

## Study of Ambient Air Quality at Cubley

### Summary

This summary provides the preliminary results from the study of ambient air quality in the vicinity of Cubley, Derbyshire. The Environment Agency's Ambient Air Monitoring Team (in National Operational Services) carried out the study on behalf of the Midlands region, between 30 November 2010 and 31 January 2011 (62 days).

The Ambient Air Monitoring Team deployed its mobile monitoring facility (MMF) at the house neighbouring Stoneleigh Cottage Poultry Farm, Cubley during the study period.

Tables 1.1 and 1.2 summarise the extent of likely compliance/exceedance for each of the species with respect to the AQS objectives. A projected compliance ratio  $\leq 1$  indicates compliance, whilst a value  $> 1$  indicates non-compliance.

**Table 1.1 Impact summary for short-term air quality objectives.**

Pollutant	Averaging Time	AQS	Standard ( $\mu\text{g}/\text{m}^3$ )	Maximum Concentration ( $\mu\text{g}/\text{m}^3$ )	Permitted Exceedance (A)	Measured Exceedance* (B)	Projected Compliance Ratio (B/A)
PM <sub>10</sub> ♦	24-hr (midnight-midnight)	2000	50	41.8	35/year	0/year	0.00

♦ Calculated using the King's College Volatile Correction Model (VCM)

**Table 1.2 Impact summary for long-term air quality objectives.**

Pollutant	Averaging Time	AQS	Standard (A) ( $\mu\text{g}/\text{m}^3$ )	Measurement* (B) ( $\mu\text{g}/\text{m}^3$ )	Projected Compliance Ratio (B/A)
PM <sub>10</sub> ♦	Year	2000	40	19.3	0.48

♦ Calculated using the King's College Volatile Correction Model (VCM)

Comparing the collected data from the monitoring at MMF 5 with the AQS objectives showed that the monitoring location was subject to concentrations of PM<sub>10</sub> that were likely to meet their respective AQS objectives.

### References

1. Department for Environment, Food and Rural Affairs (July 2007), *The Air Quality Strategy for England, Scotland, Wales and Northern Ireland*, (HMSO)