

Quarterly Dust Monitoring Results

Q4 2023



Date of this report	1/02/2024
Environmental Personnel Submitting Report	Les Merton Environment and Community Superintendent Cameby Downs Mine Phone: (07) 4665 8621
Relevant Environmental Authority Conditions	EPML00900113 Condition B2 (e); quarterly reporting of the measured dust deposition rates and PM10 concentrations to a publicly available website
Period	1/10/2023 - 31/12/2023

Table 1: Quarter 4 2023 PM10 Concentrations

Date	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
1/10/2023	14.6000
2/10/2023	30.3000
3/10/2023	8.3000
4/10/2023	27.5000
5/10/2023	12.3000
6/10/2023	8.1000
7/10/2023	9.6000
8/10/2023	17.8000
9/10/2023	7.1000
10/10/2023	6.2000
11/10/2023	8.0000
12/10/2023	9.8000
13/10/2023	9.7000
14/10/2023	15.8000
15/10/2023	8.5000
16/10/2023	9.1000
17/10/2023	24.0000
18/10/2023	15.7000
19/10/2023	18.7000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
20/10/2023	14.3000
21/10/2023	11.8000
22/10/2023	8.5000
23/10/2023	22.3000
24/10/2023	21.8000
25/10/2023	22.0000
26/10/2023	23.0000
27/10/2023	24.0000
28/10/2023	21.8000
29/10/2023	9.0000
30/10/2023	15.0000
31/10/2023	17.7000
1/11/2023	30.9000
2/11/2023	45.3000
3/11/2023	21.7000
4/11/2023	18.8000
5/11/2023	9.1000
6/11/2023	8.8000
7/11/2023	4.8000
8/11/2023	4.3000
9/11/2023	7.9000
10/11/2023	6.1000
11/11/2023	7.1000
12/11/2023	5.8000
13/11/2023	8.2000
14/11/2023	17.5000
15/11/2023	22.3000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
16/11/2023	24.8000
17/11/2023	20.0000
18/11/2023	33.2000
19/11/2023	14.3000
20/11/2023	10.9000
21/11/2023	3.0000
22/11/2023	5.8000
23/11/2023	3.3000
24/11/2023	5.0000
25/11/2023	10.9000
26/11/2023	10.1000
27/11/2023	7.4000
28/11/2023	12.4000
29/11/2023	3.4000
30/11/2023	5.0000
1/12/2023	5.3000
2/12/2023	6.4000
3/12/2023	4.0000
4/12/2023	4.0000
5/12/2023	30.5000
6/12/2023	13.9000
7/12/2023	19.8000
8/12/2023	33.8000
9/12/2023	17.5000
10/12/2023	9.1000
11/12/2023	17.2000
12/12/2023	14.1000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
13/12/2023	14.8000
14/12/2023	29.8000
15/12/2023	38.4000
16/12/2023	13.2000
17/12/2023	14.7000
18/12/2023	8.5000
19/12/2023	8.1000
20/12/2023	13.2000
21/12/2023	14.6000
22/12/2023	6.9000
23/12/2023	3.1000
24/12/2023	4.1000
25/12/2023	5.7000
26/12/2023	7.5000
27/12/2023	5.5000
28/12/2023	5.2000
29/12/2023	6.1000
30/12/2023	5.0000
31/12/2023	8.9000

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Table 2: Quarter 4 2023 Depositional Dust Monitoring Data

	CDG1		CDG2		CDG3		CDG4		CDG5		CDG6	
	31-10-2023	30-11-2023	31-10-2023	30-11-2023	31-10-2023	30-11-2023	31-10-2023	30-11-2023	31-10-2023	30-11-2023	31-10-2023	30-11-2023
Depositional Dust												
Ash Content - Monthly (g/m ² /month)	1.1	0.4	1.1	0.3	1.2	0.6	2.3	0.7	0.8	1.2	1.1	0.7
Ash Content (mg)	21	7	21	5	22	10	44	13	15	22	20	13
Combustible Matter (g/m ² /month)	0.9	0.1	0.3	0.8	1.0	<0.1	0.8	<0.1	1.5	2.7	0.5	0.5
Combustible Matter (mg)	17	<2	6	15	20	<2	14	<2	29	47	11	9
Calculated Rainfall (mm)	12	140	12	142	9	147	12	122	13	132	10	131
Volume	219	2470	207	2510	165	2590	210	2160	228	2340	184	2320
Total Soluble Matter (g/m ² /month)	0.3	0.2	0.4	<0.1	0.8	1.7	0.4	1.4	0.2	3.6	<0.1	2.9
Total Soluble Matter (mg)	5	4	7	<2	15	31	7	25	5	64	<2	52
Total Insoluble Matter (g/m ² /month)	2.0	0.5	1.4	1.1	2.2	0.6	3.1	0.7	2.3	3.9	1.6	1.2
Total Insoluble Matter (mg)	38	8	27	20	42	10	58	13	44	69	31	22
Total Solids (g/m ² /month)	2.3	0.7	1.8	1.1	3.0	2.3	3.5	2.1	2.5	7.5	1.6	4.1
Total Solids (mg)	43	12	34	20	57	41	65	38	49	133	31	74
Total Insoluble Matter (Average) (g/m ² /day)	0.0667	0.0167	0.0467	0.0367	0.0733	0.0200	0.1033	0.0233	0.0767	0.1300	0.0533	0.0400