

**REPORT TO THE CRICKLADE AND WOOTTON BASSETT  
AREA (2) COMMITTEE**

Report No.8

<b>Date of Meeting</b>	<b>17<sup>th</sup> October 2007</b>
<b>Title of Report</b>	<b>Air Quality Monitoring in Wootton Bassett</b>
Link to Corporate Priorities	To safeguard and enhance the assets and resources of North Wiltshire and the wider community.
Public Report	<b>Yes</b>

**Summary of Report**

To report on air quality monitoring in High Street, Wootton Bassett, in September/October 2006 and January/February 2007.

**Officer Recommendations**

It is recommend that the Committee note the findings of the report.

Other than those implications agreed with the relevant Officers and referred to below, there are no other implications associated with this report.

Financial Implications	Legal Implications	Community & Environmental Implications	Human Resources Implications	Equality & Diversity Implications
<b>YES</b>	<b>NONE</b>	<b>YES</b>	<b>NONE</b>	<b>NONE</b>

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## 1. Introduction

- 1.1 To report on air quality monitoring in High Street, Wootton Bassett, in September/October 2006 and January/February 2007.

## 2. Options and Options Appraisal

- 2.1 It is recommend that the Committee note the findings of the report.

## 3. Background Information

- 3.1 The High Street in Wootton Bassett is one of the traffic hotspots that has previously been highlighted in air quality Review and Assessment reports submitted to DEFRA.
- 3.2 It is an area of slow moving traffic and whilst we continue to monitor using a passive diffusion tube for Nitrogen Dioxide (NO<sub>2</sub>), it was decided to monitor continuously for Particulates (PM<sub>10</sub>) and NO<sub>2</sub> for two six week periods in September/October 2006 and January/February 2007, in order to take account of seasonal variations of the pollutants.
- 3.3 The monitoring site for the six weeks commencing in September 2006 was outside of 132 High Street, Wootton Bassett. The January/February 2007 monitoring location was outside of 139 High Street, Wootton Bassett, due to renovation works at 132 High Street, Wootton Bassett.
- 3.4 It is common practice for data collected on this basis to be compared with data collated at other monitoring sites in the region over the same period. It is then possible to calculate an Annual Mean Equivalent from the data for comparison against Statutory Objectives set by DEFRA.
- 3.5 The monitoring produced the data below:

### **2006 Annual Mean Equivalent Nitrogen Dioxide and PM<sub>10</sub> Concentrations at the High Street, Wootton Bassett Sites for each Monitoring Period**

	NO <sub>2</sub>	PM <sub>10</sub>	
	Annual Mean Equivalent (ug/m <sup>3</sup> )	Annual Mean Equivalent (ug/m <sup>3</sup> )	No. of 24-hour >50 ug/m <sup>3</sup>
Sept – Oct 2006	37.7	23.9	10
Jan – Feb 2007	30.1	25.9	15
<b>Statutory Objective</b>	<b>40</b>	<b>40</b>	<b>35</b>

- 3.6 None of the statutory objectives for Nitrogen Dioxide or PM<sub>10</sub> are expected to be exceeded at the High Street, Wootton Bassett. The statutory PM<sub>10</sub> objectives are likely to be achieved by a very substantial margin. The annual mean equivalent PM<sub>10</sub> concentrations calculated for each of the monitoring periods at the two sites in the High Street are similar in value. However, the annual mean equivalent nitrogen dioxide concentrations differ by over 7 ug/m<sup>3</sup>. This may reflect the differences between the two locations but may also reflect the limitations of estimating annual means at roadside sites from a six week period.

The technical report to explain the measurements and objectives in more detail is attached in Appendix 1.

## **Implications**

### Financial Implications

The cost of carrying out such detailed monitoring is approximately £5000 and is contained within the Environmental Health budget.

### Community and Environment Implications

Measurements were obtained in accordance with recommended protocol in order to assess worst case public exposure. This demonstrated that the air quality is “good” when concentrations were compared to Government objectives.

## **Risk Analysis**

No risks are identified in relation to this report.

<b>Appendices:</b>	<ul style="list-style-type: none"><li>• <b>Appendix 1 – Air Quality Consultants Report: Air Quality Monitoring at the High Street, Wootton Bassett September 2006 – February 2007.</b></li></ul>
<b>Background Documents Used in the Preparation of this Report:</b>	

## **Previous Decisions Connected with this Report**

<b>Report</b>	<b>Committee &amp; Date</b>	<b>Minute Reference</b>