

# Quarterly Dust Monitoring Results

Q3 2023



<b>Date of this report</b>	1/11/2023
<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>	1/07/2023 - 30/09/2023

Table 1: Quarter 3 2023 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/07/2023	3.5000
2/07/2023	4.0000
3/07/2023	8.2000
4/07/2023	7.9000
5/07/2023	1.3000
6/07/2023	4.4000
7/07/2023	2.4000
8/07/2023	14.0000
9/07/2023	4.6000
10/07/2023	5.2000
11/07/2023	3.3000
12/07/2023	9.6000
13/07/2023	9.1000
14/07/2023	6.3000
15/07/2023	7.3000
16/07/2023	7.8000
17/07/2023	8.8000
18/07/2023	9.6000
19/07/2023	7.4000

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Table 1: Quarter 3 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/07/2023	13.4000
21/07/2023	22.0000
22/07/2023	26.0000
23/07/2023	5.0000
24/07/2023	8.3000
25/07/2023	6.2000
26/07/2023	7.6000
27/07/2023	5.9000
28/07/2023	7.9000
29/07/2023	6.8000
30/07/2023	9.3000
31/07/2023	11.0000
1/08/2023	12.3000
2/08/2023	22.8000
8/08/2023	5.4000
13/08/2023	43.0000
14/08/2023	7.3000
17/08/2023	27.4000
18/08/2023	32.0000
19/08/2023	11.5000
20/08/2023	4.9000
21/08/2023	28.0000
22/08/2023	12.1000
23/08/2023	14.7000
24/08/2023	12.9000
25/08/2023	48.3000
26/08/2023	24.0000

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Table 1: Quarter 3 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
27/08/2023	9.8000
28/08/2023	49.2000
29/08/2023	34.0000
30/08/2023	8.7000
31/08/2023	7.0000
1/09/2023	6.5000
2/09/2023	29.1000
4/09/2023	17.1000
5/09/2023	19.3000
6/09/2023	13.4000
7/09/2023	11.9000
8/09/2023	10.9000
9/09/2023	12.8000
13/09/2023	38.9000
15/09/2023	9.7000
16/09/2023	6.5000
18/09/2023	13.9000
19/09/2023	17.0000
20/09/2023	33.9000
21/09/2023	12.2000
22/09/2023	20.6000
23/09/2023	16.5000
24/09/2023	8.8000
25/09/2023	13.2000
30/09/2023	23.5000

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Table 2: Quarter 3 2023 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5			CDG6		
	31-07-2023	31-08-2023	29-09-2023	31-07-2023	31-08-2023	29-09-2023	31-07-2023	31-08-2023	29-09-2023	31-07-2023	31-08-2023	29-09-2023	31-07-2023	31-08-2023	29-09-2023	31-07-2023	31-08-2023	29-09-2023
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.4	0.3	0.1	0.4	0.4	0.2	0.3	0.4	<0.1	0.6	0.7	0.1	0.3	1.6	0.4	0.2	1.0	0.6
Ash Content (mg)	7	6	2	8	8	4	5	7	<2	10	13	<2	5	28	7	3	18	9
Combustible Matter (g/m <sup>2</sup> /month)	0.4	0.4	0.1	0.2	0.4	0.3	0.1	<0.1	0.1	0.3	0.3	0.8	0.3	1.1	3.9	<0.1	0.7	<0.1
Combustible Matter (mg)	7	6	2	3	6	5	3	<2	<2	6	6	14	6	21	66	<2	12	<2
Calculated Rainfall (mm)	26	4	3	23	4	2	23	2	1	22	1	1	18	2	<1	19	2	1
Volume	467	79	46	411	65	41	410	30	25	385	22	23	312	36	11	343	32	25
Total Soluble Matter (g/m <sup>2</sup> /month)	1.7	0.6	0.6	1.0	0.4	1.9	0.8	0.9	0.6	2.4	1.7	1.9	6.9	3.6	4.3	1.5	2.3	1.8
Total Soluble Matter (mg)	32	11	10	19	8	32	15	17	11	45	32	32	126	67	74	27	42	30
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.8	0.7	0.2	0.6	0.8	0.5	0.4	0.4	0.1	0.9	1.0	0.9	0.6	2.7	4.3	0.2	1.7	0.6
Total Insoluble Matter (mg)	14	12	4	11	14	9	8	7	<2	17	19	16	11	49	73	4	31	10
Total Solids (g/m <sup>2</sup> /month)	2.5	1.3	0.8	1.6	1.2	2.4	1.2	1.3	0.7	3.3	2.7	2.8	7.5	6.3	8.6	1.7	4.0	2.4
Total Solids (mg)	46	23	14	30	22	41	23	24	12	62	51	48	137	116	147	31	73	40
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0267	0.0233	0.0067	0.0200	0.0267	0.0167	0.0133	0.0133	0.0033	0.0300	0.0333	0.0300	0.0200	0.0900	0.1433	0.0067	0.0567	0.0200