

Mittagong Sands Pty Ltd

Jan-18

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	1.1	4.5	3.3
Combustible Matter	g/m ²	0.4	5.4	2.1

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/01/2018	Ash Content	g/m ²	4.2
	Combustible Matter	g/m ²	0.6
	TOTAL	g/m ²	4.8

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2018	Ash Content	g/m ²	1.1
	Combustible Matter	g/m ²	0.4
	TOTAL	g/m ²	1.5

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2018	Ash Content	g/m ²	4.5
	Combustible Matter	g/m ²	5.4
	TOTAL	g/m ²	9.9

Mittagong Sands Pty Ltd

Feb-18

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	1.60	17.00	7.17
Combustible Matter	g/m ²	0.70	0.90	0.83

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
28/02/2018	Ash Content	g/m ²	17.0
	Combustible Matter	g/m ²	0.9
	TOTAL	g/m ²	17.9

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
28/02/2018	Ash Content	g/m ²	1.6
	Combustible Matter	g/m ²	0.9
	TOTAL	g/m ²	2.5

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
28/02/2018	Ash Content	g/m ²	2.9
	Combustible Matter	g/m ²	0.7
	TOTAL	g/m ²	3.6

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Mar-18

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	1.5	2.5	2.0
Combustible Matter	g/m ²	1.9	2.8	2.4

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
Damaged	Ash Content	g/m ²	
	Combustible Matter	g/m ²	
	TOTAL	g/m ²	0.0

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2018	Ash Content	g/m ²	1.5
	Combustible Matter	g/m ²	1.9
	TOTAL	g/m ²	3.4

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2018	Ash Content	g/m ²	2.5
	Combustible Matter	g/m ²	2.8
	TOTAL	g/m ²	5.3

Mittagong Sands Pty Ltd

Apr-18

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	2.20	2.90	2.57
Combustible Matter	g/m ²	0.70	4.50	2.23

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/04/2018	Ash Content	g/m ²	2.9
	Combustible Matter	g/m ²	0.7
	TOTAL	g/m ²	3.6

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2018	Ash Content	g/m ²	2.2
	Combustible Matter	g/m ²	1.5
	TOTAL	g/m ²	3.7

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2018	Ash Content	g/m ²	2.6
	Combustible Matter	g/m ²	4.5
	TOTAL	g/m ²	7.1

Mittagong Sands Pty Ltd

May-18

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	2.70	3.10	2.90
Combustible Matter	g/m ²	0.30	0.80	0.57

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/05/2018	Ash Content	g/m ²	3.10
	Combustible Matter	g/m ²	0.30
	TOTAL	g/m ²	3.4

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2018	Ash Content	g/m ²	2.90
	Combustible Matter	g/m ²	0.80
	TOTAL	g/m ²	3.7

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2018	Ash Content	g/m ²	2.70
	Combustible Matter	g/m ²	0.60
	TOTAL	g/m ²	3.3

Mittagong Sands Pty Ltd

Jun-18

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	1.10	2.50	1.57
Combustible Matter	g/m ²	0.10	0.80	0.50

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/06/2018	Ash Content	g/m ²	1.10
	Combustible Matter	g/m ²	0.10
	TOTAL	g/m ²	1.20

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2018	Ash Content	g/m ²	1.10
	Combustible Matter	g/m ²	0.60
	TOTAL	g/m ²	1.70

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2018	Ash Content	g/m ²	2.50
	Combustible Matter	g/m ²	0.80
	TOTAL	g/m ²	3.30

Mittagong Sands Pty Ltd

Jul-18

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	4.40	2.17
Combustable Matter	g/m ²	0.20	2.30	0.90

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/07/2018	Ash Content	g/m ²	1.00
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	1.20

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2018	Ash Content	g/m ²	1.10
	Combustible Matter	g/m ²	0.20
	TOTAL	g/m ²	1.30

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2018	Ash Content	g/m ²	4.40
	Combustible Matter	g/m ²	2.30
	TOTAL	g/m ²	6.70

Mittagong Sands Pty Ltd

Aug-18

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	3.80	13.50	7.13
Combustible Matter	g/m ²	1.00	1.20	1.07

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/08/2018	Ash Content	g/m ²	13.50
	Combustible Matter	g/m ²	1.20
	TOTAL	g/m ²	14.70

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2018	Ash Content	g/m ²	4.10
	Combustible Matter	g/m ²	1.00
	TOTAL	g/m ²	5.10

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2018	Ash Content	g/m ²	3.80
	Combustible Matter	g/m ²	1.00
	TOTAL	g/m ²	4.80

Mittagong Sands Pty Ltd

Sep-18

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	9.50	5.07
Combustible Matter	g/m ²	0.50	1.80	1.17

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/09/2018	Ash Content	g/m ²	3.70
	Combustible Matter	g/m ²	0.50
	TOTAL	g/m ²	4.20

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2018	Ash Content	g/m ²	2.00
	Combustible Matter	g/m ²	1.20
	TOTAL	g/m ²	3.20

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2018	Ash Content	g/m ²	9.50
	Combustible Matter	g/m ²	1.80
	TOTAL	g/m ²	11.30

Mittagong Sands Pty Ltd

Oct-18

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	10.80	4.97
Combustible Matter	g/m ²	0.30	1.10	0.77

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/10/2018	Ash Content	g/m ²	10.80
	Combustible Matter	g/m ²	1.10
	TOTAL	g/m ²	11.90

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2018	Ash Content	g/m ²	1.00
	Combustible Matter	g/m ²	0.30
	TOTAL	g/m ²	1.30

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2018	Ash Content	g/m ²	3.10
	Combustible Matter	g/m ²	0.90
	TOTAL	g/m ²	4.00

Mittagong Sands Pty Ltd

Nov-18

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	4.40	19.00	12.30
Combustible Matter	g/m ²	1.00	3.70	2.60

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/11/2018	Ash Content	g/m ²	19.00
	Combustible Matter	g/m ²	3.70
	TOTAL	g/m ²	22.70

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2018	Ash Content	g/m ²	4.40
	Combustible Matter	g/m ²	1.00
	TOTAL	g/m ²	5.40

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2018	Ash Content	g/m ²	13.50
	Combustible Matter	g/m ²	3.10
	TOTAL	g/m ²	16.60

Mittagong Sands Pty Ltd

Dec-18

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	2.80	17.10	7.80
Combustible Matter	g/m ²	0.60	8.20	3.60

Individual Results:

Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/12/2018	Ash Content	g/m ²	3.50
	Combustible Matter	g/m ²	2.00
	TOTAL	g/m ²	5.50

Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/12/2018	Ash Content	g/m ²	2.80
	Combustible Matter	g/m ²	0.60
	TOTAL	g/m ²	3.40

Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/12/2018	Ash Content	g/m ²	17.10
	Combustible Matter	g/m ²	8.20
	TOTAL	g/m ²	25.30