/11/2024	3.52	13.01	Yes	
24:00 14/11/2024	5.43	22.97	Yes	
24:00 15/11/2024	6.72	24.65	Yes	
24:00 16/11/2024	6.57	24.29	Yes	
24:00 17/11/2024	18.19	151.87	No	Elevated PM10 levels averaging up to 150 ug/m3 between 10:30h on 17/11/2024 and 1:30h on 18/11/2024 recorded due to prevailing hot and dry weather conditions with high wind speed of up to 29km/hr predominantly from South-West. Hence, the event cannot be attributed to site activities.
24:00 18/11/2024	4.93	19.64	Yes	
24:00 19/11/2024	5.34	17.26	Yes	
24:00 20/11/2024	5.41	19.6	Yes	
24:00 21/11/2024	6.27	25.62	Yes	

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<b>Date Time</b>	<b>PM2.5</b>	<b>PM10</b>	<b>Compliant (Yes/No)</b>	<b>Comments</b>
24:00 22/11/2024	3.62	17.99	Yes	
			No	Elevated dust levels observed on monitor between 16:30h on the 23/11/2024 and 4:30h on the 24/11/2024. High winds were recorded up to 47.2km/h with an average speed of up to 22km/hr during the period. Wind direction was from N in the beginning of the period, gradually swung to SW and S. In addition, no site activities were being undertaken that might have contributed to the event.
24:00 23/11/2024	52.52	234.24		
24:00 24/11/2024	-	-	NA	External power outage
24:00 25/11/2024	-	-	NA	External power outage
24:00 26/11/2024	1.46	3.65	Yes	
24:00 27/11/2024	0.99	12.99	Yes	
24:00 28/11/2024	4.57	11.86	Yes	
24:00 29/11/2024	3.45	9.54	Yes	
24:00 30/11/2024	3.26	16.72	Yes	