

DustScan

Dust Monitoring and Dust Consultancy Services

DS100 - Sticky Pad Directional Dust Gauge

The DustScan DS100 is a passive directional dust gauge. It monitors fugitive dust from 360° around the sampling head. The gauges are simple to install and can be used on a wide range of sites. They do not need a power supply and operate continuously in all weather conditions.

The gauges are inexpensive and unobtrusive and are ideal for:

- Site boundary monitoring
- Locating fugitive dust pathways
- Assessing the effectiveness of dust suppression measures
- Determining dust nuisance
- Baseline nuisance dust investigations

The DS100 is used at quarries, landfills, demolition and construction sites, opencast coal mines, waste transfer and recycling plants, remediation sites and many other works.

The DS100 has a directional sensitivity of 15° and results are reported as AAC% (Absolute Area Coverage) and EAC% (Effective Area Coverage). Please refer to our guidance note number 3 for directional nuisance dust criteria.

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Analysis and Reporting

A standard report is issued for each directional sample processed. This can be in paper or electronic formats. The standard report provides a statement of overall AAC% (Actual Area Coverage) and EAC% (Effective Area Coverage), directional data for each 15° segment of the 'sticky pad' and directional 'dust rose' plots for each of these measurements. AAC represents the dust coverage of a surface irrespective of colour. It is widely used to identify dust sources. EAC is a measure of dust soiling, or the loss of reflectance of a surface. It takes into account the colour of dust and therefore is used to assess the nuisance potential of a dust source. Guidance note number 3 gives more information.

A 'dust rose' is similar to a wind rose, in that the length of the bars represents the magnitude of the dusting. In the example on the right, most of the dust came from the north-west, so it was heading in a south-easterly direction. Dust roses can be used to help predict where dust may travel away from a site, or to see if dust is arriving at a site from specific sources.

Dust roses can also be superimposed onto site plans and provide information on environmental controls.



DustScan
FACTUAL DUST MONITORING REPORT

Client: [Redacted] Site: [Redacted]
Project Ref: [Redacted] (to include site reference on reporting sheet)
Start Date: 21 October 2010 Date Rec: 27 October 2010
Observer: [Redacted] Plot Ref: 0011

STATEMENTS AND RESULTS

| % Effective Area of Coverage (period) | | % Effective Area of Coverage (day) | | % Effective Area of Coverage (site) | |
|---------------------------------------|-------------|------------------------------------|-------|-------------------------------------|-------|
| Report | Period | Start | End | Start | End |
| 0001-0010 | 01.00-01.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0010-0020 | 01.15-01.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0020-0030 | 01.30-01.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0030-0040 | 01.45-02.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0040-0050 | 02.00-02.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0050-0100 | 02.15-02.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0100-0110 | 02.30-02.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0110-0120 | 02.45-03.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0120-0130 | 03.00-03.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0130-0140 | 03.15-03.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0140-0150 | 03.30-03.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0150-0200 | 03.45-04.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0200-0210 | 04.00-04.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0210-0220 | 04.15-04.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0220-0230 | 04.30-04.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0230-0240 | 04.45-05.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0240-0250 | 05.00-05.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0250-0300 | 05.15-05.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0300-0310 | 05.30-05.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0310-0320 | 05.45-06.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0320-0330 | 06.00-06.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0330-0340 | 06.15-06.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0340-0350 | 06.30-06.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0350-0400 | 06.45-07.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0400-0410 | 07.00-07.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0410-0420 | 07.15-07.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0420-0430 | 07.30-07.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0430-0440 | 07.45-08.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0440-0450 | 08.00-08.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0450-0500 | 08.15-08.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0500-0510 | 08.30-08.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0510-0520 | 08.45-09.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0520-0530 | 09.00-09.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0530-0540 | 09.15-09.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0540-0550 | 09.30-09.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0550-0600 | 09.45-10.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0600-0610 | 10.00-10.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0610-0620 | 10.15-10.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0620-0630 | 10.30-10.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0630-0640 | 10.45-11.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0640-0650 | 11.00-11.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0650-0700 | 11.15-11.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0700-0710 | 11.30-11.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0710-0720 | 11.45-12.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0720-0730 | 12.00-12.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0730-0740 | 12.15-12.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0740-0750 | 12.30-12.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0750-0800 | 12.45-13.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0800-0810 | 13.00-13.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0810-0820 | 13.15-13.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0820-0830 | 13.30-13.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0830-0840 | 13.45-14.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0840-0850 | 14.00-14.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0850-0900 | 14.15-14.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0900-0910 | 14.30-14.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0910-0920 | 14.45-15.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0920-0930 | 15.00-15.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0930-0940 | 15.15-15.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0940-0950 | 15.30-15.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 0950-1000 | 15.45-16.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1000-1010 | 16.00-16.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1010-1020 | 16.15-16.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1020-1030 | 16.30-16.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1030-1040 | 16.45-17.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1040-1050 | 17.00-17.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1050-1100 | 17.15-17.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1100-1110 | 17.30-17.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1110-1120 | 17.45-18.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1120-1130 | 18.00-18.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1130-1140 | 18.15-18.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1140-1150 | 18.30-18.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1150-1200 | 18.45-19.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1200-1210 | 19.00-19.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1210-1220 | 19.15-19.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1220-1230 | 19.30-19.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1230-1240 | 19.45-20.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1240-1250 | 20.00-20.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1250-1300 | 20.15-20.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1300-1310 | 20.30-20.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1310-1320 | 20.45-21.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1320-1330 | 21.00-21.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1330-1340 | 21.15-21.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1340-1350 | 21.30-21.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1350-1400 | 21.45-22.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1400-1410 | 22.00-22.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1410-1420 | 22.15-22.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1420-1430 | 22.30-22.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1430-1440 | 22.45-23.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1440-1450 | 23.00-23.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1450-1500 | 23.15-23.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1500-1510 | 23.30-23.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1510-1520 | 23.45-24.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1520-1530 | 24.00-24.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1530-1540 | 24.15-24.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1540-1550 | 24.30-24.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1550-1600 | 24.45-25.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1600-1610 | 25.00-25.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1610-1620 | 25.15-25.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1620-1630 | 25.30-25.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1630-1640 | 25.45-26.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1640-1650 | 26.00-26.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1650-1700 | 26.15-26.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1700-1710 | 26.30-26.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1710-1720 | 26.45-27.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1720-1730 | 27.00-27.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1730-1740 | 27.15-27.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1740-1750 | 27.30-27.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1750-1800 | 27.45-28.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1800-1810 | 28.00-28.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1810-1820 | 28.15-28.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1820-1830 | 28.30-28.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1830-1840 | 28.45-29.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1840-1850 | 29.00-29.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1850-1900 | 29.15-29.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1900-1910 | 29.30-29.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1910-1920 | 29.45-30.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1920-1930 | 30.00-30.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1930-1940 | 30.15-30.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1940-1950 | 30.30-30.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 1950-2000 | 30.45-31.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2000-2010 | 31.00-31.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2010-2020 | 31.15-31.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2020-2030 | 31.30-31.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2030-2040 | 31.45-32.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2040-2050 | 32.00-32.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2050-2100 | 32.15-32.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2100-2110 | 32.30-32.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2110-2120 | 32.45-33.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2120-2130 | 33.00-33.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2130-2140 | 33.15-33.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2140-2150 | 33.30-33.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2150-2200 | 33.45-34.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2200-2210 | 34.00-34.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2210-2220 | 34.15-34.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2220-2230 | 34.30-34.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2230-2240 | 34.45-35.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2240-2250 | 35.00-35.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2250-2300 | 35.15-35.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2300-2310 | 35.30-35.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2310-2320 | 35.45-36.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2320-2330 | 36.00-36.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2330-2340 | 36.15-36.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2340-2350 | 36.30-36.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2350-2400 | 36.45-37.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2400-2410 | 37.00-37.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2410-2420 | 37.15-37.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2420-2430 | 37.30-37.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2430-2440 | 37.45-38.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2440-2450 | 38.00-38.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2450-2500 | 38.15-38.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2500-2510 | 38.30-38.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2510-2520 | 38.45-39.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2520-2530 | 39.00-39.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2530-2540 | 39.15-39.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2540-2550 | 39.30-39.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2550-2600 | 39.45-40.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2600-2610 | 40.00-40.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2610-2620 | 40.15-40.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2620-2630 | 40.30-40.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2630-2640 | 40.45-41.00 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2640-2650 | 41.00-41.15 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2650-2700 | 41.15-41.30 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2700-2710 | 41.30-41.45 | 14.50% | 0.00% | 0.00% | 0.00% |
| 2710-2720 | 41.45-41.60 | 14.50%</ | | | |