

**Delaware
Air Quality
Management**

2005

Air Toxics Strategic Plan

**Mid-year
Status Report**

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2005 Air Toxics Strategic Plan

The Air Toxics Strategic Plan (ATSP) is a five-year plan of activities to be undertaken by Air Quality Management to reduce the risk of adverse health effects caused by the inhalation of air toxics. The 2005 ATSP, finalized on 2/28/05, was organized within the following components.

- **Implement an on-going program to address the risks from exposure to air toxics**
- **Build greater understanding of ambient air toxics environment**
- **Identify potential harm from exposure to air toxics**
- **Gather information related to air toxics sources**
- **Identify options for reducing air toxics in the environment**
- **Implement appropriate actions to reduce the harm from exposure to air toxics**
- **Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics**
- **Enhance AQM Air Toxics Resources**

2005 Air Toxics Strategic Plan – 8/31/05 Summary Status

• *Implement an on-going program to address the risks from exposure to air toxics*

Key Accomplishments

- Developed and initiated implementation of the risk-based AQM Air Toxics Strategic Plan (ATSP) identifying needed activities during the 2005 to 2009 period. The scope of the AQM ATSP will be expanded and updated annually.
- Completed evaluation of air toxics area source program, established a new organization (Area Source Compliance Group), and realigned air toxic area source activities and resources accordingly.

Significant Current Activities

- Actively participating on various AQM, STAPPA, MARAMA and EPA air toxics committees. (Ongoing)
- Evaluating the potential position for a major source MACT coordinator within the Engineering and Compliance Branch. (Exp. completion – 12/05)

Pending

- Updating of the AQM Air Toxics Strategic Plan for 2006 to 2010 has been delayed pending development of guidelines from Air Toxics Planning. Guidelines should be developed and distributed to participants in 3Q05 and the 2006 ATSP finalized by year-end. (Exp. completion – 4Q05)

• *Build greater understanding of ambient air toxics environment*

Key Accomplishments

- Completed the QA/QC of DATAS monitoring results for the five air toxics monitoring stations for 2003.

Significant Current Activities

- Continuing to monitor, pending network review to meet changing resources, VOC-HAPs, carbonyls and metals at five air toxics monitoring stations. (Ongoing)
- Undertaking two special projects with University of Delaware and Duke to provide real-time monitoring of aerosols and to define spatial distribution of selected components about the Martin Luther King monitoring site, respectively. (Exp. completion – 8/06)
- Assessing air toxics monitoring needs, resources and funding for 2006. (Exp. completion – 3Q/05)
- Continuing the QA/QC of air toxics monitoring results for 2004 and 2005. (Ongoing)

2005 Air Toxics Strategic Plan – 8/31/05 Summary Status

• *Identify potential harm from exposure to air toxics*

Key Accomplishments

- Completed the 2003 air toxics emissions inventory. This emissions inventory addresses air toxics emissions from both stationary and mobile sources and will be used in the DATAS Phase II modeling programs.
- Completed the DATAS Phase I report providing risk information associated with measured air toxics concentration at the five air toxics monitoring sites. The report further addressed the development of the emission inventory that will be utilized in Phase II, the DATAS modeling strategy, the DATAS communication plan and ongoing air toxics activities.

Significant Current Activities

- Continuing local-scale modeling of the initial phase of DATAS for the five selected communities of interest. (Exp. completion – 3Q05)
- Reviewing and assessing EPA's NATA 1999 results. (Exp. completion – 9/05)

Pending

- DATAS regional-scale modeling has been delayed pending the completion of the local-scale modeling for the five communities of interest. (Exp. completion – 12/05)

• *Gather information related to air toxics sources*

Key Accomplishments

- Completed the 2003 air toxics emissions inventory. This emissions inventory allocates air toxics emissions from stationary point and area sources, as well as, on-road and off-road mobile sources.

Significant Current Activities

- Beginning the 2005 HAPs inventory planning process. (Exp. completion – 2008)

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• *Identify options for reducing air toxics in the environment*

Key Accomplishments

- Completed review of pertinent federal proposed and final air toxics rules and provided Delaware-focused comments, where appropriate.

Significant Current Activities

- Evaluating the first significant wave of proposed federal residual risk air toxics standards with the Aug. 10 proposed rulemaking for gasoline distribution terminals (GDT); other rulemaking are anticipated during 4Q05. (Exp. completion for GDT – 10/05)
- Beginning initial development of community-based air toxics risk management plans (RMP) associated with the DATAS Phase I results following management's recent approval of the planned RMP approach. (Ongoing)

• *Implement appropriate actions to reduce the harm from exposure to air toxics*

Key Accomplishments

- Adopted stringent diesel exhaust emission standards for heavy-duty diesel engines beginning with the 2007 model year into Delaware's "Regulations Governing the Control of Air Pollution".
- Adopted anti-idling requirements for on-road diesel engines into Delaware's "Regulations Governing the Control of Air Pollution".
- Adopted minor new source review requirements into Delaware's "Regulations Governing the Control of Air Pollution".
- Completed compliance inspection for 99% of the dry cleaning facilities.

Significant Current Activities

- Inspecting at least 50% of all major and synthetic minor sources of HAPs. (Exp. completion – 9/05)
- Inspecting all area source MACT facilities (excluding dry cleaners). (Exp. completion – 9/05)
- Adopting emission control requirements for lightering operation into Delaware's "Regulations Governing the Control of Air Pollution". (Final - 1Q06)
- Working with Division of Public Health on refining the initial DATAS communication plan. (Exp. completion – 4Q05)
- Assessing DATAS communication and outreach resources and funding. (Exp. completion – Resources – 4Q/05; Funding – Unknown)

2005 Air Toxics Strategic Plan – 8/31/05 Summary Status

• Evaluate the effectiveness of the actions

taken to reduce harm from exposure to air toxics

Key Accomplishments

- Completed the 2003 air toxics emissions inventory. The emissions inventory establishes a base emissions level from which the results of current and future activities can be benchmarked.

Significant Current Activities

- Beginning the 2005 HAPs inventory planning process. (Exp. completion – 2008)

• Air toxics resources development

Key Accomplishments

- Increased risk-based focus through broad participation in risk-based training programs (risk assessment and risk communication) and Air Toxics Implementation Workshop.
- Increased risk-based focus through the review and evaluation of recent proposed/finalized risk-based federal rules.
- Participated in EPA CALPUFF modeling training.

Significant Current Activities

- Assessing DATAS communication and outreach resources and funding. (Exp. completion – Resources – 4Q/05; Funding - Unknown)