

**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

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 01/09/2024	4.02	17.99	Yes	
24:00 02/09/2024	8.69	41.05	Yes	
24:00 03/09/2024	9.08	24.64	Yes	
24:00 04/09/2024	3.71	20.16	Yes	
24:00 05/09/2024	6.88	35.87	Yes	
24:00 06/09/2024	10.02	67.65	No	The average PM10 on 6/9/24 between 10:00am-6:00pm was 113 µg/m ³ . During this period the average wind speed was 28.6km/h from the west. The wind direction would indicate that the elevated PM10 level is not attributed to site activities.
24:00 07/09/2024	2.9	9.01	Yes	
24:00 08/09/2024	3.12	8.35	Yes	
24:00 09/09/2024	3.94	10.85	Yes	
24:00 10/09/2024	3.31	10.21	Yes	
24:00 11/09/2024	5.22	18.41	Yes	
24:00 12/09/2024	3.4	11.65	Yes	
24:00 13/09/2024	2.92	6.8	Yes	
24:00 14/09/2024	3.33	11.8	Yes	
24:00 15/09/2024	4.94	9.3	Yes	
24:00 16/09/2024	4.27	13.53	Yes	
24:00 17/09/2024	3.85	9.45	Yes	
24:00 18/09/2024	1.46	14.52	Yes	
24:00 19/09/2024	4.35	33.13	Yes	
24:00 20/09/2024	1.78	10.49	Yes	
24:00 21/09/2024	4.21	10.99	Yes	
24:00 22/09/2024	2.59	10.23	Yes	
24:00 23/09/2024	3.92	28.06	Yes	

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Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
24:00 24/09/2024	5.85	66.6	No	The average PM10 on 24/9/24 between 11:00am-4:00pm was 165 µg/m ³ . During this period the average wind speed was 19.8km/h from the south west. The wind direction would indicate that the elevated PM10 level is not attributed to site activities.
24:00 25/09/2024	4.09	7.62	Yes	
24:00 26/09/2024	3.83	14.03	Yes	
24:00 27/09/2024	4.02	11.21	Yes	
24:00 28/09/2024	3.59	11.33	Yes	
24:00 29/09/2024	4.05	5.77	Yes	
24:00 30/09/2024	2.51	9.78	Yes	