

Mittagong Sands Pty Ltd

Jan-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.7	19.9	7.2
Combustible Matter	g/m ²	0.1	8.7	3.0

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/01/2021	Ash Content	g/m ²	19.9
	Combustible Matter	g/m ²	8.7
	TOTAL	g/m ²	28.6

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2021	Ash Content	g/m ²	0.7
	Combustible Matter	g/m ²	0.3
	TOTAL	g/m ²	1.0

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2021	Ash Content	g/m ²	1.1
	Combustible Matter	g/m ²	0.1
	TOTAL	g/m ²	1.2

Mittagong Sands Pty Ltd

Feb-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	1.10	14.80	5.67
Combustible Matter	g/m ²	0.30	8.30	3.03

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
28/02/2021	Ash Content	g/m ²	14.8
	Combustible Matter	g/m ²	8.3
	TOTAL	g/m ²	23.1

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
28/02/2021	Ash Content	g/m ²	1.1
	Combustible Matter	g/m ²	0.5
	TOTAL	g/m ²	1.6

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
28/02/2021	Ash Content	g/m ²	1.1
	Combustible Matter	g/m ²	0.3
	TOTAL	g/m ²	1.4

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Mar-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	1.3	27.2	10.1
Combustible Matter	g/m ²	0.4	7.8	3.0

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/03/2021	Ash Content	g/m ²	27.2
	Combustible Matter	g/m ²	7.8
	TOTAL	g/m ²	35.0

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2021	Ash Content	g/m ²	1.3
	Combustible Matter	g/m ²	0.9
	TOTAL	g/m ²	2.2

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2021	Ash Content	g/m ²	1.8
	Combustible Matter	g/m ²	0.4
	TOTAL	g/m ²	2.2

Mittagong Sands Pty Ltd

Apr-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.10	31.80	11.47
Combustible Matter	g/m ²	0.20	1.90	0.80

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/04/2021	Ash Content	g/m ²	31.8
	Combustible Matter	g/m ²	1.9
	TOTAL	g/m ²	33.7

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2021	Ash Content	g/m ²	0.1
	Combustible Matter	g/m ²	0.2
	TOTAL	g/m ²	0.3

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2021	Ash Content	g/m ²	2.5
	Combustible Matter	g/m ²	0.3
	TOTAL	g/m ²	2.8

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Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

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May-21

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.50	10.60	4.30
Combustible Matter	g/m ²	0.20	2.10	0.83

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/05/2021	Ash Content	g/m ²	10.60
	Combustible Matter	g/m ²	2.10
	TOTAL	g/m ²	12.7

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2021	Ash Content	g/m ²	0.50
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	0.7

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2021	Ash Content	g/m ²	1.80
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	2.0

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Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

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Jun-21

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	1.70	17.00	6.87
Combustable Matter	g/m ²	0.40	2.10	1.17

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/06/2021	Ash Content	g/m ²	17.00
	Combustible Matter	g/m ²	2.10
	TOTAL	g/m ²	19.10

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2021	Ash Content	g/m ²	1.70
	Combustible Matter	g/m ²	1.00
	TOTAL	g/m ²	2.70

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2021	Ash Content	g/m ²	1.90
	Combustible Matter	g/m ²	0.40
	TOTAL	g/m ²	2.30

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Jul-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	1.00	19.10	7.10
Combustable Matter	g/m ²	0.60	2.50	1.47

Individual Results:

Monitoring Point 1:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2021	Ash Content	g/m ²	19.10
	Combustible Matter	g/m ²	2.50
	TOTAL	g/m ²	21.60

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2021	Ash Content	g/m ²	1.20
	Combustible Matter	g/m ²	1.30
	TOTAL	g/m ²	2.50

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2021	Ash Content	g/m ²	1.00
	Combustible Matter	g/m ²	0.60
	TOTAL	g/m ²	1.60

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Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

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Aug-21

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.60	21.40	7.53
Combustible Matter	g/m ²	0.20	3.70	1.37

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/08/2021	Ash Content	g/m ²	21.40
	Combustible Matter	g/m ²	3.70
	TOTAL	g/m ²	25.10

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2021	Ash Content	g/m ²	0.60
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	0.80

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2021	Ash Content	g/m ²	0.60
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	0.80

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Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

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Sep-21

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.60	6.30	2.93
Combustable Matter	g/m ²	0.20	0.50	0.37

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/09/2021	Ash Content	g/m ²	6.30
	Combustible Matter	g/m ²	0.40
	TOTAL	g/m ²	6.70

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2021	Ash Content	g/m ²	0.60
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	0.80

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2021	Ash Content	g/m ²	1.90
	Combustible Matter	g/m ²	0.50
	TOTAL	g/m ²	2.40

Mittagong Sands Pty Ltd

Oct-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	0.80	11.30	5.73
Combustable Matter	g/m ²	0.40	4.70	2.83

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/10/2021	Ash Content	g/m ²	11.30
	Combustible Matter	g/m ²	3.40
	TOTAL	g/m ²	14.70

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2021	Ash Content	g/m ²	5.10
	Combustible Matter	g/m ²	4.70
	TOTAL	g/m ²	9.80

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2021	Ash Content	g/m ²	0.80
	Combustible Matter	g/m ²	0.40
	TOTAL	g/m ²	1.20

Mittagong Sands Pty Ltd

Nov-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

- Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.
- Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	2.20	41.90	17.37
Combustible Matter	g/m ²	1.40	6.10	3.27

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/11/2021	Ash Content	g/m ²	41.90
	Combustible Matter	g/m ²	6.10
	TOTAL	g/m ²	48.00

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2021	Ash Content	g/m ²	2.20
	Combustible Matter	g/m ²	1.40
	TOTAL	g/m ²	3.60

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2021	Ash Content	g/m ²	8.00
	Combustible Matter	g/m ²	2.30
	TOTAL	g/m ²	10.30

Mittagong Sands Pty Ltd

Dec-21

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m ²	2.00	4.40	2.97
Combustable Matter	g/m ²	0.60	4.10	2.07

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/12/2021	Ash Content	g/m ²	4.40
	Combustible Matter	g/m ²	4.10
	TOTAL	g/m ²	8.50

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/12/2021	Ash Content	g/m ²	2.00
	Combustible Matter	g/m ²	1.50
	TOTAL	g/m ²	3.50

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/12/2021	Ash Content	g/m ²	2.50
	Combustible Matter	g/m ²	0.60
	TOTAL	g/m ²	3.10