Air Quality
Updating and Screening Assessment 2015

In fulfillment of Part IV of the Environment Act 1995
Local Air Quality Management
<table>
<thead>
<tr>
<th>Local Authority Officer</th>
<th>Victoria Clarke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Regulatory Services</td>
</tr>
<tr>
<td>Address</td>
<td>Parkside, Station Approach Burton Street, Melton Mowbray LE13 1GH</td>
</tr>
<tr>
<td>Telephone</td>
<td>01664 502408</td>
</tr>
<tr>
<td>e-mail</td>
<td><a href="mailto:vclarke@melton.gov.uk">vclarke@melton.gov.uk</a></td>
</tr>
<tr>
<td>Report Reference number</td>
<td>USA6/MBC/15</td>
</tr>
<tr>
<td>Date</td>
<td>20/08/2015</td>
</tr>
</tbody>
</table>
Executive Summary

The only pollutant which has been deemed to be of significance in the Borough of Melton throughout the air quality review and assessment process since the year 2000 is **nitrogen dioxide**.

As the result of modelling in 2001 an air quality management area (AQMA) was declared. However the monitoring of actual levels since that date has demonstrated that the model had over predicted.

In 2005 the AQMA was revoked.

Nitrogen dioxide continues to be monitored by the use of diffusion tubes and the results continue to be within the annual mean concentrations. None of the pollutants require a detailed assessment.
Table of contents

1 Introduction .................................................................................................................. 6
  1.1 Description of Local Authority Area ........................................................................ 6
  1.2 Purpose of Report ................................................................................................... 7
  1.3 Air Quality Objectives ............................................................................................ 8
  1.4 Summary of Previous Review and Assessments ..................................................... 10

2 New Monitoring Data .................................................................................................. 12
  2.1 Summary of Monitoring Undertaken ...................................................................... 12
  2.1.1 Automatic Monitoring Sites .............................................................................. 12
  2.1.2 Non-Automatic Monitoring Sites ...................................................................... 12
  2.2 Comparison of Monitoring Results with AQ Objectives ........................................ 16
    2.2.1 Nitrogen Dioxide ............................................................................................... 16
    2.2.2 PM$_{10}$ ........................................................................................................... 23
    2.2.3 Sulphur Dioxide ............................................................................................... 23
    2.2.4 Benzene ........................................................................................................... 23
    2.2.5 Other pollutants monitored ............................................................................. 24
    2.2.6 Summary of Compliance with AQS Objectives .............................................. 26

3 Road Traffic Sources .................................................................................................. 27
  3.1 Narrow Congested Streets with Residential Properties Close to the Kerb ................ 27
  3.2 Busy Streets Where People May Spend 1-hour or More Close to Traffic ................ 27
  3.3 Roads with a High Flow of Buses and/or HGVs. .................................................... 27
  3.4 Junctions ................................................................................................................ 28
  3.5 New Roads Constructed or Proposed Since the Last Round of Review and Assessment 28
  3.6 Roads with Significantly Changed Traffic Flows .................................................... 28
  3.7 Bus and Coach Stations ......................................................................................... 28

4 Other Transport Sources ............................................................................................. 29
  4.1 Airports .................................................................................................................. 29
  4.2 Railways (Diesel and Steam Trains) ......................................................................... 29
    4.2.1 Stationary Trains ............................................................................................. 29
    4.2.2 Moving Trains ................................................................................................. 29
  4.3 Ports (Shipping) ...................................................................................................... 29

5 Industrial Sources ....................................................................................................... 30
  5.1 Industrial Installations ............................................................................................ 30
    5.1.1 New or Proposed Installations with an Air Quality Assessment ....................... 30
    5.1.2 Existing Installations ....................................................................................... 30
    5.1.3 New or Significantly Changed Installations with No Previous Air Quality Assessment... 30
  5.2 Major Fuel (Petrol) Storage Depots ...................................................................... 31
  5.3 Petrol Stations ......................................................................................................... 31
Melton Borough Council - England

5.4 Poultry Farms........................................................................................................... 31

6 Commercial and Domestic Sources ............................................................................. 32
   6.1 Biomass Combustion – Individual Installations ...................................................... 32
   6.2 Biomass Combustion – Combined Impacts............................................................... 32
   6.3 Domestic Solid-Fuel Burning ................................................................................... 32

7 Fugitive or Uncontrolled Sources ............................................................................... 33

8 Conclusions and Proposed Actions ............................................................................. 34
   8.1 Conclusions from New Monitoring Data ................................................................. 34
   8.2 Conclusions from Assessment of Sources ............................................................... 34
   8.3 Proposed Actions .................................................................................................... 35

9 References .................................................................................................................. 36

List of Tables
   Table 1 Air Quality Objectives included in Regulations for the purpose of Local Air Quality
             Management in England
   Table 2.1 Details of Non-Automatic Monitoring Sites
   Table 2.2 Results of Nitrogen Dioxide Diffusion Tubes for 2014
   Table 2.3 Results of Nitrogen Dioxide Diffusion Tubes 2010-2013

List of Figures
   Figure 1.1: Location of Melton Borough Council
   Figure 1.2: Former Air Quality Management Area in the Borough of Melton
   Figure 2.1: Map of Non-Automatic Monitoring Sites in Melton Town
   Figure 2.2: Map of Non-Automatic Monitoring Sites in Borough of Melton
   Figure 2.3: Nitrogen Dioxide monitoring result trends in the town of Melton Mowbray since
               2003
   Figure 2.4: Nitrogen Dioxide monitoring result trends in the rural Borough of Melton since
               2003

Appendices
   Appendix 1 Full dataset of monthly average diffusion tube concentrations for 2014
   Appendix 2 Quality Assurance/Quality Control for Diffusion Tubes
   Appendix 3 Diffusion tube and receptor location data
   Appendix 4 Environment Agency Permits
1 Introduction

1.1 Description of Local Authority Area

Figure 1.1: Location of Melton Borough Council

GEOGRAPHIC MAKE UP OF DISTRICT

Melton is a rural district in Leicestershire with an area of approximately 48,138 hectares. The population is 50,376 of which approximately half live in the town of Melton Mowbray. Melton Mowbray is 18 miles from Nottingham, 15 miles from Leicester and approximately 20 miles from East Midlands Airport. There are more than 60 villages and 25 parish councils.

POLLUTION SOURCES

The main source of concern within the Borough of Melton is traffic.

There was a new A2 process for chemical treatment of wood at a Jeld Wen Factory on the edge of Melton Mowbray. This was previously permitted as a Part B process. One Part B process (dry cleaning) closed and there was a new application for another waste oil burner. A1 industrial processes which commenced operation or changed significantly during the period 1 January 2014 to 31 December 2014 have not had any impact on air quality.

There are eleven A1 processes to businesses permitted by the Environment Agency (see Appendix 4).
There are two A2 processes; the Saint Gobain foundry at Asfordby and the chemical treatment of wood at a Jeld Wen factory mentioned above. Neither cause any significant problems.

There are eighteen Part B processes, of which there are 4 petrol vapour recovery (PVR) and 5 waste oil burners (WOB).

**Lafarge Quarry at Brooksby.**  
The quarry commenced operation for gravel extraction and grading in October 2006. Melton Borough Council is works in liaison with our neighbour Charnwood Borough Council (CBC) as they have a quarry in their district operated by the same company. The quarry in Charnwood is larger and includes blasting and granite crushing operations.

### 1.2 Purpose of Report

This report fulfils the requirements of the Local Air Quality Management process as set out in Part IV of the Environment Act (1995), the Air Quality Strategy for England, Scotland, Wales and Northern Ireland 2007 and the relevant Policy and Technical Guidance documents. The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved. Where exceedences are considered likely, the local authority must then declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives.

The objective of this Updating and Screening Assessment is to identify any matters that have changed which may lead to risk of an air quality objective being exceeded. A checklist approach and screening tools are used to identify significant new sources or changes and whether there is a need for a Detailed Assessment. The USA report should provide an update of any outstanding information requested previously in Review and Assessment reports.
1.3 Air Quality Objectives

The air quality objectives applicable to LAQM in England are set out in the Air Quality (England) Regulations 2000 (SI 928), The Air Quality (England) (Amendment) Regulations 2002 (SI 3043), and are shown in Table 1.1. This table shows the objectives in units of micrograms per cubic metre $\mu g/m^3$ (milligrams per cubic metre, mg/m$^3$ for carbon monoxide) with the number of exceedences in each year that are permitted (where applicable).

Table 1 Air Quality Objectives included in Regulations for the purpose of LAQM in England

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Air Quality Objective</th>
<th>Date to be achieved by</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td>Measured as</td>
</tr>
<tr>
<td>Benzene</td>
<td>16.25 $\mu g/m^3$</td>
<td>Running annual mean</td>
</tr>
<tr>
<td></td>
<td>5.00 $\mu g/m^3$</td>
<td>Running annual mean</td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>2.25 $\mu g/m^3$</td>
<td>Running annual mean</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>10.0 mg/m$^3$</td>
<td>Running 8-hour mean</td>
</tr>
<tr>
<td>Lead</td>
<td>0.5 $\mu g/m^3$</td>
<td>Annual mean</td>
</tr>
<tr>
<td></td>
<td>0.25 $\mu g/m^3$</td>
<td>Annual mean</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>200 $\mu g/m^3$, not to be exceeded more than 18 times a year</td>
<td>1-hour mean</td>
</tr>
<tr>
<td></td>
<td>40 $\mu g/m^3$</td>
<td>Annual mean</td>
</tr>
<tr>
<td>Particles (PM$_{10}$) (gravimetric)</td>
<td>50 $\mu g/m^3$, not to be exceeded more than 35 times a year</td>
<td>24-hour mean</td>
</tr>
<tr>
<td></td>
<td>40 $\mu g/m^3$</td>
<td>Annual mean</td>
</tr>
<tr>
<td>Sulphur dioxide</td>
<td>350 $\mu g/m^3$, not to be exceeded more than 24 times a year</td>
<td>1-hour mean</td>
</tr>
<tr>
<td></td>
<td>125 $\mu g/m^3$, not to be exceeded more than 3 times a year</td>
<td>24-hour mean</td>
</tr>
<tr>
<td></td>
<td>266 $\mu g/m^3$, not to</td>
<td>15-minute mean</td>
</tr>
<tr>
<td></td>
<td>be exceeded more than 35 times a year</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Melton Borough Council - England
1.4 Summary of Previous Review and Assessments

Since 2000 the review of air quality has been completed to the satisfaction of DEFRA. Many of the reports can be viewed from the following link; http://www.melton.gov.uk/airquality

- 2000 – Review & Assessment
- 2001 – **AQMA declared**
- 2002 – Stage 4 Assessment
- 2003 – Updating & Screening Assessment
- 2004 – Progress Report
- 2005 – Progress Report - **revoking AQMA**
- 2006 - Updating & Screening Assessment
- 2007 - Progress Report
- 2008 - Progress Report
- 2009 - Updating & Screening Assessment
- 2010 – Progress Report
- 2011 – Progress Report
- 2012 - Updating & Screening Assessment
- 2013 – Progress Report
- 2014 – Progress Report

The only pollutant of interest to date has been NO₂. In 2001 an air quality management area (AQMA) was declared in and around the town centre (marked in mauve on Figure 2 below).
The AQMA was declared based on modelling of predicted NO$_2$ however the monitoring proved that the modelling had over predicted and the AQMA was revoked in 2005. As this report will go on to demonstrate, the NO$_2$ levels remain within the air quality objectives.
2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

Melton Borough Council does not have any automatic monitoring sites

2.1.2 Non-Automatic Monitoring Sites

The following figures provide details of the monitoring locations within the Borough.

Figure 2.1 Map of Non-Automatic Monitoring Sites In Melton Town Centre
Figure 2.2 Map of Non-Automatic Monitoring Sites in the Borough of Melton

(red indicate urban background sites and green indicate rural monitoring sites)
2.1.3 Quality Assurance/Quality Control for Diffusion Tubes

- The laboratory supplying and analysing the tubes is ESG (Environmental Scientifics Group).
- Between January 2009 and December 2010, ESG used 20% (triethanolamine) TEA in water preparation method to fit in with the DEFRA harmonised methods. Since January 2010 ESG have used 50% (triethanolamine) TEA in acetone preparation method to fit in with the DEFRA harmonised methods.
- There has not been a co-location study.
- The bias adjustment factor being applied to the annual means from the diffusion tubes is 0.81. This came from the Review and Assessment website: [http://laqm.defra.gov.uk/documents/Diffusion_Tube_Bias_Factors-v03_15-Final.xls](http://laqm.defra.gov.uk/documents/Diffusion_Tube_Bias_Factors-v03_15-Final.xls) or [http://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html](http://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html)
  Spreadsheet version 03/15

- In the WASP intercomparison scheme for comparing spiked nitrogen dioxide diffusion tubes, ESG is currently ranked as Category: Satisfactory Laboratory.
## Table 2.1 Details of Non-Automatic Monitoring Sites

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Site Type</th>
<th>X OS Grid Ref</th>
<th>Y OS Grid Ref</th>
<th>Pollutants Monitored</th>
<th>In AQMA?</th>
<th>Is monitoring collocated with a Continuous Analyser (Y/N)</th>
<th>Relevant Exposure? (Y/N with distance (m) to relevant exposure)</th>
<th>Distance to kerb of nearest road (N/A if not applicable)</th>
<th>Does this location represent worst-case exposure?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wilton Road</td>
<td>Urban background</td>
<td>475029</td>
<td>319164</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>15M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Leicester Road</td>
<td>Urban background</td>
<td>474290</td>
<td>318404</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>50M</td>
<td>1.5M</td>
<td>Y</td>
</tr>
<tr>
<td>Thorpe End</td>
<td>Urban background</td>
<td>475637</td>
<td>319167</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>1M</td>
<td>1.5M</td>
<td>Y</td>
</tr>
<tr>
<td>Thorpe Road</td>
<td>Urban background</td>
<td>475843</td>
<td>319401</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>3M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Norman Way</td>
<td>Urban background</td>
<td>475583</td>
<td>319310</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>14M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Burton Road</td>
<td>Urban background</td>
<td>475782</td>
<td>317922</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>19M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Nottingham Road</td>
<td>Urban background</td>
<td>474621</td>
<td>320330</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>18M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Dalby Road</td>
<td>Urban background</td>
<td>475138</td>
<td>318299</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>20M</td>
<td>1.5M</td>
<td>Y</td>
</tr>
<tr>
<td>Melton Road, Asfordby Hill</td>
<td>Rural</td>
<td>472471</td>
<td>319224</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>6M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Leicester Road, Kirby Bellars</td>
<td>Rural</td>
<td>471477</td>
<td>317669</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>25M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Main Road, Croxton Kerrial</td>
<td>Rural</td>
<td>483590</td>
<td>329125</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>11M</td>
<td>3M</td>
<td>Y</td>
</tr>
<tr>
<td>Dalby Rd/Wilton Road</td>
<td>Urban background</td>
<td>474901</td>
<td>318949</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>50M</td>
<td>2M</td>
<td>Y</td>
</tr>
<tr>
<td>Leicester Street</td>
<td>Urban background</td>
<td>475048</td>
<td>319109</td>
<td>NO₂</td>
<td>N</td>
<td>N</td>
<td>16M</td>
<td>1M</td>
<td>Y</td>
</tr>
</tbody>
</table>
2.2 Comparison of Monitoring Results with AQ Objectives

This section provides additional details of the pollutants monitored in the Borough of Melton and an assessment is made of whether a detailed assessment is required.

2.2.1 Nitrogen Dioxide

Nitrogen dioxide is monitored in the Borough using diffusion tubes. There is no automatic monitoring. The measured annual mean concentration was not greater than 40 µg/m³ at any relevant receptor adjacent to any site analysed in the Borough of Melton. The monitoring site locations are representative of relevant public exposure.

Diffusion Tube Monitoring Data

The following tables demonstrate

- the 2014 annual mean concentrations for each of the sites monitored,
- the adjusted results for the past 5 years and
- trend analysis over 12 years.
### Table 2.2 Results of Nitrogen Dioxide Diffusion Tubes in 2014

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Location</th>
<th>Site Type</th>
<th>Within AQMA?</th>
<th>Triplicate or Collocated Tube</th>
<th>Data Capture 2014 (Number of Months or %)</th>
<th>Data with less than 9 months has been annualised (Y/N)</th>
<th>Confirm if data has been distance corrected (Y/N)</th>
<th>Annual mean concentration (Bias Adjustment factor = 0.81)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wilton Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>30.0</td>
</tr>
<tr>
<td>2</td>
<td>Leicester Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>21.1</td>
</tr>
<tr>
<td>3</td>
<td>Thorpe End</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>24.9</td>
</tr>
<tr>
<td>4</td>
<td>Thorpe Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>29.4</td>
</tr>
<tr>
<td>5</td>
<td>Norman Way</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>91.6%</td>
<td>N/A</td>
<td>N</td>
<td>24.6</td>
</tr>
<tr>
<td>6</td>
<td>Burton Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>19.4</td>
</tr>
<tr>
<td>7</td>
<td>Nottingham Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>24.5</td>
</tr>
<tr>
<td>8</td>
<td>Dalby Road</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>20.5</td>
</tr>
<tr>
<td>9</td>
<td>Asfordby Hill</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>27.4</td>
</tr>
<tr>
<td>10</td>
<td>Kirby Bellars</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>19.2</td>
</tr>
<tr>
<td>11</td>
<td>Croxton Kerrial</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>18.4</td>
</tr>
<tr>
<td>12</td>
<td>Dalby Road</td>
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<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>25.3</td>
</tr>
<tr>
<td>13</td>
<td>Leicester Street</td>
<td>Roadside</td>
<td>N</td>
<td>N</td>
<td>100%</td>
<td>N/A</td>
<td>N</td>
<td>27.5</td>
</tr>
</tbody>
</table>
Table 2.3 Results of Nitrogen Dioxide Diffusion Tubes (2010 to 2013)

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site Type</th>
<th>Within AQMA?</th>
<th>Annual mean concentration (adjusted for bias) μg/m³</th>
<th>2010* (Bias Adjustment Factor = 0.84)</th>
<th>2011* (Bias Adjustment Factor = 0.84)</th>
<th>2012* (Bias Adjustment Factor = 0.79)</th>
<th>2013* (Bias Adjustment Factor = 0.8)</th>
<th>2014 Annual mean concentration (Bias Adjustment factor = 0.81)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Wilton Road</td>
<td>N</td>
<td></td>
<td>35.4</td>
<td>29.73</td>
<td>34.08</td>
<td>26.0</td>
<td>30.0</td>
</tr>
<tr>
<td>2</td>
<td>Leicester Road</td>
<td>N</td>
<td></td>
<td>28.3</td>
<td>26.38</td>
<td>29.89</td>
<td>22.6</td>
<td>21.1</td>
</tr>
<tr>
<td>3</td>
<td>Thorpe End</td>
<td>N</td>
<td></td>
<td>37.7</td>
<td>35.75</td>
<td>42.93</td>
<td>29.4</td>
<td>24.9</td>
</tr>
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<td>4</td>
<td>Thorpe Road</td>
<td>N</td>
<td></td>
<td>39.2</td>
<td>32.88</td>
<td>40.6</td>
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<td>Norman Way</td>
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<td>27.36</td>
<td>33.36</td>
<td>25.4</td>
<td>24.6</td>
</tr>
<tr>
<td>6</td>
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<td></td>
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<td>20.98</td>
<td>25.15</td>
<td>20.9</td>
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<td>30.44</td>
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<td>27.31</td>
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Figure 2.3  Trends in Annual Mean Nitrogen Dioxide Concentrations measured at Diffusion Tube Monitoring Sites since 2003

NO₂ Annual Average - Urban Background

- Wilton Road
- Leicester Road
- Thorpe End
- Thorpe Rd
- Norman Way
- Burton Rd
- Nottingham Road
- Dalby Road I
- Dalby Road II
- Leicester Street
Figure 2.4  Trends in Annual Mean Nitrogen Dioxide Concentrations Measured at the
Two Most Significant Sites in Melton Mowbray (with trend line) since 2003

NO$_2$ Annual Average with Trend Line
Figure 2.5  Trends in Annual Mean Nitrogen Dioxide Concentrations Measured at Rural Diffusion Tube Monitoring Sites (with trend line) since 2003
As can be seen from Tables 2.2 and 2.3 and Figures 2.3, 2.4 and 2.5 the annual average has generally been below the action level of 40 µg/m³ since 2003. Where it appears this has been exceeded (in 2012 for example) additional calculations were carried out for nearest receptor location and these were shown to be below the action level. The results for 2014 indicate an improvement in results since peaks experienced in 2012 and the trend lines indicate improvement on the whole. Melton Borough Council will continue to monitor nitrogen dioxide by using diffusion tubes in 2015. It is perceived that with no significant changes expected in the next year, the results will remain stable and below the national annual mean NO₂ objective.
2.2.2 PM$_{10}$

This authority is not currently monitoring PM$_{10}$.

There have been no significant changes with regard to PM$_{10}$ emissions in this authority since the original review and assessment in 2000 and as such a Detailed Assessment will not be required.

Melton continues to work with Charnwood Borough Council (CBC), a neighbouring Authority, with regard to the Lafarge Quarry at Brooksby. The quarry commenced operation for gravel extraction and grading in October 2006. CBC has a quarry in their district operated by the same company. The quarry in CBC is larger and includes blasting and granite crushing operations. They are currently assessing PM$_{10}$. It is noteworthy that Melton Borough Council has not received any complaints with regard to the activity at this quarry.

2.2.3 Sulphur Dioxide

This authority is not currently monitoring SO$_2$.

There are no new industrial processes of relevance for SO$_2$ in the authority. There have been no significant changes with regards to SO$_2$ emissions in this authority since the original review and assessment in 2000 and as such a Detailed Assessment will not be required.

2.2.4 Benzene

This authority is not currently monitoring benzene.

There have been no significant changes with regards to benzene emissions in this authority since the original review and assessment in 2000 and as such a Detailed Assessment will not be required.
2.2.5 Other pollutants monitored

There are no other pollutants monitored by Melton Borough Council; however there is a national ozone monitoring station at Bottesford, within the Borough.

The monitoring station is within a self-contained, air-conditioned housing in a rural setting surrounded by farm land. The nearest main road is the A52 Nottingham to Grantham road, which lies at a distance of approximately 400 metres north of the station. The manifold inlet is approximately 5 metres from the nearest rural road and approximately 3 metres high. The surrounding area is open.

**Site Address:**

Barkestone Lane, Bottesford, Leicestershire

**Easting and Northing:** 479770, 337641

**Site Type:** Suburban
Pollutants Measured:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Start Date</th>
<th>End Date</th>
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</thead>
<tbody>
<tr>
<td>Ozone</td>
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**Results - Running 8 hour mean Ozone (µg/m³)**

The results generally fall into the low band with occasional moderate levels recorded.

<table>
<thead>
<tr>
<th>Band</th>
<th>Index</th>
<th>Ozone</th>
<th>Running 8 hourly or hourly mean*</th>
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<tr>
<td></td>
<td></td>
<td>µgm⁻³</td>
<td>ppb</td>
</tr>
<tr>
<td>Low</td>
<td>1</td>
<td>0-33</td>
<td>0-16</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>34-65</td>
<td>17-32</td>
</tr>
<tr>
<td></td>
<td>3</td>
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<td>6</td>
<td>154-179</td>
<td>77-89</td>
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<td>90-119</td>
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<td>150-179</td>
</tr>
<tr>
<td>Very High</td>
<td>10</td>
<td>360 or more</td>
<td>180 or more</td>
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</table>

The above information is from DEFRA and can be seen at,[http://uk-air.defra.gov.uk/data/data_selector?q=641984#mid](http://uk-air.defra.gov.uk/data/data_selector?q=641984#mid)
2.2.6 Summary of Compliance with AQS Objectives

Melton Borough Council has examined the results from monitoring in the Borough. Concentrations are all below the objectives, therefore there is no need to proceed to a Detailed Assessment.
3 Road Traffic Sources

3.1 Narrow Congested Streets with Residential Properties Close to the Kerb

Melton Borough Council confirms that there are no new/newly identified congested streets with a flow above 5,000 vehicles per day and residential properties close to the kerb, that have not been adequately considered in previous rounds of Review and Assessment.

3.2 Busy Streets Where People May Spend 1-hour or More Close to Traffic

Melton Borough Council confirms that there are no new/newly identified busy streets where people may spend 1 hour or more close to traffic.

3.3 Roads with a High Flow of Buses and/or HGVs.

Melton Borough Council confirms that there are no new/newly identified roads with high flows of buses/HGVs.
3.4   **Junctions**

Melton Borough Council confirms that there are no new/newly identified busy junctions/busy roads.

3.5   **New Roads Constructed or Proposed Since the Last Round of Review and Assessment**

Melton Borough Council confirms that there are no new/proposed roads.

3.6   **Roads with Significantly Changed Traffic Flows**

Melton Borough Council confirms that there are no new/newly identified roads with significantly changed traffic flows.

3.7   **Bus and Coach Stations**

Melton Borough Council confirms that there are no relevant bus stations in the Local Authority area.
4 Other Transport Sources

4.1 Airports

Melton Borough Council confirms that there are no airports in the Local Authority area.

4.2 Railways (Diesel and Steam Trains)

4.2.1 Stationary Trains

Melton Borough Council confirms that there are no locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15m.

4.2.2 Moving Trains

Melton Borough Council confirms that there are no locations with a large number of movements of diesel locomotives, and potential long-term relevant exposure within 30m.

4.3 Ports (Shipping)

Melton Borough Council confirms that there are no ports or shipping that meet the specified criteria within the Local Authority area.
5 Industrial Sources

5.1 Industrial Installations

5.1.1 New or Proposed Installations for which an Air Quality Assessment has been Carried Out

Melton Borough Council has looked at the air quality assessment for another proposed industrial installation of STOR generators in Asfordby, and concluded that it will not be necessary to proceed to a Detailed Assessment.

5.1.2 Existing Installations where Emissions have Increased Substantially or New Relevant Exposure has been Introduced

Melton Borough Council confirms that there are no industrial installations with substantially increased emissions or new relevant exposure in their vicinity within its area or nearby in a neighbouring authority.

5.1.3 New or Significantly Changed Installations with No Previous Air Quality Assessment

Melton Borough Council confirms that there are no new or proposed industrial installations for which planning approval has been granted within its area or nearby in a neighbouring authority.
5.2 Major Fuel (Petrol) Storage Depots

There are no major fuel (petrol) storage depots within the Melton Borough Council area.

5.3 Petrol Stations

Melton Borough Council confirms that there are no petrol stations meeting the specified criteria.

5.4 Poultry Farms

Melton Borough Council confirms that there are no poultry farms meeting the specified criteria.
6 Commercial and Domestic Sources

6.1 Biomass Combustion – Individual Installations

Melton Borough Council confirms that there are no biomass combustion plants in the Local Authority area.

6.2 Biomass Combustion – Combined Impacts

Melton Borough Council confirms that there are no biomass combustion plants in the Local Authority area.

6.3 Domestic Solid-Fuel Burning

Melton Borough Council confirms that there are no areas of significant domestic fuel use in the Local Authority area.
7 Fugitive or Uncontrolled Sources

Melton Borough Council confirms that there are no potential sources of fugitive particulate matter emissions in the Local Authority area from

- Landfill sites.
- Quarries.
- Unmade haulage roads on industrial sites.
- Waste transfer stations etc.
- Other potential sources of fugitive particulate emissions.
8  Conclusions and Proposed Actions

8.1  Conclusions from New Monitoring Data

The monitoring of nitrogen dioxide carried out since the last Updating Screening Assessment Melton Borough Council in 2012 demonstrates that the levels remain below the national annual mean NO\textsubscript{2} objective. In 2012 relevant receptors were assessed and their locations were found to be below the action level. Melton Borough Council will continue to monitor to ensure that levels remain within the objective.

However in 2014 Councillors at Melton Borough Council requested that three additional sites in Melton Mowbray town centre be monitored to ensure that existing data accurately reflects some of the traffic hot spots.

8.2  Conclusions from Assessment of Sources

New Sources – Since the last Updating Screening Assessment Sainsbury’s built a new supermarket on Nottingham Road which opened in December 2013. The monitoring results for 2014 indicate this has not had a significant impact on air quality in the vicinity.

Brooksby Melton College on Asfordby Road carried out a major refurbishment of its campus, including an extension, which completed in early 2014.

Lidl have also built a new supermarket on Scalford Road which opened in July 2014.

Persimmon Homes are building a development of 91 homes on the northern edge of Melton Mowbray town, also on Scalford Road. This is the start of development of up to 6125 homes in the Borough as indicted as the future requirement in the Melton Local Plan.
Melton Borough Council will give consideration to the impact these sites may have on air quality.

**Existing Sources** - Since the last USA the Lafarge Quarry at Brooksby continued operation for gravel extraction and grading. Melton Borough Council liaises with our neighbouring authority, Charnwood Borough Council (CBC), as they have a quarry in their district operated by the same company. The quarry in Charnwood is larger and includes blasting and granite crushing operations. Melton BC will continue to assess whether future PM10 monitoring at the Brooksby site is necessary. Melton Borough Council has received no complaints with regard to this site.

There have been no significant changes to any other sources since the previous USA.

### 8.3 Proposed Actions

As the air quality objectives identified nationally have not been exceeded at relevant receptors in the district since 2003, Melton Borough Council will continue to monitor air quality arising from vehicular transport. This will focus on the continued assessment of nitrogen dioxide using diffusion tubes in and around Melton Mowbray. There will continue to be liaison with colleagues at Leicestershire County Council for traffic data to supplement the report as necessary.

**In 2016 Melton Borough Council will submit a Progress Report.**
9 References

DEFRA Technical Guidance (TG09)
Appendices

Appendix 1: Full dataset of monthly diffusion tube concentrations for 2014

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<th>JAN '14</th>
<th>FEB '14</th>
<th>MAR '14</th>
<th>APRIL '14</th>
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<th>JUNE '14</th>
<th>JULY '14</th>
<th>AUG '14</th>
<th>SEPT '14</th>
<th>OCT '14</th>
<th>NOV '14</th>
<th>DEC '14</th>
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ppb 0.0

Appendix 2: Quality Assurance/Quality Control for Diffusion Tubes

- The laboratory supplying and analysing the tubes is ESG (Environmental Scientifics Group).
- Between January 2009 and December 2010, ESG have used 20% (triethanolamine) TEA in water preparation method to fit in with the DEFRA harmonised methods. Since January 2010 ESG have used 50% (triethanolamine) TEA in acetone preparation method to fit in with the DEFRA harmonised methods.
- There has not been a co-location study.
- The bias adjustment factor being applied to the annual means from the diffusion tubes is 0.81. This came from the Review and Assessment website: http://laqm.defra.gov.uk/documents/Diffusion_Tube_Bias_Factors_v03_15_Final.xls or http://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html Spreadsheet version 03/15
- In the WASP intercomparison scheme for comparing spiked Nitrogen Dioxide diffusion tubes, ESG is currently ranked as Category; Satisfactory laboratory.
Appendix 3: Diffusion Tube and Receptor Location Data

Each of the maps numbered 1-13 in Appendix 3 are reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty's Stationary Office Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.

Melton Borough Council Licence Number 100019651 (2004)

Tube 1 – Wilton Road
Tube 2 – Leicester Road

2 Leicester Road

- Diffusion Tubes
- Receptor

Baptist Church
Melton Borough Council - England

Tube 3 – Thorpe End

3. Thorpe End

- Diffusion Tube
- Receptor
Melton Borough Council - England

Tube 4 – Thorpe Road

4. Thorpe Road

Diffusion Tube
Receptor

Tube 4 – Thorpe Road

01/04/2009 11:48
Tube 5 – Norman Way

5. Norman Way

- Diffusion Tube
- Receptor
Tube 6 – Burton Road
Melton Borough Council - England

Tube 7 – Nottingham Road

7. Nottingham Road

- Diffusion Tube
- Receptor

LAQM USA 2015
Melton Borough Council - England

Tube 8 – Dalby Road

8. Dalby Road

- Diffusion Tube
- Receptor

LAQM USA 2015
Tube 9 – Asfordby Hill (rural)
Melton Borough Council - England

Tube 10 – Kirby Bellars (rural)

10. Kirby Bellars

- Diffusion Tube
- Receptor
Tube 11 – Croxton Kerrial (rural)

11. Croxton Kerrial

- Diffusion Tube
- Receptor
Melton Borough Council - England

Tube 12 – Dalby Road 2

12. Dalby Road (2)

• Diffusion Tube

Receptor

DALBY ROAD
Tube 13 – Leicester Street

13. Leicester Street

- Diffusion Tube
- Receptor
It is acknowledged that not all of the diffusion tubes are as close to receptors as they could be. However, in the two most significant locations, Thorpe End and Thorpe Road, the diffusion tubes are as close to receptor as can be achieved.

In all other cases they are assessing a standard which would be worse than the nearest receptor and whilst there are no exceedences of the annual average target of 40µg/m³ for NO₂ it enables the authority to compare like with like on an annual basis. If the results were to deteriorate and the annual target was exceeded, action would be taken to relocate the appropriate tubes closer to the receptor.
Appendix 4: Environment Agency Permits within Melton Borough Council Area

Below is the link and table of Environment Agency Permits within Melton Borough Council Area

EAST AREA OFFICE
TRENTSIDE OFFICE, SCARRINGTON ROAD, WEST BRIDGFORD, NG2 5FA
TEL: 08708506506

http://epr.environment-agency.gov.uk/ePRInternet/SearchResults.aspx

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<td>Greenfeeds Limited</td>
<td>Church Farm, Normanton Lane, Nottinghamshire</td>
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<td>Mars Petcare UK, Mill Street, Leicestershire</td>
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<td>East</td>
<td>29/05/2013</td>
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<td>Barn Lodge Farm, Saltby Road, Croxton Kerrial, Lincolnshire</td>
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<td>NP3738CU</td>
<td>GG &amp; P Parker &amp; Sons Limited</td>
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<td>13/05/2015</td>
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<tr>
<td>Permission No:</td>
<td>Name:</td>
<td>Site Address:</td>
<td>Site PostCode:</td>
<td>Easting:</td>
<td>Northing:</td>
<td>EA Region:</td>
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<td>NP3738CU</td>
<td>GG &amp; P Parker &amp; Sons Limited</td>
<td>Hose Lodge Farm, Harby Lane, Colston Bassett, Nottinghamshire</td>
<td>NG12 3FL</td>
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<td>PP3730LP</td>
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<td>Holwell Works, Welby Road, Asfordby Hill, Leicestershire</td>
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<td>SP3634FL</td>
<td>Agri Invest Ltd</td>
<td>Sandy Lane Farm Poultry Unit, Sandy Lane, Burton Lazars, Leicestershire</td>
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<td>316600</td>
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<td>UP3131CH</td>
<td>Island Gas Limited</td>
<td>Oil Well, Melton Road, Long Clawson, Leicestershire</td>
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<td>325440</td>
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<td>UP3839UH</td>
<td>PD &amp; H Wallis</td>
<td>Green Hill Farm, Green Hill, Old Dalby, Leicestershire</td>
<td>LE14 3LJ</td>
<td>469500</td>
<td>323800</td>
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</table>
Permission No: WP3537XU  
Name: Chandler  
Site Address: Lodge Farm, Six Hills Lane, Old Dalby, Leicestershire  
Site PostCode: LE14 3NB  
Easting: 468800  
Northing: 322400  
EA Region: Midlands  
EA Area: East  
Permission Date: 26/03/2014

11. XP3333ZD--Chandler

Permission No: XP3333ZD  
Name: Chandler  
Site Address: Paddy's Lane Poultry Unit, Paddys Lane, Old Dalby, Leicestershire  
Site PostCode: LE14 3LY  
Easting: 464630  
Northing: 322510  
EA Region: Midlands  
EA Area: East  
Permission Date: 26/02/2013