

**FY2001 Self Assessment
on the 1999 Environmental
Performance
Partnership Agreement**

January 2002
Minnesota Pollution Control Agency
United States Environmental Protection Agency

2001 Self Assessment

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Introduction

The Minnesota Pollution Control Agency (MPCA) and the U.S. Environmental Protection Agency's (EPA) Region 5 office continues to implement the National Environmental Performance Partnership System (NEPPS) with the publication of the 2001 Self Assessment. Initiated in 1995, NEPPS is a major effort to introduce accountability, flexibility, and a focus on environmental results into the state and federal environmental protection system.

The NEPPS process consists of three main elements:

1. The Self-Assessment -- a broad assessment of a state's environmental conditions and a state's and EPA's progress in protecting the environment; and
2. The Environmental Performance Partnership Agreement (EnPPA) -- a description of a state's and EPA's proposed environmental protection strategies for the next few years.
3. The Performance Partnership Grant (PPG) – the dollars to accompany the commitments.

The EnPPA serves as an environmental directions document for the Minnesota Pollution Control Agency. The EnPPA contains the mutually agreed upon goals, objectives, measures and activities that both agencies will jointly pursue in protecting the Minnesota's environment. The Self-Assessment serves as the progress report on how each agency is doing in fulfilling the goals of the EnPPA.

The 2001 Self-Assessment covers the period of July 1, 2000 to September 30, 2001. The unusual 15 month time frame is a result of MPCA reverting back to a Federal Fiscal Year rather continuing to use the state fiscal year. This was done to provide more flexibility in using the PPG dollars and put the EnPPA on an off MPCA budget cycle year, spreading out the enormous effort of both projects.

The MPCA will be reporting on only those EnPPA activities that are required by EPA to continue State delegation and grant funding. The MPCA is doing this for 2 reasons: 1) to provide EPA with a clear, accurate report that allows continued funding of MPCA programs; and 2) to provide a more succinct, more streamlined report focused on environmental outcomes of interest.

This Self-Assessment must be used in conjunction with the previous 2000 Self-Assessment in order to provide the reader with an accurate picture of progress over the 27 month EnPPA. This Self-Assessment does not include other MPCA efforts that are funded using state dollars.

Agency Program Overview

The following narratives provide an overview of the agency's progress in protecting the environment and a description of the broad strategies that we will employ in the future to continue our environmental protection work. The narrative is divided into four sections, they are: air, land, water and integrated environmental programs. A detailed description of the specific activities conducted by the agency is contained in the matrices.

Program Overview: Air

The federal Clean Air Act (CAA) is the national environmental framework for protecting public health and the environment from air pollution. The CAA and U.S. Environmental Protection Agency (EPA) regulations set the standards for air quality. States implement them through various programs using regional or site specific strategies. In 1990, the CAA was amended to dramatically expand the air program in Minnesota and nationwide through the assessment of air emission fees, new permit and compliance requirements, and hazardous air pollutant control activities. In 1997, the EPA developed new, more restrictive standards for ozone and particulate matter. In 1998, the EPA finalized a new program to reduce regional haze and also began considering issues related to global climate change. The ozone and particulate matter standards are being legally contested. Global climate change continues to develop as an issue of environmental concern. The EPA and other states are moving ahead in planning for the regional haze reduction program.

The primary goals of the Protecting the Air Program are the following:

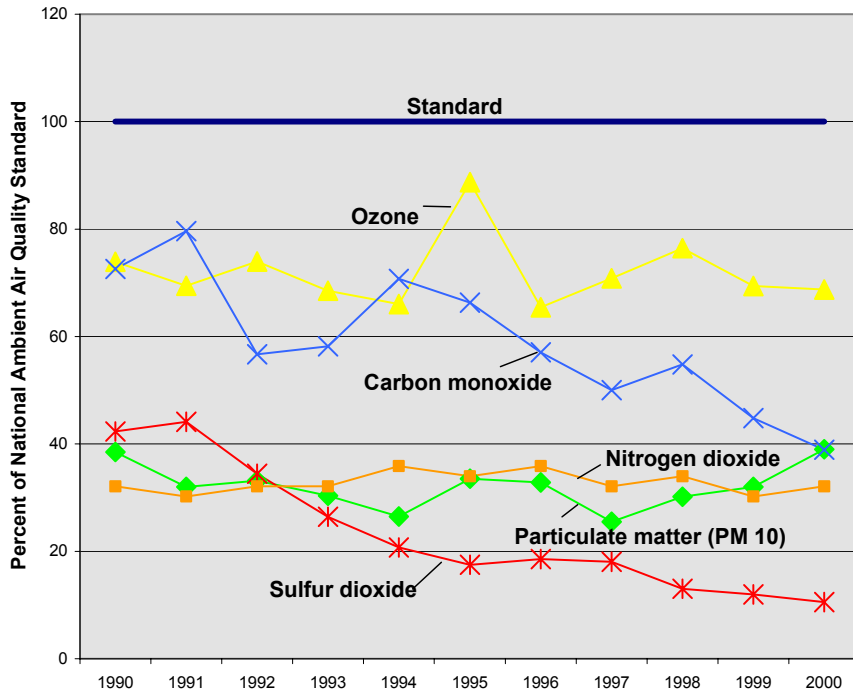
- to assess the risk to human health and the environment from air pollution;
- to minimize or abate the impacts of air pollution through policy development and planning;
- to help Minnesotans protect the environment from degradation due to air pollution from nonpoint (mobile and non-industrial) sources;
- to limit pollution from industrial point sources in an efficient and effective manner;
- to conduct a comprehensive and timely program for compliance determination and enforcement; and,
- to help industry and small businesses reduce emissions and comply with air quality regulations by providing assistance services.

STRATEGIES AND PERFORMANCE:

To accomplish these goals, the following major strategies are used:

- specific efforts to reduce pollution from industrial sources and nonpoint sources through regulation, assistance, and education;
- activities to revise, reinvent or develop new strategies and policies; and

Trends in Criteria Air Pollutants in the Twin Cities Area



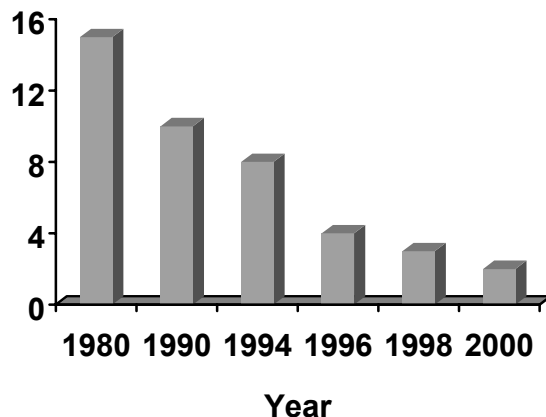
- efforts to assess environmental progress and study new problems.

These strategies have resulted in a major reduction in the levels of most air pollutants. As reported in the Pollution Control Agency's (PCA's) Minnesota Environment 2000 Report, levels of many air pollutants have declined or remained stable over the past decade.

Trends in criteria air pollutants in the Twin Cities Metropolitan Area

Reductions in air pollutant emissions have dramatically increased the number of areas that meet air quality standards. Currently, virtually all areas of Minnesota meet federal air quality standards, with the exception of two small areas that have not yet been formally recognized by the EPA as meeting standards. The PCA will continue to work with the EPA to fulfill the administrative requirements to achieve formal recognition.

Number of non-attainment areas in Minnesota



Although air quality has continued to improve, the PCA is shifting its emphasis to address new information regarding the environment and new concerns expressed by citizens and experts. Four issues continue to guide ongoing changes in the PCA policy regarding air pollution over the biennium.

- The EPA has recently promulgated new standards for ozone and particulate matter based on new information regarding health impacts. In addition, the EPA is expected to finalize visibility protection standards to protect national parks and wilderness areas. Violating federal air quality standards would be an indication that public health and the environment are not being adequately protected. Violating the standards would also have economic consequences, which would ultimately harm Minnesota's ability to compete in a global economy. Although the ozone and particulate matter standards are being legally contested, the PCA must continue to assess whether Minnesota will meet these standards and implement pollution prevention strategies for mobile and industrial sources of air pollution to prevent any future violations of the standards.
- Global warming has been accepted as a reality by experts. The PCA must continue to assess impacts on Minnesota and participate along with other stakeholders in taking the first steps toward stabilizing atmospheric levels of gases that cause global warming.
- It has become clear that levels of several toxic air pollutants remain above health benchmarks in portions of Minnesota. Studies being conducted by the PCA and EPA demonstrate that eight toxic air pollutants exceed state health benchmarks in many areas of the state. Mobile sources, such as cars, trucks, and off-road vehicles, are the biggest contributor of this type of pollutant. The PCA must continue to assess the extent of the exposure, propose and implement reduction strategies where appropriate, and facilitate efforts that will reduce pollution where the PCA has little or no direct authority.
- Mercury, other heavy metals, and persistent organic chemicals can cause health problems near large industrial facilities and through long-range transport. The PCA must expand efforts to address known problems and develop better data regarding sources and impacts of these pollutants. The PCA will continue to implement the reduction strategies recommended by the mercury contamination reduction initiative advisory council.

PROGRAM OVERVIEW: Water

Program activities associated with Minnesota's water resources protect and improve Minnesota's rivers, lakes, wetlands, and ground water so they support healthy aquatic

communities and public uses such as fishing, swimming, and drinking. While the majority of the state's waters meet the water quality standards designed to protect them, a significant portion do not. The Minnesota Pollution Control Agency's (MPCA's) mission to restore these impaired resources – while preventing degradation of those not yet impaired – is accomplished by regulating municipal and industrial point discharges, controlling nonpoint sources of pollution or polluted runoff, and assessing water quality to provide information and data upon which to make social, financial, technical, and environmental management decisions.

STRATEGIES AND PERFORMANCE:

The Protecting the Water Program uses a basin management strategy to protect and enhance our state's waters. Basin management is an approach to water-quality protection and restoration that focuses on the water resources, rather than on categories of pollutants, specific facility types or programs. This approach:

- assesses the quality of water within a geographical area;
 - establishes shared goals with stakeholders for water quality within the area;
 - identifies the barriers to attaining water quality goals;
 - works with partners to prioritize areas for corrective or preventative activities;
 - reaches a balance of regulation, enforcement, incentives, and assistance;
 - develops and shares new ideas and tools for addressing activities that pollute state waters;
 - develops alliances with federal, state and local agencies, business, non-profit organizations, and citizens to leverage collective activities; and
 - implements management practices that evaluate progress toward achieving goals.
-
- Maintains the water quality gains of the point source program.

Basin management provides an effective means for integrating point and nonpoint source pollution control programs, focusing on protecting and/or restoring the fishable and swimmable uses of our waters. By involving citizens, local government, business, industry, and other agencies and organizations in determining where and how program resources should be directed, basin management will help improve communication and coordination among the agency and its stakeholders.

In the past, efforts were focused on regulating industrial and municipal point sources, with a special focus on municipal wastewater treatment facilities. At the time, this focus was appropriate because point sources were the largest controllable source of the pollutants of concern. The PCA continues to work extensively with these point sources. In addition, the PCA is addressing nonpoint sources of pollutants, such as urban and agricultural storm water, individual sewage systems, feedlots, and forestry, as examples. More emphasis and funding have been directed to these sources of pollutants reaching

our waters. Although individual sources within these land uses are often small, their cumulative impacts are often significant.

The emphasis placed on nonpoint during the past years does not replace the work that must continue to be directed at point sources. The PCA, in alliance with others, continues to establish and build effective monitoring activities that support watershed management to address point and nonpoint sources of pollution. Approximately 33% of the program budget is dedicated to financial assistance programs, such as clean water partnerships to build and sustain effective alliances.

PROGRAM PROFILE: Land

The Protecting the Land program exists to protect public health and the environment from existing and future contamination of the land. Protection of public health and the environment is accomplished through the management of the risks associated with potential contamination of soil, ground water, or surface water by the generation and management of solid and hazardous waste, and the storage of petroleum products.

STRATEGIES AND PERFORMANCE:

The Protecting the Land program promotes proper management of petroleum products, solid waste, and hazardous waste to prevent or limit adverse environmental effects. One of its critical goals is protecting ground water, which is one of Minnesota's most precious and vulnerable resources and the state's primary supply of drinking water. This program has an extremely successful history and has done much to accomplish its mission. The program provides training, education, and technical assistance on best management practices. When releases do occur, contamination of soils, ground water, and surface water are addressed to protect human health and limit the degradation of the environment. These activities are accomplished by

- collecting and assessing data to determine environmental risk and potential impacts;
- reaching a balance of regulation, enforcement, incentives, and assistance to achieve in a cost effective manner the level of environmental protection expected by the public;
- educating and involving the regulated community and local government in rules, procedures, and technologies;
- targeting inspections to deal with priority pollutants (mercury, air toxics) and tailoring enforcement actions to the magnitude of the violation and the violator's level of cooperation (from "red tags" and Administrative Penalty Orders through criminal enforcement);
- developing alliances with federal, state, and local agencies and business organizations to coordinate activities and minimize duplication; and
- integrating pollution prevention principles into all activities.

Integrated Environmental Program

Although PCA has made good progress in environmental protection since the 1960s and continues to maintain ongoing regulatory programs, Minnesotans today are turning their attention to a new generation of environmental challenges—everyday human activities that adversely impact the environment, the cumulative effects of which present significant environmental problems. Addressing emerging environmental issues presents the need for new approaches to solving and preventing the state’s environmental problems. Integrating environmental programs leads the Pollution Control Agency (PCA) and the state toward increased flexibility to adapt to identified environmental priorities and quantifying the outcomes of our work, not only the activities. In order to do this, the program provides data and information to support environmental decisions as well as to develop reduction and prevention strategies. This allows the PCA to promote activities leading to reductions in potential future releases and cleanup actions. Inviting public participation in addressing the state’s environmental problems brings government back to the people.

STRATEGIES AND PERFORMANCE:

Integrating environmental programs relies on the following strategies:

- collecting necessary data to describe environmental conditions and process the data in a way that is of value to PCA users, other government agencies and citizens;
- conducting applied research critical to the PCA’s mission;
- using information to measure the effectiveness of our regulatory and management programs in resolving priority environmental problems and protecting the environment;
- providing the data and information required to develop reduction and prevention strategies, thereby reducing the potential for releases and cleanup of pollutants;
- reducing risk through preventing, investigating, cleaning up, and monitoring releases and contamination; and
- working with EPA and other governmental partners to focus public funds on efforts that produce environmental outcomes and allow the state greater flexibility to achieve those outcomes.

To effectively manage environmental progress by measuring the actual environmental outcomes of our work, a more complete and integrated system of environmental monitoring is needed. Like many environmental agencies, PCA has adequate data in some areas and not enough in others. Significant changes have been made in *what and how* we monitor in order to make monitoring more cost-effective and more useful and to address changes in the types of pollution problems the PCA identifies. In addition, a better way to manage and interpret this data is needed in order to understand environmental conditions, so we can make better decisions, shift priorities if necessary and use data and information to develop reduction and prevention strategies.

Through PCA environmental monitoring, we have identified important pollution problems across the state. While the state provides direction, consistency and an overall picture of the state's environmental condition, regional and local actions are essential. Coordination within the statewide framework for environmental management allows regional and local activities to fill in gaps. For example, PCA monitoring provides critical data used in setting water quality standards to protect Minnesota's valued water resources. These standards are used to assess and identify polluted waters, to help set priorities for treatment and cleanup actions and to set discharge limits.

Developing reduction and prevention strategies addresses a focus on reducing environmental and human health risk from hazardous substances, pollutants and contaminants. PCA promotes preventing pollution from occurring in the first place, which will reduce, but not eliminate, future need to conduct clean-up activities. Emergency response activities focus not only on responding to spills but working with communities and industry on spill preparedness and prevention.

Potential risks may result from uncontrolled releases leading to contaminated soils and groundwater and subsequent clean-up actions. A significant direction toward developing joint environmental priorities and agreed upon outcomes with EPA is reflected in the Environmental Performance Partnership Agreement. The activities detailed in the Environmental Performance Partnership Agreement support the outcome-based goals of clean and clear air, clean water, uncontaminated ground water and land, and healthy ecosystems.

The PCA has conducted extensive public participation efforts aimed at learning about the environmental values and views of citizens. Two examples are the 1999 Governor's Citizen Forums on the Environment and a telephone survey of 800 households regarding the environment. By factoring the public's values and concerns together with our science-based knowledge, we are better able to set environmental priorities and work with partners to develop educational strategies promoting behavioral change and improved environmental practices. What we have learned will help us to shape information for Minnesotans and ultimately to develop support and involvement toward solving today's and tomorrow's environmental problems.

More recently, PCA published the Minnesota Environment 2000 report (copy enclosed), a document which responds to the question, is our environment getting better? This report considers Minnesota environmental issues from global, state-wide and regional perspectives and ultimately encourages Minnesota citizens to personally make a difference.

FSR

The Financial Status Report will be submitted to EPA at a later date. The delay in submitting the report is caused by the three month extension of the EnPPA and subsequent 3 month extension in spending.

Activity Matrices

EPA Progress

EPA's progress will be reported in a separate document.

MPCA Progress

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
1	Subgoal A1:	To protect human health and the environment from the effects of criteria air pollutants.				
2	EPA Activity Only					
3	EPA Activity Only					
4	EPA Activity Only					
5	EPA Activity Only					
6	EPA Activity Only					
7	EPA Activity Only					
8	Provide Stack Test Plan Approvals at least three days in advance of test.		Percent of test plan approvals meeting goal.		44%	Assistance
9	Provide assistance through technical staff site visits.		Number of site visits.	E7	10 site visit	Assistance
10	Provide P2 and Compliance Assistance to Small Business Owners for the requirements and compliance		Information is disseminated	E4, E7	See row 11.	Assistance
11	Provide compliance and P2 information to regulated and other interested parties via phone calls, mailings, training sessions, meetings with customers, etc.		Submit Small Business Stationary Sources Technical & Compliance Assistance Program Annual Report to Small Business Ombudsman Headquarters	E7	Mass mailings--0 Web page hits--1254 Newsletter distribution--27,375 Compliance checklists--not tracked Phone calls--114	Assistance
12	Continue involvement in the MPCA environmental audit program.		Number of MPCA Air Quality Division staff hours dedicated to audit team.	E4, E7	Continued involvement; at least 40 hours.	Assistance
13	Provide technical assistance and advice to public and local government on policy, planning, and technical issues regarding mobile-source pollution.		Number of consultations on plans, policy, document development and technical assistance activities provided.		~ 100 consultations made	Assistance
14	Conduct public education and outreach on the relationship of air quality and transportation.		Outreach plan developed and implement workplan.		The MPCA continued to conduct outreach and education activities including: presentations to school groups, displays at public events and shows (such as the State Fair and the Auto Show) and media outreach surrounding 4 air alert episodes.	Assistance

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
15	Form and implement a task force for emissions reduction strategies for mobile sources		Plan for, form, and implement task force		In January 2001, the MPCA published a report to the Minnesota Legislature about the State's air quality, future trends and approaches to address pollutants of concern. Of greatest concern were benzene and ozone precursors. MPCA worked closely w/stakeholders to develop a strategy for reducing emissions, targeting mobile sources. MPCA proposed regulatory and voluntary approaches including: voluntary efforts to reduce benzene at gas stations, promotions of fuel-efficient vehicles and alternative fuels, a wood stove exchange effort, and adoption of a rule requiring cleaner diesel engines.	Assistance
16	Provide technical support and assistance regarding air dispersion modeling during facility review.		# of facilities provided with air dispersion modeling support		55 facilities (DB-40, MM-12, GP-3)	Assistance
17	EPA Activity Only					
18	EPA Activity Only					
19	EPA Activity Only					
20	EPA Activity Only					
21	EPA Activity Only					
22	EPA Activity Only					
23	EPA Activity Only					
23	EPA Activity Only					
25	EPA Activity Only					
26	EPA Activity Only					
27	Inspect at least 10% of all Part 75 CEMs for sulfur dioxide per year.		Number of CEM inspections conducted for sulfur dioxide. Number of monitors.		0 SO2 CEM inspections performed. 21 monitors. (0%)	Compliance Determination

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
28	Review all continuous emission monitoring (CEM) reports. (EERs)		Number of CEM reports received and reviewed. Percent of facilities in compliance. Percent of excess-emissions reports referred to enforcement.		2075 CEM reports reviewed. 35 referred (out of 350 facility submittals). 90% in compliance on facility basis; 98.3% on individual monitor basis.	Compliance Determination
29	Review all stack-test reports.		Number of stack-test reports received and reviewed. Percent stack tests in compliance. Margin of compliance for stack tests.	E2	581 received, 523 reviewed. 87% in compliance, by emission unit. (The margin of compliance is not yet tracked, since Delta has not yet been totally populated.)	Compliance Determination
30	Semiannually, review company and source submissions, Compliance Certifications, Fuel Sample Analysis Reports, and Annual Reports (deviations reports). Identify violations from source submissions. Prepare compliance review.		Number of compliance determinations and compliance rates.	E2, E5	1522 compliance determinations, 76 referrals (95% compliance)	Compliance determination
31	Witness 10% of all stack tests.		Percent of stack tests witnessed.		11%	Compliance Determination
32	Witness CEM certifications.		Percent of CEM certifications witnessed.		35 conducted, 1 witnessed (3%).	Compliance Determination
33	Conduct CEM inspections.		Number of CEM inspections conducted each year.	E5	10 CEMs inspected.	Compliance Determination
34	Refer noncompliance to enforcement staff in a timely manner.		Percent of referrals made within target deadlines.	E6	33% of the Notices of Noncompliance (for stack testing) made within 30 days.	Compliance Determination
35	Technical Review of environmental documents for transportation air impacts		Number of documents reviewed, consulted on to facilitate permits		State issue only.	Compliance Determination
36	Maintain enforcement response plan.	Maintain enforcement response plan.	Plan maintained.		Plan updated as of 4/26/00 and 6/29/00.	Enforcement
37	Enforcement follow-up on vehicle anti-tampering complaints		Number of complaints resolved.	E3, E6	19 complaints were informally received, 3 formal (written) complaints were received. All followed up by the Agency and resolved.	Enforcement

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
38	Identify enforcement cases that qualify for the High Priority Violations List		# of sources identified	E6	22 sources identified	Enforcement
39	Initiate and follow through with enforcement as appropriate and in compliance with the Enforcement Response Plan to bring facilities subject to federal and state AQ regulations into compliance		# of sources returned to compliance	E3	18 (does not include multimedia actions)	Enforcement
40	Identify facilities appropriate for site visits and inspections and conduct these activities		# of facilities visited or inspected	E5	75 inspections; 57 site visits.	Enforcement
41	EPA Activity Only					
42	EPA Activity Only					
43	EPA Activity Only					
44	EPA Activity Only					
45	EPA Activity Only					
46	EPA Activity Only					
47	Maintain precipitation chemistry at eight National Atmospheric Deposition sites in Minnesota.		Produce quality-assured precipitation chemistry data for trend analysis.		Eight acid deposition network stations were operational. Data available from National Atmospheric Deposition Network Website.	Monitoring and Evaluation
48	Monitor chemical indicators in select acid-sensitive lakes as part of an indicator lakes program.		Produce quality-assured lake data for assessment of current status and trends analysis.		Indicator lakes sampled in summer 1999. Lakes no longer sampled annually for acid sensitivity alone. Included in indicator lake study to assess multiple environmental pollutants.	Monitoring and Evaluation
49	EPA Activity Only					
50	Quantify annual criteria pollutant emissions from point sources.		# of sources in the emission inventory; # of SO2 sources, # of NOx sources, # of PM10 sources, and # of Pb sources in the emission inventory; report emissions to AFS/AIRS		reported to AFS/AIRS	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
51	Strive for the most accurate Emission Inventory	Coordinate efforts to develop standardized emission inventory estimation and reporting procedures following guidance developed under the Emission Inventory Improvement Program.	% of overall emissions based on CEM or stack test data; % of SO2 emissions, % of NOx emissions, and % of PB emissions based on CEM or stack test data, and % of PM10 emissions based on stack test data		previously reported to EnPPA (prior self-assessment?)	Monitoring and Evaluation
52	Audit emission inventories.		Percent of total emissions audited each year.		0%. Staff reductions had lead to little progress related to emission inventory audits.	Monitoring and Evaluation
53	Maintain ambient air-quality monitoring network.		Submit quality-assured data to AIRS periodically. Assure 75% uptime on all continuous data and 75% data collection on intermittent samples.	Aarr	Ambient air quality networks operational. Data submitted quarterly to EPA AIRS database as required.	Monitoring and Evaluation
54	Implement redesigned ambient air-quality monitoring network to accommodate new particulate (PM-2.5) and ozone (O3) standards.	Network design for PM-fine: provide guidance on resource allocation and network design. Provide feedback and concurrence on network plans.	Continue implementation of PM2.5 program. # of PM2.5 monitors deployed. Evaluate 1999 ozone data and determine need for additional sites.	Aarr	Completed.	Monitoring and Evaluation
55	Redesign ambient air-quality data handling system.		Procure laboratory information management system (LIMS) to replace aging data-handling system. Participate in EPA's re-engineering of AIRS process.		Project complete. LIMS successfully deployed and functional.	Monitoring and Evaluation
56	Maintain a program for quality assurance and quality control (QA/QC).	Quality Assurance: Provide technical guidance and periodic review for quality assurance procedures and systems. Provide periodic review of air-quality data.	Assure that all continuous and intermittent data are quality-assured in accord with standard operating procedures, Code of Federal Regulations and EPA guidelines.		All instrument performance audits and required quality assurance oversight was completed per CFR and EPA guidelines.	Monitoring and Evaluation
57	Perform analyses of data for strategic indicators, milestones, outcomes, etc.		Data is available for demonstrating environmental outcomes. Resources permitting, new environmental indicators are developed.		Data provided for Quarterly Management Report. Air Quality Index published Monday-Friday on MPCA web page.	Monitoring and Evaluation
58	Quantify annual emissions and develop budgets for mobile sources.		Complete emissions inventory for mobile sources.		State issue only.	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
59	Complete an annual review of the ambient-air-quality monitoring network.		Submit report on network review to EPA.		Reports completed and submitted to EPA.	Monitoring and Evaluation
60	Track changes in the O3/PM standards and contribute to national debate.		Citizens and regulated parties shall be aware of issues. New standard will reflect Minnesota issues.		Data from six ozone stations polled daily during ozone season by EPA for AIRNOW program.	Monitoring and Evaluation
61	EPA Activity Only					
62		Provide review, feedback and approval of annual network modification plan and periodic unforeseen modifications to networks. Provide timely feedback on and approval of new or relocated National Ambient Monitoring System monitors.	Annual network monitoring plans. End-of-year reports on monitor upgrade and replacement. Feedback received by state.		EPA Activity only.	Monitoring and Evaluation
63		Provide guidance and technical assistance on the use and developments in the air-quality data systems. Provide periodic summaries of data completeness and results for air-quality-related submittals.	Guidance and assistance provided. Summaries completed.		EPA Activity only.	Monitoring and Evaluation
64	EPA Activity Only					
65	Issue permit amendments to Title IV sources as needed.		Tons of sulfur dioxide allowed under MPCA permits.		Data not tracked. (Reported directly to EPA Region V by affected facilities)	Permitting
66	Issue federal construction and operating permits, as required by EPA, with applicable requirements and compliance demonstration methods.		Number of federal construction and operating permits issued (PSD/NSR. Title IV, Case-by-case MACT determinations and Title V.)	Aarr	NSR/PSD: 10 Title IV: 0 Case-by-case MACT: 0 Title V = Part 70; see below (#68).	Permitting
67	Issue state construction and operating permits with applicable requirements to those facilities not required to obtain federal permits.		Number of state permits issued. (Synthetic minor, general, registration, site-specific minor source program.)		Syn Min Part 70: 17 Syn Min Mods: 53 Syn Min PSD: 4 General Syn Min: 1 Registration: 176 (109 new facilities)	Permitting

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
68	Include in all Part 70 permits the requirement for dispersion modeling to demonstrate compliance with ambient standards		Number of Part 70 permits issued.		69 permits issued.	Permitting
69	Conduct site visits as part of permit teams.		Number of site visits conducted.		56 site visits conducted as part of permit teams.	Permitting
70	Issue indirect source permits.		Number of permits issued.		Of state interest only.	Permitting
71	Implement strategy to move SIP limits into Title V or state permits.	EPA reviews permits during the permit public comment period. (Also gets a second review under the SIP process).	As permits are reviewed, site specific SIP requirements will be incorporated. Number of permits EPA reviews during the MN public comment period.		The output measure is a measure for EPA.	Permitting
72	Develop MPCA efforts to look at innovative ways to regulate so that flexibility and paper work are reduced and emissions are reduced.		Anderson XL agreement is finalized. Anderson XL permit is issued. MPCA evaluates commitment to future activities by July 2000 based on Anderson and 3M experience.	E4	XL agreement is finalized. Plan to issue permit in mid-2002.	Permitting, Policies and Rules
73	Update rules as required by EPA. If applicable, submit rule revisions to EPA as part of the SIP.	EPA reviews submittals within the timeframe in 40 CFR part 51.	SIP revisions shall be developed and approved within 30 months of rule change.	A7	MPCA will accept the Federal Implementation Plan for Medical Waste Incinerators.	Policies and Rules
74	Continue involvement in the Rational Rules group to establish procedure for initiating and completing rules, review suggestions, and adopt a schedule for rule revisions, including the continuation of an Omnibus rulemaking.		Procedures and schedules will be followed. All rule suggestions from internal and external customers will be reviewed. Publish quarterly the rulemaking docket on the internet.		Of state interest only. Rational Rules committee inactive.	Policies and Rules
75	Ensure that control strategies that are part of the SIP are implemented and that all qualifying locations are redesignated as attaining the NAAQS standards.	Publish PM10 revocation guidance if new PM10 standard is reinstated. All outstanding redesignation requests will be processed by 12/31/99.	Redesignation/Revocation request for St. Paul is submitted within 60 days after EPA guidance is published. EPA publishes Rochester SO2 redesignation by 12/31/99. Carbon Monoxide in Twin Cities Area redesignated by March 31, 2000.	A4, A11	Rochester SO2 redesignation complete. Twin Cities redesignated for CO on November 29, 1999. The redesignation/ revocation request for St. Paul (PM10) has not been made, is planned for 2002.	Policies and Rules

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
76	Submit and maintain Transportation Conformity State Implementation Plan (SIP).	Inform PCA of court decisions, policy, and methodology changes	Submit completed. SIP in acceptable form and timeline.		Not complete.	Policies and Rules
77	Revise SIP and promulgate state rule per changes in federal requirements		Complete submittals and rules in acceptable format and timeline		No changes made.	Policies and Rules
78	Consultation with MPOs and MN DOT on Conformity	Update MPCA on any changes and confer with USDOT	Develop approvable TIPS, plans, and programs		MN DOT develops TIPS, etc., with assistance from MPCA. 100+ consultations made.	Policies and Rules
79	Review MPCA strategies for regulation of criteria pollutant sources based on source emission profiles, revised standards for PM and ozone, and recommend changes to prevent future nonattainment problems	Distribute information and guidance on new particulate matter standards and ozone standards as they are developed.	Develop an awareness of voluntary programs adopted across the country by July 2000. Review ambient AQ data within 90 days of the end of the quarter. Identify source categories with potential for voluntary reductions.		Of state interest only.	Policies and Rules
80	Submit designation recommendation for 8-hour ozone standard by July 18, 1999.	Finalize designation by July 2000.	Ozone designation submitted. Designation finalized.	A4	Completed.	Policies and Rules
81	Provide technical support and advice on air dispersion modeling guidance for industry and geographic areas		complete milestones for : PM2.5 & regional haze multi state cooperation, taconite guidance development		No taconite facility guidance prepared; planning to draft generic guidance for T5 modeling. No modeling yet required for PM2.5 and regional haze multi-state participation; only planning efforts to date.	Policies and Rules
82	EPA Activity Only					
83	EPA Activity Only					
84	Inform customers and the public of the effect and importance of the Visibility Regulations	Distribute information and guidance on the visibility program as they become available.	Mailings and information meetings to occur within 90 days of issuance of regulation. Clients are informed within 60 days of their responsibilities as implementation guidance is issued.		Meetings held with MN tribes on RH regulation and with industry, tribes, FLM's, and conservation orgs. EPA has not issued implementation guidance.	Policies and Rules

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
85	Participate in development of a regional planning organization that will assist Minnesota in identifying the causes of visibility problems and finding solutions.	Provide technical assistance and policy guidance.	Participation in regional and national organizations dealing with visibility issues.		MPCA staff participate in CENSARA's RPO meetings and in EPA/RPO national meetings.	Policies and Rules
86	Build up technical expertise within the MPCA to evaluate source culpability and develop improvement plans for visibility.		Formation of a lateral team devoted to visibility.		No formal lateral team formed, but JSeltz, GAndersson, RStrassman (monitoring), DVanderbosch (emissions inventory), and MMcCourtney (modeling) meet on ad hoc basis.	Policies and Rules
87	Meet EPA timelines for implementation of the regional haze rule.		Timelines are met.		No applicable timelines.	Policies and Rules
88	Continue to implement Vehicle Emission Testing Program.	Rulemaking for the I/M State Implementation Plan	Amount of CO removed (not emitted) because of the I/M program.	A9	None. Program phased out. The vehicle emission testing program ended on November 30, 1999 as directed by the Minnesota Legislature. It is estimated that for the period, July-November, 1999, 25,000 tons of carbon monoxide and 1,600 tons of hydrocarbon pollution were prevented by the vehicle emission testing program.	Program Specific Approaches
89	Evaluate impacts from criteria pollutants through environmental review program		Number of environmental review documents public noticed; number of environmental review documents from other RGUs reviewed and commented on.		None. Of state interest only.	Program Specific Approaches
90	Subgoal A2:	To protect human health and the environment from the effects of air toxics.				
91	Provide P2 and compliance assistance to small-business owners on NESHAP requirements and compliance.	Technical assistance will be provided to regulated parties as needed.	Customer satisfaction as measured by annual surveys or training surveys. Meetings or conference calls between EPA and MPCA.		Customer satisfaction no longer directly measured.	Assistance

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
92	Provide NESHAP compliance and P2 information to regulated and other interested parties via phone calls, mailings, training sessions, meetings with customers, etc.	Forward information regarding upcoming regulations to MPCA.	EPA guidance is provided. Number of phone calls, mailings, training, meetings with customers. Number of P2 facility case studies.		NESHAP phone calls--4 Mailings--4 Training events--3 with 226 people in attendance and 11.3 hours of staff time Meetings with customers--2 site visits	Assistance
93	Identify and notify facilities subject to NESHAP requirements.	Provide training to MPCA on HAPs and maximum available control technology (MACT) source inventory.	Compliance with NESHAP standards. Number of facilities notified. Training provided by EPA.		No data to report.	Assistance
94	EPA Activity Only					
95		Meet with owners of facilities subject to the Hazardous Organic NESHAP (HON) prior to the compliance date.	Number of meetings with HON facility owners or operators.		No HON sources in Minnesota. EPA Activity only.	Assistance
96	Coordinate internal NESHAP training/assistance		Number of trainings, meetings, messages to internal customers		1 teleconference to 9 government and 9 manufacturing (3 hours; Coating NESHAP)	Assistance
97	Develop tracking forms for notifications that are required for monitoring compliance with NESHAPs.		# of promulgated NESHAPs with forms available		Not completed. No data to report.	Assistance
98		Perform all compliance determination duties that have not been delegated to the MPCA (e.g., inspect all HON sources once per year).	Number of HON sources inspected each year.		No HON sources in Minnesota. EPA Activity only.	Compliance Determination
99	EPA Activity Only					
100	Review incoming NESHAPs notification forms for compliance		Number of notifications reviewed certifying compliance	E5	420 submittals received and entered into NESHAPS database.	Compliance Determination
101	Inspect for compliance on lead (Pb)-based paint notifications and projects		# of site visits and compliance inspections	E5	28 lead notifications, 3 lead inspections As a result of resource reductions, the MPCA is no longer conducting lead inspections	Compliance Determination
102	Maintain enforcement response plan.	Maintain enforcement response plan.	Plan maintained.		Plan updated as of 4/26/00 and 6/29/00.	Enforcement
103	Identify enforcement cases that qualify for the High Priority Violations List		# of sources identified	E6	1 source identified	Enforcement

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
104	Initiate and follow through with enforcement as appropriate and in accordance with the Enforcement Response Plan to bring facilities subject to NESHAP standards into compliance.		Number of enforcement actions. Number of sources returned to compliance.	E3, E6	1 enforcement action, 3 source returned to compliance	Enforcement
105	Identify/conduct asbestos and lead site visits, inspections and notification reviews.		# of facilities visited or inspected	E5	~3000 total notifications (includes asbestos and demolition notifications). 382 inspections (includes asbestos and demolition inspections).	Enforcement
106	Identify NESHAP affected sources appropriate for audits, site visits and/or inspections and conduct these activities.		Number of facilities visited, audited or inspected.	E4, E5	6 facilities inspected, 1 site visit.	Enforcement
107	EPA Activity Only					
108	EPA Activity Only					
109	EPA Activity Only					
110	EPA Activity Only					
111	EPA Activity Only					
112	EPA Activity Only					
113	EPA Activity Only					
114	EPA Activity Only					
115	EPA Activity Only					
116		Identify HON sources that are not permitted.			No HON sources in Minnesota. EPA Activity	
117	Assess hazardous air pollutant (HAP) emissions from point, area, and mobile sources		Assessment completed, report prepared		A state report and a regional report have been prepared to 1997. It's on our website.	Monitoring and Evaluation
118	Quantify annual hazardous air pollutant (HAP) emissions from point sources		# of sources in the emission inventory; # of HAP pollutants in the inventory; Report emissions to the Great Lakes Commission	Aarr	This information has already been reported to the Great Lakes Commission for 1997.	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
119	Strive for most accurate emission inventory		# of industrial sectors developed using source specific data for emission estimation; # of area source categories developed using survey data; # of mobile source categories developed using survey data	Aarr	6 industrial sectors; 21 area sectors; all 4 mobile source sectors.	Monitoring and Evaluation
120	Submit toxics inventory data (1996 and 1997) to the National Toxics Inventory and the Great Lakes Rapids database.	(Requested by EPA)	Inventory submitted		1996 report has been submitted. EPA indicated that it doesn't want the 1997 report.	Monitoring and Evaluation
121	Operate Pine Bend Monitoring Network.		Obtain valid data from 75% of all samples. Publish quarterly reports of "raw" data that have been quality assured.	A16	Six monitoring stations were operational on the Pine Bend Network. Data reported quarterly to interested parties and EPA AIRS database.	Monitoring and Evaluation
122	Operate Statewide Air Toxics Monitoring Network.		Obtain valid data from 75% of all samples. Publish quarterly reports of "raw" data that have been quality assured.	A16	This activity is dropped per EnPPA Amendment #3.	Monitoring and Evaluation
123	Assess the risk of selected facilities emitting toxics to human health & environment		Number of facilities reviewed.	E7	14 facilities reviewed.	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
124	Improve systems to assess and rank risks in ambient air from air toxics		milestones are met		<p>Milestones are met; Published scientific journal article in Environmental Health Perspectives (An Assessment of Air Toxics In Minnesota, September, 2000). Published scientific journal article in the Journal of the Air and Waste Management Association (Analysis of Air Toxics Emission Inventory: Inhalation Toxicity-Based Ranking, August, 2001). Modified Human Toxicity Potential chemical indexing system for application in Minnesota. Developed a background concentration for hydrogen sulfide from ambient monitoring data to be used in the assessment of hydrogen sulfide emissions from feedlots.</p>	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
125	Study the exposure of individuals living in urban areas to air toxics		Meet milestones identified in human exposure grant		Completed field monitoring portion of study. Compiled database and began data analysis. Submitted final report to EPA. Published scientific journal article in the Journal of the Air and Waste Management Association (Comparison of Short-Term Variations (15-Minute Averages) in Outdoor and Indoor PM 2.5 Concentrations, July, 2000). Several more journal articles in preparation. Began air dispersion modeling portion of study.	Monitoring and Evaluation
126	Publish Minnesota Air Report, a state of the environment report for air quality		Date report prepared		Last published 2/01.	Monitoring and Evaluation
127	Publish Legislative Air Toxics Report		Date report prepared		Last published 2/01.	Monitoring and Evaluation
128	Issue permits that contain NESHAP requirements appropriate with applicable regulations.		Number of permits issued.		2 permits issued with NESHAP requirements	Permitting
129	Provide dispersion modeling support for facility reviews.		# of facilities reviewed		17 (DB-4, MM-2, GP-11)	Permitting
130	Incorporate federal NESHAP regulations into state rule		Number of NESHAPs incorporated into state rule		None	Policies and Rules
131	Participate in federal NESHAP regulation, develop as appropriate.		# of NESHAP regulations that MPCA participates in. Progress on Taconite NESHAP to point where able to make decision.		1. Minnesota continues to participate in the Taconite NESHAP process.	Policies and Rules
132	Develop strategy & participate in policy decisions regarding air toxics.		Implement selected recommendations from white paper assessing air toxics		Of state interest only.	Policies and Rules

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
133	Develop and submit 111(d) plans to EPA as required.	Process plans within 6 months of submittal.	Medical waste combustor plan submitted by December 1999. Plan for small waste combustors submitted by EPA deadline.		MWC plan not completed. Deadline for small waste combustors has not yet passed.	Policies and Rules
134	EPA Activity Only					
135	Influence state and national efforts that will reduce air toxics concentrations in Minnesota		Number of national policy/rule initiatives MPCA provided comment		Of state interest only.	Policies and Rules
136	Link air toxics information with agency programs		Number of programs assessed to learn if information has impact on how program performed		Of state interest only.	Policies and Rules
137	Coordinate section 112 activities		Obligations under section 112 are met		Obligations met.	Policies and Rules
138	Develop and implement as appropriate reduction strategies for air toxics		Completion of reduction strategy plan		Of state interest only.	Policies and Rules
139	Evaluate impacts to human health and the environment from toxic air emissions in environmental review documents		Number of environmental review documents public noticed; number of environmental review documents from other RGUs reviewed and commented on.		Of state interest only.	Program Specific Approaches
140	Subgoal A3:	To protect human health and the environment from global warming and stratospheric ozone depletion.				
141	EPA Activity Only					
142	EPA Activity Only					
143	Initiate and follow through with enforcement as appropriate to bring facilities subject to federal and state regulations into compliance		# of enforcement actions, # of sources returned to compliance	E3, E6	0 enforcement actions, 0 sources returned to compliance. Staff cuts have made this a low priority.	Enforcement
144	Identify affected facilities appropriate for audits, site visits and inspections and conduct these activities.		# of facilities visited or inspected	E5	0 facilities visited, 0 facilities inspected. Staff cuts have made this a low priority.	Enforcement
145	EPA Activity Only					
146	EPA Activity Only					
147	EPA Activity Only					
148			Annual emissions inventory is completed.		None. Of state interest only.	Monitoring and Evaluation

Clean And Clear Air Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / information	Function
149	Track the literature on emissions estimation and forecasting methodologies.		Periodic sink inventory is completed.		None. Of state interest only.	Monitoring and Evaluation
150	Prepare long-term forecasts of greenhouse-gas emissions.		Long-term emission forecast is completed for most sectors.		None. Of state interest only.	Monitoring and Evaluation
151	Assemble and track long-term climatological data for Minnesota in conjunction with statewide Climatology Working Group.		Report on trends in Minnesota climate.		None. Of state interest only.	Monitoring and Evaluation
152	Track and synthesize literature on projected climate-change impacts on Minnesota's ecology.		Periodic published reports and presentations.		None. Of state interest only.	Monitoring and Evaluation
153	Complete and publish reports on mitigation opportunities in the transportation, agricultural, buildings and electrical generation sectors that comprise the State Action Plan.		State Action Plan report.		In process. Report is expected to be complete June 30, 2002.	Policies and Rules
154	Develop MPCA participation as a state ally in EPA's voluntary greenhouse-gas mitigation programs.		Effective participation.		None. Of state interest only.	Policies and Rules
155	Participate in Environmental Council of States Climate Change Activities.		Effective participation.		None. Of state interest only.	Policies and Rules
156	Assess opportunities in the feedlots sector to mitigate methane emissions with cost-effective controls.		Completion of grant deliverables.		In process. Details described in grant report.	Policies and Rules
157	Participate in STAPPA/ALAPCO climate change activities		Authorship of STAPPA/ALAPCO white paper on credits for early action in reducing greenhouse gas emissions		None. Of state interest only.	Policies and Rules
158	Evaluate impacts to human health and the environment from global warming and stratospheric ozone depletion in environmental review documents		Number of environmental review documents public noticed; number of environmental review documents		Of state interest only.	Program Specific Approaches

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
1	Subgoal W1:	To protect Minnesota's rivers, lakes, wetlands, and groundwater from discharges from point and nonpoint sources; thereby, meet their designated use.				
2	Not reported in SA					
3	Directories will be sent to EPA.		Number of contact hours, number of staff hours. Two user guides.		Calls not being tracked, manuals are sent out to callers upon request.	
4	Not reported in SA					
5	Refer to Mid year and End of year reports		Number of Operation Management Evaluations completed.		6 Assistance Projects done.	
6	Provide customers with training on water pollution.		Number of customers trained.		2065 attendees at water quality training events, 16 courses offered.	
7	Reported through SRF and Annual Report		Number of assistance packages given.		45 binding commitments (project loans) totaling \$143,500,511.	
8	Not reported in SA					
9	Not reported in SA					
10	Not reported in SA					
10a	Not reported in SA					
11	Not reported in SA					
12	Not reported in SA					
13	Not reported in SA					
14	No commitment to #s, not reported in Self-					
15	Not reported in SA					
16	Review compliance information.		Percent of regulated parties (major and minor) inspected in a year, or action taken (letter, etc).	E5, E6	NOVs - 36; APOs - 13; Stips - 8; SOCs - 3; AO 1; inspections: 181 regular; 44 major. Actions minor 786; major 85. 48 Letters of action, 8 letters effluent violation, 5 misc..	Compliance Determination
17	Not reported in SA					
18	Not reported in SA					
19	Not reported in SA					
20	Response to noncompliance, use timely and appropriate enforcement.	Provide assistance to MPCA to take lead on enforcement actions with tribal facilities.	Number of enforcement actions. Maintaining compliance rates of 90% or more, and maintainan AEL rate of less than 2%.	E6	EPA can access in PCS.	Enforcement
21	Enforcement management system updated as is appropriate.		Complete the EMS and provide to the EPA for review.	E6	PCA sent second revised ERP to EPA on 11-1-01, PCA has identified appendix 3-1 and 5-3 to revise, in progress.	Enforcement
22	Not reported in SA					
23	Not reported in SA					
24	Not reported in SA					

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
25	Continue to develop and implement a monitoring and assessment strategy to reflect agency reorganization, program shifts and resource shortfalls, etc.	Provide the latest Sec. 106 guidance for preparing monitoring strategy	Report on progress. 2 plans- Long term ground water & fish contaminant trend monitoring strategies will be developed.		Already submitted as part of the 305b report pages 26-32.	Monitoring and Evaluation
26	Not reported in SA					
27	Not reported in SA					
28	Develop total maximum daily loads (TMDL) list and implementation plans for waterbodies on the list per the 10 year schedule (2010).	Provide review of the state's TMDL listing, long term schedule and methodologies. Review TMDLs.	1)The number of TMDLs in progress by MPCA and EPA. 2)Number of TMDL's submitted by MPCA. 3)Number of MPCA TMDLs approved. 4)Number of TMDLs established by EPA.	W6	1) 26 2) 0 3) 0 4) 0	Monitoring and Evaluation
29	Not reported in SA					
30	Not reported in SA					
31	Not reported in SA					
32	Assess nitrate pollution in Minnesota aquifers. MPCA drafts water-quality standard revisions based on input from the Water Quality Standards Advisory Committee. Ammonia criteria resolved and ammonia moratorium lifted.		Assessment Done.		The '92-'96 study serves as the baseline for nitrate. Sampling starts 2001 and network system in place 2003. Ammonia moratorium lifted Fall '99.	Monitoring and Evaluation
33	Plan next stage of integrated, statistically based stream monitoring and development of biocriteria.	Provide financial and technical assistance for bioassessments.	Biocriteria developed.		Already completed. Delete activity for next EnPPA.	Monitoring and Evaluation
34	Conclude the advisory committee process for water-quality standards.		Advisory committee activities concluded.		Finished. Nothing further to report. Delete activity.	Monitoring and Evaluation
35	Not reported in SA					
36	Inventory assessment of class UIC facilities.	Work with MPCA to develop inventory assessment	Inventory assessment.		Position eliminated due to budget constraints, inventory was not conducted.	Monitoring and Evaluation
37	Not reported in SA					
38	Not reported in SA					
38a	Not reported in SA					
39	Not reported in SA					
40	Not reported in SA					
41	Not reported in SA					

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
42	Take final action on section 401 applications for work in wetlands.	Review selected section 404 (wetlands) permits for compliance with the tenets of the Clean Water Act. Coordination with the State 401 certifications on permits.	Applications reviewed for action.		84 individual Cwa 401 certifications (Does not include DL region #s).	Permitting
43	MDH supported by MPCA	Not reported in Self-				
44	Work with local units of government to develop opportunities for protection and management.		Incorporation of lake protection activities into County Water Plans.		In cooperation with Dakota and Hennepin County, 11 teams monitoring wetlands using simple biological assessment methods, 45 wetlands monitored, field demo training to 70 people, an additional 44 trained on wetland macroinvertebrate, and 44 received wetland macrophyte training.	Policies and Rules Outcomes
45	Not reported in SA					
46	Not reported in SA					
47	Not reported in SA					
48	Cooperate with other state agencies and local governments to identify possible additional nitrogen-management needs for ground-water protection.		Review and update recommendations of the 1991 nitrogen-management report, as needed.		No Activity due to resource reductions. See 2000 Self-Assessment.	Policies and Rules
49	Work with other state agencies and local governments to develop options for targeted aquifer management and protection.		Recommendations to enhance existing water resource protection approaches (watershed, wellhead, etc.).		Pursue options as resources allow.	Policies and Rules
50	Continue to develop cross-program shared goals, environmental outcomes, and implementation priorities using approaches from Comprehensive State Ground Water Protection Program and Basin Management.	Participate in national CWA/SDWA work group to improve protection of groundwater and public water supplies.	Implementation of cross-program ground-water protection activities within MPCA and between agencies. Basin Plans		No Activity due to resource reductions.	Policies and Rules
51	Not reported in SA					
52	Not reported in SA					
53	Not reported in SA					

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
54	Provide support to other MPCA programs, state agencies and local governments to develop options for targeted aquifer protection	Ensure coordination between states and with EPA headquarters on wellhead and source-water protection.	# of projects (wellhead, locating new sources) that the GW Metro Model and data are applied		This activity is no longer tracked due to programs cuts.	Program Specific Approaches
55	Not reported in SA					
56	Collects and maintains ground water data from various sources, interpret and store in database availability to interested parties	Gain access to location information of wellhead and source-water protection to be used by other EPA programs in decision making.	# of projects (wellhead, locating new sources) that the GW Metro Model and data are applied		This activity is no longer tracked due to programs cuts.	Program Specific Approaches
57	IPS sent to EPA					
58	Not reported in SA					
59	Not reported in SA					
60	Not reported in SA					
61	Not reported in SA					
62	Not reported in SA					
63	Not reported in SA					
64	Maintain GW Metro Model and database		database is updated, model reflects updates as "bugs" are corrected.		Database is updated to the extent possible with reduced staff and on website.	Remediation
65	Subgoal W2:	To manage risks to human health or the environment resulting from actual or potential exposure to contaminated groundwater.				
66	Not reported in SA					
67	Conduct outreach and training for responsible parties and other emergency responders.		Number of boom schools, newsletters, training sessions, etc. Number of prevention and preparedness training, meeting, inspection, or review events.	E6	46 training sessions	Assistance
68	Participation or leadership in response exercises.	Participate in response exercises as requested.	Number of exercises.		16 training sessions	Assistance
69	Schedule site visits with LUST owners and operators to assist with site investigation and cleanup.		# of sites visited.	E6	71 site visits.	Assistance
70	Provide information on LUST guidance, timely investigation, and appropriate cleanup.		Information Provided		Information provided to tanks owners and others as needed.	Assistance
71	Provide expedited report review and liability assurance letters for participants in the voluntary petroleum investigation and cleanup program (VPIC).	Provide guidance to MPCA as Region 5 learns from its brownfields activities.	Number of participants in the VPIC program.	E4	176 participants in the VPIC program. 112 participants were tank related and 64 participants were non-tank related.	Assistance

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
72	To assist owners and operators of large petroleum storage tank facilities in the investigation and cleanup of petroleum releases.		Assistance provided	E4	56 AST owners and operators assisted.	Assistance
73	To foster improved spill prevention and preparedness among operators of large petroleum storage tank facilities.		Assistance provided		This activity is no longer tracked due to programs cuts.	Assistance
74	Plan and participate in spill drills at major facilities.		Number of spill drills.		16 spill drills.	Assistance
75	Provide training to tank facility owners.		Number of participants at training sessions.		5 AST/UST related training courses offered, 115 participants. MPCA will not conduct this activity in the future.	Assistance
76	Assist tank facilities in spill prevention and preparedness.		Number of tank facilities seeking assistance.		This activity is no longer tracked due to programs cuts.	Assistance
77	Issue Tank Monitor newsletter to tank owners, operators and others interested in the tanks program.		Circulation of the newsletter.		3 issues of "Tank Monitor", circulation of 9200. 2 issues of "The Dispenser", circulation of 674. MPCA will not publish these newsletters in the future.	Assistance
78	Not reported in SA					
79	Not reported in SA					
80	Review Remedial Investigation/Corrective Action Design reports on leaking underground storage tank (LUST) sites.		Number of cleanups initiated.	U5	9 Remediation systems installed.	Compliance Determination
81	To investigate four additional large petroleum storage tank facilities per year, to facilitate corrective action and to ensure proper closure of petroleum tank release sites.		Number of petroleum storage facilities investigated per year.		13 investigations	Compliance Determination
82	Not reported in SA					
83	Review requests for closure on LUST sites.		Number of confirmed releases versus number of LUST closures. Number of site closures.	U5	663 confirmed releases; 933 LUST closures.	Compliance Determination

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
84	Take enforcement actions when necessary against responsible parties, tank owners or operators, contractors, etc.	Provide guidance and assistance on policies, regulations and EPA Region 5 enforcement. Referrals of enforcement cases.	Number of enforcement actions issued. Percent compliance.	E2	187 LOW's 7 NOV's 42 APO's 5 STIP's 3 CO's Approximately 99% compliance with 1998 deadline. For LUST program : 26 Enforcement actions taken at LUST sites: 25 CO's; 1 Stip.	Enforcement
85	Review reports on leaking underground storage tank site.		Complete report review within 120 days.		3593 reports submitted for review; 3335 (93%) reports reviewed within 120 days.	Monitoring and Evaluation
86	Not reported in SA					
87	Make decisions involving risk-based corrective action in the LUST program.	Assist in risk-based policies.	Number of petroleum release sites closed adopting risk-based corrective action.	U5	933 sites closed adopting risk based corrective action.	Policies and Rules
88	Emergency response staff will participate in watershed based groups and geographic subarea groups	Support this MPCA activity.	Number of active watershed based emergency preparedness organizations.		11 watershed based organizations.	Program Specific Approaches
89	LUST program: Responsible Party Visits, Consultants Day.		# of visits	E4	71 responsible party visits; 0 consultant days.	Program Specific Approaches
90	Conduct responses and cleanups of significant incidents when the responsible party cannot or will not respond adequately.	Provide special expertise, equipment or contractors at the request of the state.	Number of fund-financed cleanups.	U6, U7	388 sites have become fund financed; 89 are currently active (as of 09/30/2001). During this period 46 FF sites submitted reports for review and 38 fund financed sites were closed.	Remediation
91	Approval of remedial investigation/corrective action design (RI/CAD) fund-financed projects and Closure Requests for LUST sites.	EPA will pursue new approaches to allow new technologies for cleaning up sites.	Number of RI/CADs. Approvals and remedial investigation closures.	U5	95 Corrective Action Designs approved and 933 closure requests approved.	Remediation
92	Not reported in SA					
93	Provide training and assistance to staff and to other groups in applying the GW Metro Model and data to specific remediation sites as well as other flow and transport models		Number of projects where assistance is provided.		23 people received direct help on 10 projects, five received training, 100's of users obtained databases and model files via the project website according to agency webstatistics.	Remediation
94	Subgoal W3:	To prevent groundwater degradation.				

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
95	Conduct focus groups, outreach and partnership meetings with those interested in above ground storage tanks (AST).	Assist as needed. Provide updates when available.	Number of focus group meetings and formal education outreach events.		5 AST/UST related training courses offered, 115 participants. MPCA will not conduct these activities in the future. No letters related to 1998 deadline sent.	Assistance
96	Conduct workshops, technical assistance visits and send letters on the underground storage tank program	Participate in site visits.	Number of workshops, technical assistance visits and letters sent on 1998 deadline.		5 AST/UST related training courses offered, 115 participants. MPCA will not conduct these activities in the future. No letters related to 1998 deadline sent.	Assistance
97	Provide information from the tanks database on request.	Assist as needed.	Number of formal information requests received.		~ 12 calls daily. 6 formal data requests filled.	Assistance
98	Conduct recertification workshops for tank owners and operators.		Number of people trained at certification and recertification workshops.		1 UST Certification course (10 attendees) 2 UST Recertification Courses (37 attendees).	Assistance
99	Issue Tank Monitor and The Dispenser newsletters to tank owners, operators and others interested in the tanks program.	Assist with articles on enforcement initiative.	Circulation of the newsletters.		3 issues of "Tank Monitor", circulation of 9200. 2 issues of "The Dispenser", circulation of 674. MPCA will not publish these newsletters in the future.	Assistance
100	Use Leaking Pond Guidance to determine potential ground water impact from waste water stabilization ponds.	none	% compliance with criteria	E2	No information available.	Compliance
101	Review all AST audit reports, conduct compliance site visits at AST facilities, and review annual permit reports.		Number of site visits per year. Number of annual reports reviewed. Number of audit reports reviewed.	E4, E5	Annual reports - 17; Site visits - 51; Audits 10.	Compliance Determination
102	Conduct periodic installation and underground storage tank facility inspections and audits.	EPA will perform facility inspections.	Number of installation and facility inspections and audits completed.	E4, E5	37 Installation inspections 114 Facility inspections 23 Removal inspections 232 Site visits 13 UST Audits.	Compliance Determination
103	Ensure that permit schedule and deadlines for upgrading AST facilities are met.		Number of facilities brought into compliance with permit upgrade schedules.	E3	AST inspections during this period: Major AST facilities:19, Regular AST facilities: 4, Total facilities:23.	Enforcement

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
104	Issue notices of noncompliance, administrative penalty orders and stipulation agreements against owners or operators of UST sites.	Referrals of enforcement cases.	Number of notices of noncompliance, administrative penalty orders and stipulation agreements issued.	E6	187 LOW's 7 NOV's 42 APO's 5 STIP's 3 CO's.	Enforcement
105	Issue permits to large above ground storage tank facilities in Minnesota.	Assist as needed.	Number of permits issued.		9 AST permits issued during time period.	Permitting
106	Not reported in SA					
107	Participate in meetings with Region 5 staff to discuss issues/resolutions on state program approval (SPA).	EPA provided a list of outstanding issues 12/1/98. There are 4-5 issues that need to be resolved. R5 and MPCA will work together to resolve them. R5 will make a determination on whether SPA is attainable in MN by 7/31/99.	EPA provided a detailed list of outstanding issues on 12/1/98. Once outstanding issues are resolved, then MPCA will receive State Program Approval (SPA).		State Program Approval was noticed in the Federal Register on August 6, 2001. No comments from the public have been received.	Program Specific Approaches
108	Not reported in SA					
109	Subgoal W4:	To protect, restore and maintain the chemical, physical, and biological integrity of the water in the Minnesota River Basin.				
110	Not reported in SA					
111	Not reported in SA					
112	Complete integrated, statistically based stream monitoring for the Minnesota River Basin.	Provide technical assistance on environmental indicators development.	Completion at least one year of integrated, statistically based stream monitoring in the Minnesota River Basin by 2004.		IBI was published in 1993. Approximately 100 sites were sampled in 2001, more sampling will be conducted in 2002	Monitoring and Evaluation
113	MDH leads, MPCA supports					
114	Development of a basin implementation plan for the Minnesota River Basin by January, 2000.		Identification of environmental objectives, outcome measures, shared goals, priorities and strategies for Minnesota River Basin.		The MN River Basin Plan was drafted and noticed in 2001 and completed Feb 2002.	Program Specific Approaches
115	Through basin planning, provide assistance and support for EPA's activities in restoration and enhancement of habitat.	Provide technical assistance to the State and other agencies in such areas as wetlands training, field identification and implementation of other federal programs.	Assistance provided		Provided though basin plans and other contacts.	Program Specific Approaches
116	Not reported in SA					
117	Subgoal W5:	To protect, restore and maintain the chemical, physical and biological integrity of the water in the Lake Superior Basin.				

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
118	Provide training, financial technical and planning assistance to local watershed managers.	Coordinate activities related to Coastal Environment Management.	Number of watersheds assessed and analyzed.		Basin Plan will be completed in Spring 2002 defining state of environment, prioritizing needs, and defining monitoring/implementation plan.	Assistance
119	Not reported in SA					
120	Not reported in SA					
121	Develop biocriteria for streams in the Lake Superior Basin by the year 2002.	Provide technical assistance for bioassessments.	IBI report for the Lake Superior Basin completed.		Sampling done. Not fully analyzed. No rpts. published. IBI has been developed for adjacent Upper Miss. River Basin.	Monitoring and Evaluation
122	Participate in Chemical list review process for the Integrated Atmospheric deposition network.	Coordinate biannual review and publish results on the Internet.	Review		Information is not available.	Monitoring and Evaluation
123	Assist Great Lakes partners in identifying Biodiversity Investment Areas (BIAs) and build local support for more thorough Assessment and Protection of BIAs.		BIA's identified		This project is funded directly by DNR. Output will not be reported in Self-Assessment.	Monitoring and Evaluation
125	Not reported in SA					
126	Not reported in SA					
128	Remedial Action Plan (RAP) implementation.	Provide financial and technical resources to progress toward sediment remediation in Duluth Harbor.	Implementation funds disbursed (Coastal Environmental Management funds for St. Louis River RAP).		CEM funds were dispursed to produce strategic plan, including delisting criteria, for the AOC.	Monitoring and Evaluation
129	Not reported in SA					
130	Participate in collaborative projects to address contaminated sediments and participate in review of risk analysis for beneficial use of dredged sediments.	Help communities address contaminated sediments in their harbors. Possible funding assistance through competitive grants process and technical support as appropriate.	Great Lakes water quality guidance completed. Sediment assessment and characterization at sites in three new Areas of Concern (AOCs).4 sediment cleanup demonstrations (out of 5 since 1996) will be completed.		No information available.	Remediation
131	Pollution-prevention plans are placed in permits.		Number of permits with pollution-prevention plans.		5 P2 plans. Will be 4, when two are combined.	Permitting
132	Implementing Great Lakes Water Quality Guidance.		Guidance implemented into permits.		Guidance implemented Ch. 7052 Spring '98.	Permitting
133	MDH leads, MPCA supports					
134	Not reported in SA					

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
135	Implement specific projects and other actions to reduce mercury and other binational strategy targeted substances.	Promote pollution prevention through activities and projects such as the Great Lakes Binational Toxics Strategy (BNS). Coordinate reports on progress.	Initiation of 8-13 projects in the Great Lakes Basin to demonstrate reduction of persistent, bioaccumulative toxic chemicals. Complete BNS analytical process for each Level 1 chemical.		Will not be reported in Self-Assessment.	Program Specific Approaches
137	Participate in coordinated Great Lake Indicators monitoring and the State of the Lake Ecosystem Conference.	Lead efforts to establish appropriate basin-wide environmental indicators.	Indicators established.		Will not be reported in Self-Assessment.	Program Specific Approaches
139	Not reported in SA					
140	Not reported in SA					
143	Not reported in SA					
144	Not reported in SA					
145	Subgoal W6:	To protect, restore and maintain the chemical, physical and biological integrity of the water in the Red River Basin.				
146	Provide training, financial technical and planning assistance to local watershed managers.	Provide technical assistance on planning issues.	Provide Information		Working w/local watershed mgrs. To coor. Ambient water quality monitoring consortium. Ongoing.	Assistance
147	Not reported in SA					
148	Complete integrated, statistically based stream monitoring for the Red River Basin.	Provide Technical assistance on environmental indicators development.	Completion at least one year of integrated, statistically based stream monitoring in the Red River Basin by 2004.		IBI published 1998. Coor. With ND, Manitoba and Region 8 for monitoring training. Organized monitoring committee, River Watch, and volunteer monitoring program. Ongoing.	Monitoring and Evaluation
149	Not reported in SA					
150	Not reported in SA					
151	Establish a continuing basin management organization, as identified in the Red River Basin Plan.	Support, assist, and where appropriate, participate with the basin organization in plan implementation.	Establish organization		Basin Team met 8 times; developed projects and funding priorities for water quality monitoring and stream restoration.	Program Specific Approaches
152	Not reported in SA					
153	Development of a basin implementation plan for the Red River Basin by October 1999.	Review, comment and buy in of the plan as it is being developed.	Identification of environmental objectives, outcome measures, shared goals, priorities, and strategies for Red River Basin.		Established monitoring program for new watershed projects in the Red River Basin.	Program Specific Approaches

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
154	Implement the Red River Basin WQ Plan as per the time line specified in the Plan.	Support implementation of the Plan, including assistance with coordination among Federal agency and funding targeted toward basin management.	Implemented the plan in conformance with the Plan's time line.		Secured funding for two staff for year one of the program. Conducted an inventory of monitoring activity; supported citizen monitoring at 50 locations; developed strategy for new monitoring programs; developed one watershed monitoring assessment project. Working on data management.	Program Specific Approaches
155	Subgoal W7: To protect, restore and maintain the chemical, physical, and biological integrity of the water in the Lower Mississippi River Basin.					
156	Provide training, financial technical and planning assistance to local watershed managers.	Provide technical assistance on planning issues.	Number of watersheds assessed and analyzed.		12 watersheds assessed and analyzed. Technical workshop held for watershed coordinators/technicians in 2001.	Assistance
157	Complete integrated, statistically based stream monitoring for the St. Croix River Basin.	Provide technical assistance on environmental indicators development.	Complete stream monitoring		Progress on report includes developing a proposed format and outline and purchase of software to analyze data.	Monitoring and Evaluation
158	Support wellhead and source-water protection in the basin.	Offer guidance in source-water protection and coordinate state activities.	Requests responded to; wellhead and source-water protection integrated into basin planning.	W2	Will not be reported in Self-Assessment. MDH is lead and request that MPCA does not report to EPA their work.	Policies and Rules
159	Not reported in SA					
160	Develop basin information document for the Lower Mississippi River Basin, 1) the Cedar River Basin, 2) the St. Croix River Basin, and the Upper Mississippi River Basin.	Review comment and buy-in of plan as it is being developed.	Basin information document developed for Lower Mississippi and Cedar River Basins by December 2000. St. Croix and Upper Mississippi-December 1999.		Lower Mississippi And Cedar Rivers Basins Information Documents completed in June 2001. Upper Mississippi River Basin Information document completed in mid-2000. St. Croix River Basin information Document is drafted, but not finalized.	Program Specific Approaches
161	Develop basin information document for the Rainy River Basin.	Review comment and buy-in of plan as it is being developed.	Basin information document developed by December 2000.		Basin Information Document (BID) to be completed in 2003.	Program Specific Approaches

Clean Water Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
162	Develop basin information document for Des Moines River Basin and Missouri River Basin.	Review comment and buy-in of plan as it is being developed.	Basin information document developed for Des Moines by 2000 and Missouri River Basin 2001.		Work is started but not complete. New Basin Coordinator to be hired 2002.	Program Specific Approaches
163	Organize effort to identify floodplain and upland areas where habitat restoration and enhancement could occur within the watershed of the Lower Mississippi River Basin.	Provide technical assistance to the State and other agencies in such areas as wetlands training, field identification and implementation of other federal agency programs.	Areas identified.		Basin scoping document and Basin Plan completed in 2001	Program Specific Approaches
164	Through basin planning, provide assistance and support for EPA's activities in restoration and enhancement of habitat in the Lower Mississippi River Basin.	Provide technical assistance to the State and other agencies in such areas as wetlands training, field identification and implementation of other federal agency programs.	Assistance provided.		Basin plans lays out assistance activities. On going through Basin Management	Program Specific Approaches
165	Through basin planning, provide assistance and support for EPA's activities in restoration and enhancement of habitat in the St. Croix River Basin and the Upper Mississippi River Basin.	Provide Technical assistance to the State and other agencies in such areas as wetlands training, field identification, and implementation of other federal programs.	Critical habitats are identified.		Ongoing through Basin Management	Program Specific Approaches
166	Not reported in SA					

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
1	Subgoal L1:	To manage risks to human health or the environment resulting from actual or potential exposure to contaminated soils.				
2	Provide education on use of Voluntary Investigation and Cleanup (VIC) program guidance documents.		Number of cleanup/reuse decisions made with increased public participation.		Several public meetings held at sites where community groups are involved in planning of redevelopment issues; Discussions with ECOS, ASTSWMO; outreach with public workgroups, attorneys, bankers, insurance agents, and consultants; and Trade and Economic Development workshops.	Assistance
3	Provide VIC site data electronically to all interested parties.		Update and maintain the database on the external web site.		No longer tracked due to funding cuts.	Assistance
4	Conduct post-enrollment surveys of VIC customers to determine level of satisfaction with program.		Results of completed surveys.		Activity is dropped per EnPPA Amendment #4	Assistance
5	Develop, revise or maintain and provide VIC program guidance documents (education and outreach materials).		Number of documents provided.		Documents are now available on MPCA's web page.	Assistance
6	Participate in general outreach activities including partnering with local government, community groups and other potential VIC program users.		Conduct about 24 outreach activities each year. Increased level of public participation.		Numerous individual meetings, conferences. VIC staff keep comprehensive list of interested parties for distributing VIC outreach materials. Participated in area wide community relation effort. 2001 Brownsfields Conference display, DTED workshop, coordinated efforts.	Assistance
7	Gather, track and analyze information regarding institutional controls and other VIC program indicators.		Develop an institutional control policy.		Activity is dropped per EnPPA Amendment #4	Assistance
8	Assess the overall customer satisfaction for the Property Transfer File Evaluation program by the end of 1999.		Percentage rating of overall customer satisfaction.		No longer tracked due to funding cuts.	Assistance
9	Process requests for information in the Property Transfer File Evaluation program.		Number of requests processed.		434 requests	Assistance
10	Provide advice to emergency responders by phone or at site.		Number of prevention and preparedness training, meeting, inspection or review events.		15 plan reviews / inspection sessions.	Assistance
11	Conduct outreach and training for responsible parties and other emergency responders.		Number of boom schools, newsletters, training sessions, etc.		46 training sessions done.	Assistance

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
12	Participation or leadership in response exercises.	Participation or leadership in response exercises.	Number of exercises.		16 drills and exercises.	Assistance
13	Schedule site visits with LUST owners/operators to assist with site investigation and cleanup.		Number of LUST site visits.	E4	71 LUST site visits.	Assistance
14	Permitting of land-treatment facilities.		Number of facilities permitted.		Number of petroleum contaminated facilities permitted for land application is 84 (as of 09/30/01).	Assistance
15	To foster improved spill prevention and preparedness among large petroleum tank facility operators.		Number and percent of large petroleum tank facilities provided with assistance concerning spill prevention and preparedness.		This information is no longer tracked due to program cuts.	Assistance
16	To investigate four additional large petroleum storage tank facilities per year, to facilitate corrective action and to ensure proper closure of petroleum tank release sites.		Number of large petroleum storage tanks investigated. Number of petroleum tank release sites with corrective action plans. Number of petroleum tank release sites properly closed.	E5	13 Investigations; 9 Corrective Action Plans; 22 Closures	Assistance
17	Provide information on LUST guidelines, timely investigation and appropriate cleanup.		Level of assistance provided concerning LUST guidelines, investigations and cleanup.	E7	Assistance provided during 71 LUST site visits.	Assistance
18	Provide expedited report review and liability assurance letters for participants in the voluntary petroleum investigation and cleanup program (VPIC).	Provide guidance to MPCA as Region 5 learns from its brownfields activities.	Number of participants in the VPIC program.		176 participants in the VPIC program. 112 participants were tank related and 64 participants were non-tank related.	Assistance
19	Plan and participate in spill drills at major facilities.		Number of staff participating in spill drills.		Approximately 50 staff participating in exercises.	Assistance
20	Provide training to tank facility owners.		Number of training sessions		5 AST/UST related training courses offered, 115 participants. MPCA will not conduct these activities in the future. No letters related to 1998 deadline sent.	Assistance
21	Assist tank facilities in spill prevention and preparedness.		Number of tank facilities seeking assistance.		No information is available.	Assistance
22	Conduct focus groups, outreach, and partnership meetings with those interested in regulated tanks.	Assist as needed. Provide updates when available.	Number of focus group meetings and formal education outreach events.		22 AST/UST related training courses offered, 689 persons trained. 69 LUST site visits. 71 LUST site visits.	Assistance

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
23	Conduct workshops and technical assistance visits on the underground storage tank program.	Participate in technical assistance visits.	Number of workshops, technical assistance visits. Percent of USTs meeting requirements.	U2	22 AST/UST related training courses offered, 689 persons trained. 69 LUST site visits. 71 LUST site visits.	Assistance
24	Provide information from the tanks database on request.	Assist as needed.	Number of formal information requests received.		Information is not tracked.	Assistance
25	Conduct recertification workshops for tank owners and operators.		Number of people trained at certification or recertification workshops.		1 UST Certification course (10 attendees) 2 UST Recertification Courses (37 attendees).	Assistance
26	Issue Tank Monitor and The Dispenser newsletters to tank owners, operators and others interested in the tanks program.	Assist with articles on enforcement initiative.	Circulation of the newsletters.		3 issues of "Tank Monitor", circulation of 9200. 2 issues of "The Dispenser", circulation of 674. MPCA will not publish these newsletters in the future.	Assistance
27	Review adequacy of facilities' prevention and preparedness measures.	Review adequacy of major facilities' prevention and preparedness	Number of formal response plan reviews.		15 formal response plans reviewed.	Compliance Determination
28	Review Remedial Investigation/Corrective Action Design reports on LUST sites.		Number of cleanups initiated.	U5	9 active systems installed (includes active free product removal)	Compliance Determination
29	Review requests for closure on leaking underground storage tank (LUST) sites.		Number of confirmed releases versus number of LUST closures. Number of site closures.	U5	663 confirmed releases; 933 LUST closures.	Compliance Determination
30	Review all above ground storage tanks (AST) audit reports, conduct compliance site visits at AST facilities, and review annual permit reports.		Number of annual reports, audit reports and site visits reviewed. Number of compliance visits.	E4, E5	3 AST audits received.	Compliance Determination
31	Conduct periodic installation and underground storage tank (UST) facility inspections and audits.	EPA will perform facility inspections.	Number of installation and facility inspections and audits completed .	E4, E5	37 Installation inspections 114 Facility inspections 23 Removal inspections 232 Site visits 13 UST Audits.	Compliance Determination
32	Take enforcement actions when necessary against responsible parties, tank owners or operators, contractors, etc.	Provide guidance and assistance on policies, regulations and EPA Region 5 enforcement. Referrals of enforcement cases.	Number of enforcement actions issued.	E6	187 LOW's 7 NOV's 42 APO's 5 STIP's 3 CO's; For LUST sites:26 Enforcement actions taken at LUST sites: 25 CO's; 1 Stip	Enforcement
33	Ensure that permit schedules and deadlines for upgrading AST facilities are met.		Number of facilities brought into compliance with permit upgrade schedules.	E3	Information is not available.	Enforcement
34	Review reports on leaking underground storage tank site.		Complete report review in 120 days.		3593 reports submitted for review: 3335 (93%) reports reviewed within 120 days.	Monitoring and Evaluation

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
35	Issue permits to large above ground storage tank facilities in Minnesota.	Assist as needed.	Number of permits issued.		9 new permits. USTs are not considered large tanks and therefore are not reported. Same as W3 row 105.	Permitting
36	Develop and update Superfund policies and administrative reform, legislative initiatives, to new initiatives and customer-desired outcomes.		Policies developed or updated.		This activity is dropped per EnPPA Amendment #5.	Policies and Rules
37	Develop guidance for the implementation of new policies.		Guidance documents developed.		This activity is dropped per EnPPA Amendment #5.	Policies and Rules
38	Maintain risk-based guidance documents.	Review and provide comments upon	Guidance documents updated and fine tuned.		This activity is dropped per EnPPA Amendment #5.	Policies and Rules
39	Make decisions involving risk-based corrective action in the LUST program.	Assist in risk-based policies.	Number of petroleum-release sites closed adopting risk based corrective action.	U5	933 LUST closures adopting risk based corrective action.	Policies and Rules
40	EPA Activity only					
41	Emergency response staff will participate in watershed-based group and geographic subarea groups.	Support this MPCA activity.	Number of active watershed-based emergency preparedness organizations.		11 watershed-based emergency preparedness organizations.	Program Specific Approaches
42	LUST program: Responsible Party Visits, Consultants Day.		Number of responsible party visits/consultants days.		71 responsible party visits; 0 consultant days.	Program Specific Approaches
43	Participate in meetings with Region 5 staff to discuss issues/resolutions on state program approval (SPA).	EPA provided a list of outstanding issues on 12/1/98. There are 4-5 issues that need to be resolved. R5 and MPCA will work together to resolve them. R5 will make a determination on whether SPA is attainable in MN by 7/31/99.	EPA provided a detailed list of outstanding issues on 12/1/98. Once outstanding issues are resolved, then MPCA will receive State Program Approval (SPA).		State Program Approval was noticed in the Federal Register on August 6, 2001. No comments from the public have been received.	Program Specific Approaches
44	Identify, prioritize and assess contaminated sites.	Review reports of state investigations to screen for potential need for federal action.	Identify all sites requiring response action by June 30, 2001.		Baseline Evaluation Project completed January 2000.	Remediation

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
45	Identify, prioritize and assess contaminated sites.		Complete Statewide Baseline Site Evaluation by 12/31/99. Continue initial evaluation/screenings & complete 4 expanded preCERCLIS assessments at potential SF sites in MN to determine program oversight (VIC, State Superfund, CERLIS, etc.) by 6/30/00.		Completed evaluation of 2300 sites. Further work required at 75 sites.	Remediation
46	Identify, prioritize and assess contaminated sites.		Complete Statewide Legislative required Dump Assessment survey on @ 50 closed unpermitted municipal solid waste dump sites by June 30, 2001 to determine appropriate remedial program oversight. (State Superfund, State Closed Landfill Program, VIC, CERCLIS		Dump Assessment Study completed. 46 dump sites evaluated. 4 sites recommended for State Superfund Action. Report submitted to Legislature in February of 2001.	Remediation
48	Site Assessment: Traditional Program.		Complete 3 Intergrated Assessments/Expanded Site Investigations by 6/30/00. Address issues concerning sites identified during the Inspector General and General Accounting Office audits related to NPL eligibility and RCRA deferral by 6/30/01.		Completed Intrgrated Assessment Reports for 4 sites. Completed field work on 2 CERCLIS sites.	Remediation
50	Identify Responsible Parties.		Conduct initial responsible party search on all identified sites by Dec. 31, 2001.		Initial search done on all CERCLIS and PLP sites.	Remediation
51	Conduct necessary cleanup actions at prioritized sites.	EPA and its partners will complete cleanup construction at one federal facility and one federal-lead national priority list site by 1999.	Number of cleanups initiated. Number of final remedy constructions completed.	U4	12 sites were delisted from the Permanent List of Priorities, the State Superfund list.	Remediation
52	Conduct responses and cleanups of significant incidents when the responsible party cannot or will not respond adequately.	Provide special expertise, equipment or contractors at the request of the state.	Number of fund-financed cleanups.	U4	388 LUST sites have become fund financed; 89 are currently active (as of 09/30/2001). During this period 46 FF sites submitted reports for review and 38 fund financed sites were closed.	Remediation

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
53	Approval of remedial investigation/ corrective action design (RI/CAD) fund financed projects and Closure Requests for LUST sites.	EPA will pursue new approaches to allow new technologies for cleaning up sites.	Number of remedial investigation/ closures.	U3, U5	95 Corrective Action Designs approved and 933 closure requests approved.	Remediation
54	Continue to provide training to staff and regulated community on risk based guidance documents.		Lateral team training events.		LUST related consultant's day did not occur during this period.	Remediation
55	<u>Subgoal L2:</u>	To minimize the impact of current and past solid waste disposal on the land.				
56	Develop and host annual Solid Waste Seminar and Solid Waste Facility Operator Training Sessions.		Number of participants at training sessions.		9 sessions; 1255 participants.	Assistance
57	Provide training and technical assistance to owners and operators of motor vehicle salvage yards so that at least 85% have implemented Best Management Practices by 1999.		Percent of salvage yards implementing Best Management Practices.		85% of inspected scrapyards are practicing at least some BMPs. Program ended June 30, 2001.	Assistance
58	Return to compliance solid-waste facilities with ground water contamination exceedances through corrective action.		Number of solid-waste facilities annually brought back to compliance with corrective action.		Information not available.	Compliance Determination
59	Oversee solid-waste facilities to ensure no ground-water contamination exceedances.		Number of solid-waste facilities required to have monitoring systems. Number of solid-waste facilities with adequate monitoring systems installed.		Annually amount fluctuates between 4 and 8.	Compliance Determination
60	Remediation. By 2005, Install/operate gas collection and venting or flaring systems for 100% of closed landfills which may significantly contribute gases (methane, etc.) to the greenhouse problem.		Percent of closed landfills with monitoring systems (as needed).		Estimated at 50%	Monitoring and Evaluation/ Remediation
61	Review and process applications for new solid waste facilities, and amendments to existing facilities.		Number of applications and amendments processed annually. Open solid waste facilities regulated bi-annually.		12 new SW permits. 18 renewals and modifications (from Delta).	Permitting
62	Write Ground Water and Solid Waste Policy Analysis Reports for the State Legislature.		Number of policy analysis reports written annually.		Information not available.	Policies and Rules

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
63	By 2005, Develop Land Management Plans for 100% of the closed landfills & promote conversion to productive use. Land management plans provide for beneficial long term use of the land surface above and surrounding landfills.		Percent of closed landfills with Land Management Plans.		Other priorities have taken precedence over this activity. However there are 2 RFP's in the metro area.	Program Specific Activity
64	Issuance of notices of compliance to eligible closed landfills. By 2000, 100% of closed landfills will have signed Binding Agreements (BAs) and Notices of Compliance (NOCs) issued. These controlling documents will enable MPCA staff to implement measures.	Upon notification that the MPCA has issued notice of compliance for a National Priorities List site, EPA will take action in accordance with EPA/State Landfill Program Agreement.	Number of landfills receiving notice of compliance annually. Percentage of sites with BAs & NOCs completed.		95%	Remediation
65	Oversight of closed landfills undergoing design and/or construction.		Number of closed landfills undergoing design and/or construction annually.		Annually amount fluctuates between 4 and 8.	Remediation
66	Complete construction of remediation of closed landfills. Remediation, By 2005, 100% of closed landfills will have human exposures controlled via upgraded covers. This includes construction and long-term maintenance.	Review and approve MPCA's five-year reviews of the effectiveness of remedies at former National Priorities List landfills.	Number of closed landfills with remediation completed annually. Percentage of facilities with controls in place.		Estimated at 60%	Remediation
67	By 2005, Collect \$\$\$ through the Insurance Recovery Program.		Amount of \$ collected.		As of 2//02, \$49,791,319.	Remediation
68	By 2004, 100% of closed landfills will have ground water/surface water/landfill gas monitoring systems in place to measure/assure protectiveness of human health and the environment.		Percent of closed landfills with monitoring systems (as needed).		Estimated at 80%	Program Specific Activity
69	<u>Subgoal L3:</u>	To reduce the quantity of hazardous waste released to the environment.				
70	Not reported to EPA					
71	RCRIS					
72	RCRIS					
73	RCRIS					
74	RCRIS					
75	RCRIS					

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
76	Continue implementation of combustion initiative.		Progress made on combustion initiative.		Completed 3M incinerator Major Permit Modification: Public Notice 3/1/00;Administrative Order 3/21/00;Public Meeting 4/5/00;Public Notice Final 4/17/00; U.S. EPA Applicability determination 9/20/00; EPA Region V meeting 10/4/00. MACT Standards: Notice of Intent to Comply; Public meeting, and Applicability determination no longer required by rule, but nevertheless completed 7/31/01. Permit reissuance: permit application received; Trial Burn 7/26/01; remaining items are completeness and technical review; Human Health/Ecological Risk Assessment, Title V permit, and final permit reissuance.	
77	Adopt mandatory federal RCRA rules needed to maintain program authorization.	Provide guidance and model legislation as appropriate.	Rules adopted.		MPCA's Rcra rule priority is to adopt Federal rules. MPCA plans to adopt Federal LDR rules by reference.	Policies and Rules
78	Adopt optional, less stringent federal rules to improve rules.	Provide guidance and model legislation as appropriate.	Rules adopted.		Rules being drafted, expect to be adopted in 2002	Policies and Rules
79	Not reported to EPA					
80	Apply for authorization of RCRA program amendments.	Provide guidance and model legislation as appropriate.	Rules adopted.		EPA reviewed a package of MPCA rule and application documents and issued final equivalence determination on 8/23/00. US. Filter	Policies and Rules
81	Not reported to EPA					
82	Not reported to EPA					
83	Not reported to EPA					
84	Subgoal L4:	To mitigate the impacts of released hazardous waste on human health and the environment.				
85	Cleanup assistance including but not limited to fact sheets, workshops, conferences, site visits, work plan reviews and inspections.	Support and participate in MPCA efforts, as appropriate.	Number of audits, complaints, inspections, site visits & document reviews.		42 audits with a land component were submitted (22 UST-only and 20 multi-media with a land component).	Assistance
	RCRIS					
87	Appropriate enforcement response tools directed towards remediation (including supplemental environmental projects).	Assist in program for supplemental environmental projects.	Number and types of enforcement tools used.	E6	1 SEP completed.	Enforcement
88	RCRIS					
89	RCRIS					
90	RCRIS					
91	RCRIS					
92	RCRIS					

Uncontaminated Land Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data/ Information	Function
93	Not reported to EPA					
94	Not reported to EPA					
95	RCRIS					
96	Subgoal L5:	To reduce the quantity of hazardous waste generated.				
97	Pollution-prevention assistance including but not limited to fact sheets, workshops, conference, compliance assistance projects, site visits and inspections.	Support and participate in MPCA efforts, as is appropriate.	Number of staff hours(FTEs). Executive summary report.		Information about pollution prevention activities can be found in the Appendix. Approximately 1 FTE.	Assistance
98	Support participation in household hazardous waste collection through education materials, training and partnering with public & private entries.		Number of training sessions		8 training sessions, totaling 216 County Government employee training completions. Courses included; initial Safety (24hr), Annual Safety Refreshers, Hazard Categorization (DOT) Hazardous Materials packagings & TSD facility protocols), and Learning Trunk Demonstrations for schoolroom usage.	Assistance
99	Audits, complaints, inspections, site visits and document reviews directed towards prevention.		Number of staff hours (FTEs) directed towards reducing the generation of hazardous waste. Number of inspections, complaints and site visits conducted by the seven Metro Counties.		Time spent is unknown. 4 checklists developed, 5 HW audits received.	Compliance Determination
100	Appropriate enforcement response tools (emphasize supplemental environmental projects directed towards pollution prevention).	Make supplemental environmental project (SEP) information available to the MPCA.	Number and types of enforcement tools executed including supplemental environmental projects targeted towards hazardous-waste reduction requirements. Number of and types of enforcement tools executed by the seven Metro Counties.	E6	1 SEP completed.	Enforcement
101	RCRIS					
102	Repoeted under QAP					
103	Not reported to EPA					
104	Not reported to EPA					
105	Not reported to EPA					
106	Not reported to EPA					
107	Not reported to EPA					
108	Not reported to EPA					
109	Not reported to EPA					

Multimedia Coordination Activities

Row #	MPCA Activity	EPA Activity	Output Measure	CPM	Data / Information	Function
1	Subgoal M1:	To facilitate interested parties as they investigate potentially contaminated commercial and industrial properties, and facilitate the cleanup of sites when necessary to return or maintain productive use.				
2	Provide useable information data to property stakeholders.		Number of requests for information.		See L1 rows 2 and 3.	Assistance
3	Market the availability of this service to stakeholders throughout the state.		Number of requests for information.		See L1 rows 5 and 6.	Assistance
4	Develop and maintain risk based guidance documents.		Guidance documents maintained.		Documents maintained.	Assistance
5	Provide assistance in evaluating risk to human health and ecology from remediation sites.		Number of projects where assistance provided.	E4	Human Health assisted - 17; Ecological Risk ; approx. 20 sites.	Assistance
6	See M3					
7	Site Assessment: Brownfields.	Develop "comfort" letters and/or prospective purchaser agreements as needed.	Complete 4 Phase I/Phase II investigations (or equivalent) per year at Brownfield sites in MN. Amount of cooperative agreement funds awarded.		Completed 6 brownfield assessments.	Remediation
8		Award cooperative agreement funds for brownfield assessments and to capitalize revolving loan funds to clean up brownfield properties.	Amount of cooperative agreement funds awarded.		Received \$200,000 from EPA.	Remediation
9		Respond to all requests to assist with transfer of federal properties for reuse or redevelopment.	Number of properties to enter VIC program. Number of acres available for reuse or redevelopment.	U4	8 sites; 50 acres available for redevelopment; 1500 projects with more than 11,000 acres available for reuse.	Remediation
10			Complete 4 Phase I/Phase II investigations (or equivalent) per year at Brown field sites in MN. Amount of cooperative agreement funds awarded. Nuber of properties to enter VIC. Number of acres available for reuse or redevelopment.		Same information as rows 7,8, and 9 above. Row 10 will be deleted.	
11	Subgoal M2:	To protect human health and the environment from the effects of persistent bioaccumulative toxics.				

Multimedia Coordination Activities

12	Continue the Resource Conservation and Recovery Act (RCRA) initiative for Lake Superior.	Provide a forum for MPCA to share ideas with other states through monthly calls and information mailings through the Great Lakes Mercury Work group.	Forum and monthly calls provided.		Work has continued.	Assistance
13	Administer mercury testing of incinerator sources.		Number of mercury performance tests each year.	E5	35 tests	Compliance Determination
14	Fish tissue monitoring project (in association with the MN Dept. of Natural Resources and the MN Dept. of Health) and study of mercury bioaccumulation.		Percent of Lake Acres and Stream Miles assessed for the need for fish consumption advisories.	W3	This activity is done by DNR and MDH and is supported by MPCA. No data is reported here.	Monitoring and Evaluation
15	Update the mercury emission inventory.		Report the mercury emission update in the Biennial Air Toxics Report; Percent Reduction in mercury releases from Minnesota Sources (1990 baseline).		See Air toxics report.	Monitoring and Evaluation
16	Assess sediment and fish tissue contaminated by PBTs as appropriate.		Number of assessments conducted.		MDH activity.	Monitoring and Evaluation
17	Continue to participate in the national Mercury Deposition Network.		Number of national Mercury Deposition Network sites maintained in Minnesota.		4 MN sites.	Monitoring and Evaluation
18	Identify and Assess suspected "Hot Spot" areas of contaminated sediment in the St. Louis River AOC.		Number of "Hot Spot" areas assessed.		The Mercury Deposition Network is a part of the National Atmospheric Deposition Program (NADP); NO FEDERAL FUNDING is provided for monitoring sites. Not reported in Self-Assessment.	Monitoring and Evaluation
19	Conduct preliminary assessments of contaminated sediment and Sediment Remediation Scoping Projects in St. Louis River AOC.		Number of preliminary assessments underway or completed. Number of sediment remediation scoping projects underway or completed.		2 Remedial Investigations/Feasibility studies under development - St. Louis River/Interlake/Duluth Tar Superfund Site and USX Superfund Site; 1 Sediment Scoping project - Minnesota Slip	Monitoring and Evaluation
20	Develop "Hot Spot" Management Plans.		Number of "Hot Spot" Management Plans developed or in development.		0 developed or in development; USX Superfund Site and Interlake Superfund Site are in remedial investigation phase.	Monitoring and Evaluation
21	Develop indicators for status and trends work in the St. Louis River AOC.		Number of indicators developed for use in St. Louis River AOC.		8 sediments indicators.	Monitoring and Evaluation

Multimedia Coordination Activities

22	Develop Sediment Quality Targets.		Sediment Quality Targets Established.		Level I and level II SQTs for the protection of aquatic life have been established for 8 metals, 13 PAHs, total PAHs, total PCBs, and 10 pesticides. SQTs for the protection of wildlife and humans are adopted for total PCBs, benzo(a)pyrene, 8 pesticides and dioxins and furans.	Monitoring and Evaluation
23	Conduct site investigations as necessary for PBT contaminated sites.		Number of site investigations performed.		NOT YET REPORTED	Monitoring and Evaluation
24	Implement the Recommendations of the Mercury Advisory Council.		Cumulative Number and Type of Mercury Advisory Council recommendations that have been put in practice.		Report to Legislature January 2002 on progress of Mercury Advisory Council recommendations.	Policies and Rules
25	Explore the strategy of bans on nonessential mercury-containing products.		Progress towards identifying and reducing nonessential use of mercury.		Effective January 1, 2002 thermometers with mercury are banned from sale in Minnesota. Through state vehicle procurement process, eventual ban on mercury vehicle components through bid process.	Policies and Rules
26	Improve the likelihood that mercury containing products is not released to the environment.		Percent of mercury that is recovered per year (recycling, household hazardous waste collection, clean sweeps, etc.).		Phase out of dairy manometers initiated in 1998 was completed in 2001. Several large industrial facilities voluntarily removed mercury components. State HHW programs continue to expand and promote mercury collection programs. Process of quantifying recovered mercury is being developed.	Policies and Rules
27	Promote the reduced use and release of mercury through Voluntary Agreements.		Number agreements submitted by facilities emitting greater than 50 pounds of mercury per year. Total Number of agreements submitted.		15 Voluntary Agreements have been recognized. Most firms have sent progress reports. One utility firm has reduced annual mercury emissions by 60 pounds. Another utility firm plans to repower a plant and reduce annual mercury emissions by up to 35 pounds. A wastewater treatment facility plans to install control equipment that will capture 70 per cent of uncontrolled mercury emissions.	Policies and Rules

Multimedia Coordination Activities

28	Develop and implement strategy to address priority persistent, bioaccumulative toxics chemicals.		Milestones are met in project plan.		MPCA has sent a proposed strategy to EPA.	Policy and Rules
29	Evaluate potential impacts to human health and environment from mercury pollution through environmental review program.		Number of env. Review documents public noticed; Number of env. Review documents from other RGUs reviewed and commented on.		No information available.	Program Specific Activities
30	Establish an Agency-wide PBT work group.		Work Group Established.		MPCA workgroup is working on identifying multi-media modeling frameworks.	Program Specific Approaches
31	Continue participation in the Lake Superior Work Group.		Participation level in the Lake Superior Work Group.		Either Carri Lohse-Hanson and Pat Carey have attended all the Superior Work Group meetings in this time period and Carri participated heavily in the Chemical Committee.	Program Specific Approaches
32	Continued participation in State of the Lakes Ecosystem Conference (SOLEC) indicator development.	Continue to lead development and implementation of SOLEC indicators.	Involvement level in the indicator development.		MPCA remains involved. Staff attended SOLEC meeting in Fall of 2000.	Program Specific Approaches
33	Participation in the development and implementation of the Great Lakes Binational Toxics Strategy.	Take lead in development of the Great Lakes Binational Toxics Strategy implementation plan.	Target reductions met by given dates. Number of plans or recommendations implemented.		Staff did not attend meetings during the time period due to the intense work demands of the accelerated LaMP. However, staff have reviewed materials and attended some committee conference calls.	Program Specific Approaches
34	Listed Metals Advisory Council shall review and make recommendations on the specified products which contain 90% of the listed metals in specified products (1997-98 baseline).		Recommendations forwarded to MPCA Commissioner by July 1, 2000.		Recommendations were forwarded to the Commissioner in CY 2000-2001. Listed Metals rulemaking is underway.	Program Specific Approaches
35	Continue implementation of the Lake Superior Initiative Workplan (Lake Superior Great Lakes Initiative (GLI) work).		Number of Priority 1 and 2 activities completed or in progress.		Work is continuing.	Program Specific Approaches
36	Subgoal M3:	To protect human health and the environment from the effects of Feedlots.				

Multimedia Coordination Activities

37	Provide training and assistance in evaluating cumulative effects from feedlots using air dispersion models.		Number of assistance activities.		No training on this issue was provided.	Assistance
38	Monitor selected feedlots for compliance with hydrogen sulfide standard.		Number of monitored feedlots in compliance with the hydrogen sulfide standard.	E2	6 sites monitored by MPCA, Pork Producers monitored another 10 sites	Monitoring and Evaluation
39	Conduct research on ammonia from selected feedlot types.		Number of research initiatives underway.		Sopecifics not available, MPCA not actively involved due to staff shortages.	Monitoring and Evaluation
40	Evaluate potential impacts to human health and environment from feedlots through environmental review program.		Number of EAWs/EISs public noticed.			Program Specific Activities
41	Provide training for County Feedlot Officers, Producer Groups, Soil and Water Conservation Districts and Board of Water and Soil Resources.		Number of training functions provided.			Assistance
42	Continue delegation of feedlot program to counties.		Number of delegated county feedlot programs.			Program Specific Activities
43	Promote development and use of Manure Management Plans.		Number of guidance documents, sampling plans and fact sheets produced.		1 - manual on land application in sensitive areas, 2 - packages developed w/MN Extension Service on the development of a manure management plan, 5 different factsheets developed on various aspects of manure management	Program Specific Activities
44	Continue development of the Minnesota feedlot inventory, including the identification of CAFOs by 2001.		Number of new feedlots added to or removed from the inventory per year. Number of federally defined CAFOs.		Registration is nearly complete and was scheduled for completion December 2001, 637 registration completed at end of September 2001, about 500 applications received before/on October 1, 2001, for NPDES permits	Program Specific Activities
45	Pending amendment of this EnPPA, the MPCA will continue to inspect CAFOs as per previous agreement(s).		Number of CAFO inspections conducted.	E5		Compliance Determination

Multimedia Coordination Activities

46	Issue NPDES permits for Confined Animal Feeding Operations (CAFOs) of 1000 animal units (AUs) or greater.		Number of permits issued. Number of permits renewed. Number of new permits applied for. Number of expired permits.		6 issued as rest are requesting the General Permit and applications due October 1, 2001. 342 interim and construction permits were also issued for sites less than 1000 animal units. Expired permits are 10 and applications have been received. See item 44 for applications received.	Permitting
47	Issue General NPDES permit for animal feedlots with between 1,000 and 2,000 AUs by the Oct. 1, 1999 legislative mandate.		General permit issued Number of new applications received under the general permit.		General Permit issued May 31, 2001. Based on applications received before/on October 1, 2001, about 90 percent (450) will be eligible for General NPDES permit	Permitting
48	Subgoal M4:	To protect human health and the environment from human imports that degrade the quality of life.				
	No measures in M4 will be reported to EPA.					

Appendix

Amendments to the 1999-2001 EnPPA

Amendment #1 Activity is not reported to EPA.

Amendment #2. Add the following language to the EnPPA under **Subgoal L5c:** *To reduce the quantity of hazardous waster generated.* New language is needed to address the additional work MPCA will carry out on Persistent Bioaccumulative Toxics (PBT). Funding is provided by EPA through an additional \$200,000 grant.

New language:

Activity 1

Identify trends in PBT generation more accurately by utilizing the new programming options and coding in our computer system.

Output measure

Assign computer staff or hire a contractor to update Delta programming focused on PBT data collection and interpretation. Date of hire. Date of completed data collection.

Function

Administrative

Environmental Objective

L5c

Data /Information

See 2000 Self-Assessment. No new information.

Activity 2

Implement site visits or contacts conducted to reduce the amount of mercury in municipal solid waste ash and in medical waste combustor emissions.

Output measure

The number of site visits or contacts conducted to reduce the amount of mercury in municipal solid waste ash and in medical waste combustor emissions.

Function

Assistance

Environmental Objective

L5c

Data/Information

No information available.

Activity 3

Provide pollution prevention assistance for PBT wastes, by training MPCA staff and focusing inspections at the targeted businesses with PBT waste

Output measure

The number of hazardous waste inspections targeted at generators with PBT wastes. The number of staff trained about PBT wastes

Function

Assistance/Compliance Determination

Environmental Objective

L5c

Data/Information: No targeted RCRA inspections. MPCA has a plan developed to use internally to educate and train staff about PBTs. This plan has been presented to staff and management.

Activity 4

Develop policies and alliances with the demolition industry to keep PBTs out of demolition wastes.

Output measure

The number of alliances formed or target date to form an alliance.

The number of demolition waste inspections conducted to ensure that PBT containing materials are removed prior to demolition.

The number of small businesses sent outreach materials regarding proper management and source reduction of PBTs.

Function

Assistance/ Compliance Determination

Environmental Objective

L5c

Data/Information

Number of inspections to keep PBTs out of demolition wastes is 100. For the second measure, please see the information provided in the next activity.

Activity 5

Develop policies, alliances, and fact sheets for small businesses and industry associations to reduce use of PBTs in products and keep PBTs out of the waste stream.

Output measure

The number of assistance/educational tools distributed to businesses regarding mercury-free alternatives.

The date when the fact sheet is available. The date when polices and alliances are in place.

Function

Assistance

Environmental Objective

L5c

Data/Information

We have reached approx. 2700 businesses through an article our newsletter. It promoted EPA's Energy Star Small Business program. The program helps the environment by encouraging small businesses to become more energy-efficient, thereby cutting emissions at electrical power plants, including mercury.

The cost for producing and mailing the article was about \$125 plus about 2 hours staff time.

Self audit checklist development
Mercury Gauges (Dry Cleaners) 10 hours staff time; 20 businesses contacted
Fluorescent Light Bulbs - Mercury and PCBs (Dry Cleaners, Fiberglass, and Automotive Repair) 14 hours staff time; 25 businesses contacted

Secondary Aluminum Production NESHAP - (dioxin) letter and notification form to 152 businesses; 48.5 hours staff time

Activity 6

Coordinate with businesses that use mercury containing devices and the facilities that receive mercury contaminated waste to educate them about options.

Output measure

The number of businesses that use alternative options.

Function

Assistance

Environmental Objective

L5c, M2a, M2b

Data/Information

See above Data/Information under activity 5.

NOTE: Pollution prevention activities that are included in the Appendix and will also be sent to Mr. Phil Kaplan at EPA Region 5. Any questions regarding MPCA's Pollution prevention activities should be directed to Cindy Hilmoe at 651- 296-7783.

Pollution Prevention Incentives for States Final Progress Report for July 1, 1999, through June 30, 2001

BG985688-00, Performance Partnership Grant 00/01
Minnesota Pollution Control Agency

This is the final report for work conducted according to the Minnesota Pollution Control Agency's (MPCA) Pollution Prevention Incentives for States (PPIS) grants as folded into assistance agreement BG985688-00, Performance Partnership Grant 00/01. The report covers the period from July 1, 1999, to June 30, 2001.

The information below is divided into the following headings:

- P2 Technical and Regulatory Assistance
- P2 and Sustainability;
- Enforcement Actions, Permit Negotiations & Rules Development;
- Innovations;
- Reinvented Information;
- Performance Measurement; and

- Networking and Administrative Activity.

Abbreviations include:

- MPCA (Minnesota Pollution Control Agency)
- OEA (Minnesota Office of Environmental Assistance)
- MnTAP (Minnesota Technical Assistance Program)
- P2 (Pollution Prevention)
- P2/S (Pollution Prevention/Sustainability)
- EMS (Environmental Management Systems)
- PPIS (Pollution Prevention Incentives for States grant)
- PBT (Persistent, Biocumulative, Toxic)
- WWTP (Waste Water Treatment Plant)
- NPDES (National Pollutant Discharge Elimination System)

P2/S Technical and Regulatory Assistance

- ***Case-By-Case Assistance:*** An initiative to create a P2-oriented multimedia inspections checklist was abandoned until staff were more receptive. Informal discussions with individual staff helped identify opportunities and barriers to P2/S regulatory integration. A series of availability sessions in St. Paul and selected regional offices were held to promote P2/S integration into regulatory programs. MPCA staff participated in EMS roundtables and supported the development of a peer-to-peer training meeting for a small number of companies in Owatonna, Minnesota. These information exchanges focusing on increased take-up of EMS to promote both the future use of P2 tools and sustainability (primarily through use of a life-cycle view), and gaining recognition for and leveraging past P2 implementation. Technical assistance was provided to North District enforcement staff on dimensions and cost of setting up an EMS at a mining operation. Requests were taken for information and resources regarding P2/S at remediation sites. A contact log is provided in Attachment 1.

- **Targeting pollutant priorities and sectors:**

NESHAPs: MPCA staff were kept abreast of developments concerning US EPA's "Once In, Always In" policy through PPIS staff participation in selected teleconference calls conducted by the P2 & Sustainability Committee, STAPPA/ALAPCO. Plans to promote P2 during implementation of the Secondary Aluminum Production NESHAP was abandoned due to a last minute exemption of most of the affected industries.

PBTs: In August 2000, thirty staff and supervisors convened to exchange information that, ultimately, is hoped to lead to a multimedia PBT or Toxics reduction strategy. Improved collaboration will hopefully result in better monitoring programs, more useable databases, cross- or multimedia prioritization schemes and, eventually, more meaningful reductions. The main benefit to date has been in cross-program communication. The focus has been on establishing multimedia exposure models. Once these issues are resolved, greater attention may be paid to P2/S opportunities. To date, the effort has produced a comprehensive matrix showing shared chemicals of concern for all the toxics programs, and initiated a compilation of MPCA's environmental goals and objectives, including reduction objectives; the Coordinated Toxics Reduction Network, which meets quarterly to semi-annually to share information across media programs; and an Intranet site where project updates are posted.

Printers: MPCA and other public programs have withdrawn (at least for now) from the Minnesota Great Printers initiative. Printing Industry of Minnesota (PIM, the industry association) continues to operate the program with increased improvement standards for participation, including a requirement that PIM conduct audits before Great Printer status can continue. If project participants accept the changes, MPCA may consider getting re-involved, particularly if the agency can leverage the PIM-conducted audits to monitor compliance and performance status.

Out-state WWTPs and Phosphorus: Cindy McComas of Minnesota Technical Assistance Program (MnTAP) has collaborated with MPCA staff on the Phosphorus Management Plan, a component of NPDES permits issued in the Minnesota River Basin that promotes P2. MPCA P2/S staff proposed tracking MnTAP-targeted POTWs to ensure that P2/S elements were incorporated into NPDES permits, if possible. To date, this coordination has not been possible. MPCA staff also helped organize a conference focusing on the St. Croix River watershed on February 24, 2000.

Metal Finishers Strategic Goals Program (formerly Metal Finishing CSI): A summary is provided under the subheading "Innovations."

Pollution Prevention and Sustainability

- ***Brownfields and Remediation Site P2/S:*** MPCA published an Internet-based, interactive "Toolkit for Enhanced Opportunities for P2 and Sustainable Activity at Remediation Sites" after 2 years of stakeholder meetings and development. The URL address is <http://www.pca.state.mn.us/programs/p2-s/remediation/index.html>.) The Toolkit promotes P2/S options suitable to cleanup remedies, ongoing business operations and redevelopment plans, so most of the information also applies to Greenfield sites. Presentations or poster sessions were held at several conferences. Pilots or projects active during the reporting period include in-situ remediation of chlorinated solvents using potassium permanganate, ground water cleanups using golf course irrigation and a

constructed wetland, and sustainable development at a Brownfield site. Remediation staff has been unable to record their P2/S activity in the MPCA Remediation Program database.

- ***Industrial Ecology initiative:*** This initiative originally involved pilot projects and education, working with the Green Institute of Minneapolis and other partners, and through the Minnesota Design Team, Met Council comprehensive community plans, Center for Neighborhoods. Little has been accomplished within this original framework. MPCA helped sponsor an Eco-industrial development conference entitled “The Greening of Economic Opportunities: Natural Capitalism and Eco-Industrial Development in Firms, Industries and Communities,” held in October 2000 in the Twin Cities. MPCA joined a partnership of state agencies to develop and propose a Smart Building Executive Order in March 2000. This included eco-industrial park concepts.
- ***Smart Growth:*** PPIS staff participated in a series of in-depth discussions about how the wastewater, stormwater, brownfields, and air quality programs can be adapted to promote “smarter” growth and development choices and patterns. MPCA’s “Framework for Action to Address the Environmental Impacts of Growth and Development” was based on these discussions. The discussions themselves and consequent interactions among staff have led to day-to-day promotion of P2 and sustainability.
- ***Minnesota Design Team:*** MPCA worked with communities and partners to incorporate sustainability into community visions. In May 2000, staff participated in a 3-day-long design charrette with the newly combined city of Norwood-Young America. The vision and preliminary drawings included redevelopment of a currently industrial corridor into community-connecting greenspace with bike trails and affordable housing and the potential for commuter rail service. Other community visioning events targeted the Mississippi River corridor and Brownfields in South St. Paul and St. Paul (Trout Brook Greenway).
- ***Environmental Review:*** This mandatory state program helps developers and communities identify opportunities for P2 and sustainability concepts. During the grant period, Agency reviewers received ongoing training in such topics as industrial ecology, smart growth, the Natural Step sustainability framework, the Rocky Mountain Institute’s natural capitalism principles, and other relevant sources of ideas and case studies. The MPCA staff promotes these concepts within MPCA written approvals and correspondence and less formal opportunities.

Enforcement Actions, Permit Negotiations & Rules Development:

- ***Air Quality Total Facility Permit Application Review and Outreach:*** In the fall of 2000, in an effort to address backlogged permits at major facilities, P2/S and Innovations staff recommended that a Part 70 permit issuance prioritization strategy be implemented. Included in the strategy would be efforts to get Part 70 permit holders or applicants with actual emissions which would or could, with some improvement, qualify for a less resource-intensive state permit or get out of the Part 70 process entirely. This would

reduce backlog and provide a hook for pollution prevention outreach. (As of December 2001, outreach is being conducted with 14 permit holders through a MPCA-MnTAP collaboration and discussion for how the outreach will translate into reduction in regulatory burden is underway.)

- **Supplemental Environmental Projects (SEPs):** MPCA staff pursued setting up an EMS at a mining operation as part of a SEP. Based on that initial contact, MPCA is beginning to consider the possibility of using EMS requirements as SEPs in enforcement settlements. Policy is being developed in the context of this test case, and PPIS staff are supporting the effort through research, consultation and in the future, training.
- **National Pollutants Discharge Elimination Systems (NPDES), Phase II:** The will implement NPDES Phase II requirements relating to municipal separate storm sewer systems (M4) by 2003. By 2002, the MPCA must develop and publicize a new permit program. PPIS staff provides input during this development process.
- **Rules Development:** PPIS staff advised the MPCA Rules Lateral Team on how to include P2 criteria for prioritizing revision of rules on an annual basis. P2 incentive language was included in the Omnibus Air Rule. P2 alternatives were included in the Great Lakes Initiative Rules.

Innovations

- **Environmental Management Systems:** In November 2000, MPCA, led by PPIS staff submitted a proposal to EPA under the ECOS/EPA Innovations Agreement to develop experimental EMS-based agreements with IBM-Rochester and Cortec in White Bear Lake. These experimental agreements were designed to test whether MPCA could significantly change (streamline) its regulatory oversight of companies with good performance criteria and sound Environmental Management Systems (EMSs). MPCA would take an experimental step towards exchanging current governmental oversight for internal-to-the-company, third party audit, and stakeholder oversight, with MPCA in a greatly reduced monitoring role. The purpose was to come up with real regulatory incentives which would get more companies into EMSs and the good performance criteria (including use of P2), while giving MPCA another way to disinvest resources from companies whose performance and impact no longer merited full use of conventional regulatory tools.

MPCA P2/S/I staff have developed a first draft of an Agreement with IBM-Rochester, containing specific facility-wide air emission limits, a general hazardous waste facility-wide cap approach, web-based quarterly reporting, within-the-project enforceability, reduction of conventional compliance inspections in favor of EMS auditing, EMS and EMS auditing by ISO 14001 standard with some augmentation, close-out of IBM's RCRA TSD permit, continuation of ongoing RCRA corrective action, and increased stakeholder involvement - all agreed to by MPCA and IBM and included within the November proposal. The first draft is under discussion with EPA, the company, and stakeholders.

If completed, the Agreement will reward IBM's past and current P2 efforts

addressing regulated pollutants, lower their air emissions limits, introduce a hazardous waste cap with incentives for meeting or reducing below the cap, and create a true regulatory incentive model unique in the country. Also, within their EMS process, IBM will be pursuing the reduction of nitrate-bearing wastewater (currently unregulated) out of concern for their contribution to the Mississippi basin and the Gulf of Mexico.

MPCA and OEA continue to discuss an overall regulatory/non-regulatory program focusing on EMSs and their use by Minnesota organizations.

- **Project XL:** The objectives of the Andersen Windows project include improved environmental performance and removal of barriers to P2 implementation. An innovative performance ratio measurement based on VOC emissions has been instituted as part of the facility air permit. This measure will serve as an indicator of P2 progress and a driver for the company to continue implementing P2 improvements. P2/S/I staff have also worked to roll state P2 planning and progress reporting requirements into Andersen's internal EMS and into TRI Form R reporting, respectively. This development and the implementation experience should help MPCA determine if this kind of reporting consolidation and reduction could be an incentive offered to companies making or committing to P2 progress.

See <http://www.pca.state.mn.us/programs/projectxl/andersen.html> for more information. Where previously it had been thought that Andersen could serve as a pilot facility to test electronic data reporting and web-site availability, the duration of the XL permit's development has precluded that possibility. As of mid-June 2001, the company and the MPCA were still working on modeling air toxic and particulate emissions in an effort to complete the issuance of the Title V portion of the multi-media Project XL permit. Andy Ronchak is the project manager.

Headway made in the US Filter Project XL slowed after the company was sold, however it appears to be back on track with significantly different focus. The proposed U.S. Filter XL project is intended to encourage hazardous wastes not currently recovered to flow to a "better management practice" by giving U.S. Filter and generators of certain hazardous wastes regulatory flexibility. This would result in regulatory relief for the customer; thus, creating an incentive to recover hazardous wastes currently being neutralized and sewered. For more information on this project, see <http://www.pca.state.mn.us/programs/projectxl/usfilter.html>. Active earlier in the development, MPCA P2/S/I staff may become more active on this site once MPCA program staff and US EPA work out some of the issues involved and the project moves to implementation. While the synergy between this project and the Metal Finishers Strategic Goals Initiative remains unclear, P2/S/I staff will continue to look for opportunity.

- **Metal Finishers Strategic Goals Program (formerly Metal Finishing CSI):** For more information, go to Item D on <http://www.pca.state.mn.us/programs/pubs/ei-4qtr99.pdf>. This initiative has evolved into the Metal Finishers 2000 Initiative (Metal Finishers Strategic Goals Program or SGP). Fourteen metal finishing firms in the Twin Cities have pledged to become cleaner by reducing hazardous emissions, cheaper by saving money and providing economic advantages, smarter by conserving resources under the SGP. MPCA is working in cooperation with the Minnesota Association of Metal Finishers, Materials Productivity, other agencies and business groups on a workshop to be held in

October 2000. With a primary audience of metal finishers, the aim of the workshop was to promote wider company participation in the Strategic Goals Program, provide training and consultation on up-to-date P2 practices for the industry, and keep participants current on regulatory compliance. In November 2000, the Minnesota Association of Metal Finishers received a P2 focused grant for \$75,000. The primary focus of the grant will be to conduct on-site third party assessments of the fourteen facilities to identify pollution prevention opportunities. Two of the fourteen assessments have been completed as of mid-June 2001.

- ***MCEA/KOCH Refinery Public Outreach Project:*** The Minnesota Center for Environmental Advocacy (MCEA), Koch Petroleum Group L.P. (Koch) and the MPCA collaborated to establish a set of environmental performance measures for Koch's refining facility in Rosemount, Minnesota, and a user-friendly Internet website that will be used to voluntarily report ongoing and annual performance, including pollution prevention projects, to the public. The project will assure that the data can be verified independently for accuracy. This website was completed in the spring of 2001. <http://www.kochpinebend.com/default.asp>
- ***MPCA/EPA MOU:*** Helpful discussions between MPCA and EPA to develop and implement a memorandum of understanding for a streamlined process that would allow the MPCA to develop and implement regulatory innovation experiments (i.e., to provide flexibility with federal regulations) ended in an impasse. The key goals were to improve environmental performance, reduce administrative burden and provide greater public understanding.

Reinvented Information

- **Case Studies:** Nineteen case studies for projects that incorporate P2 and enhanced environmental outcomes, including sustainability, were developed, in part, with a P2Rx grant. An inventory of staff P2 projects through 1998 was placed on the MPCA Intranet for general information and to spur staffs' imagination for regulatory integration projects. A spreadsheet containing the quantitative and qualitative results recorded in the case studies is posted on the MPCA P2/S Web Site. PPIS staff and MPCA Information Services staff made preliminary plans for transforming the inventory into a database to ensure greater accessibility and usability.
EMS Case Studies: Using a variety of existing information, such as the P2 case study development methodology developed in the course of MPCA's P2Rx work and the national EMS database, PPIS staff supervised an intern to develop a similar case study approach for EMS implementation. The purpose is the same as it was with P2: to develop local case studies which will persuade more Minnesota companies to adopt EMSs for continual improvement, ideally through P2.
- **MPCA P2 Web Page:** The MPCA P2/S Web site was reorganized and expanded to include new case studies, a directory of staff champions, an Environmental Outcomes Table summarizing the benefits described in the case studies and other features.
<http://www.pca.state.mn.us/programs/p2-s/index.html>
- **MPCA Internal Reports:** PPIS staff worked to have P2/S results and success stories included in new internal reports aimed at MPCA executives and managers. The reports will be used to assess program performance for the purpose of identifying environmental priorities and ensuring service delivery.
- **MPCA Fact Sheets:** Nancy Ellefson continues to incorporate P2 information into MPCA program fact sheets, when appropriate.
- **New Staff P2/S Training:** A P2/Sustainability module was developed for the new staff training at MPCA. Due to a hiring freeze, the module has not been implemented.

Performance Measurement

- **Agency-wide P2 Integration Assessment and Performance Measures, including Environmental Performance Partnership Agreement (EnPPA):** In March 2000, PPIS staff began an effort with MPCA Environmental Outcomes staff, OEA and MnTAP to develop goals and objective that would lead to P2/S performance measurement to be included in MPCA performance reports and the EnPPA. A planning document presents goals, objectives and activities from which measures can be developed. A retreat was held to collect feedback on priorities and projects from other staff at the MPCA and OEA.

Networking and Administrative Activities

- ***Small Business Loan Program:*** PPIS staff sit on the steering committee for the MPCA Environmental Improvement Loan Program. Promotion and impact measurement is in process. The program lent about \$100,000 per quarter in below-market loans to companies for environmental improvement projects. The most common type of loan given is for P2 equipment upgrades, frequently in the dry cleaning industry. The focus this year, however, has been on fiberglass industries.
- ***P2 Roundtables and Media Organizations:*** PPIS staff are represented the Great Lakes Regional Pollution Prevention Roundtable (GLRPPR) Steering Committee, the Pollution Prevention Integration and Innovations Committee and Sustainability Discussion Group of the National Pollution Prevention Roundtable (NPPR). PPIS staff occasionally join the monthly teleconference call of the STAPPA/ALAPCO Pollution Prevention and Sustainability Committee.
- ***PPIS Partners:*** Monthly meetings are held by MPCA, Office of Environmental Assistance and Minnesota Technical Assistance Program P2 staff to share information and to conduct projects.
- ***MPCA Waste Buster Award:*** P2/S staff made several successful nominations of MPCA staff to receive this monthly award for conservation and prevention efforts.
- ***Grant Administration:*** In winter 2000, MPCA staff reviewed progress of the current PPIS work plan and shifts in the focus of work for the remainder of the year were identified. The following topics were highlighted in an amendment to the PPG 00/01:

<ul style="list-style-type: none"> - Agency-wide P2 Integration Assessment and Performance Measures - National Environmental Standards for Hazardous Air Pollutants - National Pollutants Discharge Elimination System - Regulatory Innovations 	<ul style="list-style-type: none"> - Multimedia Compliance Inspections - Remediation Sites and Smart Growth - Outreach and Information Reinvention - On-Call Program Assistance - Networking - Persistent, Bioaccumulative and Toxic Compounds
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Final Report Preparation and Contact

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