



# **Ohio EPA Pollution Prevention Strategy Implementation Update 1998 Activities**

**July 1998**

**Prepared by**

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## Executive Summary

Over the past several years, the concept of pollution prevention (P2) has grown in acceptance by business, the public, and government, including the Ohio Environmental Protection Agency (Ohio EPA). Ohio EPA has increased its pollution prevention activities in an effort to make pollution prevention happen across the state. Pollution prevention is becoming a standard part of Ohio EPA's functions. This *Ohio EPA Pollution Prevention Strategy Implementation Update, 1998 Activities (the Update)*, explains pollution prevention activities occurring at Ohio EPA between October 1, 1997 to June 30, 1998 in all of Ohio EPA's divisions and offices. This document is an update on activities which first appeared in the *Ohio EPA Pollution Prevention Strategy (the Strategy)* of September, 1994. The *Strategy* includes both comprehensive Ohio EPA activities and program and division strategies. Ohio EPA has compiled an annual update of pollution prevention activities since the publication of the initial *Strategy*. The last update, *Ohio EPA Pollution Prevention Strategy Implementation Update, 1997 Activities (the Update)*, explained activities occurring from October 1, 1996 to September 30, 1997. This year's *Update* ends with June 30 to concur with the state fiscal year.

The *Update* documents pollution prevention activities undertaken by Ohio EPA in standard activities, particularly those involving interaction with the regulated community. This includes activities in permitting, inspections, enforcement, training, outreach, technical assistance and future grant commitments.

Some highlights in the *Update* include the following:

- The Director's Office continued a pilot project for multi-media, pollution prevention inspections, provided support for hosting the National Pollution Prevention Roundtable Spring Conference in Cincinnati, and began efforts to establish an Agency-wide pollution prevention team.
- The Office of Pollution Prevention continued its pollution prevention efforts in the areas of enforcement, technical assistance, training, and information distribution.
- The Division of Air Pollution Control referenced pollution prevention to companies on its permit application cover letters, through technical assistance, in mass mailings, and during permit discussions. Pollution prevention is also encouraged in the MACT program.
- The Division of Drinking and Ground Waters encouraged pollution prevention in its wellhead protection plan reviews and began work on a fact sheet on pump and motor efficiency for drinking water and wastewater treatment plants.
- The Division of Hazardous Waste Management promoted pollution prevention through technical assistance activities, information distribution, and special initiatives. The division completed pollution prevention assessment training for inspectors and other staff. The

division also formed a pollution prevention integration team to develop a strategy for further integrating pollution prevention into the division's activities (including inspections).

- The Division of Solid and Infectious Waste Management participated in the development of the statewide Ohio Materials Exchange (OMEx).
- The Division of Surface Water promoted pollution prevention in the Toledo pollution prevention and pretreatment/combined sewer overflow project, the Statewide Management Plan for pesticides, and FARM\*A\*SYST.
- The Public Interest Center continued to promote pollution prevention in presentations, articles, and news releases.
- The Central District Office continued to promote pollution prevention with its pollution prevention team, coordinated pollution prevention assessment training for its Division of Hazardous Waste Management staff, and had OPP participate in a Title V inspection.
- The Northeast District Office participated in the multi-media, pollution prevention inspection project, and has been participating with Cuyahoga Community College and others to develop a wet cleaning demonstration project at the new FabriCare Technology Center. The office also has assisted with the Drinking Water at the Tap initiative.
- The Northwest District Office continued to promote pollution prevention with its pollution prevention team and assisted with the Drinking Water at the Tap initiative. The pollution prevention team is planning ways to further promote P2 through an outreach display effort and Internet Web page.
- The Southeast District Office participated in the multi-media, pollution prevention inspection project and coordinated pollution prevention assessment training for its Division of Hazardous Waste Management staff. The office also provided leadership and facilitation for the Division of Hazardous Waste Management pollution prevention integration team.
- The Southwest District Office obtained a grant from the Ohio Environmental Education Fund to support the new Southwest Ohio Local Government Pollution Prevention Collaborative. The office also worked with the Ohio Department of Health's Media Center to complete a short pollution prevention video, "An Ounce of Prevention," which focuses on small businesses.

Many other activities appear in the report. The *Strategy* has stimulated, and will continue to stimulate, many pollution prevention projects at Ohio EPA. The Ohio EPA and the Office of Pollution Prevention are committed to maintaining progress toward integration of pollution prevention. For further information, contact Anthony Sasson, Ohio EPA, Office of Pollution Prevention at (614) 644-3469.

## ***Ohio EPA Pollution Prevention Strategy Implementation Update***

*October 1, 1997 to June 30, 1998*

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The Ohio Environmental Protection Agency (Ohio EPA) is becoming an environmental protection Agency that strongly promotes pollution prevention (P2) and integrates pollution prevention into all Agency programs and activities. Over the past several years, the concept of pollution prevention has grown in acceptance by business, government, and the public. While much of the activity has occurred outside of environmental agencies such as Ohio EPA, there is increasing recognition that Ohio EPA can play a greater role in making pollution prevention happen. One of Ohio EPA's goals is to develop and implement pollution prevention initiatives that effectively reduce pollutants in Ohio. To do so, Ohio EPA has initiated new efforts and changed existing programs to incorporate pollution prevention into its activities. To facilitate this effort, Ohio EPA has developed the *Ohio EPA Pollution Prevention Strategy* (the *Strategy*). This document provides a basis for pollution prevention activity within the Agency, and gives numerous examples of present, planned, and future pollution prevention activities for Ohio EPA. With the *Strategy*, the Agency has made a commitment to do more and to consider pollution prevention a standard practice.

The development of the *Strategy* was coordinated by the Office of Pollution Prevention, with input and assistance from all divisions of Ohio EPA. The *Strategy* was developed between October 1992 and September 1993. The original draft was revised between October 1993 and September 1994. The *Strategy* is the result of dozens of meetings and perhaps hundreds of other communications among Ohio EPA employees. Initial development followed meetings in 1992 to solicit ideas from all of Ohio EPA's programs, divisions and district offices. Ohio EPA has compiled an annual update of pollution prevention activities since the publication of the initial *Strategy*.

The *Strategy* does not necessarily represent the final version of any Ohio EPA activity in any particular area. Ohio EPA's pollution prevention activities are dynamic and undergo continual refinement by the programs. Pollution prevention project implementation is subject to policy, funding, or other priorities.

The *Strategy* was developed through the funding support of U.S. EPA, specifically a grant through Region V to the Ohio EPA Division of Hazardous Waste Management and to the Office of Pollution Prevention under the Resource Conservation and Recovery Act (RCRA) Grant Workplan FFY'93 and FFY'94. This grant emphasized Great Lakes Basin activities. Ohio EPA developed the *Strategy* with the intent of improving the quality of Lake Erie and its Ohio drainage basin. This same grant for FFY'95 supported the *Ohio EPA Pollution Prevention Strategy Implementation Update*. This grant also was used in FFY'96 and FFY'97 to support additional annual updates. Funding from the same grant now supports the *Update* for this year's activities.

The *Update* reports on pollution prevention activities accomplished by Ohio EPA as a result of the influence of the *Strategy* and the input from all divisions. The documented activities occurred from October 1, 1997 to June 30, 1998, with mention of planned future activities. The documented activities were undertaken to implement divisional or district strategies as recorded in the *Strategy* (or as amended). Assistance, support and encouragement for all of these activities is provided by the Office of Pollution Prevention.

The information for the *Update* was provided by the offices and programs of Ohio EPA, and was compiled by the Office of Pollution Prevention. The information was exchanged through meetings, interviews, and written and electronic correspondence. Ohio EPA's pollution prevention contacts--representatives from all Ohio EPA divisions, programs, and district offices who assist in pollution prevention integration efforts--are responsible for gathering most of the information found in this report.

The *Update* includes information on the pollution prevention activities and projects of the divisions and offices of Ohio EPA. Ohio EPA's pollution prevention integration activities should experience significant increases in the future. For FFY'99, the Office of Pollution Prevention has received funding to continue to promote pollution prevention at Ohio EPA through the Pollution Prevention Incentives for States and RCRA grants. In addition, the Divisions of Hazardous Waste Management, Drinking and Groundwater, and Surface Water have included pollution prevention activities in their media grant workplans for FFY'99. There have also been special grants received that will support pollution prevention activities within various divisions of Ohio EPA.

Overall, there is a continued commitment to pollution prevention integration by every program, division and district of Ohio EPA. The Agency is on its way toward meeting its goal of emphasizing pollution prevention established under its 1991 Mission and Goals statement.

### **Director's Office**

#### *Ohio EPA Strategic Plan*

The Ohio EPA continued to complete pollution prevention activities as outlined in its Strategic Plan, the Agency's business plan that identifies areas for coordination and improved efficiency. Each division, district, and office developed a strategic plan and included pollution prevention activities in their annual plans.

#### *Ohio Environmental Performance Partnership Agreement (EnPPA)*

The FFY 1998 Ohio Environmental Performance Partnership Agreement (EnPPA) was signed between Ohio EPA and U.S. EPA in December 1997. The EnPPA is a document which will be used to direct many projects and programs throughout Ohio EPA and set a general tone for the content of the programs. Pollution prevention is covered in several areas of the EnPPA.

*Agency pollution prevention team*

Ohio EPA began efforts to establish an Agency-wide pollution prevention team to assist in the Agency's continuing efforts to integrate pollution prevention into all Agency programs. The team will use the recently developed Ohio EPA Pollution Prevention Training Plan and other resources to help identify and prioritize specific integration efforts needed to complete annual plan activities.

*National Pollution Prevention Roundtable Spring Conference*

Ohio EPA and the Governor's Office provided support and assistance in getting the National Pollution Prevention Roundtable Spring Conference in Ohio. The conference was held from April 28 to May 1 in Cincinnati. Director Schregardus was a keynote speaker and also led a working session on state P2 innovations.

*Multi-media, pollution prevention inspection pilot project*

In August, 1995, Ohio EPA developed and initiated a pilot program for multi-media inspections that include a significant pollution prevention emphasis. Goals of the effort were to:

- 1) Determine the feasibility of conducting multi-media inspections and emphasizing pollution prevention in the effort;
- 2) Increase the effectiveness of inspections, both environmentally and administratively;
- and 3) Support moves toward less need for regulation because of pollution prevention-based environmental improvements, also resulting in less Ohio EPA regulatory workload and avoidance of cross-media transfers.

In the third year of this pilot program, from October, 1997 through June, 1998, coordinated inspections have been conducted by several inspectors from different media programs during a single site visit at two (2) facilities. This brings the total number of team-based inspections in the program to 33. The Office of Pollution Prevention has provided pollution prevention information to facilities and inspectors and accompanied inspectors on each inspection.

The Office of Pollution Prevention evaluated the results of the pilot project for FFY-96 in a report, *Evaluation of Ohio EPA's Multi-Media, Pollution Prevention Inspections (M2P2) Pilot Project* (October, 1997), which includes recommendations for revising and improving M2P2 inspections. OPP is evaluating the results of the pilot project for FFY-98 and will continue evaluation efforts over the next year to determine if the inspections improve compliance, avoid cross-media transfers and increase the use of pollution prevention for compliance.

### **Office of Pollution Prevention (OPP)**

*Technical assistance*

One goal of Ohio EPA is to make technical assistance a larger part of the Agency's activities. Such assistance is a major portion of the Office of Pollution Prevention's (OPP) services. OPP has several staff assigned to providing technical assistance information for pollution prevention. On-site visits, mail, telephone and other communications and services are provided. In addition to conducting on-site pollution prevention assessments at Ohio businesses, OPP provides

information on pollution prevention facility planning to many Ohio companies by conducting meetings and facility visits. Technical assistance efforts and pollution prevention assessments are ongoing functions of OPP.

#### *Information distribution*

OPP creates, collects and distributes current pollution prevention information. OPP has developed over 60 fact sheets providing information on subjects ranging from solvent alternatives to pollution prevention regulatory integration; tens of thousands of copies of over 120 documents have been requested and distributed. In addition to its own efforts, OPP also provides pollution prevention information through other Agency and other organizations' publications and their mass mailing efforts. OPP provides presentations to about 100 groups per year, mostly business organizations. The office also assists in the planning of several pollution prevention seminars or conferences per year in cooperation with local and state business organizations and others.

#### *Pollution prevention on the Internet*

Ohio EPA's Internet World Wide Web (WWW) site provides extensive pollution prevention resource information. Interface to email also is provided, and users can contact OPP personnel from within the World Wide Web page. OPP's Web site features the following: 1) Technical Assistance Resources for Pollution Prevention (TARP2), an extensive list of resources which contains over 350 links to WWW resources relating to pollution prevention and sustainable technologies including an All Ohio Page; 2) information on pollution prevention financing from the State of Ohio and other sources of funding; and 3) a new section on P2 regulatory integration. In addition, links to pollution prevention resources and OPP's Web site have been incorporated into other Ohio EPA division's Web sites. OPP also has a World Wide Web Team to continuously improve its Web site.

#### *Enforcement*

Ohio EPA successfully incorporated one (1) new pollution prevention Supplemental Environmental Project (SEP) into finalized enforcement settlements from September, 1997, to June, 1998. This makes a total of 70 pollution prevention SEPs incorporated in Ohio EPA enforcement settlements since 1991 (including five P2 SEPs that were not reported in last year's Update).

The following activities illustrate OPP's strong commitment to increasing the use of pollution prevention SEPs in Ohio enforcement settlements, which benefit the environment, the Agency and the company:

- OPP works regularly with Ohio EPA enforcement and legal staff and the Ohio Attorney General's Office to incorporate appropriate pollution prevention SEPs into settlement negotiations. OPP regularly reviews submittals from companies or organizations that are

performing pollution prevention SEPs, and makes recommendations to them through the responsible divisions or Attorney General's Office.

- OPP has attended divisional Enforcement Committee meetings to inform participants about pollution prevention and look for opportunities to use pollution prevention SEPs in enforcement settlements.
- OPP has made numerous presentations to Agency staff at central and district Offices, and the Attorney General's Office encouraging the use of pollution prevention SEPs.
- OPP prepares case studies and fact sheets that document the successful incorporation of pollution prevention SEPs into enforcement settlements (which are used primarily to encourage the use of pollution prevention SEPs within the Agency). Also, OPP created new forms and procedures for tracking P2 SEPs.

#### *Pollution Prevention Loan Program*

The Pollution Prevention Loan Program is a joint effort between the Ohio Department of Development and Ohio EPA, OPP, who reviews technical adequacy. The objective of the Pollution Prevention Loan Program is to provide low interest capital improvement loans for the construction and/or purchase of equipment to complete pollution prevention activities at small and medium sized businesses (businesses with 500 employees or less) and facilities throughout Ohio.

As of June, 1998, Ohio EPA has approved 64 Technical Review Worksheets, and the Department of Development has made approximately \$4.2 million in loans available to 21 companies.

#### *Voluntary programs*

OPP organizes and promotes pollution prevention voluntary programs throughout the state of Ohio. These programs effectively promote pollution prevention in a non-regulatory manner. The voluntary programs OPP supports, develops, and/or promotes are: Ohio Prevention First (Ohio's voluntary pollution prevention planning initiative), Ohio Green Lights Program, the Governor's Awards for Outstanding Achievement in Pollution Prevention (these awards are given annually), Tri-State Geographic Initiative, and the U.S. Auto Project.

#### *Pollution prevention training plan and Agency-wide P2 team*

OPP selected a contractor, Greiner Environmental and Kerr and Associates, Inc., to prepare an Agency-wide pollution prevention training plan in FFY 1997. The plan was designed to train staff and managers in pollution prevention, illustrate specific examples of how to use pollution prevention in Agency activities, and generally increase pollution prevention integration throughout the Agency. OPP revised the plan in April, 1998, and plans to use it in coordination with the new Agency-wide pollution prevention team.

OPP, in coordination with the Director's Office, began efforts to establish an Agency-wide team to assist in integrating pollution prevention into all Agency programs. Team members were

selected in a manner to ensure a balance of representation between management and staff, and divisions and districts. The team will use the recently developed Ohio EPA Pollution Prevention Training Plan and other resources to help identify and prioritize specific integration efforts needed to complete annual plan activities. Additional funding will be provided by U.S. EPA to obtain a contractor to help support the team's efforts. The initial team meeting is planned for August or September.

#### *National Pollution Prevention Roundtable*

The National Pollution Prevention Roundtable (NPPR) held its national spring conference in Cincinnati, Ohio, from April 28 - May 1. Over 600 people attended the conference. A number of OPP and other Agency staff participated in the conference, making presentations at various working sessions, helping with setup and conference planning, and working at various display booths. Special thanks goes out to the Governor's and Director's Office for their support and assistance in getting the conference in Ohio, and to the numerous Agency staff who were able to attend and participate. In addition, Anthony Sasson of OPP received an award for his years of dedication and hard work on the NPPR. Partners for the event include U.S. EPA (Cincinnati), the City of Cincinnati, the Institute of Advanced Manufacturing Sciences, and the states of Indiana and Kentucky.

#### *Sector-based pollution prevention project*

OPP met with the Automotive Service Association of Ohio in May to kick off a pollution prevention sector project for the automotive mechanical and body repair industry. The project will likely include the production of a compliance manual with a pollution prevention emphasis. The association will apply for an Ohio Environmental Education Fund grant to partially finance the project.

### **Division of Air Pollution Control (DAPC)**

#### *Permit application cover letters*

All companies requiring an air permit from Ohio EPA are sent a package of information, which includes the permit application, by DAPC. The cover letter to this package urges the company to investigate pollution prevention and energy conservation, and it refers them to OPP for further information. This information appears on all permit package cover letters from DAPC, including permits to install and permits to operate.

#### *Pollution prevention in mass mailings*

DAPC disseminated a letter to 350 Title V facilities affected by upcoming MACT standards. The letter encourages the facilities to investigate pollution prevention options as a possible means to comply with MACT control requirements. A mailing also was distributed to approximately 12,000 mostly small and medium-size facilities exempt from Title V, but that may have other regulatory requirements. This mailing also included information on pollution prevention.

*MACT team meetings*

OPP attended MACT Team meetings in January, March and May. OPP plans to provide P2-related information to the team for upcoming MACT standards. Also, OPP met with DAPC's MACT coordinator in June to discuss source categories that may be good targets for P2 efforts.

*Technical assistance*

DAPC offers technical assistance on regulatory compliance and permitting questions to all of the companies it regulates. DAPC offers pollution prevention technical assistance to the regulated community when they express an interest or question in this area. DAPC, when faced with a pollution prevention question they cannot answer, refers companies to OPP for more detailed pollution prevention information.

*Permits*

The permit writers in DAPC work with the regulated entities to negotiate acceptable permit conditions. Often these discussions provoke companies to make changes at their facilities to relieve a permit burden. DAPC permit writers discuss pollution prevention with applicants as an option to be included in their permit. This activity is done on an individual basis, depending on the comfort of the permit writer, and is not required (but is encouraged and accepted) by DAPC.

*Video teleconferences*

DAPC downlinks and makes available to other Agency members many televised teleconferences which include pollution prevention information. The teleconferences are sponsored and developed by various groups and are broadcast frequently. These teleconferences can be a valuable source of current pollution prevention technical and integration information. Teleconferences included content relevant to pollution prevention, such as that on NESHAPS for the wood furniture industry.

*Small Business Assistance Program*

The Small Business Assistance Program (SBAP) is a division of DAPC that offers confidential technical assistance to small businesses. This can include technical assistance on-site, over the phone, or through correspondence. SBAP is including pollution prevention information about rules and MACT standards to small business posted on SBAP's World Wide Web site.

*Office practices*

DAPC is committed to extensive recycling within the office. During the last year, DAPC has used electronic document transfer, especially for Title V permitting.

**Division of Drinking and Ground Waters (DDAGW)***Drinking Water at the Tap*

Drinking Water at the Tap is a Division of Hazardous Waste Management compliance assurance initiative targeting hazardous waste handlers in Ohio communities who have the potential of negatively affecting groundwater resources for public water supplies. DDAGW participated in outreach activities including source reduction assistance as an important part of the initiative.

#### *Wellhead protection plans*

The Ground Water Section reviewed 40 wellhead protection plans from October, 1997 through June, 1998. Pollution prevention is mentioned specifically as a "strongly recommended" management option in a three page "boilerplate" guidance that accompanies wellhead protection plan reviews.

#### *Engineering and Operations Section P2 Workgroup*

The Engineering and Operations Section (E&OS) of DDAGW established a workgroup to identify ways to incorporate pollution prevention into divisional activities. It was decided that promoting efficiency in pumping systems in water treatment plants would be beneficial, since it is generally known that pumping systems represent a large portion of energy use in water treatment. The workgroup may identify other P2 efforts that should be considered.

#### *Fact sheet on pump and motor efficiency*

DDAGW began work on a fact sheet about pump and motor efficiency with drinking water and wastewater treatment plants as the primary targets. Class I injection well facilities also will receive the fact sheet. The group working on this project met twice and individuals have been assigned various sections of the fact sheet.

#### *Meeting with the Office of Pollution Prevention*

DDAGW staff met with OPP in April to discuss options for integrating P2 in DDAGW programs.

### **Division of Emergency and Remedial Response (DERR)**

#### *Potential solvent elimination*

DERR has finalized a Work Plan to evaluate the decontamination process for field equipment.

A study has been proposed to demonstrate that use of a solvent rinse is not needed as a part of this process.

### **Division of Hazardous Waste Management (DHWM)**

#### *Pollution prevention assessment training*

DHWM completed its fourth and final pollution prevention assessment training for inspectors and other staff at the district offices. The last session was held in October for SEDO and CDO at Columbus Coated Fabrics. DHWM's contractor, Waste Reduction Institute, conducted the

training session. The training included integrating pollution prevention activities into current job duties.

#### *DHWM pollution prevention team and pollution prevention strategy*

In conjunction with the assessment training sessions, DHWM formed a pollution prevention integration team to develop a strategy for integrating pollution prevention further into the division's activities (including inspections). The team held a meeting in December with John Jaimez of the Waste Reduction Institute. Jaimez made several recommendations for P2 integration.

The team presented its draft strategy to its guidance team and DHWM managers in March. The draft was well received, and meetings were held at each district office in April to allow staff to provide comments to team members. The strategy was finalized in May by DHWM managers, and the division has begun taking the necessary steps to prepare for P2 integration. These steps include revising procedures manuals and inspection tools to include P2, updating position descriptions, revising work unit values, developing and implementing training for staff and managers, and preparing a Memorandum of Agreement with OPP. Future plans also call for forming teams in the Compliance Assurance Section to assist in implementation activities. DHWM is expected to "officially" begin P2 integration in inspections in SFY 2000 (July 1, 1999).

#### *Drinking Water at the Tap*

Drinking Water at the Tap (DWATT) is a DHWM compliance assurance initiative targeting hazardous waste handlers in Ohio communities who have the potential of negatively affecting groundwater resources for public water supplies. Outreach activities including source reduction assistance are an important part of the initiative. The DWATT planning committee completed a pilot study in September, 1997. Training for the final implementation of the initiative began in October. A mailing for the initiative was sent in October and November to almost 1500 companies that have the potential to impact key ground water resources. Inspectors visited some of these companies to help them identify potential ground water pollution sources, such as chemical storage areas, floor drains, septic systems and underground piping. A site map database (of facilities adjoining groundwater wells) has been developed for use by the district offices. In addition, a DWATT World Wide Web site has been developed, along with several fact sheets. Information on pollution prevention and references to OPP have been included in these materials.

#### *Temporary Storage and Disposal (TSDF) Facility Permits*

Waste minimization plans for TSDF facilities are required as a special condition for Ohio's hazardous waste Part B permits. DHWM receives the waste minimization plans from the company and OPP assists in plan technical review.

#### *Technical assistance*

DHWM provides extensive technical assistance on hazardous waste issues to the regulated community and public in Ohio. Pollution prevention options and information are frequently given

to people both over the phone and in written communication. Several DHWM technical assistance providers are familiar with pollution prevention issues. The goal of this technical assistance is to help companies to reduce their waste stream, thus reducing the company's regulatory burden. Questions that cannot be answered by DHWM are referred to OPP.

#### *Information distribution*

DHWM distributes pollution prevention information to companies in various ways. DHWM's quarterly, external newsletter contains a pollution prevention article in each issue. This activity will continue in future issues and is standard for their newsletter. DHWM worked with OPP to develop fact sheets on dry cleaning and automotive repair facilities which are distributed by both OPP and DHWM. DHWM routinely produces other fact sheets containing pollution prevention information. Pollution prevention information appears on the Internet on the DHWM World Wide Web page. Pollution prevention is often included as a topic in DHWM presentations. The DHWM Annual Report mailing included pollution prevention information and fact sheets. The mailing is distributed to approximately 2000 hazardous waste facilities.

#### *Pollution prevention information distribution*

The Compliance Assurance Section routinely distributes and references pollution prevention information to internal and external customers.

### **Division of Solid and Infectious Waste Management (DSIWM)**

#### *Ohio Materials Exchange (OMEx)*

The statewide Ohio Materials Exchange (OMEx) was officially launched in October. The OMEx brings together several state agencies (including Ohio EPA), solid waste district sponsored regional programs, and Ohio's regulated community in a cooperative effort to reduce the amount of waste being disposed in Ohio's landfills. To spread the word, staff contacted Ohio EPA newsletters and various outside organizations to request the OMEx announcement be published in their newsletters. Over seven Ohio EPA divisions, seventeen organizations, and solid waste management were notified of the program. Approximately 85,000 individuals on the mailing list readership were notified through the newsletters. An information sheet, listing form, and brochure are available and will be distributed at meetings, seminars, workshops, etc. Funding for the OMEx was provided in part by an Ohio Environmental Education Fund grant.

#### *Ohio Materials Information Exchange (OMX) list server*

In addition to the statewide Ohio Materials Exchange, the Ohio Materials Information Exchange (OMX) list server (a computerized list server), was developed in March. This is the first (known) list server of this type developed by a state agency. The list server is currently available for subscribers seeking information on reduction and recycling industrial waste.

A fact sheet for the OMX list server was prepared and is being distributed. OPP and Data and Systems launched a second list server, the Materials Exchange Listserve (MEL), for national use.

The automated list servers are available free of charge for subscribers seeking information on reduction and recycling industrial waste. Nancy Moore (DSIWM) is a contact for information regarding the list servers.

#### *Newsletter*

Since its first publication in the spring of 1995, DSIWM's Solid Waste News has printed articles on pollution prevention.

### **Division of Surface Water (DSW)**

#### *Toledo pollution prevention and pretreatment/combined sewer overflow project*

The Toledo Pollution Prevention (P2) Project is funded by grants from both U.S. EPA and the Ohio Environmental Education Fund. Its purpose is to demonstrate the environmental, economic, and social benefits industry can realize by applying pollution prevention techniques. The project focuses on reducing the quantity of pollutants in wastewater discharges to the city's sewage system from industries in the Toledo area.

After experiencing start-up problems in the summer of 1997, the project consultant, Jones and Henry Engineers, Ltd., and their subcontractor, Edison Industrial Systems Center (EISC), presented a new recruitment approach. Ohio EPA agreed to allow the project to move forward on a provisional basis, and a new contract with Jones and Henry was signed in December. A condition of this agreement was that at least five industries commit to participate in the project.

In the spring of 1998, the project team, consisting of Jones and Henry, City of Toledo, Edison Industrial Systems Center (EISC), and Ohio EPA staff approved the participation of five Toledo area industries. The industries are Whitaker Systems, Supreme Bumpers, Country Fresh Dairy, Calphalon Corporation, and Brent Industries. BTL Resins and Neste Resins will serve as alternates should any of the first five industries fail to work out.

Preliminary pollution prevention assessments at each of the five participating industries are nearing completion. Once targeted pollutant sources have been identified, the project contractors shall work to develop effective and cost efficient alternatives to reduce pollutant loadings to the sewerage system owned by the City of Toledo.

Work also began on a Quality Assurance Project Plan (QAPP), required as a condition of the U.S. EPA grant. The QAPP will describe in detail the monitoring program to demonstrate the effectiveness or shortcomings of the P2 measures implemented as part of the project. Development of the QAPP will require close coordination between the project contractor and Ohio EPA who will be responsible for the transport and analysis of project samples.

#### *Statewide pesticide management plan workgroup*

The Nonpoint Source/Clean Lakes Unit of the Watershed Programs Section continues to be involved in the workgroup developing the State Management Plan (SMP) for pesticides. The generic management plan was completed and submitted to U.S. EPA. A revised document, addressing U.S. EPA comments, is scheduled to be completed in 1998. The emphasis of the plan is on pollution prevention.

#### *Farm\*A\*Syst*

The Nonpoint Source/Clean Lakes Unit of the Watershed Programs Section is serving as coordinator of this Clean Water Act Section 319 funded statewide initiative. The project Coordinating Committee identified twelve topical worksheets to be developed reflecting Ohio's environment and regulations/guidelines. Worksheet authoring/editing teams have been established and first drafts of 9 of the 12 worksheets have been prepared. Negotiations are underway with the Ohio State University Extension regarding the evaluation and pilot testing of several delivery methods for the program. The entire project has a pollution prevention focus.

#### *Great Lakes Water Quality Guidance*

DSW adopted rules to implement U.S. EPA's Great Lakes Water Quality Guidance. The rules contain several P2 components and a definition of pollution prevention. They became effective on October 31.

#### *P2 in Permit to Install/Plan Approval Application*

DSW includes a section in their Permit to Install/Plan Approval Application that asks if pollution prevention concepts have been considered for the project. If so, the applicant is encouraged to describe them.

#### *Pretreatment Monitor*

P2 information is often included in DSW's Pretreatment Monitor, a newsletter published two or three times a year by pretreatment staff and sent to POTWs in the state. A recent edition contained several P2 related articles including pollution prevention tips, information on a silver reduction and recycling workshop, and an article on the pesticide formulating, packaging, and repackaging industry.

#### *Computer Use*

The Information and Resources Management section continues to make better use of the World Wide Web for information distribution in order to reduce numbers of hard copies sent out. Examples of the use of this resource are to disseminate DSW information about the Great Lakes Initiative and the addition of technical support documents to DSW's home page.

### **Operations and Facilities**

#### *Honda natural gas powered Civic line-off ceremony*

Representatives from the Motor Pool, OPP, and the Director's Office attended a line-off ceremony at Honda of America, East Liberty, in April for the new natural gas powered Civic GX.

Governor George V. Voinovich and Director Schregardus participated in the ceremony. Ohio EPA purchased the first Civic GX off the line. The Civic GX emits one-tenth the hydrocarbon emissions of the stringent Ultra Low Emission Vehicle standard and reduces greenhouse gas emissions by more than 20 percent--producing almost zero emissions--while retaining superior fuel economy. Ohio EPA is considering purchasing more of these vehicles.

#### *Motor Pool purchasing ethanol powered vehicles*

The Motor Pool also has purchased several new Flexible Fuel Vehicles (FFVs)--Ford Taurus FFVs. The Taurus-s can run on either regular gasoline or an 85 percent ethanol blend (E85).

### **Public Interest Center (PIC)**

#### *Governor's Awards for Outstanding Achievement in Pollution Prevention*

The Governor's Awards for Outstanding Achievement in Pollution Prevention are distributed annually to Ohio companies displaying exemplary achievements in the area of pollution prevention. The company application and selection process is organized by OPP, with media and Governor relations assistance from PIC. PIC promoted the Governor-s Awards presentation in December, 1997, and issued a news release in May, 1998, regarding nominations for the Governor-s Pollution Prevention Awards.

#### *Ohio Prevention First*

Ohio Prevention First is a voluntary program that was initiated by the Governor to promote pollution prevention planning by Ohio companies. PIC works with OPP to create biannual progress reports for this voluntary program. PIC also created and distributed recognition certificates to Ohio Prevention First companies participating at the Leadership or Partnership level.

#### *Presentations and meetings*

PIC prepares all official comments and opening remarks for Ohio EPA's public meetings. When preparing opening remarks for a public meeting, PIC will include a brief summary statement about pollution prevention relevant to the environmental issue being discussed. All speeches PIC prepares for the Director's Office or other Ohio EPA staff contain pollution prevention information. In addition, pollution prevention brochures and fact sheets are distributed at all public meetings and other public events.

#### *News releases and media coverage*

PIC is the Ohio EPA entity responsible for dealing with the press and releasing information to various news sources. PIC always highlights pollution prevention efforts in news releases about permits issued or enforcement cases settled. In another example, PIC stressed P2 messages while publicizing the restart of the E/Check vehicle emissions testing program in Cincinnati (e.g., maintaining the vehicle to emit less over the long term; not overfilling the gas tank to prevent emissions). In addition, PIC continues to send news releases about OPP activities such as the

Ohio Prevention First report and the National Pollution Prevention Roundtable conference. PIC also publicized the new Ohio Materials Exchange (OMEx) with a news release and several media interviews, including a TV interview on Ohio News Network.

*Ohio EPA's Recognition of Superior Pollution Prevention (or Reduction) Accomplishments*

PIC helped introduce and promote the Ohio EPA's Recognition of Superior Pollution Prevention (or Reduction) Accomplishments award program. PIC also promoted the first winner, PPG Industries of Chillicothe.

*Articles and electronic information distribution*

Pollution prevention articles often appear in the Ohio EPA *New(s) Source* and *Environment Ohio*, two Ohio EPA publications. *Environment Ohio* is the Ohio EPA periodical widely distributed to the public; *New(s) Source* is distributed mostly to Ohio EPA employees. Both are Ohio EPA / PIC publications. PIC also pursues coverage in trade publications to promote pollution prevention.

PIC began scanning newspaper articles so that they can be viewed electronically, avoiding distribution of some paper copies of articles. PIC is continuing to work on improving the system.

In addition, PIC is investigating the feasibility of distributing Ohio EPA news releases electronically to some news organizations. PIC also continues to add more information to the Ohio EPA World Wide Web site.

*Office of Pollution Prevention display*

PIC helped the Office of Pollution Prevention create a display for the National Pollution Prevention Roundtable conference in Cincinnati in April. OPP has used the display at other events, too.

**Central District Office (CDO)**

*Central District Office pollution prevention team*

The Central District Office pollution prevention team continues to hold regular meetings and works to promote integration of pollution prevention in district and division activities. Meeting topics have included P2 case study presentations by CDO staff, P2 video presentations, and presentations by OPP on P2 resources on the Internet.

*DHWM and pollution prevention assessment training*

CDO participated in the DHWM Pollution Prevention Assessment Training at Columbus Coated Fabrics on October 7, 8 and 9.

*Title V inspection*

The Office of Pollution Prevention accompanied CDO on a Title V inspection at Owens Corning, OEM Solutions Group, Hebron, in February, for cross training and technical assistance.

*CDO recycling*

CDO continues their recycling program through Rumpke Recycling and recycles almost all paper, envelopes, newspapers, magazines, and telephone books.

*Information distribution*

Fact sheets and other printed pollution prevention information are displayed at CDO. Inspectors are encouraged to take pollution prevention information on inspections. CDO has increased its own library of pollution prevention information and now keeps a collection of all documents listed on OPP's *Pollution Prevention Information Available from Ohio EPA* sheet. This information is for use by CDO staff.

*Small Business Assistance Office*

Ohio EPA established a small business technical assistance program for all environmental media, located in CDO. The office distributes pollution prevention information, refers companies to OPP, and includes pollution prevention information in their newsletter.

**Northeast District Office (NEDO)***Multi-media, pollution prevention inspection pilot project*

NEDO participated in an M2P2 inspection at Wooster Iron & Metal in Wayne County in March.

*Department of Development meeting*

A November meeting between NEDO representatives and the Ohio Department of Development representatives from Youngstown, Cleveland and Akron included discussions on pollution prevention. The Department of Development was interested in updating their knowledge of Ohio EPA policies and procedures so that they could better assist emerging businesses with environmental issues. All divisions as well as the district chief emphasized the importance of reducing waste at the source as a means of lowering costs and easing environmental regulatory obligations. They also noted the P2 resources available from Ohio EPA and how to contact OPP. The response was very enthusiastic.

*Drinking Water at the Tap (DWATT) and City of Wooster*

In conjunction with DHWM's DWATT Initiative, NEDO conducted a mini DWATT initiative in Wooster in October and November. The city of Wooster had been identified as the number one DWATT priority community in NEDO. The standard generator compliance evaluation inspection was conducted; pollution prevention and ground water protection information was supplied to the generators. Staff from CO-DHWM and NWDO-DHWM also participated in this initiative.

*FabriCare Technology Center*

DHWM/NEDO is participating with Cuyahoga Community College and others to develop a wet cleaning demonstration project at the new FabriCare Technology Center in Cleveland. The site

will give area cleaners and their employees a hands-on location to both observe alternative fabric-cleaning technologies and learn how to put them to use in current operations. A grand opening of the center is scheduled for July, 1998.

#### *DSIWM recycling assistance*

DSIWM provided recycling information on freon appliances, computer equipment, paint, and wooden pallets to inquiries from the public and private sectors.

#### *Information distribution*

DHWM is providing general P2 information on Ahotlines@ calls and inspections. For example, DHWM worked with a company to install a silver recovery unit for photoprocessing waste water. Also, NEDO has a carousel in the district office's lobby to display and distribute pollution prevention information.

#### *Promotion of pollution prevention*

NEDO staff continues to promote pollution prevention in inspections, inspection letters, speeches and other outreach activities. For example, DHWM gave a slide show and Enviroscene demonstration to students at Davey Middle School in Kent. The presentation emphasis was on water pollution/quality and personal pollution prevention at home. NEDO also is providing representation on the DDAGW group to develop a fact sheet about pump and motor efficiency.

#### *P2 for DHWM staff*

DHWM has begun integrating P2 into interview questions and Professional Development Plans.

### **Northwest District Office (NWDO)**

#### *NWDO pollution prevention team*

The NWDO P2 Team held monthly meetings from October through June. Discussions focused on the development of a pollution prevention public outreach display and Internet web site. Some of the meetings included representatives from the City of Toledo, Division of Environmental Services (DES), Toledo Zoo, and Bowling Green State University.

The efforts of the team, particularly Toledo DES, led to the approval of a grant from Owens Community College in June (these grant funds were originally obtained from U.S. EPA). The grant will be used to fund a web site specific to northwest Ohio that will include information on consumer P2 practices. The team will meet again in July to discuss construction of the web site and proposals for future grant activities. OPP is an advisor to the team and is working with the team leader to develop goals and potential next steps.

#### *Information distribution*

DHWM continues to include pollution prevention tracking in its monthly report. DHWM also continues to discuss pollution prevention in inspections and distribute information.

*Drinking Water at the Tap*

For NWDO, the Drinking Water at the Tap initiative came to a conclusion with the end of the state fiscal year. During these inspections, P2 information was handed out and the P2 checklist was filled out.

*New Environmental Specialist 3 (ES 3) position*

NWDO/DHWM has created a new ES 3 position whose responsibilities include P2 activities as well as other compliance assurance activities. The ES 3 will be acting as a lead worker and project coordinator for any P2 activities the division undertakes.

**Southeast District Office (SEDO)***Multi-media, pollution prevention inspection pilot project*

A multimedia pollution prevention inspection was conducted at Glacier Vandervell, Inc., Caldwell, on October 15.

*P2 and DHWM inspection*

OPP accompanied DHWM on an inspection of Hancock Manufacturing, of Toronto, Ohio, to assist in identifying solvent alternatives and other P2 opportunities for the facility.

*DHWM and pollution prevention assessment training*

SEDO participated in the DHWM Pollution Prevention Assessment Training at Columbus Coated Fabrics (CCF) on October 7, 8 and 9.

*DHWM pollution prevention integration team*

SEDO provided leadership and facilitation for the DHWM pollution prevention integration team.

*Pollution prevention video*

SEDO helped SWDO coordinate some video footage of Columbus Coated Fabrics for use in a pollution prevention video that focuses on small business.

*Lighting assessment and recycling program*

SEDO completed an assessment of its existing lighting at the office in Logan. The report was reviewed by OPP and recommendations were made. SEDO is presently making several renovations to its building, including extensive roofing work. An energy efficient lighting upgrade is planned upon completion of these renovations. In addition to these activities, SEDO continues its formal office recycling program. SEDO recycles paper, plastic, glass, aluminum, newspaper, catalogues, magazines, cardboard, and Tyvek envelopes.

*P2 messages on new phone system*

SEDO's Quality Services through Partnership group for improving the district's phone system, the Ringy Dingys, is examining placing P2-related messages on the district's new phone system.

The proposed message system would allow callers placed on hold to hear pollution prevention information including recycling tips. Current plans consist of working with OPP and PIC to produce a compact disc of positive pollution prevention suggestions and music for use with the phone system. Work on the production should begin in August 1998.

#### *Information distribution*

SEDO has a carousel in the SEDO lobby to display and distribute pollution prevention information to companies and the public. All SEDO inspectors are encouraged to take pollution prevention information on inspections, and several inspectors have provided P2 information to facilities.

### **Southwest District Office (SWDO)**

#### *Southwest Ohio Local Government Pollution Prevention Collaborative*

The Southwest District Office received a grant from the Ohio Environmental Education Fund to support the Southwest Ohio Local Government Pollution Prevention Collaborative. SWDO, the Office of Pollution Prevention, the City of Cincinnati, and the Institute of Advanced Manufacturing Sciences are partners in this project, which held its first meeting in January in Cincinnati. Additional meetings were held in April, May, and June. OPP gave a presentation on energy efficiency and the Pollution Prevention Loan Program at the June meeting.

The Collaborative is holding a series of meetings geared toward training local government officials from diverse areas such as purchasing, vehicle maintenance, utility engineering, air pollution inspection, and community landscaping. Key to these events will be information sharing on initiatives and successes among southwest Ohio local governments. Participants will learn about saving money and improving the environment and regulatory programs through P2. Examples include the City of Cincinnati's efforts to reduce air pollutants in traffic paints and encourage citizen participation through programs such as Waste-Free Fridays. It is anticipated that the Collaborative will become permanent in southwest Ohio and then expand to the rest of the state.

#### *Pollution prevention video*

SWDO and the Ohio Department of Health's Media Center completed production of a pollution prevention video that focuses on small business. The video, "An Ounce of Prevention," was funded by an Ohio Environmental Education Fund grant. The video was distributed to numerous Chambers of Commerce, cable television government/public access stations, governmental agencies, consultants, schools, libraries, environmental organizations, and businesses, covering 23 states and three foreign countries.

#### *Office recycling program*

SWDO continues to recycle paper, aluminum, glass, Tyvek envelopes, cardboard, and plastic.

**Earth Day Every Day Committee**

*Recycling aluminum*

The Earth Day Every Day Committee recycled 821 pounds of aluminum collected at 1800 WaterMark Drive from October, 1997 through June, 1998. Numerous barrels of plastic, steel and glass as well as newspapers also were recycled. The committee coordinates and manages recycling at the Central Office.