

North Dorset District Council



2014 Air Quality Progress Report for

North Dorset District Council

In fulfillment of Part IV of the
Environment Act 1995
Local Air Quality Management

March 2014

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Report Reference number	AQM 2014
Date	March 2014

Executive Summary

- Previous Review and Assessments of air quality in the North Dorset District Council area have reached conclusions which have generally not required the authority to proceed with further investigations or to declare any Air Quality Management Areas (pages 9 & 10).
- The one exception was the need to undertake a Detailed Assessment in respect of particulates ('PM₁₀') in the vicinity of an HGV wash facility in the north of the district, identified in the 2012 USA (page 11). This exercise has been postponed pending the completion of construction works to relocate and enclose the HGV wash; while the construction has been subject to unavoidable delay, it is anticipated that it will be completed prior to the next round of Updating Screening and Assessment, due in April 2015.
- As a result of the above, no Action Plans have been implemented which require reporting of progress.
- A number of new housing developments have been identified for future development, although no planning applications have been submitted at this time.
- It is therefore proposed to submit this Progress Report; the next step will be the USA necessary in 2015.

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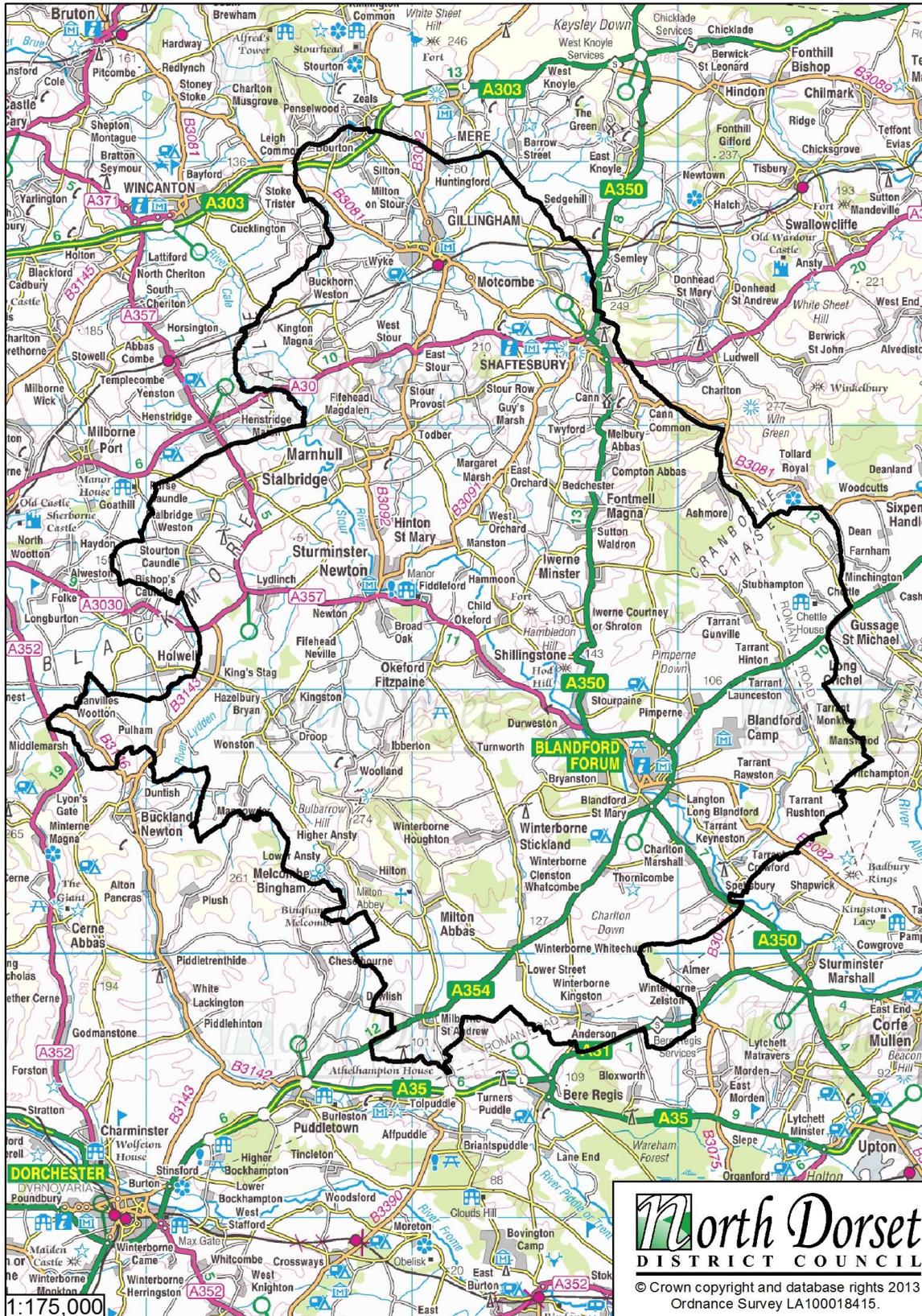
1 Introduction

1.1 Description of Local Authority Area

The District of North Dorset is located in the south west of England, bordering Somerset and Wiltshire. It is predominantly a rural area with very little industry. The five major market towns in the District are Blandford Forum, Gillingham, Shaftesbury, Stalbridge and Sturminster Newton. To the south and east of the District lies the Dorset Downs, Cranborne Chase & West Wilshire Downs, both are recognised as Areas of Outstanding Natural Beauty (AONB). The Blackmore Vale and Limestone Ridges occupy the northern and western part of the District, although not officially designated as AONB but both are recognised as contributing to the general attractiveness of the area. Population number in the District (2011 Mid-Year Estimate) was 69,000.

A map showing the boundary of the District is shown in Figure 1.1 below.

Figure 1.1: Map of North Dorset



1.2 Purpose of Progress Report

This report fulfils the requirements of the Local Air Quality Management (LAQM) 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.

Progress Reports are required in the intervening years between the three-yearly Updating and Screening Assessment reports. Their purpose is to maintain continuity in the LAQM process.

They are not intended to be as detailed as Updating and Screening Assessment Reports, or to require as much effort. However, if the Progress Report identifies the risk of exceedence of an Air Quality Objective, the Local Authority (LA) should undertake a Detailed Assessment immediately, and not wait until the next round of Review and Assessment.

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 microgrammes per cubic metre $\mu\text{g}/\text{m}^3$ (milligrammes per cubic metre, mg/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 England

Pollutant	Air Quality Objective		Date to be achieved by
	Concentration	Measured as	
Benzene	16.25 µg/m ³	Running annual mean	31.12.2003
	5.00 µg/m ³	Annual mean	31.12.2010
1,3-Butadiene	2.25 µg/m ³	Running annual mean	31.12.2003
Carbon monoxide	10 mg/m ³	Running 8-hour mean	31.12.2003
Lead	0.50 µg/m ³	Annual mean	31.12.2004
	0.25 µg/m ³	Annual mean	31.12.2008
Nitrogen dioxide	200 µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 µg/m ³	Annual mean	31.12.2005
Particulate Matter (PM ₁₀) (gravimetric)	50 µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 µg/m ³	Annual mean	31.12.2004
Sulphur dioxide	350 µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 µg/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

1.4.1 Round 1 - 1999

The Round 1 assessment of air quality concluded that there was no likelihood of exceedence of any of the air quality objectives in the district. There were no significant industrial or domestic sources and no roads over 20,000 vehicles per day (the criteria for Stage 2 review and assessment for nitrogen dioxide at that time). As a result, North Dorset District Council was not required to proceed to Stage 2 of the LAQM procedure.

1.4.2 Updating, Screening & Assessment - 2003

The purpose of the Updating, Screening and Assessment report (“USA”) was to build upon the Round 1 report produced in 1999. The conclusion to the 2003 report stated:

The Updating and Screening Assessment for North Dorset District Council indicates that the objectives for all seven pollutants regulated by the Air Quality Regulations 2000 and the Air Quality (England) Amendment Regulations 2002 will be met by their target years. This is on the basis of having considered changes to the emission sources, relevant exposure, new objectives and any other changes that have taken place since the first round of assessment. North Dorset District Council is not therefore expected to move to a detailed assessment for any pollutant.

1.4.3 Updating and Screening Assessment – 2006

The Executive Summary to the 2006 report stated:

An Updating and Screening Assessment (USA) has been performed for the seven UK criteria pollutants in the District of North Dorset. The aim of this assessment is to determine whether there is the potential for exceedences of any of the UK national air quality objectives. If this potential is identified a Detailed Assessment is recommended.

The results of this USA indicate that a Detailed Assessment will not be required for any of the seven pollutants assessed. None of the UK air quality objectives are likely to be breached within North Dorset District.

1.4.4 Updating and Screening Assessment - 2009

An Updating and Screening Assessment (USA) of air quality was undertaken in 2009 on behalf of North Dorset District Council (North Dorset DC) by consultants Faber Maunsell.

At that time there was no Air Quality Management Area (AQMA) in place in the District of North Dorset. Road traffic was considered to be the main emission source of pollutants within the District.

None of the UK air quality objectives for the seven pollutants - excluding particulate matter (PM10) - were predicted as likely to be exceeded within the District. Consequently, a Detailed Assessment was not required for any of the six key pollutants. However, the USA did identify potential exceedences of PM10 at one poultry farm in the District – East Down Farm, Winterborne Whitechurch.

A Detailed Assessment was undertaken which included a period of monitoring of particulates in the vicinity of the farm. The report (January 2010) of that exercise concluded: *'From the available evidence there are no grounds for proceeding further with assessment of air quality in this location although it is recommended that developments at the site be reviewed on a regular basis provided the criteria for assessment of poultry farms in the Technical Guidance remain unchanged.'*

1.4.5 Updating and Screening Assessment - 2012

A further Updating and Screening Assessment (USA) of air quality was undertaken in 2012 on behalf of North Dorset District Council by consultants Air Quality Management Resource Centre at the University West of England.

At that time there was no Air Quality Management Area (AQMA) in place in the District of North Dorset. Road traffic was considered to be the main emission source of pollutants within the District.

None of the UK air quality objectives for the seven pollutants - excluding particulate matter (PM10) - were predicted as likely to be exceeded within the District. Consequently, a Detailed Assessment was not required for any of the six key pollutants.

However, the USA did identify a risk of exceedences of PM10 in the vicinity of a HGV vehicle wash facility in Station Road, Gillingham. It was proposed that a Detailed Assessment would be undertaken if the unit was not enclosed or relocated. It was anticipated that the lorry wash would be enclosed within a new building by the date of publication of this Progress Report – however, a series of issues with the design of the structure, relating to the acoustic performance of the enclosure, have led to delays. However, the project remains in hand and it is anticipated that construction works will commence in the near future. In the meantime, the site operators have significantly reduced the hours of operation of the unit by restricting its use solely to their own vehicle fleet, rather than allowing its use by other HGV operators. This is likely to have significantly reduced any impact of particulate emissions arising from the site.

In light of the significant reduction in usage, and the impending commencement of construction of the enclosure, the council is not proposing to proceed with a Detailed Assessment for this installation at this time.

2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

Apart from the particulate monitoring previously undertaken during in relation to the discrete PM10 'Detailed Assessment' at the poultry farm following the 2009 USA, no automatic monitoring has been deemed necessary following the earlier USA reports.

2.1.2 Non-Automatic Monitoring Sites

Non-automatic monitoring has not been deemed necessary following previous USA reports.

2.1.3 Issues raised on appraisal of the 2013 Progress Report

Enquiries with neighbouring authorities have confirmed that there are no monitoring sites in their areas in the vicinity of this District's boundaries and therefore there is no data relevant to this authority available for inclusion.

No previous monitoring has been undertaken by this authority, there is therefore no 'previous campaign' data available for consideration.

3 New Local Developments

3.1 Road Traffic Sources

See green text box below.

3.2 Other Transport Sources

See green text box below.

3.3 Industrial Sources

Planning consent has been granted, and development commenced, to erect a free-range egg-laying unit on an existing poultry farm. The new unit will be provided with mechanical ventilation and is intended to house 20,000 birds, increasing the overall site capacity to 40,000. This remains well below the threshold for further consideration (see table C.4 of LAQM.TG(09)) and will therefore not require further consideration.

3.4 Commercial and Domestic Sources

See green text box below.

3.5 New Developments with Fugitive or Uncontrolled Sources

See green text box below.

North Dorset District Council confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

North Dorset District Council confirms that all the following have been considered:

- **Road traffic sources**
- **Other transport sources**
- **Industrial sources**
- **Commercial and domestic sources**
- **New developments with fugitive or uncontrolled sources.**

4 Planning Applications

A number of sites have been identified in the Local Plan for future development; planning applications have not been submitted for the majority, but may be received for any of these sites at any time in the future:

Blandford Forum:

Two sites, to the south and south west of the town, are under consideration for future housing development. No planning application has been submitted, these sites are listed for consideration when further information becomes available.

Sturminster Newton:

Two sites, one close to the town centre, the other to the north of the town, are under consideration for future housing development. No planning application has been submitted, these sites are listed for consideration when further information becomes available.

Shaftesbury:

A large site to the east of the town is currently under development, although additional phases of residential development (in addition to original proposals) may be brought forward. No detail is available at this time, these sites are listed for consideration when further information becomes available. The impact of this development upon traffic flows on roads in surrounding areas will require further consideration when data becomes available (see also 8.2 below).

Gillingham:

Large areas to the south and east of the town have been identified for future mixed-use development. No planning application has been submitted, these sites are listed for consideration when further information becomes available.

5 Air Quality Planning Policies

National Planning Policy Framework (NPPF)

The issue of pollution (industrial air pollution) is discussed in section 11: Conserving and Enhancing the Natural Environment (paragraphs 109 – 125). Paragraph 124 of the NPPF deals with the issue of air quality stating “*Planning policies should sustain compliance with and contribute towards EU limit values or national objectives for pollutants, taking into account the presence of Air Quality Management Areas and the cumulative impacts on air quality from individual sites in local areas. Planning decisions should ensure that any new development in Air Quality Management Areas is consistent with the local air quality action plan*”. Much more is in the draft NPPG: <http://planningguidance.planningportal.gov.uk/blog/guidance/air-quality-new/what-information-is-available-about-air-quality/>. (NB: The final version of the draft technical guidance (‘NPPG’) has not been published at the time of writing.)

2003 Local Plan

In the Local Plan, Policy 1.8 sets out a series of “standard assessment criteria” which any development should meet. Criterion (i) requires compliance with the Local Plan’s Sustainable Development Strategy, one of the aims of which is “*to promote energy efficiency, conserve resources and avoid pollution*”.

The link to the Local Plan webpage:

<http://www.northdorsetlocalplan.co.uk/text/book.htm>

6 Local Transport Plans and Strategies

The current version of the Local Transport Plan (LTP 3) came into effect in April 2011 and can be viewed here: <http://www.dorsetforyou.com/localtransportplan>

This plan covers the whole of the Dorset Sub-region including Bournemouth and Poole for the period 2011 to 2026.

LTP 3 has an associated draft Health Strategy, which refers to the issue of air quality and can be viewed here:

<http://www.dorsetforyou.com/media.jsp?mediaid=164568&filetype=pdf>

Goal 4 in LTP 3 is better safety, security and health. Under this goal, one of the key challenges is “to reduce/minimise the number of areas having poor air quality as a result of road transport emissions”. The goals and challenges are set out in the LTP 3 Summary Document, which can be viewed here:

<http://www.dorsetforyou.com/media.jsp?mediaid=164555&filetype=pdf>

7 Climate Change Strategies

In Dorset, climate change is tackled mainly through the Bournemouth, Dorset and Poole Renewable Energy Strategy, the Bournemouth Dorset and Poole Energy Efficiency Strategy and the Local Transport Plan, which integrate together as set out on this diagram:

<http://www.dorsetforyou.com/media.jsp?mediaid=143171&filetype=pdf>

The individual documents can be downloaded from this page:

<https://www.dorsetforyou.com/395102>

In addition, the Authority has adopted a Carbon Management Plan to reduce carbon emissions from its own operations and has exceeded its 25% target to reduce emissions in advance of a 2014/15 target date. Specifically emissions at its main office site in Blandford Forum have decreased by 27% as a result of this work. The Council has also signed up the Climate Local Agreement - an initiative of the Local Government Association. The action plan prepared as part of this commitment includes encouraging and supporting community energy schemes, energy efficient homes and supporting local car share projects.

Updates on the Council's environmental performance including its Carbon Management Plan document are available view here:

<https://www.dorsetforyou.com/396763>

8 Conclusions and Proposed Actions

8.1 Conclusions from New Monitoring Data

No new monitoring has been undertaken within the District, no sites within neighbouring authorities are relevant; exceedence of AQ objectives has not previously been suspected. No AQMAs have been declared.

8.2 Conclusions relating to New Local Developments

Ongoing development of a large residential site to the East of Shaftesbury may impact upon traffic movements on the local road system; this will require further consideration when more up-to-date traffic data becomes available.

Other proposed development sites at paragraph 4 above will be considered when relevant details become available.

8.3 Other Conclusions

No other conclusions have been derived from other considerations at this time.

8.4 Proposed Actions

No new monitoring has been undertaken; No AQMA has previously been declared and no Action Plans have previously been required. As a consequence, it is not deemed necessary to undertake a Detailed Assessment at this time.

It is therefore proposed to submit this Progress Report; the next step will be the Updating and Screening Assessment report in 2015.

9 References

List of documents referred to in this report:

- First Stage Review and Assessment of Air Quality for North Dorset – 1999
- Round 2 Updating Screening & Assessment – April 2003
- Updating and Screening Assessment – May 2006
- Updating and Screening Assessment for North Dorset – April 2009
- Detailed Assessment for North Dorset District Council – January 2010
- Updating and Screening Assessment for North Dorset – April 2012
- Bournemouth, Dorset & Poole Structure Plan
- North Dorset District-Wide Local Plan to 2011 (1st Revision) Adopted 31st January 2003
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026 Health Strategy (Draft)
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026 Summary Document
- Bournemouth, Dorset and Poole Renewable Energy Strategy
- Bournemouth, Dorset and Poole Energy Efficiency Strategy (2009)
- North Dorset Carbon Management Plan 2009 - 2014

Appendices

- Appendix A: QA/QC Data
- Appendix B: Local Authority Permitted Processes
- Appendix C: Environment Agency Permitted Processes.

Appendix A: QA:QC Data

Diffusion Tube Bias Adjustment Factors

Diffusion tube monitoring has not been required.

PM Monitoring Adjustment

PM monitoring has been deemed not to be necessary.

QA/QC of Automatic Monitoring

Automatic monitoring has not been required.

Appendix B: Public Register of Local AuthorityPermitted
date**Permitted Processes****Public Register of Permitted Processes in North Dorset****Production of pre-mix concrete / cement batching**

Hansons, Gannets Quarry, Todber, Sturminster Newton DT10 1HS 01.09.92

Coating of metal and plastic where >5t organic solvent used in 12m

ACL Structures, Holland Way Industrial Estate, Blandford Forum DT11 7TG 13.03.97

Snashall Steel, Pulham Business Park, Pulham, Dorchester DT2 7DX 07.10.99

Powder Coating where > 20t coating powder used in 12m

Hospital Metalcraft, Blandford Heights Industrial Estate, Blandford Forum DT11 7TE 20.08.93

Dextra Lighting, Brickfields Business Park, Gillingham SP8 4PX 28.05.09

Waste Oil Burner (<0.4MW rated thermal input)

Ashley Wood, Tarrant Keyneston, Blandford Forum DT11 9JJ 05.11.92

C & O Tractors, Blandford Heights Industrial Estate, Blandford Forum DT11 7TF 06.08.01

C J Cox, Bagber, Sturminster Newton DT10 2HT 30.01.97

Crews Garage, Unit 25d, Sunrise Business Park, Higher Shaftesbury Road, Blandford Forum DT11 8ST 01.04.03

Ford Fuel Oils Limited, Gibbs Marsh Trading Estate, Stalbridge DT10 2RU 08.03.07

Petrol Vapour Recovery

Chantry Field Service Station, Chantry Fields, Gillingham SP8 4UA 18.12.98

Cornwall Group Service Station, Blandford Rd, Shillingstone, Blandford Forum DT11 0BE 11.12.98

Damory Service Station, Salisbury Road, Blandford Forum DT11 7LP 15.12.98

Forge Garage, Bourton, Gillingham SP8 5PZ 12.12.01

Ivy Cross Service Station, Shaftesbury SP7 8DS 16.12.98

Redpost Service Station, Winterborne Zelston, Blandford Forum DT11 9EU 13.01.99

Ring Street Service Station, Stalbridge DT10 7NQ 09.12.98

Riverside Garage, West Stour, Gillingham SP8 5RJ 25.11.99

Tesco Service Station, Stour Park, Blandford St Mary, Blandford Forum DT11 9PU 28.10.98

Tesco Service Station, Christys Lane, Shaftesbury SP7 8PF 27.09.04

Mobile Crushing Plant

Mark Farwell Plant Hire, Down End Farm, Stourpaine, Blandford Forum DT11 8SY 21.06.05

A D Mills Contracting, Henstridge airfield, Henstridge, Templecombe Somerset, BA8 0TN 10.09.10

Cont.../

North Dorset District Council

Dry Cleaners

Cavell Dry Cleaners, 23 High Street, Gillingham SP8 4AA	26.03.07
Impressed Dry Cleaners, 9 Barnack walk, Blandford Forum DT11 7AL	26.03.07
Johnsons Stalbridge Linen Services, Christys Lane, Shaftesbury SP7 8PH	19.04.07
Market Place Dry Cleaners, market Place, Sturminster Newton DT10 1AS	26.03.07
Blandford Laundry Services, Shaftesbury Lane, Blandford Forum DT11 7EG	18.12.07

Appendix C: List of Environment Agency Permitted Processes

Name and Address	Process type
Faccenda Group, Shillingstone Farm, Okeford Fitzpaine, Blandford Forum DT11 0RQ	Poultry production
J & G Environmental Ltd, Holland Way Ind Est, Blandford Forum DT11 7TA	Waste transfer
Walston Poultry Farm Ltd, Thorpe Farm, Winterborne Kingston, Blandford Forum DT11 7BH	Poultry production
Walston Poultry Farm Ltd, East Down Farm, Blandford Forum DT11 9AS	Poultry production
Essenen Ltd, Woodville, Stour Provost, Gillingham SP8 5SN	Poultry production
Thrive Unique Ltd, Middle Farm, Stalbridge Weston, Sturminster Newton DT10 2LA	Poultry production
Yellowstone Environmental Services (formerly Oil and Water Ltd), 20, Wincombe Business park, Shaftesbury SP7 9QJ	Waste transfer/treatment
Savage Cat Farm, Boweridge Hill, Gillingham SP8 5QR	Poultry production
Farmergy Ltd, Lowbrook Farm, Belchalwell, Blandford Forum DT11 0EQ	Biodigester and combustion
BOCM Pauls, Blandford Heights, Blandford Forum DT11 7TL	Animal feed compounder
Sigma Aldrich, The Old Brickyard, Gillingham SP8 4XT	Chemical production
Dorset County Council, Conygar Landfill Site, Castle Lane, Okeford Fitzpaine, Blandford Forum DT11 0RJ	Waste management
Mark Farwell Ltd, Downend Farm, Bushes Road, Stourpaine, Blandford Forum DT11 8SY	Waste management
J Cowley and S Kimber, Deer Park Riding Stables, White Cliff Mill Street, Blandford Forum DT11 7BN	Waste management
Dorset County Council, Gibbs Marsh Trading Estate, Stalbridge DT10 2RY	Waste management
Mr V Smith, Okeford Common, Okeford Fitzpaine, Blandford Forum DT11 0RY	Waste management
PCS South West Ltd, 8 Ambassador Business park, West Stour, Gillingham SP8 5SE	Waste management
North Dorset Stone Ltd, Manor Farm, Silton, Gillingham SP8 5PR	Waste management
Geoffrey Thompson, 8 Wincombe Business Park, Shaftesbury SP7 9QJ	Waste management
Geoffrey Thompson, All Seasons Ind Est, Higher Shaftesbury Road, Blandford Forum DT11 7TB	Waste management
Blackmore Vale Farm Cream Ltd, BV Dairy, Wincombe Lane, Shaftesbury SP7 8QD	Waste management
RM Mogridge Contracting Ltd, Knoll Farm, The Common, Okeford Fitzpaine, Blandford Forum DT11 0RT	Waste management
TF Builders Ltd, Unit 8, Brickfields Ind Est, Gillingham SP8 4JL	Waste management

End of Report