

**Delaware
Air Quality
Management**

2006

Air Toxics Strategic Plan

**Mid-year
Status Report**

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2006 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 2006 ATSP, finalized on 2/2/06, was organized within the following components.

- **Implement an ongoing 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**

2006 Air Toxics Strategic Plan – Mid-year Summary Status

• Implement an ongoing program to address the risks from exposure to air toxics

Key Accomplishments

- Issued year-end status report for the 2005 AQM Air Toxics Strategic Plan.
- Updated and finalized the AQM Air Toxics Strategic Plan identifying needed activities during the 2006 to 2010 period.
- Obtained Environmental Scientist, on loan from Engineering and Compliance, to work on issuing permits and inspecting dry cleaners and auto-body shops.

Significant Current Activities

- Actively participating on STAPPA/ALAPCO and MARAMA air toxics committees and EPA's National Air Toxics Workshop planning committee. (Ongoing)
- Developing a mid-year progress report on the 2006 AQM Air Toxics Strategic Plan activities. (Exp. completion – 8/31/06)

Pending

- Despite temporary loan of a scientist, Area Source Compliance Group continues down one FTE with some lower priority activities on hold. (Exp. completion – Unknown)

• Build greater understanding of ambient air toxics environment

Key Accomplishments

- Completed a strategic monitoring for Aniline Village near the CitiSteel facility.

Significant Current Activities

- Air toxics monitoring continues in Wilmington [carbonyls, metals and VOCs] and Delaware City [VOCs]. (Exp. completion – 12/31/06)
- Reviewing data from the completed monitoring portion of a special project with UD to provide real-time monitoring capability at MLK to better characterize atmospheric aerosols. (Exp. completion – 9/29/06)
- Reviewing data from the completed monitoring of a source signature analyses project with UD. (Exp. completion – 9/29/06)

Pending

- Continued operation and maintenance of the enhanced time-resolution capabilities of the Perkin-Elmer GC/MS for VOC measurements will require additional funding [\$20,000]. (Exp. completion – Unknown)
- Development of diesel monitoring methodology/capability is on hold as grant denied. (Exp. completion – Unknown)

2006 Air Toxics Strategic Plan – Mid-year Summary Status

• *Identify potential harm from exposure to air toxics*

Key Accomplishments

- Completed DATAS Phase II local-scale modeling.

Significant Current Activities

- Developing the DATAS Phase II regional-scale modeling, which is temporarily on hold pending EPA's release of model-ready 2002 NEI emission data and the correction of bugs in the CALGRID platform. (Exp. completion – 10/31/06)

Pending

- Reconciliation of the DATAS Phase II modeling results with the 2003 monitoring results has been delayed pending completion of the regional-scale modeling. (Exp. completion – 10/31/06)
- Generation of the DATAS Phase II modeled concentrations for risk assessment by Division of Public Health has been delayed pending completion of the regional-scale modeling. (Exp. completion – 11/30/06)
- Coordination of risk assessment needs and results from the Division of Public Health for the DATAS Phase II is on hold pending completion of Phase II modeling. (Exp. completion – 2/28/07)
- Coordination of risk assessment support and stakeholder participation from the Division of Public Health for the Wilmington community-based air toxics reduction program is on hold pending start up of the stakeholder committee. (Exp. completion – 11/06)

• *Gather information related to air toxics sources*

Key Accomplishments

- Completed the final 2003 DATAS emissions inventory changes for use in the DATAS Phase II modeling.

Significant Current Activities

- Performing the technical review of the point source emissions data for the 2005 National Emission Inventory. (Exp. completion – 6/1/07)

Pending

- A full 2005 air toxics emissions inventory similar in quality and completeness to the 2003 DATAS inventory is doubtful due to staff shortage. (Exp. completion – Unknown)

2006 Air Toxics Strategic Plan – Mid-year Summary Status

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

Key Accomplishments

- Assisted Brandywine School District with submission of a diesel retrofit grant application.
- Working with various other organization, coordinated efforts to assist the Claymont Community Association [CCA]) in their application for an EPA Community Action for a Renewed Environment [CARE] grant. [CCA was not awarded the grant.]
- Obtained funding [\$50,000] for implementation of the AQM community-based air toxics reduction programs.
- Comments recommending more stringent regulatory requirements were submitted to EPA on their proposed dry cleaning facility residual risk standard and their proposed alternative leak detection methodology rulemakings.

Significant Current Activities

- Promoting CMAQ funding for air quality purposes at regular meetings of both MPOs continues. (Exp. completion – Ongoing)
- Developing the Wilmington community-based air toxics reduction program. (Exp. completion of program development – 11/06)
- Reviewing EPA's recently proposed Hazardous Organic NESHAP residual risk standard and proposed amendment to the federal maximum achievable control technology standard for combustion turbines. (Exp. completion – 10/15/06)

Pending

- Implementation of the Wilmington community-based air toxics reduction program is delayed pending completion of program development. (Exp. completion – 2007)
- Identification of air toxics source categories that broadly [i.e. county- or state-wide] contribute to adverse health impacts is on hold pending completion of DATAS Phase II modeling and risk assessment. (Exp. completion – 2007)

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

Key Accomplishments

- Obtained school bus diesel retrofit funding (\$150,000) as part of an enforcement settlement agreement.
- Completed DATAS Phase I educational outreaches in 4 communities, as well as for the Delaware General Assembly.
- Incorporated a pollution prevention display into the DATAS Phase I educational outreaches in 4 communities, as well as for the Delaware General Assembly.
- Green Energy program awarded 26 project grants totaling just over \$233,000.

2006 Air Toxics Strategic Plan – Mid-year Summary Status

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

Key Accomplishments – Cont.

- Finalized the dry cleaning source category [general] permit.
- Working with other state and local agencies, developed a polyvinyl chloride manufacturing model rule to supplant the remanded federal maximum achievable control technology standard.
- Conducted an anti-idling outreach at several truck stops.
- Provided assistance to dry cleaning businesses on AQM's new source category permit requirements and on submittal of the permit applications.

Significant Current Activities

- Issued 73 of 77 dry cleaner source category permits to all dry cleaning area sources. (Exp. completion – 9/29/06)
- Issued nearly 90% of the initial air permits to the auto body business sector. (Exp. completion – 4th Quarter 2006)
- Conducting full compliance evaluations [FCEs]; 9 of 18 FCEs from the 2006 Compliance Monitoring Strategy [Title V source] commitment list have been completed. (Exp. completion – 9/29/06)
- Conducting full compliance evaluations [FCEs]; 2 of 5 FCEs from the 2006 Compliance Monitoring Strategy [MACT area source] commitment list have been completed. (Exp. completion – 9/29/06)
- Improving gasoline tank truck certification compliance; previously compliance implementation was hindered by limited staff. (Exp. completion – 4th Quarter 2006)
- Developing the final mobile source emissions budget; Kent and Sussex Counties are nearly complete. (Exp. completion – 12/31/06)
- Developing a new regulation [Reg. 1146] to reduce mercury emissions from coal-fired utility boiler that is more stringent than current federal requirements. (Exp. completion – 11/11/06)
- Developing a new regulation [Reg. 1124, Section 46] to reduce VOC and air toxics emissions from crude oil lightering operations in the absence of any federal requirements. (Exp. completion – 12/11/06)
- Amending the new source review regulation [Reg. 1125] that will be at least as stringent as the federal requirements. (Exp. completion – 1st Quarter 2007)
- Amending the open burning regulation [Reg. 13] to reduce criteria pollutant and air toxics by extending the open burning prohibition statewide and by lengthening of prohibition season. (Exp. completion – 1st Quarter 2007)
- Beta testing facility utility data from the recently completed database that tracks the state energy consumption and costs. (Exp. completion – Unknown)
- Conducting energy efficiency and conservation outreaches with major exhibitions planned for the Delaware State Fair and Coast Day. (Exp. completion – 10/1/06)
- Developing a school environmental outreach program that includes anti-idling and other air toxics issues. (Exp. completion – Unknown)

2006 Air Toxics Strategic Plan – Mid-year Summary Status

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

Pending

- Completed 4 of 20 full compliance evaluations [FCEs] from the 2006 Compliance Monitoring Strategy [dry cleaners] commitment list; initial efforts were hindered by limited staff. (Exp. completion – 9/29/06)
- Determined that a discrete mobile source program is warranted, but implementation is on hold due to lack of funding. (Exp. completion – Unknown)
- Promotion of electrification projects at truck stops, warehouses and ports is on hold due principally to the inability to identify funding. (Exp. completion – Unknown)
- Promotion of the commuter choices program [now called Best Workplaces for Commuters] has been limited due to priorities and funding. (Exp. completion – Unknown)
- Some low priority Engineering and Compliance activities are on hold as 2 full time employees have been temporarily loaned to other AQM organizations. (Exp. completion – Unknown)
- Two energy efficiency programs [the Building Energy Codes and Energy Star programs] are temporarily on hold pending the filling of a staff vacancy. (Exp. completion – Unknown)
- Initial dialogue has begun with the Delaware Automobile and Truck Recycler's Association; however, more pressing environmental issues must be resolved before pursuing opportunities to introducing a mercury switch program. (Exp. completion – Unknown)

• *Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics*

Significant Current Activities

- Air toxics monitoring continues in Wilmington [carbonyls, metals and VOCs] and Delaware City [VOCs]. (Exp. completion – 12/31/06)

Pending

- A full 2005 air toxics emissions inventory similar in quality and completeness to the 2003 DATAS inventory is doubtful due to staff shortage. (Exp. completion – Unknown)

• *Air toxics resources development*

Key Accomplishments

- Obtained funding [\$70,000] for DATAS Phase II communications and outreach program from Cancer Consortium.