



**Strabane**

**District Council**

Comhairle Ceantair  
an tSratha Báin

Strabane Destrick Cooncil

## **2012 Air Quality Updating and Screening Assessment for Strabane District Council**

**In fulfillment of Environment (Northern Ireland)  
Order 2002  
Local Air Quality Management**

**January 2013**

**Strabane District Council**

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## Executive Summary

The Air Quality Strategy for England, Scotland, Wales & Northern Ireland provides a framework for air quality control through air quality management and air quality standards. These and other air quality standards and their objectives have been enacted through the Air Quality Regulations (Northern Ireland) 2003 in Northern Ireland. The Environment (Northern Ireland) Order 2002 requires District Councils to undertake air quality reviews and assessments. In areas where the air quality objectives are not anticipated to be met by the specified dates, District Councils are required to establish Air Quality Management Areas as a means to improve air quality.

In previous rounds of the review and assessment process Strabane District Council declared 3 air quality management areas affecting Strabane, Newtownstewart and Castlederg in relation to exceedences of the air quality objectives for particles (PM<sub>10</sub>). All three AQMA's remain in force and have been supplemented by the declaration of 3 overlying smoke control areas in order to control domestic emissions from solid fuel combustion.

This report provides an update as to the prevailing conditions within the Strabane District Council area and identifies any relevant changes to the air quality across the district. The conclusion of the screening and assessment report is that no detailed assessment is required for any pollutant prescribed for local authority control.

## Table of contents

<b>1</b>	<b>Introduction.....</b>	<b>5</b>
1.1	Description of Local Authority Area.....	5
1.2	Purpose of Report .....	6
1.3	Air Quality Objectives.....	6
1.4	Summary of Previous Review and Assessments .....	8
<b>2</b>	<b>New Monitoring Data .....</b>	<b>9</b>
2.1	Summary of Monitoring Undertaken .....	9
2.1.1	Automatic Monitoring Sites .....	9
2.1.2	Non-Automatic Monitoring Sites.....	11
2.2	Comparison of Monitoring Results with Air Quality Objectives.....	11
	Table 2.2 Comparison of 2011 Monitoring Data With Air Quality Objectives.....	12
2.2.1.1	PM <sub>10</sub> .....	13
2.2.2	Sulphur Dioxide .....	14
2.2.2.1	Sulphur Dioxide .....	14
2.2.3	Benzene .....	15
2.2.4	Other pollutants monitored.....	15
2.2.5	Summary of Compliance with Air Quality Strategy Objectives .....	15
<b>3</b>	<b>Road Traffic Sources.....</b>	<b>16</b>
3.1	Narrow Congested Streets with Residential Properties Close to the Kerb .....	16
3.2	Busy Streets Where People May Spend 1-hour or More Close to Traffic .....	16
3.3	Roads with a High Flow of Buses and/or HGVs. ....	16
3.4	Junctions .....	16
3.5	New Roads Constructed or Proposed Since the Last Round of Review and Assessment 17	
3.6	Roads with Significantly Changed Traffic Flows .....	17
3.7	Bus and Coach Stations.....	18
<b>4</b>	<b>Other Transport Sources .....</b>	<b>19</b>
4.1	Airports.....	19
4.2	Railways (Diesel and Steam Trains) .....	19
4.3	Ports (Shipping).....	19
<b>5</b>	<b>Industrial Sources .....</b>	<b>20</b>
5.1	Industrial Installations.....	20
5.1.1.1	New or Proposed Installations for which an Air Quality Assessment has been Carried Out	20
5.1.1.2	Existing Installations where Emissions have Increased Substantially or New Relevant Exposure has been Introduced.....	20
5.1.1.3	New or Significantly Changed Installations with No Previous Air Quality Assessment ...	20
5.2	Major Fuel (Petrol) Storage Depots .....	21

5.3	Petrol Stations .....	21
5.4	Poultry Farms .....	21
<b>6</b>	<b>Commercial and Domestic Sources.....</b>	<b>22</b>
6.1	Biomass Combustion – Individual Installations .....	22
6.2	Biomass Combustion – Combined Impacts .....	22
6.3	Domestic Solid-Fuel Burning .....	22
<b>7</b>	<b>Fugitive or Uncontrolled Sources .....</b>	<b>23</b>
<b>8</b>	<b>Conclusions and Proposed Actions .....</b>	<b>24</b>
8.1	Conclusions from New Monitoring Data .....	24
8.2	Conclusions from Assessment of Sources .....	24
8.3	Proposed Actions .....	24
<b>9</b>	<b>References .....</b>	<b>25</b>

### List of Tables

Table 1.1	Air Quality Objectives included in Regulations for the purpose of LAQM in Northern Ireland
Table 2.1	Details of Automatic Monitoring Sites
Table 2.2	Comparison of 2011 Monitoring Data With Air Quality Objectives
Table 2.3	Trend Analysis of Pollutant Concentrations at the Springhill Park Monitoring Site
Table 2.4	Comparison of PM <sub>10</sub> Concentrations with the Air Quality Objectives in 2011
Table 2.5	Summary Data for PM <sub>10</sub> Monitoring at Springhill Park Site for the 2011 Calendar Year
Table 2.6	Trend Analysis of PM <sub>10</sub> Concentrations at the Springhill Park Monitoring Site
Table 2.7	2011 Results of Automatic Monitoring of SO <sub>2</sub>
Table 2.8	SO <sub>2</sub> Monitoring Results for the 2011 Calendar Year
Table 2.9	Trend Analysis of Sulphur Dioxide Concentrations at the Springhill Park Monitoring Site

### List of Figures

Figure 2.1	Map of Automatic Monitoring Site at Springhill Park, Strabane
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### Appendices

Appendix A	QA/QC Data
Appendix B	Pollution Prevention Control Register
Appendix C	HGV Roads Data
Appendix D	AADT Traffic Data

# 1 Introduction

## 1.1 Description of Local Authority Area

The Strabane District Council area comprises some 922 square kilometres of largely unspoilt countryside, and is situated in north-west County Tyrone, Northern Ireland on the border with County Donegal in the Republic of Ireland. The principal centres of population are shown in pictorial form below.



The district had a population of 39,843 (NI Census) in 2011, the largest proportion of which reside in the main population centres of Strabane town and smaller towns of Castlederg and Newtown Stewart. A number of small villages also exist within the district.

Strabane is situated approximately 14 miles from Derry/Londonderry and 90 miles from Belfast. The principal traffic routes within the district are the A5 (currently carrying approximately 14040 vehicles per day through Strabane which spans from Ballygawley to Derry/Londonderry via Newtown Stewart and is a main arterial route), and the A38 (currently carrying approximately 19130 vehicles per day which links Strabane with Co Donegal in the Republic of Ireland). Strabane is linked to the smaller towns of Castlederg by the B72, Donemana by the B49 and Plumbridge by the B526; these roads carrying substantially less vehicles per day than the other traffic routes. A number of prescribed industrial activities are controlled within the district as detailed in Appendix B. The air quality updating and screening

assessment has taken such premises and other commercial and industrial premises into consideration where necessary.

## **1.2 Purpose of Report**

This report fulfils the requirements of the Local Air Quality Management process as set out in the Environment (Northern Ireland) Order 2002, 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 Northern Ireland are set out in the Air Quality Regulations (Northern Ireland) 2003, Statutory Rules of Northern Ireland 2003, No. 342, and are shown in Table 1.1. This table shows the objectives in units of microgrammes per cubic metre  $\mu\text{g}/\text{m}^3$  (milligrammes per cubic metre,  $\text{mg}/\text{m}^3$  for carbon monoxide) with the number of exceedences in each year that are permitted (where applicable).

**Table 1.1 Air Quality Objectives included in Regulations for the purpose of LAQM in Northern Ireland**

Pollutant	Air Quality Objective		Date to be achieved by
	Concentration	Measured as	
Benzene	16.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
	3.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2010
1,3-Butadiene	2.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
Carbon monoxide	10.0 $\text{mg}/\text{m}^3$	Running 8-hour mean	31.12.2003
Lead	0.5 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
	0.25 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2008
Nitrogen dioxide	200 $\mu\text{g}/\text{m}^3$ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2005
Particles ( $\text{PM}_{10}$ ) (gravimetric)	50 $\mu\text{g}/\text{m}^3$ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
Sulphur dioxide	350 $\mu\text{g}/\text{m}^3$ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 $\mu\text{g}/\text{m}^3$ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 $\mu\text{g}/\text{m}^3$ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005



## **1.4 Summary of Previous Review and Assessments**

Strabane District Council published the Stage 2/3 Review and Assessment Report in May 2004. The conclusions of the report highlighted the requirement upon Strabane District Council to declare air quality management areas (AQMA's) in Strabane, Newtownstewart and Castlederg in relation to exceedences of the air quality objectives for particles (PM<sub>10</sub>). The air quality management areas were brought into effect by means of orders made by Strabane District Council and came into effect on 30<sup>th</sup> June 2004. The air quality action plan was published in September 2005 and is currently being implemented.

Strabane District Council is now embarking on the fifth round of air quality review and assessment. A phased approach is used to review and assess air quality. The first stage of the review and assessment process is an updating and screening assessment. This identifies any changes that have occurred since the fourth round which may have an affect on air quality and which require a more detailed assessment. Where an updating and screening assessment has identified a risk that an air quality objective will be exceeded at a location with relevant public exposure then the council is required to undertake a detailed assessment.

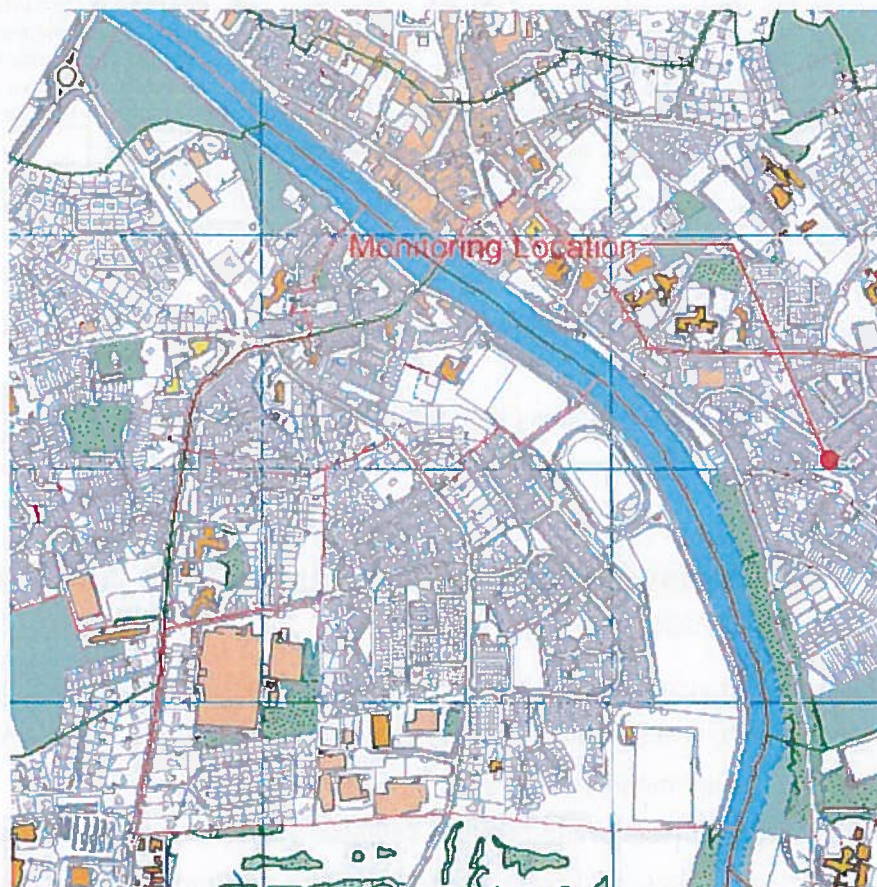
## **2 New Monitoring Data**

### **2.1 Summary of Monitoring Undertaken**

#### **2.1.1 Automatic Monitoring Sites**

Strabane District Council continues to operate a combined PM<sub>10</sub>/sulphur dioxide monitoring station at Springhill Park, Strabane as illustrated in Figure 2.1 overleaf. The site is surrounded by housing (representing the worst case location) and has been in operation since April 2002. The PM<sub>10</sub> monitoring is carried out using a Met One BAM1020 and an API M100A fluorescent analyser is used to measure the sulphur dioxide concentrations. The site is subject to independent QA/QC audits by AEA Energy & Environment at 6 monthly intervals in order to provide confidence in the procedures adopted by Strabane District Council in managing the site and to enable the data ratification process to take place. Data management services are also provided by AEA Energy & Environment. The sulphur dioxide monitoring station is subject to calibration at 2-weekly intervals by staff from Strabane District Council with the results forwarded to AEA who carry out the data validation and ratification on behalf of Strabane District Council. The BAM monitor data is subject to the recommended correction factor of 0.83333 in order to provide gravimetric equivalent data.

**Figure 2.1 Map of Automatic Monitoring Site at Springhill Park, Strabane**



**Table 2.1 Details of Automatic Monitoring Sites**

Site Name	Site Type	X OS GridRef	Y OS Grid Ref	Pollutants Monitored	In AQMA?	Monitoring Technique	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Distance to kerb of nearest road (N/A if not applicable)	Does this location represent worst-case exposure?
Springhill Park, Strabane	Urban Background	2351	3972	PM10 SO2	Y	BAM1020 M100A	Y (1M)	1M	Yes

### 2.1.2 Non-Automatic Monitoring Sites

No non-automatic monitoring takes place within the Strabane District Council area.

## 2.2 Comparison of Monitoring Results with Air Quality Objectives

Table 2.2 below provides a direct comparison with the relevant air quality objectives for PM<sub>10</sub>/SO<sub>2</sub>. In 2011 the number of exceedences of the daily mean PM<sub>10</sub> objective was 5 and the annual mean was 18µg m<sup>-3</sup> indicative gravimetric equivalent. These figures are similar to those for the previous calendar years. The dramatic reductions experienced in the number of daily mean exceedences and annual mean on previous years would now appear to have halted. The reduction in the number of daily mean exceedences and annual mean can be accounted for by the implementation of the air quality action plan including measures such as the NIHE heating conversion scheme, introduction of fuel conversion schemes for owner-occupied and rented accommodation funded by Northern Ireland Electricity and the Department for Social Development in conjunction with Strabane District Council and action by the introduction of smoke control areas in April and September 2007. Such measures have helped to produce an improvement in the air quality across the District and an overall reduction in background concentrations as a whole compared to previous years.

Table 2.2 Comparison of 2011 Monitoring Data With Air Quality Objectives

Pollutant	Air Quality Regulations (Northern Ireland) 2003	Exceedences	Days
Sulphur Dioxide	15-minute mean > 266 $\mu\text{g m}^{-3}$	0	0
Sulphur Dioxide	Hourly mean > 350 $\mu\text{g m}^{-3}$	0	0
Sulphur Dioxide	Daily mean > 125 $\mu\text{g m}^{-3}$	0	0
PM <sub>10</sub> Particulate Matter (Gravimetric)	Daily mean > 50 $\mu\text{g m}^{-3}$	5	5
PM <sub>10</sub> Particulate Matter (Gravimetric)	Annual mean > 40 $\mu\text{g m}^{-3}$	0	-

Table 2.3 below provides the trend in pollutant concentrations since monitoring began at the Springhill Park site in Strabane town. With the exception of 2009 and 2010 it is evident that PM<sub>10</sub> concentrations in particular have reached a plateau and demonstrate the impact of the air quality action plan measures. There was a particularly cold winter period during the winter of 2010 which has had an impact on air quality, possibly as a result of increased burning of solid fuels. Despite this the results also indicate a sustained period of compliance with the air quality objectives for particles and sulphur dioxide.

Table 2.3 Trend Analysis of Pollutant Concentrations at the Springhill Park Monitoring Site

Pollutant	Air Quality Regulations (Northern Ireland) 2003	YEAR								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Sulphur Dioxide	15-minute mean > 266 $\mu\text{g m}^{-3}$	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	Hourly mean > 350 $\mu\text{g m}^{-3}$	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	Daily mean > 125 $\mu\text{g m}^{-3}$	0	0	0	0	0	0	0	0	0
PM <sub>10</sub> Particulate Matter (Gravimetric)	No. Days Daily mean > 50 $\mu\text{g m}^{-3}$	67	86	11	2	3	3	7	17	5
PM <sub>10</sub> Particulate Matter (Gravimetric)	Annual mean $\mu\text{g m}^{-3}$	36	42	25	17	17	17	22	23	18

### 2.2.1.1 PM<sub>10</sub>

Table 2.4 below provides a direct comparison of the monitoring results from the Springhill Park site with the relevant air quality objectives for PM<sub>10</sub> during 2011. The number of exceedences of the daily mean PM<sub>10</sub> objective was 5 and the annual mean was 18 µg m<sup>-3</sup> indicative gravimetric equivalent. Both air quality objectives are therefore being achieved and there is no risk of the objectives being exceeded at present. The monitoring site is located within an AQMA and represents relevant public exposure locations for domestic and transport sources of particles due to its siting within a built up residential area. Tables 2.5 and 2.6 provide summary data statistics for the 2011 calendar year and Table 2.7 provides the trend analysis of PM<sub>10</sub> concentrations at Springhill Park, Strabane from 2003 to 2011.

**Table 2.4 Comparison of PM<sub>10</sub> Concentrations with the Air Quality Objectives in 2011**

Pollutant	Air Quality Regulations (Northern Ireland) 2003	Exceedences	Days
PM <sub>10</sub> Particulate Matter (Gravimetric)	Daily mean > 50 µg m <sup>-3</sup>	5	5
PM <sub>10</sub> Particulate Matter (Gravimetric)	Annual mean > 40 µg m <sup>-3</sup>	0	-

**Table 2.5 Summary Data for PM<sub>10</sub> Monitoring at Springhill Park Site for the 2011 Calendar Year**

POLLUTANT	PM <sub>10</sub> 2011
Number Very High	0
Number High	0
Number Moderate	39
Number Low	8586
Maximum 15-minute mean	145 µg m <sup>-3</sup>
Maximum hourly mean	145 µg m <sup>-3</sup>
Maximum running 8-hour mean	111 µg m <sup>-3</sup>
Maximum running 24-hour mean	73 µg m <sup>-3</sup>
Maximum daily mean	69 µg m <sup>-3</sup>
Average	18 µg m <sup>-3</sup>
Data capture	98.0 %

\* PM<sub>10</sub> Indicative Gravimetric Equivalent µgm<sup>-3</sup>

+ PM<sub>10</sub> instruments: BAM using a factor of 0.83333 for Indicative Gravimetric Equivalence  
All mass units are at 20°C and 1013mb

**Table 2.6 Trend Analysis of PM<sub>10</sub> Concentrations at the Springhill Park Monitoring Site**

Pollutant	Air Quality Regulations (Northern Ireland) 2003	YEAR								
		2003	2004	2005 <sup>a</sup>	2006	2007	2008	2009	2010	2011
PM <sub>10</sub> Particulate Matter (Gravimetric)	No. Days Daily mean > 50 µg m <sup>-3</sup>	67	86	11	2	3	3	7	17	5
PM <sub>10</sub> Particulate Matter (Gravimetric)	Annual mean µg m <sup>-3</sup>	36	42	25	17	17	17	22	23	18

## 2.2.2 Sulphur Dioxide

### 2.2.2.1 Sulphur Dioxide

Table 2.7 below provides a direct comparison of the monitoring results from the Springhill Park site with the relevant air quality objectives for sulphur dioxide. There were no exceedences of any of the air quality objectives for this pollutant since monitoring began in April 2002 and this continues to be the case. All air quality objectives for this pollutant are therefore being achieved and there is no risk of the objectives being exceeded at present as is evident by the summary statistics provided in table 2.8 below. The monitoring site is located within an AQMA (in relation to PM<sub>10</sub>) and represents relevant public exposure locations for a range of sources of sulphur dioxide due to its siting within a built up residential area. Tables 2.9 and 2.10 provide summary data statistics for the 2011 calendar year and trend analysis of sulphur dioxide concentrations at Springhill Park, Strabane from 2003 to 2011.

**Table 2.7 2011 Results of Automatic Monitoring of SO<sub>2</sub>**

Site ID	Site Type	Within AQMA?	Valid Data Capture for monitoring Period % <sup>a</sup>	Valid Data Capture 2011 % <sup>b</sup>	Number of Exceedences (percentile in bracket µg/m <sup>3</sup> ) <sup>c</sup>		
					15-minute Objective (266 µg/m <sup>3</sup> )	1-hour Objective (350 µg/m <sup>3</sup> )	24-hour Objective (125 µg/m <sup>3</sup> )
Strabane 1	Urban Background	Y	91.4	91.4	0	0	0



**Table 2.8 SO<sub>2</sub> Monitoring Results for the 2011 Calendar Year**

POLLUTANT	SO <sub>2</sub>
Number Very High	0
Number High	0
Number Moderate	0
Number Low	32734
Maximum 15-minute mean	104 µg m <sup>-3</sup>
Maximum hourly mean	74 µg m <sup>-3</sup>
Maximum running 8-hour mean	33 µg m <sup>-3</sup>
Maximum running 24-hour mean	17 µg m <sup>-3</sup>
Maximum daily mean	16 µg m <sup>-3</sup>
Average	4 µg m <sup>-3</sup>
Data capture	91.4 %

**Table 2.9 Trend Analysis of Sulphur Dioxide Concentrations at the Springhill Park Monitoring Site**

Pollutant	Air Quality Regulations (Northern Ireland) 2003	YEAR								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Sulphur Dioxide	15-minute mean > 266 µg m <sup>-3</sup>	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	Hourly mean > 350 µg m <sup>-3</sup>	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	Daily mean > 125 µg m <sup>-3</sup>	0	0	0	0	0	0	0	0	0

### 2.2.3 Benzene

No monitoring for benzene takes place within the Strabane District Council area.

### 2.2.4 Other pollutants monitored

No monitoring takes place for any other pollutant within the Strabane District Council area.

### 2.2.5 Summary of Compliance with Air Quality Strategy Objectives

Strabane District Council has examined the results from monitoring in the Strabane District. 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**

Strabane District 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**

Strabane District 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.**

Strabane District Council confirms that there are no new/newly identified roads with high flows of buses/HGVs.

#### **3.4 Junctions**

Strabane District 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**

There has been one proposed road since the last round of review and assessment, namely the A5 Western Transport Corridor which will pass through several district council areas including Strabane District Council, Derry City Council, Omagh District Council and Dungannon and South Tyrone Borough Council areas. Whilst one portion of the road that passes through the Strabane District Council area has been granted Ministerial approval no construction has as yet commenced. The potential air quality impact assessment will be included in future progress reports and updating and screening assessments should the scheme be constructed.

Strabane District Council has assessed new/proposed roads meeting the criteria in Section A.5 of Box 5.3 in TG(09), and concluded that it will not be necessary to proceed to a Detailed Assessment.

### **3.6 Roads with Significantly Changed Traffic Flows**

Appendix E details changes in traffic flows from 2008 to 2009 including the percentage increase/ decrease in traffic flow. There are no roads with more than 10,000 vehicles per day that have experienced a greater than 25% increase in traffic flow, in the Strabane District Council area. No data is currently available for the years 2010 and 2011. The greatest magnitude of increase is 2.69% and is substantially below the 25% increase that would require a detailed assessment to be carried out for both PM10 and nitrogen dioxide.

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

### 3.7 Bus and Coach Stations

The guidance recommends consideration of bus stations with relevant exposure points at less than 10m from the station complex and more than 2500 vehicle movements per day. There are no such locations within the Strabane District Council area at present.

Strabane District Council confirms that there are no relevant bus stations in the Local Authority area.

## **4 Other Transport Sources**

### **4.1 Airports**

Strabane District Council confirms that there are no airports in the Local Authority area.

### **4.2 Railways (Diesel and Steam Trains)**

Strabane District 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.

Strabane District 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)**

Strabane District 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**

#### **5.1.1.1 New or Proposed Installations for which an Air Quality Assessment has been Carried Out**

Strabane District Council is aware of one biomass combustion plant, located at Tyrone Energy Ltd, Art Road, Artigarvan. The combustion plant has received planning approval and is subject to regulation by the NIEA under the Pollution Prevention Control Regulations (Northern Ireland) 2003 as a Part A installation. The installation has not been fully commissioned as yet and will therefore be considered in future rounds of the air quality review and assessment process. An air quality impact assessment was completed as part of the development control process and concluded that no exceedences of the air quality objectives was likely to occur. The installation is also subject to controls included in the permit to operate.

Strabane District Council has assessed new/proposed industrial installations, and concluded that it will not be necessary to proceed to a Detailed Assessment.

#### **5.1.1.2 Existing Installations where Emissions have Increased Substantially or New Relevant Exposure has been Introduced**

Strabane District 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.

#### **5.1.1.3 New or Significantly Changed Installations with No Previous Air Quality Assessment**

Strabane District 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 Local Authority area.

## **5.3 Petrol Stations**

Strabane District Council confirms that there are no petrol stations meeting the specified criteria.

## **5.4 Poultry Farms**

Strabane District Council confirms that there are no poultry farms meeting the specified criteria.

## **6 Commercial and Domestic Sources**

### **6.1 Biomass Combustion – Individual Installations**

Strabane District Council is aware of one biomass combustion plant, located at an animal feed plant at Strabane Mills Ltd, Artigarvan. The combustion plant is subject to regulation under the Pollution Prevention Control Regulations (Northern Ireland) 2003 as a Part C installation. This installation was considered in previous rounds of air quality review and assessment and therefore will not be considered further at this time.

Strabane District Council has assessed the biomass combustion plant, and concluded that it will not be necessary to proceed to a Detailed Assessment.

### **6.2 Biomass Combustion – Combined Impacts**

Strabane District Council has assessed the biomass combustion plant, and concluded that it will not be necessary to proceed to a Detailed Assessment.

### **6.3 Domestic Solid-Fuel Burning**

Strabane District Council has assessed the impacts of domestic solid fuel burning in previous rounds of air quality review and assessment and no further assessment is therefore deemed necessary at this time.

Strabane District Council has assessed areas of significant domestic solid fuel use, and concluded that it will not be necessary to proceed to a Detailed Assessment.

## **7 Fugitive or Uncontrolled Sources**

Strabane District Council confirms that there are no potential sources of fugitive particulate matter emissions in the Local Authority area.



## **8 Conclusions and Proposed Actions**

### **8.1 Conclusions from New Monitoring Data**

The new monitoring available within the Strabane AQMA since the last updating and screening assessment has not identified any exceedences of the air quality objectives for  $PM_{10}$  or sulphur dioxide.  $PM_{10}$  concentrations appear to be demonstrating a trend in recent years in that no further dramatic reductions in concentrations have been demonstrated and annual mean and daily mean concentrations remain relatively constant year on year. The monitoring has not identified any potential or actual exceedences at relevant locations outside existing AQMA's.

### **8.2 Conclusions from Assessment of Sources**

The assessment of sources included in this report has not identified any new or significantly changed sources that require a detailed assessment at this time.

### **8.3 Proposed Actions**

The assessment of sources included in this report has not identified any new or significantly changed sources that require a detailed assessment for any pollutant at this time. The Updating and Screening Assessment has not identified any need for additional monitoring, or changes to the existing monitoring programme. It is considered that no changes are required to any existing AQMA's at this time.

It is proposed that the next course of action will be to submit a Progress Report in 2013.

## **9 References**

Strabane District Council Stage 1 Review and Assessment 2000

Strabane District Council Stage 2/3 Review and Assessment 2004

Strabane District Council Air Quality Action Plan 2005

Strabane District Council Updating and Screening Assessment 2006

Strabane District Council Updating and Screening Assessment 2009

## Appendices

## **Appendix A: QA:QC Data**

### **PM Monitoring Adjustment**

PM10 monitoring data from the BAM is corrected to gravimetric equivalent using a factor of 0.83333 for Indicative Gravimetric Equivalence.

### **QA/QC of automatic monitoring**

AEA carry out independent QA/QC visits to the Springhill Park monitoring station at 6-monthly intervals. Strabane District Council carry out calibrations of the sulphur dioxide monitor at 2-weekly intervals.

## Appendix B

## Pollution Prevention Control Register

Strabane District Council

Pollution Prevention & Control Register - Part C

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC/05/C/0001/V1	Supermix Ltd	76 Strabane Road, Newtownstewart BT78 4JZ	Section 3.1 Production Of Cement & Lime	1 <sup>st</sup> June 2005 Date of Variation 9 <sup>th</sup> June 2008
PPC/05/C/0002/V1	Northstone (NI) Ltd (Concrete Division)	Strahans Road, Strabane BT82 9SF	Section 3.1 Production of Cement & Lime	1 <sup>st</sup> June 2005 Date of Variation 19 <sup>th</sup> May 2008
PPC/05/C/0003/V1	Spamont Precast	50 Drumnabey Road, Spamount, Castlederg BT81 7LY	Section 3.1 Production of Cement & Lime	1 <sup>st</sup> June 2005 Date of Variation 9 <sup>th</sup> June 2008
PPC/05/C/0004	Mr Raymond Boyd	7 Deepark Industrial Estate, Baronscourt Road, Newtownstewart, BT78 4EX	Section 6.6 Timber Activities	21 <sup>st</sup> June 2005

# **Pollution Prevention & Control Register**      -      **Part C**

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC/05/C/0005/V1	Frylite	Orchard Road Industrial Estate Orchard Road, Strabane BT82 9FR	Section 6.8 Treatment of Animal & Vegetable Matter & Food Industries	16 <sup>th</sup> May 2007  Date of Variation 28 <sup>th</sup> January 2008
PPC/06/C/0001	Strabane Mills Ltd	3 Art Road, Artigarvan, Strabane, BT82 0HA	Section 1.1 Combustion Processes	15 <sup>th</sup> May 2007
PPC/07/C/0001	Cernex (NI) Ltd	48A Ballyheather Road, Strabane BT82 0LB	Section 3.1 Production of Cement &  Lime	26 <sup>th</sup> June 2007  Date of Transfer 19 <sup>th</sup> May 2008
PPC/07/C/0002	Strabane Mills Ltd	3 Art Road, Artigarvan, Strabane, BT82 0HA	Section 6.8 Treatment of Animal and Vegetable Matter and Food Industries	10 <sup>th</sup> September 2007

Strabane District Council

Pollution Prevention & Control Register - Part C

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC/07/C/0003	Taggart Jack	1 Carnkenny Road, Ardstraw BT78 4LN	Section 6.8 Treatment of Animal and Vegetable Matter and Food Industries	10 <sup>th</sup> September 2007
PPC/07/C/0004	L W Surphlis & Son	31 Drumlegagh Church Road, Newtownstewart BT78 4HP	Section 6.8 Treatment of Animal & Vegetable Matter & Food Industries	10 <sup>th</sup> September 2007
PPC/07/C/0005	Tyrone Dry Cleaners	80 Main Street, Strabane BT82 8BA	Section 7 Dry Cleaning Installation	20 <sup>th</sup> December 2007
PPC/07/C/0006	Jiffy Dry Cleaners	4A Railway Street, Strabane BT82 8AG	Section 7 Dry Cleaning Installation	19 <sup>th</sup> March 2008



# Pollution Prevention & Control Register - Part C

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC/08/C/0002	M Beattie & Son Ltd	70 Plumbbridge Road, Newtown Stewart BT78 4DP	Section 6.8 Treatment of Animal & Vegetable Matter & Food Industries	12 <sup>th</sup> January 2009
PPC/08/C/0003	Masterclean Exclusive Drycleaners	51 Main Street, Castlederg, BT81 7AN	Section 7 Dry Cleaning Installation	4 <sup>th</sup> November 2008  Revoked from 14 <sup>th</sup> March 2012
PPC/08/C/0004	Boran Mopack Ltd	Ballycolman Industrial Estate Strabane, BT82 9AQ	Section 7 SED activity  Part C  Printing of flexible packaging.	29 <sup>th</sup> October 2008
PPC/09/C/0001	Maxwell Concrete	22 Follard Road, Castlederg, BT81 7JW	Section 3.1  Use of Bulk Cement for Manufacturing of Cement Products.	27 <sup>th</sup> October 2009

Pollution Prevention & Control Register - Part C

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC/09/C/0002	Taylor's (Fylin) Ltd	27 Killeen Road, Strabane, BT82 9LL	Section 6.8 Treatment of Animal & Vegetable Matter & Food Industries	11 <sup>th</sup> January 2010
PPC/10/C/0001	Border Service Station Ltd	19 Lifford Road, Strabane, BT82 8EP	Section 1.2 Unloading of Petrol Into Storage	10 <sup>th</sup> February 2011

Pollution Prevention & Control Register - Part A

Ref No	Company Name	Company Address	Process Type	Date of Permitting
P0051/04A	Ultra Building Products	Deepark Industrial Estate, Baronscourt Road, Newtownstewart	Non-ferrous Metal	21 <sup>st</sup> March 2005
P0088/05A	Jason Browne	99 Peacock Road, Magheragar, Strabane	Intensive Farming (Poultry)	19 <sup>th</sup> January 2006
P0088/05A/V1				20 <sup>th</sup> February 2008
P0088/05A/V2				2 <sup>nd</sup> November 2010
P0095/05A	TMC Dairies (NI) Ltd	47 Berryhill Road, Artigarvan, Strabane	Treating & Processing Of Milk	1 <sup>st</sup> May 2006
P0095/05A/V1				15 <sup>th</sup> May 2007
P0149/06A	Ian Millar	10 Bellsark Road, Slon Mills, Strabane	Intensive Farming (Poultry)	9 <sup>th</sup> July 2007
P0149/06A/V1				22 <sup>nd</sup> January 2010
P0149/06A/V2				21 <sup>st</sup> March 2011

Strabane District Council

Pollution Prevention & Control Register - Part A

Ref No	Company Name	Company Address	Process Type	Date of Permitting
P0177/07A	Valleyview Enterprises	39 Laghel Road, Killen, Castlederg	Intensive Farming (Pork)	2 <sup>nd</sup> November 2007
P0277/07A	Northern Ireland Water	Strabane Waste Water Treatment Works 24 Park Road, Strabane, BT82 8LH	Waste	16 <sup>th</sup> January 2008
P0330/09A	Northern Ireland Water	Derg Water Treatment Works Landfill Tieveenny Road, Victoria Bridge, Strabane	Waste	
P0323/09A	Ian McMullan	8 Willow Road, Strabane, BT82 0DJ	Intensive Farming (Poultry)	05 <sup>th</sup> October 2009

## Pollution Prevention &amp; Control Register

## Part A

Ref No	Company Name	Company Address	Process Type	Date of Permitting
P0349/10A	NI Water	WWTW Sludge Thickening Plant, Mill Avenue, Sion Mills, BT829HE	Waste	3 <sup>rd</sup> November 2010
P0355/10A	Alan Millar	85 Peacock Road, Sion Mills, Strabane, BT82 9NP	Intensive Farming (Poultry)	9 <sup>th</sup> November 2010
P0374/11A	Tyrone Energy Ltd	3 Art Road, Artigarvan, Strabane, BT82 0HA	Incineration of Non-hazardous Waste In a Co-Incineration Unit Burning Waste as a Fuel	30 <sup>th</sup> April 2012
P0396/12A	TIC Poultry Ltd	12 Lough Road, Newtownstewart, BT78 4HH	Intensive Farming (Poultry)	

**Pollution Prevention & Control Register** - **Part B**

Ref No	Company Name	Company Address	Process Type	Date Permit Issued
PPC0085/08B	A S Ballantyne Ltd	Aughafad Quarry, 221 Lisnarrow Road, Donemana	Quarry	30 <sup>th</sup> January 2009
PPC0117/08B	GE Ballantyne	Letterbrat Quarry, 79 Letterbrat Road, Plumbridge, BT79 8DN	Quarry	10 <sup>th</sup> March 2009

## Appendix C

### HGV Roads Data

#### ANNUAL AVERAGE DAILY TRAFFIC FLOWS DURING 2009 INDICATING % HGV

Road No.	CP No.	2009 AADT	% HGV
B72	622	3440	10.3
A5	623	14060	8.3
A38	624	19240	4.4
B49	625	2202	8.5
A5	659	15500	7.3
A5	648	14220	6.9

**Appendix D****AADT Traffic Data****COMPARISON OF ANNUAL AVERAGE DAILY TRAFFIC FLOWS FROM 2008 TO  
2009**

<b>Road No.</b>	<b>CP No.</b>	<b>2008</b>	<b>2009</b>	<b>% Increase 2008-2009</b>
B72	622	3350	3440	+2.69
A5	623	13930	14060	+0.93
A38	624	19530	19240	-1.48
B49	625	2330	2220	-4.72
A5	659	15410	15500	+0.58
A5	648	14020	14220	+1.43