

# Quarterly Dust Monitoring Results

Q4 2020



<b>Date of this report</b>	1/02/2021
<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>	1/10/2020 - 31/12/2020

Table 1: Quarter 4 2020 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/10/2020	8.8000
2/10/2020	15.3000
3/10/2020	12.8000
4/10/2020	11.9000
5/10/2020	10.9000
6/10/2020	13.3000
7/10/2020	13.0000
8/10/2020	14.2000
9/10/2020	18.3000
10/10/2020	16.3000
11/10/2020	11.7000
12/10/2020	19.0000
13/10/2020	9.1000
14/10/2020	10.9000
15/10/2020	7.5000
16/10/2020	12.7000
17/10/2020	14.8000
18/10/2020	22.3000
19/10/2020	18.8000

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Table 1: Quarter 4 2020 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/10/2020	11.4000
21/10/2020	13.2000
22/10/2020	10.6000
23/10/2020	13.7000
24/10/2020	14.6000
25/10/2020	6.3000
26/10/2020	12.5000
27/10/2020	11.2000
28/10/2020	13.9000
29/10/2020	12.2000
30/10/2020	11.1000
31/10/2020	23.1000
1/11/2020	19.4000
2/11/2020	11.8000
3/11/2020	14.1000
4/11/2020	15.7000
5/11/2020	25.7000
6/11/2020	28.0000
7/11/2020	16.1000
8/11/2020	28.1000
9/11/2020	36.0000
10/11/2020	17.1000
11/11/2020	13.9000
12/11/2020	17.3000
13/11/2020	15.7000
14/11/2020	13.0000
15/11/2020	13.8000

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Table 1: Quarter 4 2020 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
16/11/2020	13.3000
17/11/2020	20.8000
18/11/2020	14.8000
19/11/2020	14.9000
20/11/2020	16.4000
21/11/2020	13.5000
22/11/2020	24.0000
23/11/2020	33.3000
24/11/2020	26.4000
25/11/2020	22.7000
26/11/2020	17.7000
27/11/2020	23.3000
28/11/2020	19.0000
29/11/2020	23.0000
30/11/2020	26.9000
1/12/2020	27.6000
2/12/2020	27.2000
3/12/2020	28.7000
4/12/2020	19.9000
5/12/2020	19.0000
6/12/2020	26.3000
7/12/2020	24.5000
8/12/2020	17.6000
9/12/2020	11.0000
10/12/2020	13.1000
11/12/2020	17.8000
12/12/2020	9.9000

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Table 1: Quarter 4 2020 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
13/12/2020	4.5000
14/12/2020	3.5000
15/12/2020	0.6000
16/12/2020	1.5000
17/12/2020	4.3000
18/12/2020	6.7000
19/12/2020	9.7000
20/12/2020	3.0000
21/12/2020	10.5000
22/12/2020	13.6000
23/12/2020	6.5000
24/12/2020	4.5000
25/12/2020	10.5000
26/12/2020	6.7000
27/12/2020	8.6000
28/12/2020	8.6000
29/12/2020	25.8000
30/12/2020	19.1000
31/12/2020	4.3000

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Table 2: Quarter 4 2020 Depositional Dust Monitoring Data

	CDG1				CDG2				CDG3				CDG4				CDG5	
	06-10-2020	02-11-2020	01-12-2020	31-12-2020	06-10-2020	02-11-2020	02-12-2020	31-12-2020	06-10-2020	02-11-2020	01-12-2020	31-12-2020	06-10-2020	02-11-2020	02-12-2020	31-12-2020	06-10-2020	02-11-2020
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.7	0.4	0.2	0.5	0.4	0.5	0.9	1.3	1.2	1.4	0.5	1.2	0.3	0.5	0.3	1.4	0.4	0.4
Ash Content (mg)	14	7	3	9	9	8	17	22	26	22	8	22	7	8	6	24	8	6
Combustible Matter (g/m <sup>2</sup> /month)	0.1	0.1	<0.1	0.3	0.2	0.3	0.3	0.7	0.3	0.2	0.1	0.4	<0.1	0.1	0.3	0.3	0.1	<0.1
Combustible Matter (mg)	3	3	<1	5	4	4	4	13	5	4	2	6	<1	2	5	6	3	<1
Calculated Rainfall (mm)	23	29	4	45	28	47	3	79	25	37	4	69	18	33	4	88	22	44
Volume	404	506	63	792	491	835	58	1400	444	650	72	1220	311	589	72	1560	386	786
Total Soluble Matter (g/m <sup>2</sup> /month)	1.7	3.5	1.1	4.3	2.1	2.5	2.2	4.9	1.9	3.1	1.6	3.7	1.4	2.3	0.8	4.6	1.0	1.4
Total Soluble Matter (mg)	35	56	19	75	43	40	39	86	40	50	27	66	28	36	15	81	21	22
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.8	0.6	0.2	0.8	0.6	0.8	1.2	2.0	1.5	1.6	0.6	1.6	0.3	0.6	0.6	1.7	0.5	0.4
Total Insoluble Matter (mg)	17	10	3	14	13	12	21	35	31	26	10	28	7	10	11	30	11	6
Total Solids (g/m <sup>2</sup> /month)	2.5	4.1	1.3	5.1	2.7	3.3	3.4	6.9	3.4	4.7	2.2	5.3	1.7	2.9	1.4	6.3	1.5	1.8
Total Solids (mg)	52	66	22	89	56	52	60	121	71	76	37	94	35	46	26	111	32	28
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0267	0.0200	0.0067	0.0267	0.0200	0.0267	0.0400	0.0667	0.0500	0.0533	0.0200	0.0533	0.0100	0.0200	0.0200	0.0567	0.0167	0.0133

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	CDG5		CDG6			
	01-12-2020	31-12-2020	06-10-2020	02-11-2020	02-12-2020	31-12-2020
<b>Depositional Dust</b>						
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.4	1.1	0.2	0.2	0.1	0.7
Ash Content (mg)	6	19	5	4	2	12
Combustible Matter (g/m <sup>2</sup> /month)	0.1	0.1	<0.1	0.1	0.1	0.1
Combustible Matter (mg)	2	3	<1	<1	2	3
Calculated Rainfall (mm)	4	121	17	29	3	88
Volume	73	2140	296	510	47	1550
Total Soluble Matter (g/m <sup>2</sup> /month)	2.7	5.3	1.1	0.4	1.4	4.8
Total Soluble Matter (mg)	47	94	23	6	25	86
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.5	1.2	0.2	0.3	0.2	0.8
Total Insoluble Matter (mg)	8	22	5	4	4	15
Total Solids (g/m <sup>2</sup> /month)	3.2	6.5	1.3	0.7	1.6	5.6
Total Solids (mg)	55	116	28	10	29	101
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0167	0.0400	0.0067	0.0100	0.0067	0.0267