STATE OF COLORADO



Colorado Department of Public Health and Environment

Fifth Annual Report to the Colorado General Assembly on the Status of the Hazardous Waste Control Program in Colorado

Submitted to the Colorado Legislature by the Division of Hazardous Materials and Waste Management Colorado Department of Public Health and Environment February 1, 2006

DOCUMENT INFORMATION

Title:	Fifth Annual Report to the Colorado General Assembly on the Status of the Hazardous Waste Control Program in Colorado
Principal Author:	Joe Schieffelin, Hazardous Materials and Waste Management Division, Compliance Program Manager
Contributing Authors/ Technical Assistance:	Hazardous Materials and Waste Management Division: Walter Avramenko, Hazardous Waste Corrective Action Unit Leader Joyce Williams, Hazardous Waste Compliance Unit Leader Frederick R. Dowsett, Compliance Coordinator
Subject:	The report describes the status of the Hazardous Waste Control Program and efforts to streamline the program so that it can be implemented at the lowest possible cost without jeopardizing the statutory intent.
Statute:	Section 25-15-301.5(3), C.R.S.
Date:	February 1, 2006
Number of pages:	21

For additional information or copies:

Joe Schieffelin, Compliance Program Manager Hazardous Materials and Waste Management Division Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Colorado 80246-1530 (303) 692-3356

Fifth Annual Report to the Colorado General Assembly on the Status of the Hazardous Waste Control Program in Colorado

INTRODUCTION

Colorado's Hazardous Waste Control Program is responsible for ensuring compliance with laws pertaining to the management of hazardous waste. The authority for this program is in the Colorado Hazardous Waste Act, 25-15-101 et seq., and the federal Resource Conservation and Recovery Act (RCRA). The U.S. Environmental Protection Agency (EPA) has authorized Colorado to implement the program, and by doing so, the authority to implement requirements for the management of hazardous waste in Colorado rests primarily with the state. Colorado was authorized for the base hazardous waste regulatory program in November 1984. In July 1989, federal authorization was granted to Colorado for significant additions to the base program that were created by the 1984 Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act. One major element of that added authority was corrective action, which provided authority to investigate and clean up releases of hazardous waste constituents into the soil, surface water, or ground water at hazardous waste facilities.

Primary elements of the Hazardous Waste Control Program (the Program) include compliance assistance; compliance monitoring and enforcement; corrective action; permitting; and information management. Each of these program elements is discussed in the following sections. In addition, this report includes sections discussing ongoing program authorization by EPA and the status of program funding.

As of December 2005, the Hazardous Waste Control Program regulates 34 treatment, storage and disposal facilities, 12 of which are active permitted facilities, 8 are closing, and 14 have closed with hazardous waste in place and need post-closure monitoring and/or maintenance. In addition, the Program regulates 115 large quantity generators, 861 small quantity generators, 89 transporters and at least 3,514 conditionally exempt small quantity generators of hazardous waste. The true number of conditionally exempt small quantity generators is not known, as they are not required to provide any notification to the state - the ones known are a result of voluntary notifications and complaint inspections. Finally, the Program regulates 364 facilities at which corrective action is required.

The Colorado Hazardous Waste Act originally provided authority to assess cash fees only to the facilities that were required to have permits, which include all active treatment, storage and disposal facilities. The revenue from these fees, combined with some grant money from EPA, provided adequate funding for the Hazardous Waste Control Program for many years. Colorado's only commercial hazardous waste disposal facility paid a large portion of these fees. However, as waste receipts at this facility declined substantially beginning in 1998, the resulting decrease in revenue to the Hazardous Waste Control Program created a serious funding shortfall.

To resolve the shortfall, the Hazardous Materials and Waste Management Division carefully analyzed the functions and structure of the program, convened a task force of stakeholders to obtain input on options to resolve the problem and pursued legislation concerning the authority to assess fees. One result of those efforts was passage by the General Assembly of Senate Bill 00-177. This legislation modified the Colorado Hazardous Waste Act by 1) allowing the assessment of cash fees to generators of hazardous waste, not just treatment, storage and disposal facilities, and 2) by clarifying the legislative intent regarding implementation of the program. The following report is submitted to comply with one provision of the legislation: SB 00-177 requires an annual report to the General Assembly beginning on February 1, 2002, describing the status of the Hazardous Waste Control Program and the efforts of the Colorado Department of Public Health and Environment to carry out its statutory responsibilities at the lowest possible cost without jeopardizing the intent of the statute.

ACCOMPLISHMENTS, IMPROVEMENTS, AND INNOVATIONS

Since passage of SB 00-177, the Colorado Department of Public Health and Environment's Hazardous Materials and Waste Management Division (the Division) has continued to streamline processes and develop innovative ways to improve the Hazardous Waste Control Program. The Program goal is to be <u>"Efficient and Effective"</u>. Each of our Program elements is asked to demonstrate its efficiency and effectiveness through a series of metrics, some of which are reported in the following sections.

Compliance Assistance

A goal of the Hazardous Waste Control Program is for all regulated facilities to be in compliance with state law and regulations. The traditional inspection and enforcement program serves as one primary mechanism for reaching that goal. However, compliance assistance is another integral element for obtaining and maintaining compliance. The General Assembly recognized the value and importance of compliance assistance in that one of the expectations set out in SB 00-177, at Section 25-15-301.5(2)(g), C.R.S., is for the department to "establish a preference for compliance assistance with at least ten percent of the annual budget amount being allocated to compliance assistance efforts." In Fiscal Year (FY) 2001, FY 2002, FY 2003, and FY 2004, the program devoted approximately 16%, 16%, 20%, and 19% respectively, of regulatory staff time to compliance assistance. In FY 2005, approximately 16% of staff time was devoted to compliance assistance.

The Program has developed a broad range of compliance assistance services to assist the regulated community in managing hazardous waste. These compliance assistance services include the following activities:

- A full-time customer assistance and technical assistance phone line (303-692-3320);
- A wide range of hazardous waste guidance documents and compliance bulletins;
- Development and maintenance of an extensive Web site;
- Compliance assistance site visits through the Generator Assistance Program (GAP);
- Waste management training provided to industry; and
- Work groups, including program technical staff and stakeholders from regulated entities, who review and develop regulations, guidance, and training materials.

Program staff continue to develop additional services as more effective compliance tools are identified. For instance, we put considerable effort into developing useful and easily searched information on our website. Besides the normal access to regulations, guidance documents, and policies, the website now offers up-to-date information on household hazardous waste, hazardous chemicals used around the home, data mapping capabilities that show where hazardous waste facilities are in Colorado, compliance information about facilities, and information on upcoming hazardous waste trainings being offered by Program staff. During FY 2005, the Hazardous Materials and Waste Management Division's Internet homepage received 995,716 hits, an 28% increase over the number from the previous year.

During FY 2005, the Division provided 28 compliance-assistance training sessions to industry around the state, which reached approximately 1,076 people. The training sessions covered a variety of topics, and included a focus on hazardous waste and environmental regulations. These trainings included presentations by Program and local agency staff, as well as members of the regulated community. Much of the training is an outgrowth of sessions jointly developed by the Hazardous Waste Program and the Hazardous Waste Roundtable, a group of environmental managers from various facilities that handle hazardous waste. The program will be expanding its electronic materials to include training modules that can be adapted for either computer-based training or classroom presentations.

Program inspectors routinely incorporate compliance assistance and pollution prevention into the ~300 compliance inspections performed each year. Inspectors provide guidance documents to facilities during inspections as well as person-to-person advice and consultation. In FY 2005, the program conducted 51 site visits (discussed later under the Generator Assistance Program) that had compliance assistance as the single major focus.

The Division maintains a system of guidance information for regulated parties through both print and electronic media. This includes an automated technical assistance telephone line for common waste management questions and a technical assistance phone line staffed during business hours to provide information for more complex or detailed regulatory guidance. Through the technical assistance phone line, Division technical assistance staff responded directly to 2,731 calls and 575 e-mails during FY 2005.

During FY 2005, compliance assistance staff found, through feedback at the trainings they conducted, that the help they provided on universal wastes, hazardous waste identification, and used oil space heaters was timely, helpful, and much appreciated.

Compliance Monitoring and Enforcement

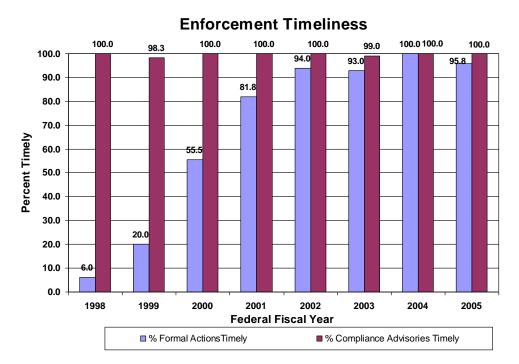
Efficiency and effectiveness are very important in compliance monitoring (inspections) and enforcement. Efficiency allows adequate coverage of the regulated universe so that compliance assessments can be completed and deterrence of non-compliance occurs. Efficiency measures include such items as work output per employee and timeliness of inspection and enforcement activities. Effectiveness ensures that inspection and enforcement activities protect public health and the environment. Effectiveness measures include improving compliance rates within the regulated community. An example of the improvements made in staff efficiency is presented in Figure 1. This graph illustrates the large gains in staff inspection efficiency that occurred in years just before and after SB 00-177, and the maintenance of those high levels in recent years. The figure shows that current inspection efficiency is almost 94 percent higher than in 1999, and over 400 percent higher than in 1997. It should be noted that every inspection carries administrative responsibilities, such as preparation of a report, tracking and data entry, all of which are also being performed on time and effectively.¹



<u>FIGURE 1</u>

The higher number of inspections continues to result in the issuance of more formal and informal enforcement actions. Yet, as illustrated in Figure 2, even with more enforcement actions, the timeliness of formal enforcement actions, as measured against standards established by EPA and adopted by the Colorado program, has improved significantly and been maintained at a very high level. This graph shows that timeliness for informal actions has remained high and that timeliness for formal actions has improved substantially. This is an example of significant improvements made in both staff efficiency and process efficiency.

¹ As judged by EPA in their oversight role and recorded in their 1999 - 2005 End-of-Year Reports reviewing Colorado's Hazardous Waste Program.



Program inspectors perform about 300 on-site inspections each year. In FY 2005, 348 inspections were conducted. This included inspections at 26 of the 34 facilities that treat, store, or dispose (TSDs) of hazardous waste, inspections at 48 of the 115 Large Quantity Generators (LQGs) of hazardous waste, inspections at 121 of the 861 Small Quantity Generators (SQGs), and 75 inspections that resulted from citizen complaints.

The compliance monitoring and enforcement program can also show that it is effective. SB 00-177 requires that the Program's inspections "focus on major violations of regulations that pose an immediate and significant threat to human health and the environment." To accomplish this, an annually updated inspection priority system has been developed and is being used to schedule inspections for the 115 large quantity generators of hazardous waste. As can be seen in Figure 3, this prioritized emphasis on Colorado's LQGs is having a demonstrable effect. Figure 3 shows that, for those LQG facilities where violations are discovered, the total number of violations has steadily decreased over the last several years. We are finding fewer problems at these important facilities. In addition, Figure 4 demonstrates that violations of regulatory requirements that have a direct relationship to environmental impacts and/or worker and public health impacts have also declined.

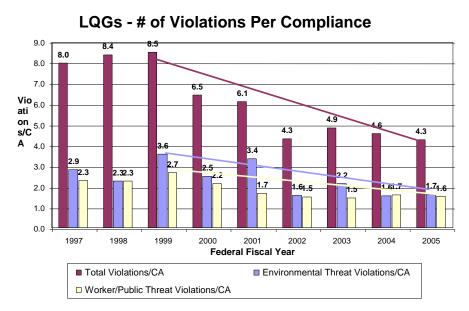
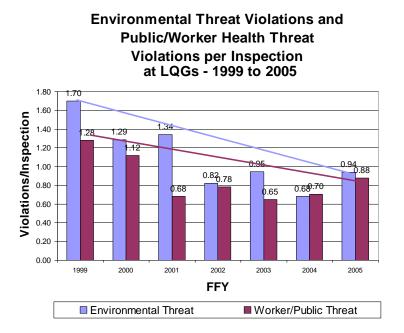


FIGURE 4



For the 861 Small Quantity Generators of hazardous waste in Colorado, we cannot show a similar improvement in compliance rates. We believe the reason for this is that we have been regulating these facilities in an ineffective manner. There are too many facilities in the universe to be effectively regulated in an inspection/enforcement mode with a small inspector staff. To solve this problem, we implemented two pilot projects to test potentially better regulatory methods. The first of these projects was called the Compass Project, undertaken in 2002. Within the Compass Project, the Division tested whether direct mailings to facilities of a

comprehensive and facility-specific set of compliance assistance materials had any measurable effect on improving compliance rates. The results of the Compass Project show that, with very few exceptions, direct mailings were *ineffective*.

The second project, called SCORE, undertaken in 2003 and 2004, was much more successful. The SCORE project tested whether self-certification and reporting of compliance by Small Quantity Generators to the Division was an effective and accurate method of measuring and improving compliance. Participants in the SCORE project were asked to fill out a compliance checklist, certify its accuracy, and submit it to the Division. Within 30 to 45 days of receiving a facility's self-certification, the Division sent its inspectors to the facility and they completed an identical checklist. The results of the facility's responses and the inspectors' responses were compared. The results suggest that there was a very large amount of agreement between the responses. In cases where the facility reported they were compliant, but the Division did not, the primary reason seems to be a misunderstanding of the regulatory requirement, not purposeful mis-reporting.

Because of the success of the SCORE project, the Division developed and implemented a SCORE 2 Project in 2005 that expands the self-certification program. The SCORE 2 Program, also called the Self-Certification Program, required self-certification of all Small Quantity Generators in the auto-body repair business sector – 75 small businesses around Colorado. The Division performed 15 follow-up inspections of these facilities. The results of this program showed that businesses that self-certify their compliance had a significantly better compliance rate than those that did not. Figure 5, below, compares the compliance rate of the 10 most commonly violated requirements within the general Small Quantity Generator universe, with those facilities that participated in the SCORE Project, and with those that were required to participate in the Self-Certification Project.

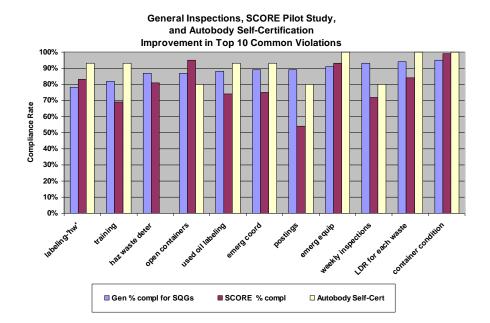


FIGURE 5

Figure 5 shows that the self-certification program out-performed both other groups – 7 out of 10 self-certification results are better than the general universe, and 9 out of 10 are better than the SCORE participants. Because of this success, the Division will be expanding the Self-Certification Program into other business sectors in FY 2006. The advantages of the Self-Certification program are that 1) we get 100% coverage of those groups that are required to participate rather than the 14% coverage we get through traditional inspections, 2) each facility in that group gets "re-trained" and re-acquainted with the regulatory requirements each time they certify their compliance (and lack of familiarity with the regulations has been a major problem), and 3) compliance rates improve.

The Division has continued the Generator Assistance Program, or GAP. This program is aimed at small businesses, although any business may participate. GAP offers businesses an on-site evaluation of their hazardous waste management practices and suggests ways to improve and/or come in to compliance. In addition, GAP offers assistance with waste minimization and pollution prevention opportunities. Any findings of non-compliance during a GAP site visit are given enforcement amnesty so long as the facility expeditiously corrects the problems and no immediate danger to human health or the environment is being caused by the violations. This program is increasingly popular with the regulated community, as it becomes more widely known. The Division performed 51 GAP compliance assistance site visits in FY2005. The GAP program has its own website: www.cdphe.state.co.us/hm/gap/gaphom.asp

Corrective Action

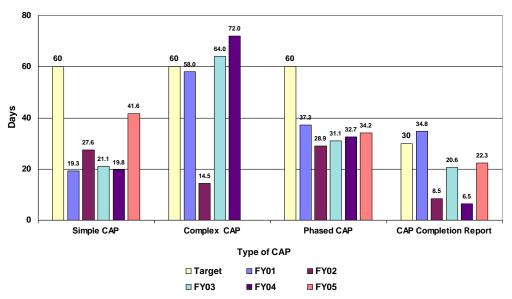
Corrective action, which is the environmental remediation and clean up arm of the Hazardous Waste Program, continues to be a substantial part of the Program's workload. Many improvements in efficiency and effectiveness continue to be implemented in the corrective action portion of the program. These improvements include: 1) regulatory changes implementing Corrective Action Plans, or CAPs, which are much more expeditious cleanup plans than traditional corrective action plans, 2) development of new guidance, 3) improvements in the design of staff performance plans, and 4) increased management emphasis on internal process times. The result of these improvements has been a very tightly managed program that has performed significantly better than the national average and which has, in fact, been able to project with relatively high confidence when all major hazardous waste cleanups in Colorado will be complete.

The most significant process improvement continues to be the use of the Corrective Action Plan process, a relatively new regulatory mechanism for initiating corrective action at facilities. Previously, oversight of environmental clean-up activities under the corrective action program required either a hazardous waste permit or a compliance order. Both of these processes are lengthy and resource-intensive for facilities that only need to conduct clean-up activities. Under the new provision, a facility may submit a "Corrective Action Plan" to the Hazardous Waste Control Program. Once approved, the Corrective Action Plan works very much like, and is enforceable as, either a permit or an order. However, since using this approach is voluntary for the facility, it can be implemented much more quickly than either of the other mechanisms, and requires fewer resources. It continues to be a popular mechanism among industries that are regulated by the department and it has streamlined the program substantially.

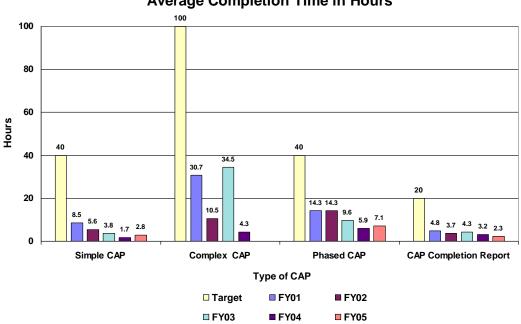
In conjunction with the Corrective Action Plan (CAP) mechanism, guidelines were put in place for level of effort and total elapsed time associated with reviewing documents submitted under Corrective Action Plans. These guidelines have been useful to both managers and staff in assessing our efficiency and the program has been successful in meeting its targets. Figure 6 shows the average total elapsed time (from document submittal by a facility to Division review and feedback to a facility) as compared to the target levels for various types of documents. Figure 7 shows similar information for the actual review time (actual hours spent by Division staff reviewing each document).

The FY 2005 data on Figures 6 and 7 show that Program staff continue to perform at high efficiency – both compared to the targets in each category, and when compared to past years. Figure 6 shows some deterioration in the amount of elapsed time in which Program staff get comments back to a facility. The reason for this is that in FY 2005 the corrective action staffing decreased faster than the workload decreased, causing a temporary increase in workloads and response time. It is important to note that this staffing decrease will be permanent as the Program completes cleanups at more and more sites.

FIGURE 6



Corrective Action Plan Processing Average Elapsed Time in Days



Corrective Action Plan Processing Average Completion Time in Hours

In fact, we believe that workload and staffing peaked in FY 2003, and a decline in staffing began in FY 2004 and continued this past year. Figure 8 compares the number of corrective action reviews completed with the number of corrective action staff, and Figure 9 shows the number of plan or report approvals per FTE over several years. When Figures 8 and 9 are considered together, the information demonstrates that staff efficiency continues to improve. With efficiency increasing and workload decreasing, the Division reduced corrective action staff by almost a full FTE in FY 2005. Further, though smaller, decreases are anticipated in FY 2006.

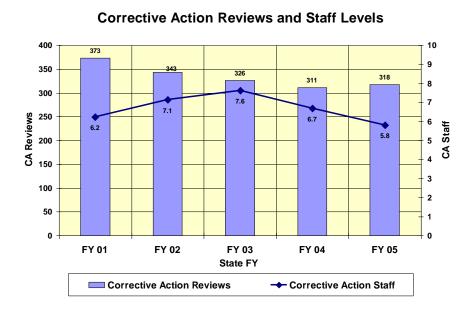
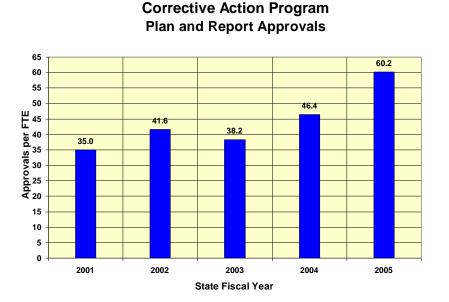


FIGURE 9



A significant factor in the time that it takes staff to review a clean-up document is the overall quality of the document that is submitted for review. This appears to be dependent on several factors. The first is the regulated community's use of the Department's May 2002 Corrective Action Guidance Document in which clear corrective action goals, expectations, and strategies that focus on flexibility and environmental results are presented. One of the most often used elements of this guidance is a description of a process whereby risk-based methods allow for the reclassification of contaminated media from a hazardous to solid waste, thereby reducing

disposal costs and promoting more thorough cleanups. The second improvement involves early and more frequent communication between Program staff and the regulated community, resulting in the resolution of difficult issues before they have the opportunity to become obstacles that stand in the way of completing necessary work. Improved communication leads to a trust relationship that promotes a collaborative approach to cleaning up sites. Striving for common objectives leads to the development of work plans that are more easily approved.

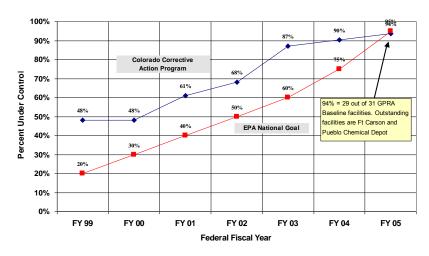
One of the expectations expressed by the General Assembly in SB 00-177, as part of streamlining the corrective action process, was that the Hazardous Waste Control Program should use enforceable institutional controls and consider such controls in determining clean-up standards. A serious concern for the program at the time was lack of an authority to enforce institutional controls. That problem was resolved with the passage of Senate Bill 01-145. This bill created an environmental covenant, which provides a mechanism for property owners to establish certain restrictions or conditions for their properties, and for those restrictions or conditions to be enforceable by the Colorado Department of Public Health and Environment. Since then, the Hazardous Materials and Waste Management Division has begun to approve long-term clean-up plans that rely on environmental covenants to manage risks associated with residual contamination, thereby avoiding the difficulty and expense of remediating sites down to unrestricted use levels. To date, accomplishments include:

- A registry of sites has been created as required by the statute; currently, there are nine sites on the registry and several others are likely to be added soon.
- Staff of the Colorado Attorney General's Office has developed model covenant language.
- The Hazardous Materials and Waste Management Division's Geographic Information System (GIS)-based map Web page has been implemented, the sites with covenants have been included, with a link to the covenant. This allows the public to have access to the information.
- After meeting with several local governments to discuss communication and implementation issues, the Hazardous Materials and Waste Management Division has drafted and made available to the public a guidance document on what covenants are, the opportunities they offer, what is needed to create a covenant, and the tracking and notification responsibilities of the State and local governments. This guidance document, along with other covenant related support documents, is presently available on the Division's Web site.
- Just recently, Program staff and staff from the Attorney General's Office (AGO) have developed a policy describing when the covenant should be finalized within the cleanup process so that remedies cannot be compromised through subsequent property transactions. This new policy should be published and on the website by February 1, 2006.

The Hazardous Waste Control Program also continues to be a leading contributor to national efforts to streamline the corrective action process through active participation in the Interstate Technology and Regulatory Cooperation Work Group. This is a national organization led by state regulators with the purpose of streamlining the regulatory process associated with approving the use of innovative technologies in cleaning up environmental contamination.

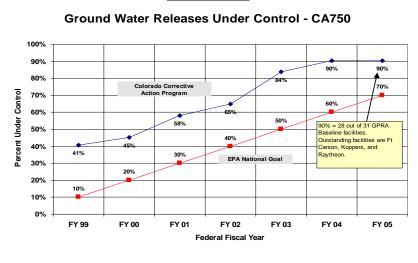
To measure corrective action effectiveness, the U.S. Environmental Protection Agency established two national environmental indicators. These indicators measure progress of the hazardous waste corrective action program toward risk containment at contaminated facilities. This approach was established as part of the Government Performance Results Act (GPRA), and measures "Human Exposures Under Control," and "Ground Water Releases Under Control" at a defined group of high priority facilities around the country. In Colorado, there are 31 of these high priority facilities. The Department continues to exceed the national targets for progress in both indicators as shown in Figures 10 and 11. Beginning in FY 2006, EPA has established two additional GPRA indicators to measure progress toward completing cleanups: the first is the percent of high priority sites where a final remedy has been selected; the second is the percent of high priority sites where the final remedy has been completely constructed. As shown in Figures 12 and 13, our Corrective Action program is projecting to run well ahead of the national targets for these two new measures because of the good work that staff and management has performed over the last few years. In coming years we will present our progress on these two new indicators.

FIGURE 10



Human Exposures Under Control - CA725





Remedy Selected - CA400

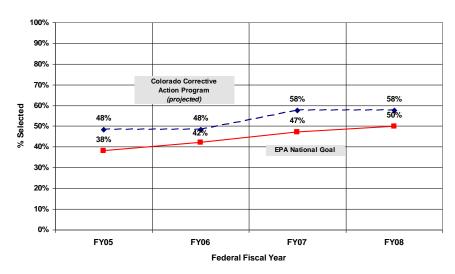
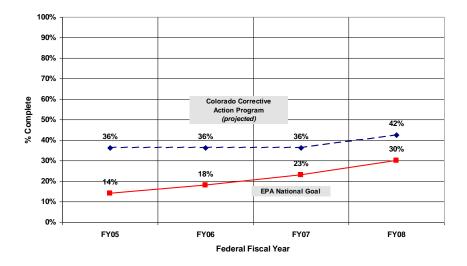


FIGURE 13

Remedy Constructed - CA550



In the first part of FY 2006, EPA will be working with our staff to develop a baseline of high priority facilities which we will track toward completion of cleanup by the year 2020. This is a national effort by EPA called the "2020 Baseline". In next year's report, we will give a complete presentation of the 2020 Baseline, our status, and our progress. Already, because of the really good work by Program staff, we believe will be significantly ahead of EPA's targets.

Permitting

Facilities that manage hazardous wastes in a manner that requires permitting by the Colorado Hazardous Waste Program are referred to as treatment, storage or disposal facilities (TSDs). At

present, there are 34 of these facilities in Colorado, but only 12 of those are required to have a permit. Colorado has operating permits in place at all 12 of these. The remainder are in the process of closing the activities and/or equipment that would have required a permit, or have already closed the activity or equipment but have left hazardous waste or contamination in place. In these cases, the facilities are required to maintain some type of post-closure care or monitoring.

There are 14 facilities in Colorado that require post-closure controls. The Division has taken advantage of some flexibility afforded by EPA nationally by adopting a provision that allows certain compliance orders to substitute for post-closure permits. For those facilities that do not require permits for any other aspects of their facility, the "post-closure order" is a more efficient approach. Again, Colorado has moved ahead of EPA's national targets for having post-closure controls in place with 93% completed, as compared to the national target of 80% by this time see Figure 14.

100% 93% 93% Colorado Post-Closure Program 90% 80% 79% 80% 74% 70% 71% 69% 70% 66% Percent Accomplished 70% 61% FPA Nat 60% 50% 93% = 13 out of 1 with post-closure controls in 40% place. Only outstanding facility the Rockwool facility, which is 30% an abandoned site 21% 20% 10% 0% FY 01 FY 99 FY 00 FY 02 FY 03 FY 04 FY 05 Federal Fiscal Year

FIGURE 14

Colorado Progress on Post-Closure Controls

The Program has several staff assigned to one project that will require a hazardous waste permit - the Chemical Demilitarization facility to be built at the Pueblo Chemical Depot for the destruction of the chemical weapons in storage there. This is a very significant project for the Program and will remain so for about the next 10 years.

The department continued its participation in the national Interstate Technology and Regulatory Cooperation (ITRC) Work Group. This group supports streamlining the permitting process to reduce regulatory barriers associated with innovative technologies. The approval of these technologies typically involves some version of a permitting process.

Information Management

The Division continues to make a substantial effort to improve data evaluation and turn it into useful information. Some of the data presentations in this report are a continuing part of that

effort. Internally, the division has been able to develop a data management system that has enabled effective tracking of all inspections and any following enforcement actions; and to retrieve reports that provide managers with an up-to-date overview of cases. This information allows the division to be more effective in the use of program resources and accomplish the highest priority activities.

The division also is able to track how much time and effort is spent on different aspects of work. Improvements in the billing system allow tracking of staff time spent on review of a specific document. This improves managers' ability to identify areas that are consuming significant amounts of time, and allows decisions to be made to make appropriate improvements. It also improves the division's ability to be accountable to those paying fees by better identifying how the money they pay is used.

Management of data is an important issue for EPA in the national hazardous waste program. Because most states are authorized to implement most of the hazardous waste program, EPA's management of national data is very complex. Colorado has advanced beyond many states in our ability to manage such information and, as such, Colorado was invited to participate on the National Design Team for EPA's national hazardous waste data system (RCRAInfo). Program staff have been participating on two national workgroups associated with this effort.

Maintaining Authorization

One of the key values held by the regulated community, and one of the legislative directives from SB 00-177, was that Colorado "maintains program authorization by the federal government." When EPA goes through the process of authorizing a state for the hazardous waste program, it carefully reviews the state's authorities, regulations, funding and staffing, both quantitatively and qualitatively. Once the state is authorized, EPA monitors the state program to ensure that it is being implemented in a manner that satisfies the federal program requirements.

When the fee revenues to the Colorado Hazardous Waste Program dropped substantially in 1998, EPA initiated a "capability assessment" of the program to review whether the resources to implement the program were adequate. EPA issued a report in April 1999, which stated that the resources available to the Colorado program, both in funding and in number of staff, were not adequate. A significant basis for this finding was a comparison of the Colorado resources with those in Utah and North Carolina, two other states with comparable numbers of hazardous waste facilities. At the time, cash revenues had dropped to the point where, without an increase in revenue, the division would not have been able to maintain a viable program. The passage of SB 00-177 created a new fee for generators of hazardous waste. A significant amount of program resources is devoted to inspecting and providing compliance assistance to generators, yet they were not paying a fee to the program.

EPA updated its capability assessment in a capability status report dated May 3, 2001. In this report, EPA stated that Colorado's program had made significant progress since April 1999 in its ability to meet commitments made to EPA in the annual work plan. However, EPA expressed concern about the overall pace of the corrective action program, and it noted continuing concern that the available financial and staff resources may not be sufficient to maintain an adequate program.

Hazardous Waste Control Program managers felt that the resources available with the new generator fee were adequate, and asked EPA to shift more focus to performance rather than comparisons to other states. EPA agreed to use that approach, and focused its review on performance in the year that ended September 30, 2001. Based on the results of that review, EPA issued a new capability assessment report dated April 2002. This report concluded that Colorado's program has made significant program improvements and realized considerable resource increases since the 1999 capability assessment, and declared that Colorado is capable of operating a fully authorized hazardous waste program. The report also noted that additional revenue would be necessary in the future due to inflation, and that it is unlikely that EPA will be able to provide increased funding to the program.

All of EPA's concerns about program authorization were resolved by mid-2003 and in November 2003, EPA published a notice in the Federal Register adding most of the backlogged regulatory provisions to Colorado's authorized program. Currently, the Hazardous Waste Control Program has adopted 100% of the necessary EPA regulations and is 78% authorized by EPA. The Division has submitted new authorization information to EPA for changes made in our regulations in 2003, 2004, and 2005. When these additions are authorized by EPA (expected now in 2006), the Program will be very close to 100% authorized.

Program Funding

Cash fees and an annual grant from EPA fund the Colorado Hazardous Waste Control Program. Initially, the cash fees were paid by permitted hazardous waste treatment, storage, and disposal facilities. This fee structure was adequate for many years, but in 1998, the only commercial hazardous waste landfill in Colorado experienced a significant decline in business, which resulted in a marked decline in fees to the program. This caused a significant funding shortfall which gave rise to passage of SB 00-177, which changed and stabilized the fee structure. The annual grant from EPA has continued; however, the amount of funding remained essentially unchanged from 1995 until 2001, when it was increased by about 15 percent. Since 2001, it has again remained flat.

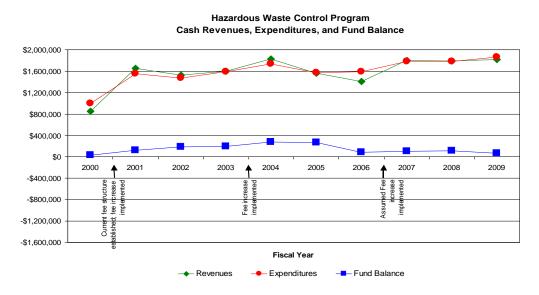
SB 00-177 created a generator fee to broaden the funding base for the program. Those changes, together with further modifications to the program's fee structure that were approved by the Colorado Hazardous Waste Commission in February 2003, have provided adequate funding for the program.

Figure 15 illustrates the cash revenue, the cash spending, and the cash balance in the Hazardous Waste Service Fund from 2000 through 2009. This figure shows that the program is striving to balance revenues and expenditures and maintain a small fund balance. The present fee structure is expected to fund the program adequately through FY 2006, which was the objective of the fee changes made in February 2003. However, the Program is now planning to request a fee increase from the Hazardous Waste Commission to be effective early in FY 2007.

The Division's successes in improving efficiency are clearly presented in this report. Significant improvement has occurred and is continuing to occur in an effort to further improve efficiency and reduce costs. However, increases in costs have occurred and are projected to continue as a

result of inflation. The projections presented in Figure 15 do account for inflationary cost increases, though the existing fee structure does not automatically compensate for cost increases as a result of inflation.

FIGURE 15



SB 00-177 Summary of Requirements

The following table presents a summary of the requirements of SB 00-177 and the Program's efforts and activities to comply with each requirement. This table is intended to augment, but not replace, the presentation of information earlier in this report.

SB 00-177 Statutory Requirement	Hazardous Waste Program Response
25-15-301.5(1)(a) Maintain authorization from EPA.	The program is currently 78% authorized by EPA, but
	has promulgated 99% of the required rules. The
	difference, 21%, represents rules that are currently under
	review by EPA. For the last several years, EPA has
	rated all aspects of the program very highly in their
	annual review. There is no concern at this point with
	maintaining program authorization from EPA.
25-15-301.5(1)(b) Promote community ethic to reduce	The Program has worked hard on three fronts to
or eliminate waste problems	accomplish this requirement: 1) our inspectors
	frequently work with hazardous waste generators to
	reduce their waste generation through process
	improvements, waste minimization, and better waste
	characterization; 2) the Program places a high priority
	on investigating citizen complaints; and 3) the Program
	makes itself available through the technical assistance
	and 24-hour spill telephone lines and technical trainings
	provided around the state.
25-15-301.5(1)(c) Is credible and accountable to	The Program endeavors to maintain credibility and
industry and the public	accountability through a high-volume, high-efficiency
	prioritized inspection program that maintains

SB 00-177 Statutory Requirement	Hazardous Waste Program Response
· -	compliance and a level playing field and a high-
	efficiency corrective action program that meets or
	exceeds its commitments to the regulated community.
25-15-301.5(1)(d) Is innovative and cost-effective	This report presents the Program's progress and
	accomplishments in becoming cost-effective and
	efficient. It also presents our commitment to, and
	implementation of, innovative approaches.
25-15-301.5(1)(e) Protects the environmental quality of	Our success in this requirement can be ascertained by
life for impacted residents per the regulations	considering our success in all of the other aspects of the
	Program.
25-15-301.5(2)(a) Develop, implement, and	After SB 00-177 passed, the Program set up numerous
continuously improve policies and procedures for	performance goals. This report presents our success in
statutory responsibilities at lowest possible costs	meeting those goals. In some cases, the Program has
	performed so well against the original metrics that it is time to revise the metric to push for continued
	improvement. The Program will do that in the coming
	year.
25-15-301.5(2)(b) Establish cost-effective level-of-effort	The Program has included goals in each inspector's
guidelines for performing inspections that focus on	performance plan for the number of inspections each
major violations of regulatory requirements that pose	inspector is expected to perform and for the timeliness of
risk to human health and the environment.	administrative duties associated with each inspection.
	These goals have been modified upwards several times
	over the last few years as inspector experience and
	efficiency improved. This report shows the Program's
	progress on violations associated with risks to human
	health and the environment.
25-15-301.5(2)(c)(I) Streamline the corrective action	After SB 00-177 passed, the Program set up numerous
process through cost-effective level-of-effort guidelines	performance guidelines in the corrective action program.
for site investigations and remediation that focus on	This report presents our success in meeting those goals.
result-based outcomes and performance-based oversight	Part of the success in meeting these guidelines is the
by the Department.	transition to performance-based corrective action. Most
	of our cleanups are now defined by cleanup targets – not numbers of samples.
25-15-301.5(2)(c)(II) Streamline the corrective action	See above response to 25-15-301.5(2)(c)(I)
process through cost-effective level-of-effort guidelines	See above response to 25-15-501.5(2)(c)(1)
for reviewing site investigation reports and corrective	
action plans.	
25-15-301.5(2)(c)(III) Streamline the corrective action	This requirement was significantly enhanced when the
process through the use of enforceable institutional	General Assembly passed SB 01-145 which established
controls.	environmental covenants. Since passage of this bill,
	which the Program helped draft, the Program has
	utilized environmental covenants that enforce the
	institutional controls in every remedy where they are
	included to protect human health and the environment.
25-15-301.5(2)(c)(IV) Streamline the corrective action	The Program has developed generic soil and ground
process through realistic clean-up standards that address	water protection cleanup standards for the more common
actual risk to human health and the environment on a	exposure scenarios, thereby relieving parties performing
site-specific basis and account for institutional controls.	cleanups the expense of having to hire a risk assessor to
	perform this work for them. We are in the process of
	revising these tables, with the hope of making the risk equations employed available on the Department's
	website for interactive use so that individuals may
	calculate cleanup standards themselves. The
	Department has also allowed the use of risk-based soil
	cleanup numbers developed by other states or the EPA.
	realize numbers acceroped by other states of the EFA.

SB 00-177 Statutory Requirement	Hazardous Waste Program Response
U X	Facilities have always had other options: 1) the
	flexibility to calculate site-specific cleanup standards of
	their own if they so choose, which factor in specific
	conditions and documented exposure assumptions; 2)
	using an environmental covenant to allow greater levels
	of contamination to remain behind following cleanup,
	achieving similar levels of protection through property
	use controls; or 3) seeking waivers to established State
	ground water standards through the Water Quality
	Control Commission, to allow for increased levels of
	contamination that can be left at a site.
25-15-301.5(2)(d) Establish cost-effective level-of-effort	The Program has significantly improved the efficiency
guidelines for enforcement activities.	and cost-effectiveness of enforcement activities over the
	last several years and we do operate under timeliness
	guidelines established in the Program's Enforcement
	Response Policy. However, because of the importance
	of quality workmanship in enforcement actions, and
	because each action is very site- and violation-
	dependant, the Program has not established firm level-
	of-effort guidelines. In fact, however, to meet our
	timeliness goals, level of staff effort on any given
	enforcement action has to remain at or below certain
	metrics.
25-15-301.5(2)(e) Establish schedules for timely	The Program has established and is routinely meeting
completion of Department activities including submittal	and exceeding the timeliness guidelines that have been
reviews, inspections, inspection reports, and corrective	established for these activities and other activities.
action activities.	
25-15-301.5(2)(f) Establish a prioritization methodology	The body of this report explains how priority schemes
for completing activities that focuses on actual risk to	are used in setting inspection schedules. For corrective
human health and the environment.	action, this report also presents results for the
	Government Performance and Results Act (GPRA) high
	priority clean-ups.
25-15-301.5(2)(g) Establish a preference for compliance	Earlier in this report, we present the percentage of staff
assistance with at least 10% of the annual budget amount	time and budget that is spent on compliance assistance
being allocated to compliance assistance efforts.	activities (16% on 2005). We also discuss all of the
	innovative work being done by the Program in the
	compliance assistance arena.
25-15-301.5(2)(h) Establish a preference for alternative	The Department already has established this preference.
dispute resolution mechanisms.	In recent years, the Program has not had many disputes.
25-15-301.5(2)(i) Establish a mechanism that	The Department and Division have vital rewards and
continually values and provides incentives for further	recognition programs where process improvements or
improvements in the Program's policies and procedures.	any innovative idea can be, and will be, rewarded.
25-15-301.5(3) Submit an annual report to the General	This report is the fifth annual installment of the
Assembly by February 1 st of each year.	Program's efforts to meet this requirement.

CONCLUSIONS

As discussed in this report, the Hazardous Materials and Waste Management Division has implemented significant improvements to the Hazardous Waste Control Program to satisfy the expectations set out by SB 00-177 (Section 25-15-301.5, C.R.S). This report explains how these statutory expectations have each been met:

- 1) maintaining program authorization by the federal government (EPA);
- 2) maintaining a program that is credible and accountable;
- 3) maintaining a program that is innovative and cost-effective;
- 4) developing level-of-effort guidelines for inspections, enforcement, and corrective action;
- 5) streamlining the corrective action process;
- 6) prioritizing activities based on risk; and
- 7) emphasizing compliance assistance efforts.

As a result of the efforts undertaken by the Hazardous Waste Control Program, both the efficiency and effectiveness of the Hazardous Waste Control Program have been significantly improved. Major program accomplishments include the following:

- increasing our emphasis on innovative compliance assistance projects;
- dramatically increasing inspection efficiency and corrective action efficiency since 1999;
- substantially improving timeliness of enforcement actions;
- streamlining the corrective action process using the Corrective Action Plan provision;
- developing and meeting level-of-effort and total time guidelines for reviewing corrective action submittals; and
- exceeding national goals set by the U.S. Environmental Protection Agency for corrective action, permitting, inspections, and enforcement.

Further efforts will continue in order to improve the Hazardous Waste Control Program. The generator fees authorized by SB 00-177, and adjusted by the Colorado Hazardous Waste Commission in 2003, have stabilized revenue to the program. When combined with the efficiency improvements, these fees will provide adequate funding for the program through FY 2006.