

# Quarterly Dust Monitoring Results

Q2 2024



<b>Date of this report</b>	18/7/2024
<b>Environmental Personnel Submitting Report</b>	Les Merton Environment and Community Superintendent Cameby Downs Mine Phone: (07) 4665 8621
<b>Relevant Environmental Authority Conditions</b>	EPML00900113 Condition B2 (e); quarterly reporting of the measured dust deposition rates and PM10 concentrations to a publicly available website
<b>Period</b>	4/1/2024 - 6/30/2024

Table 1: Quarter 2 2024 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (µg/m³)</b>
1/4/2024	5.9000
2/4/2024	4.3000
3/4/2024	3.4000
4/4/2024	6.8000
5/4/2024	5.0000
6/4/2024	5.4000
7/4/2024	2.0000
8/4/2024	3.0000
9/4/2024	5.4000
10/4/2024	7.3000
11/4/2024	7.5000
12/4/2024	5.5000
13/4/2024	6.7000
14/4/2024	9.6000
15/4/2024	9.5000
16/4/2024	9.0000
17/4/2024	8.3000
18/4/2024	7.5000
19/4/2024	7.7000

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Table 1: Quarter 2 2024 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/04/2024	7.3000
21/04/2024	8.6000
22/04/2024	2.1000
23/04/2024	7.2000
24/04/2024	5.3000
25/04/2024	4.0000
26/04/2024	5.2000
27/04/2024	7.6000
28/04/2024	6.4000
29/04/2024	3.5000
30/04/2024	4.3000
1/05/2024	5.7000
2/05/2024	5.6000
3/05/2024	6.0000
4/05/2024	4.7000
5/05/2024	5.0000
6/05/2024	1.7000
7/05/2024	5.8000
8/05/2024	2.8000
9/05/2024	6.5000
10/05/2024	7.0000
11/05/2024	6.3000
12/05/2024	2.7000
13/05/2024	1.6000
14/05/2024	0.6000
15/05/2024	3.4000
16/05/2024	5.9000

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Table 1: Quarter 2 2024 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
17/05/2024	7.1000
18/05/2024	7.0000
19/05/2024	7.6000
20/05/2024	4.1000
21/05/2024	4.8000
22/05/2024	9.1000
23/05/2024	9.8000
24/05/2024	9.4000
25/05/2024	6.5000
26/05/2024	5.9000
27/05/2024	5.1000
28/05/2024	6.7000
29/05/2024	7.1000
30/05/2024	9.0000
31/05/2024	5.8000
1/06/2024	6.7000
2/06/2024	5.5000
3/06/2024	2.1000
4/06/2024	2.2000
5/06/2024	2.5000
6/06/2024	3.5000
7/06/2024	1.8000
8/06/2024	1.8000
9/06/2024	1.5000
10/06/2024	2.1000
11/06/2024	2.8000
12/06/2024	4.3000

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Table 1: Quarter 2 2024 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
13/06/2024	3.5000
14/06/2024	6.4000
15/06/2024	6.3000
16/06/2024	4.7000
17/06/2024	2.0000
18/06/2024	3.6000
19/06/2024	6.5000
20/06/2024	5.2000
21/06/2024	7.6000
22/06/2024	24.0000
23/06/2024	3.3000
24/06/2024	6.0000
25/06/2024	5.7000
26/06/2024	5.1000
27/06/2024	11.7000
28/06/2024	37.6000
29/06/2024	3.2000
30/06/2024	8.5000

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Table 2: Quarter 2 2024 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5			CDG6		
	30-04-2024	31-05-2024	01-07-2024	30-04-2024	31-05-2024	01-07-2024	30-04-2024	31-05-2024	01-07-2024	30-04-2024	31-05-2024	01-07-2024	30-04-2024	31-05-2024	01-07-2024	30-04-2024	31-05-2024	01-07-2024
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.2	0.2	0.3	1.2	1.2	2.0	0.4	0.3	0.2	0.6	0.4	1.3	0.4	1.0	0.4	0.2	0.1	0.2
Ash Content (mg)	3	3	6	20	22	36	6	6	4	10	7	23	6	18	7	3	2	3
Combustible Matter (g/m <sup>2</sup> /month)	0.2	<0.1	0.3	0.3	0.2	0.6	<0.1	0.1	0.3	<0.1	0.1	1.2	0.2	0.5	0.2	<0.1	<0.1	0.4
Combustible Matter (mg)	3	<2	5	5	3	11	<2	<2	5	<2	2	22	4	9	4	<2	<2	8
Calculated Rainfall (mm)	61	19	38	58	16	36	47	11	46	66	14	40	43	11	29	63	18	35
Volume	1080	332	668	1020	286	644	836	192	811	1180	256	700	753	201	516	1120	320	616
Total Soluble Matter (g/m <sup>2</sup> /month)	0.1	<0.1	<0.1	0.4	2.7	2.7	<0.1	<0.1	0.5	0.6	0.3	2.1	6.1	2.2	<0.1	0.3	<0.1	2.6
Total Soluble Matter (mg)	<2	<2	<2	7	50	49	<2	<2	9	10	5	38	101	40	<2	5	<2	47
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.4	0.2	0.6	1.5	1.4	2.6	0.4	0.4	0.5	0.6	0.5	2.5	0.6	1.5	0.6	0.2	0.1	0.6
Total Insoluble Matter (mg)	6	4	11	25	25	47	6	7	9	10	9	45	10	27	11	3	2	11
Total Solids (g/m <sup>2</sup> /month)	0.5	0.2	0.6	1.9	4.1	5.3	0.4	0.4	1.0	1.2	0.8	4.6	6.7	3.7	0.6	0.5	0.1	3.2
Total Solids (mg)	7	4	11	32	75	96	6	7	18	20	14	83	111	67	11	8	2	58
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0133	0.0067	0.0200	0.0500	0.0467	0.0867	0.0133	0.0133	0.0167	0.0200	0.0167	0.0833	0.0200	0.0500	0.0200	0.0067	0.0033	0.0200