



**MARYLAND**

**Department of the Environment**

**ANNUAL ENFORCEMENT  
AND  
COMPLIANCE REPORT**



**Fiscal Year 2008**

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**SECTION ONE – REPORT BASIS  
AND SUMMARY INFORMATION**

# **ANNUAL ENFORCEMENT AND COMPLIANCE REPORT FISCAL YEAR 2008**

## **Statutory Authority and Scope**

Environment Article §1-301(d) enacted in 1997 (see Appendix II for full text) requires the Maryland Department of the Environment (MDE) to report annual performance results for 15 regulatory programs and the penalty dollars collected and deposited into several funds. This report is intended to fulfill that statutory requirement. In addition to the required information, this report also includes information on MDE's enforcement programs and additional data about the activities and facilities that are subject to regulation under the Environment Article.

## **Organization of the Report**

Section One includes an overall, Department-wide summary of the FY 2008 results. A table in Section One compares the historical annual Department-wide performance measures from FY 1998 – 2008. Two graphs also illustrate trends for enforcement actions and penalties obtained for these years. FY 2008 includes additional performance measures including number of sites audited but not inspected, number of audits and a breakdown of enforcement actions into administrative and civil/judicial. The Department-wide and the administration-wide totals for the "Number of Regulated Entities Requiring Oversight" has been removed from the report. Totaling the "coverage" parameter to develop this metric results in double and triple counting many facilities. This metric makes more sense being evaluated on a program by program basis. Program-specific information concerning enforcement and compliance activities for the 15 required programs and 8 additional programs is in Section Two. The supporting materials, including relevant MDE policies, are in Section Three, the Appendix. To reduce publication costs, any information that can be accessed via the internet has been replaced by a short description and a reference to the website.

## EXECUTIVE SUMMARY

The Maryland Department of the Environment's (MDE) twelfth Enforcement and Compliance Report for Fiscal Year 2008 (July 2007-June 2008) reports data from MDE's enforcement and compliance programs in the Air and Radiation Management, Waste Management, and Water Management Administrations, and the Environmental Crimes Unit of the Office of the Attorney General. This document has been prepared in accordance with the requirements of §1-301(d) of the Environment Article and is part of an ongoing commitment to continuous process improvement.

Maintaining a steady and consistent baseline of enforcement is necessary to ensure compliance with state law, regulations and permits to protect public health and the environment. MDE began an initiative to prioritize resources to enhance enforcement in February of 2007. This Initiative included a review of ongoing enforcement actions to determine timeliness, development of a department-wide internal operating procedure, the use of the "MDEStat" management process, and enhanced communications of enforcement activities to maximize the deterrence value of each enforcement action.

During FY 2008, MDE provided regulatory oversight for 237,261 regulated entities. This is a 16% increase over the prior fiscal year. MDE inspected 8% fewer sites in FY 2008 than it did in FY 2007 and performed 14% more inspections, audits and spot checks.

The number of enforcement actions increased by 34% over FY 2007 and the number of compliance assistance actions increased by 12.6%. The number of significant violations found decreased from 6409 to 4814. The decrease is primarily attributable to a lower number of violations in the Lead Poisoning Prevention Program. The lower number of violations reflects a trend away from enforcement against large, multi-property owners to enforcement of violations by smaller property owners. This is a positive trend because it shows that violations by larger multi-property owners have been addressed; thereby allowing enforcement resources to be allocated towards owners of smaller numbers of properties.

This year, penalties collected from environmental violators totaled \$3,968,775. The increase of \$1,720,644 increase from FY 2007 is due in part to a \$1 million settlement in one Water Management Administration enforcement case.

MDE also, where appropriate, enters into Supplemental Environmental Projects (SEP) as part of resolution of enforcement actions. SEPs provide tangible environmental benefits to communities beyond benefits achieved by facilities returning to compliance. The number of SEPs decreased from 61 in FY 2007 to 28 in FY 2008 and the total value of the SEPs decreased from \$3.6 million last year to \$677,419 in FY 2008. This change is largely attributable to fewer SEPs in enforcement actions by the Lead Poisoning Prevention Program. Those cases affected fewer properties and had lower costs. See Appendix III for additional details regarding SEPs.

Refer to MDE's website (<http://www.mde.state.md.us>) for the latest information on enforcement actions and other compliance activities.

## MDE PERFORMANCE MEASURES EXECUTIVE SUMMARY

	2007 Totals	2008 Totals
<u>PERMITTED SITES/FACILITIES</u>		
Number of Permits/Licenses Issued	10,455	11,463
Number of Permits/Licenses in Effect at Fiscal Year End	77,041	100,206
<u>OTHER REGULATED SITES/FACILITIES</u>		
Total Sites	253,715	257,744
<u>INSPECTIONS</u>		
Number of Sites Inspected	47,723	44,161
Number of Sites Audited but not inspected	N/A	12,794
Number of inspections, audits, spot checks	107,496	122,389
<u>ENFORCEMENT ACTIONS</u>		
Number of Compliance Assistance Rendered	10,158	11,443
Number of Enforcement Actions Taken	2,011	2,699
<u>PENALTIES</u>		
Amount of Administrative or Civil Penalties Obtained	\$2,248,131	\$3,968,775
SEPs	61 (\$3.6 M)	28 (\$677,419)

## ENFORCEMENT WORKFORCE

	FY 2007 Actual*	FY 2008 Actual*	Number of FTE Inspectors**		FTE Vacancies ***	
			FY 2007	FY 2008	FY 2007	FY 2008
Air/Radiation Mgt	\$2,752,256	\$2,839,235	43	44	1.3	3
Waste Mgt	\$3,797,182	\$3,663,013	59.75	55	2.25	5
Water Mgt	\$2,572,869	\$2,892,037	37.6	41.5	9.8	6
Total ****	\$9,122,307	\$9,394,285	140.35	140.5	13.35	14

\* Actual includes wages plus 28% fringe for permanent employees and 8% fringe for contractual employees. The numbers do not include any operating expenses such as vehicles, travel, gasoline, supplies, or other related employment expenses.

\*\*Inspectors represent the number of enforcement field inspectors budgeted for the fiscal year. These numbers do not include any administrative, management, or clerical staff associated with enforcement and compliance programs. This is also not the actual number of inspectors on staff.

\*\*\*FTE vacancies represent the total amount of time that positions were vacant equivalent to a full year.



## SECTION 1-301(d) PENALTY SUMMARY

TOTAL AMOUNT OF MONEY AS A RESULT OF ENFORCEMENT ACTIONS, AS OF THE END OF THE MOST RECENTLY COMPLETED FISCAL YEAR AS REQUIRED BY SECTION 1-301(d)*	FY 2007	FY 2008
<b>Clean Air Fund (includes Air Quality and Asbestos)</b>	\$363,550	\$1,075,313
<b>Clean Water Fund (includes Water and Waste Management)</b>	\$603,421	\$1,729,024
<b>Hazardous Substance Control Fund</b>	\$126,505	\$34,881
<b>Non-tidal Wetland Compensation Fund</b>	\$1200	\$13,500
<b>Oil Disaster Containment Clean Up and Contingency Fund</b>	\$107,324	\$126,100
<b>Recovered from Responsible Parties (under §7-221)**</b>	\$76,638	\$72,357
<b>Sewage Sludge Utilization Fund</b>	\$0	\$0
<b>Total</b>	<b>\$1,278,638</b>	<b>\$3,051,175</b>

\* Includes **only** those funds **required** to be reported by the Environment Article, Section 1-301(d). Other penalties are reported by individual programs that total a higher amount since they are deposited into funds not required to be reported by 1-301(d). The Department total is \$3,968,775.

\*\* The number reported is strictly the total amount of money, as a result of enforcement, recovered by the Department from responsible parties in accordance with §7-221 of the Environment Article as called for in the statute.

## MDE PERFORMANCE MEASURES ANNUAL SUMMARY FY 1998 - 2002

MDE Performance Measure	1998	1999	2000	2001	2002
<b>PERMITTED SITES/FACILITIES</b>					
Number of Permits/licenses issued	8,972	8,350	9,710	9,573	9,671
Number of Permits/Licenses in effect at Fiscal Year End	54,668	56,024	57,253	62,679	62,882
<b>OTHER REGULATED SITES/FACILITIES</b>					
Other sites	89,863	95,892	100,244	105,085	191,177
<b>INSPECTIONS *</b>					
Number of Sites Inspected	31,026	30,352	28,626	39,050	37,850
Number of Inspections, Audits, Spot checks	81,372	83,899	90,488	103,782	108,043
<b>ENFORCEMENT ACTIONS</b>					
Number of Compliance Assistance Actions Rendered	15,837	14,709	15,831	15,032	16,523
Number of Enforcement Actions Taken	1,134	1,391	977	1,542	1,541
<b>PENALTIES **</b>					
Amount of Penalties obtained (\$)	1,145,731	1,206,629	20,93,526	1,334,499	1,523,890

**\* Inspections:**

**Number of Sites Inspected:** These are the individual sites evaluated for compliance.

**Number of Inspections, Audits, Spot checks:** These are the total number of inspections conducted including record reviews, audits and spot check activities. Each individual site can be inspected by several programs or by one program more than once, so the former is always less than the latter.

**\*\* Amount of revenue obtained ("collected") in FY as a result of all enforcement actions regardless of specifically designated fund**

## MDE PERFORMANCE MEASURES ANNUAL SUMMARY FY 2003 - 2008

MDE Performance Measure	2003	2004	2005	2006	2007	2008
<b>PERMITTED SITES/FACILITIES</b>						
Number of Permits/licenses issued	11,988	11,264	10,799	10,737	10,455	11,463
Number of Permits/Licenses in effect at Fiscal Year End	69,831	75,729	73,155	77,721	77,041	100,206
<b>OTHER REGULATED SITES/FACILITIES</b>						
Other sites	197,529	204,873	222,673	239,612	253,715	257,744
<b>INSPECTIONS *</b>						
Number of Sites Inspected	33,048	43,434	43,722	55,294	47,723	44,161
Number of Inspections, Audits, Spot checks	98,550	106,845	103,586	115,977	107,496	122,389
<b>ENFORCEMENT ACTIONS</b>						
Number of Compliance Assistance Actions Rendered	14,120	18,646	10,953	11,067	10,158	11,443
Number of Enforcement Actions Taken	2,311	1,856	1,395	1,946	2,011	2,699
<b>PENALTIES **</b>						
Amount of Penalties obtained (\$)	2,321,563	1,781,526	1,631,054	2,803,685	2,248,131	3,968,775

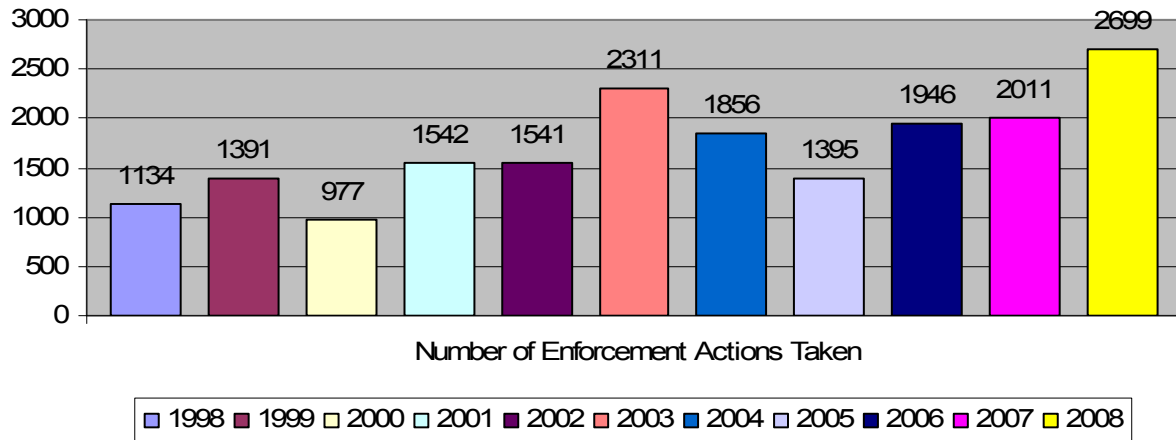
**\* Inspections:**

**Number of Sites Inspected:** These are the individual sites evaluated for compliance.

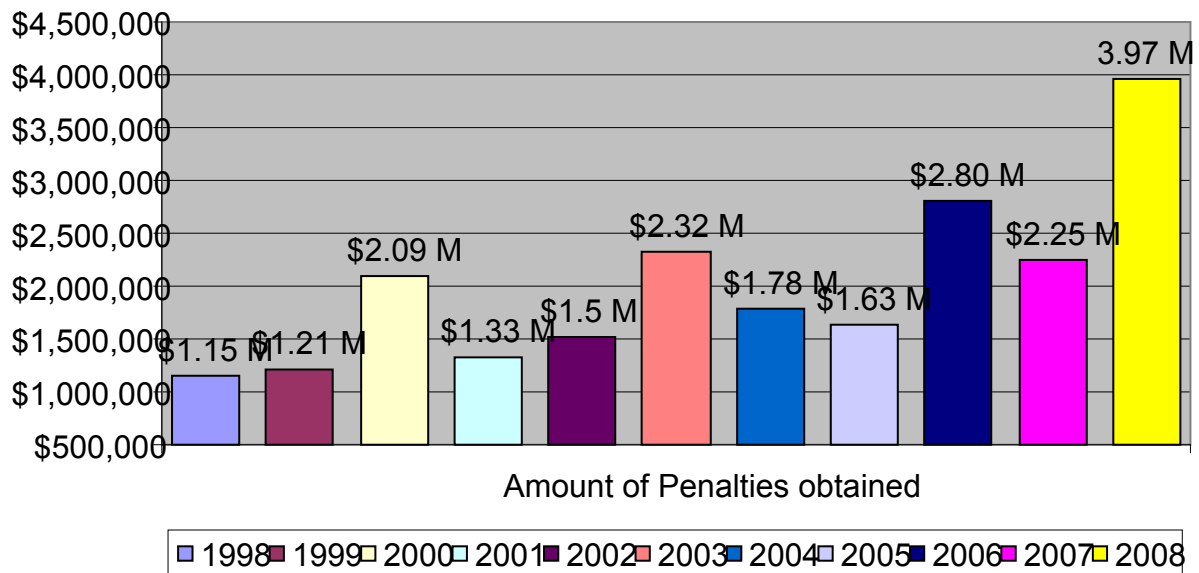
**Number of Inspections, Audits, Spot checks:** These are the total number of inspections conducted including record reviews, audits and spot check activities. Each individual site can be inspected by several programs or by one program more than once, so the former is always less than the latter.

**\*\* Amount of revenue obtained ("collected") in FY as a result of all enforcement actions regardless of specifically designated fund**

**MDE Enforcement Measures - Enforcement Actions Taken  
1998-2008**



**MDE Enforcement Measures - Penalty Amounts (\$) 1998-2008**



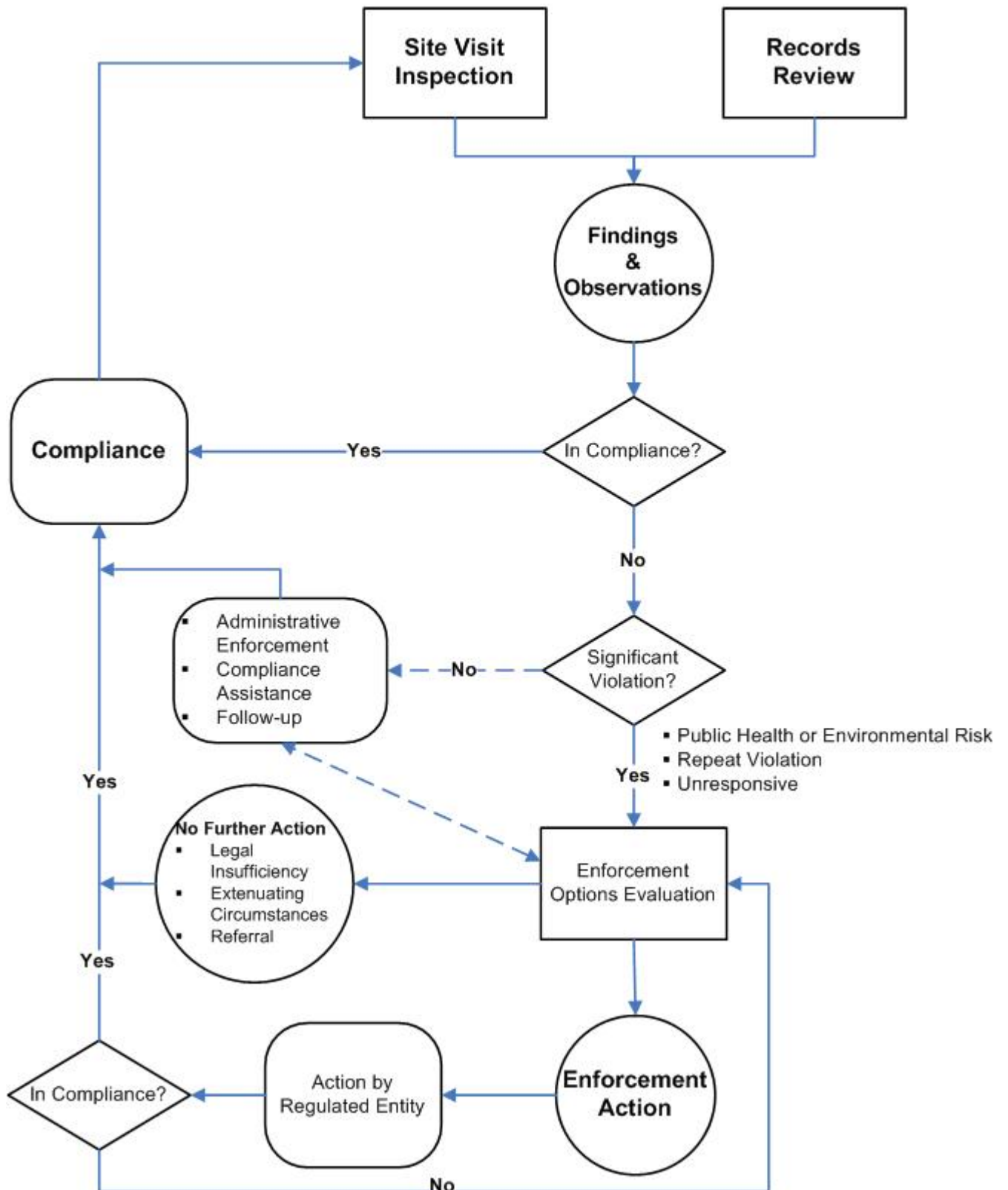
# **MDE'S ENFORCEMENT AND COMPLIANCE PROCESS and SERVICES TO PERMITTEES AND BUSINESSES**

## **The Enforcement and Compliance Process**

MDE's air, water and waste enforcement and compliance processes were established separately. Similar terminology may have technically different meanings for different programs. Many programs also implement federal rules and regulations in addition to State requirements. In addition, the same individual, company or facility may fall under the jurisdiction of several different environmental enforcement programs at the federal, State or local level.

Despite technical differences, most enforcement programs share certain common functions that allow a year-to-year comparison. Most programs have an inspection, a monitoring and an evaluation component. If a minor violation such as a record keeping or reporting error is discovered, a program may use discretion to allow a company to correct the problem without taking a penalty, civil or criminal action. In such cases, compliance assistance is the most efficient method to achieve compliance with such requirements. If an inspection reveals a significant violation, or if minor violations recur in a pattern of ongoing significant non-compliance, then more serious legal actions are warranted. Such action may take the form of penalties, corrective orders, the filing of injunctions, and in some cases, criminal sanctions.

# MDE ENFORCEMENT PROCESS



## **Supplemental Environmental Projects (SEPs)**

MDE's Enforcement Policy includes the use of Supplemental Environmental Projects (SEPs).

SEPs are projects specifically undertaken to improve the environment by parties who are subject to penalty actions. During the reporting period SEPs were allowed by MDE as a form of penalty mitigation. The EPA encourages the use of SEPs for several reasons. First, SEPs add value to enforcement settlements because SEP dollars are spent directly on environmental projects. Second, SEPs require violators to go above and beyond technical compliance with minimum legal standards and thereby accomplish a higher level of environmental stewardship. Finally, and probably most important, SEPs are intended to achieve improvements to the environment that could not be accomplished with traditional penalties. Traditional penalties serve to punish current violations and deter future non-compliances. SEPs serve those traditional ends as well as providing a form of community service that is targeted to improve the environment in which the community lives. SEPs give violators an opportunity to re-establish their reputations as good neighbors.

### **SEPs in FY 2008**

The three media administrations entered into 28 SEPs during FY 2008 with a total value of \$677,419. Notable among these is the Waste Management Administration's \$472,419 SEP involving the replacement of lead contaminated windows in 26 rental properties.

Administration	Number of SEPs		Total Value of SEPs	
	2007	2008	2007	2008
Air and Radiation Management Administration	2	2	\$125,000	\$205,000
Waste Management Administration	56	26	\$3,304,000	\$472,419
Water Management Administration	3	0	\$207,000	\$0
<b>TOTALS</b>	<b>61</b>	<b>28</b>	<b>\$3,636,000</b>	<b>\$677,419</b>

Details of the SEPs can be found in Appendix III.

## **Contacts or Consultations with Businesses**

Environment Article section 1-301(d) requires this report to “*include information on the type and number of contacts or consultations with businesses concerning compliance with State environmental laws.*” This section of the report generally identifies the types of contacts MDE has with businesses to help them come into compliance.

### **Compliance Assistance**

One specific form of contact between businesses and MDE’s enforcement and compliance inspectors is counted in the programs’ performance measures tables under the category of “*compliance assistance.*” As an element of MDE’s enforcement process, an inspector renders a tangible act of compliance assistance when he or she:

- (a) Documents a specific past or current violation which the regulated entity corrects in the absence of a formal enforcement action; or
- (b) Documents a specific action or actions which the regulated entity has the option of undertaking to prevent the likelihood of potential future violations, which action or actions the regulated entity undertakes voluntarily in such manner and within such time period as deemed acceptable by MDE in the absence of a formal enforcement action.

In either (a) or (b), the MDE inspector must document the manner in which the regulated entity voluntarily achieved compliance. This definition of "compliance assistance" has the advantage of being measurable, and objectively verifiable by a third party.

### **Consultations with Businesses**

MDE’s Permitting and Customer Services Office (PCS, 410-537-3772) assists businesses that need MDE permits or approvals to understand their responsibilities under the law. PCS establishes lines of communication between those businesses and MDE. Understanding environmental obligations generally reduces violations. PCS provides:

- A Small Business Assistance Program (SBAP) - helps small businesses understand Maryland’s environmental programs and regulations.
- Pollution prevention and waste minimization information to businesses.
- Multi-media meetings for businesses seeking to locate in Maryland or for existing businesses contemplating expansion.
- MDE’s *2008 Guide to Environmental Permits and Approvals* ([http://www.mde.state.md.us/assets/document/2008\\_MDE\\_Permitguide.pdf](http://www.mde.state.md.us/assets/document/2008_MDE_Permitguide.pdf)) provides detailed information about each of MDE’s permits. A revised version of this document will be published later this year.



## **Sources of Information for Applicants and Permittees**

- MDE has made a number of permit applications and instructions for completing them available through the Internet at MDE's website (<http://www.mde.state.md.us>). MDE is also working to enable businesses to submit their permit applications via the Internet.
- MDE has created an Enforcement Webpage where you can find information concerning our enforcement programs and current enforcement actions.  
(<http://www.mde.state.md.us/AboutMDE/enfcomp.asp>).
- MDE partners with business organizations (such as the Maryland Dental Association) and community organizations (such as the Park Heights Citizens Planning and Housing Association) to design, offer and provide compliance assistance, education and training on environmental issues of concern to both the business and residential communities that may be impacted by specific business practices.

## **SECTION TWO – ADMINISTRATION DETAILS**

# MEASURING ENFORCEMENT AND COMPLIANCE

MDE has been measuring, in a consistent fashion, the performance of its enforcement and compliance activities since 1998. This report standardizes the accomplishments of enforcement and compliance programs using metrics for the 28 enforcement areas within the 15 programs that are the subject of this report. MDE's three media administrations handle the vast majority of enforcement actions taken by MDE:

**Air:** This includes programs that deal with air pollution and radiation.

**Waste:** This includes oil control, solid and hazardous waste management, sewage sludge utilization, scrap tire recycling, lead poisoning prevention, natural wood waste recycling and Superfund remediation programs.

**Water:** This includes the drinking water, tidal and non-tidal wetlands, wastewater discharges, coal and mineral mining, oil and gas exploration and production, water appropriation, waterway and floodplain construction, dam safety, stormwater management and sediment and erosion control programs.

## **Organization of Section Two**

This section is divided by administration and by enforcement area/program. First, an overall administration executive summary describes the enforcement and compliance efforts during this fiscal year followed by key performance measures for that administration. Next, the sections for each enforcement area/program include the purpose of the program, its underlying authority, its enforcement process, summary of the program's successes/challenges, the performance measures table, and three charts comparing the past three fiscal years for inspection coverage, number of inspections, audits and spot checks and number of enforcement actions.

## **PERFORMANCE MEASURES TABLE**

This Table presents an accounting of the Program's activity. An example of the table with the lines numbered to correspond to the following definitions can be found on page 23.

1. *Permitted Sites/ Facilities and Other: This is a measure of the MDE or Program workload.*

Lines 2 – 8: Identifies the total universe of facilities over which the program has regulatory responsibility.

Line 2: Shows the number of new permits or permit renewals issued during the year.

Line 3: Accounts for the total number of permits that were in effect at fiscal year end.

Lines 5 – 8: Used by those programs that have regulatory responsibility for sites and facilities and other entities that are not required to obtain a formal permit but still fall under MDE's regulatory oversight.

2. *Inspections and Audits: This is a measure of output.*

Lines 10 – 12: A count of the unique SITES evaluated for compliance. Inspections are defined as when MDE actually visits the site to determine compliance, whether the visit involves walking around the site of a record review at the site. An audit is a review of records, self-monitoring reports performed off site at MDE offices. These are broken out this way to illustrate that much of compliance is determined by record reviews, rather than physical inspections.

Lines 13 – 15: A count of the NUMBER of inspections, audits and spot checks performed.

The reason the number of inspections is often substantially higher than the number of sites (comparing lines 12 and 15) is because some sites are inspected more than one time during the year depending on the degree of risk that regulated entity poses to the public. Another reason is that some individual sites are sufficiently large or diverse to warrant having different portions of the site, or pieces of equipment, inspected separately.

3. *Compliance Profile: This is a measure of the results accomplished.*

Lines 17 – 19: The Compliance profile portion of the table is a snapshot of the overall compliance status of the facilities inspected during the fiscal year.

Line 17: Identifies how many of the inspected sites were found with significant violations, providing a key element used to determine the inspection compliance rate (percentage) shown on line 18. If a site was found to have a significant violation it was counted as being out of compliance, even if the site was brought back into compliance later in the year.

Line 18: The percentage of inspected sites with significant violations. Line 17 divided by Line 10 times 100.

Line 19: The enforcement “inspection coverage rate” measure. The “inspection coverage rate” is defined as the ratio of sites inspected divided by the total number of sites or regulated entities in that program’s universe.

- “Sites” may include other than a single physical location since many programs have regulatory oversight responsibility for things other than facilities.

#### *4. Significant Violations: This is a measure of what was found.*

Lines 21 – 24 record the total number and nature of the significant violations the program identified during the Fiscal Year. The specific definition of what constitutes a **significant** violation is determined by individual programs that have unique statutory and regulatory threshold requirements. MDE’s general definition of a significant violation is any violation that requires MDE to take some form of remedial or enforcement action to bring the facility into compliance. MDE’s Enforcement Procedure, effective October 1, 2007 further clarifies this definition and can be found in Appendix II.

Line 21: Indicates how many significant violations resulted in an environmental or health impact.

Line 22: Counts how many significant violations were technical/preventative in nature. The distinction here is based on evidence or proof that MDE must present to establish the violation in a contested case.

- Cases which require evidence of actual physical damage to the environment or to a human being such as samples, photographs, or direct observations are counted as having an environmental or health impact.
- Cases in which documentary evidence such as falsified discharge monitoring reports, lack of permits, or failure to maintain records are counted as technical/preventative on line 22.
- The distinction between physical and technical violations is made to avoid the misperception that all violations involve pollution.
- It is a mistake to infer that only environmental/health violations are significant and technical/preventative are not significant. Either can be considered significant or non-significant depending on the circumstances of the violations.

Line 23: Accounts for the number of significant violations carried over from last year.

Line 24: The sum of lines 21 through 23, the total number of significant violations the program attempted to resolve during the fiscal year.

5. *Disposition of Significant Violations: What is the status?*

Lines 26 and 27: answer the question of how many enforcement responses were concluded for significant violations in the fiscal year and how many are going to be carried over to next year.

- Resolved means that (1) an enforcement action or compliance assistance has been taken, and (2) the violator either has completed any required corrective action or has an executed agreement to take the corrective action and has begun bringing the site back into compliance.
- An ongoing enforcement response is one that is still in process and the site or violator has not taken adequate steps to correct the violation. Cases remain ongoing if the violator does not respond to MDE's initial violation notification; hearings have been scheduled and not yet held, or; the hearing is complete and the violator has chosen to appeal the order. "Ongoing" enforcement responses are those not yet finished.

6. *Enforcement Actions and Penalties: What are the tools MDE uses to bring about compliance?*

Lines 29 – 36: MDE has a number of different enforcement tools that can be used to achieve compliance.

Line 29: Captures how often the program used **compliance assistance**.

- Compliance assistance is rendered when written documentation states that the correction has been made or commenced. This number does not necessarily correspond to the number of significant violations found because potential problems, which have not yet become violations, when corrected and documented, are counted as compliance assistance.
- This tool allows MDE to bring facilities into compliance without the necessity of resorting to formal enforcement actions. It is often implemented in less time and may reduce the environmental consequences of the violation.

Lines 30 through 32: Cover specific types of enforcement actions required to be reported under Environment Article Section 1-301(d). These are broken down into administrative and civil/judicial.

Line 33: The number of penalty actions and other enforcement actions not specifically designated above.

- These actions are primarily penalty actions, but they also include various forms of remedial requirements that do not fit the descriptions of the actions named in the statute.

Line 34: How often the program referred a matter to the Environmental Crimes Unit of the Attorney General's Office for possible criminal prosecution.

- These are not counted as resolved until there is a completed criminal case or the Crimes Unit has declined to take a criminal action, returned the case to the program and the program has taken an alternative form of enforcement.

Line 36: discloses the amount of administrative or civil penalties obtained.

- This means monies collected during the fiscal year. The penalties recorded here may have been imposed in prior years but are collected in whole or in part during the reporting year.

# SAMPLE FY 2008 PERFORMANCE MEASURES CHART

Performance Measure	TOTAL		
<b>1. PERMITTED SITES/FACILITIES</b>			
2. Number of permits/licenses issued			
3. Number of permits/licenses in effect at fiscal year end			
<b>4. OTHER REGULATED SITES/FACILITIES</b>			
5. (other sites)			
6. (other sites)			
7. (other sites)			
8. (other sites)			
<b>9. INSPECTIONS</b>			
10. Number of sites inspected ("inspected" defined as at the site)			
11. Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			
12. Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			
13. Number of inspections, spot checks (captures number of compliance activities at sites)			
14. Number of audits (captures number of reviews of file/submittals for compliance)			
15. Number of inspections, audits, spot checks (sum of the two measures above, same as current count)			
<b>16. COMPLIANCE PROFILE</b>			
17. Number of inspected sites/facilities with significant violations			
18. % of inspected sites/facilities with significant violations			
19. Inspection coverage rate (number of sites inspected/coverage universe)			
<b>20. SIGNIFICANT VIOLATIONS</b>			
21. Number of significant violations involving environmental or health impact			
22. Number of significant violations based on technical/preventative deficiencies			
23. Number of significant violations carried over awaiting disposition from previous fiscal year			
24. Total number of significant violations (sum of the three measures above)			
<b>25. DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
26. Resolved			
27. Ongoing			
<b>28. ENFORCEMENT ACTIONS</b>			
29. Number of compliance assistance rendered			
	Administrative	Civil/Judicial	TOTAL
30. Number of show cause, remedial, corrective actions issued			
31. Number of stop work orders			
32. Number of injunctions obtained			
33. Number of penalty and other enforcement actions			
34. Number of referrals to Attorney General for possible criminal action			
<b>35. PENALTIES</b>			
36. Amount of administrative or civil penalties obtained (\$ collected in FY)			



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**AIR AND RADIATION MANAGEMENT  
ADMINISTRATION**

[http://www.mde.state.md.us/assets/document/mdeguides\(1\).pdf](http://www.mde.state.md.us/assets/document/mdeguides(1).pdf)

## **Air and Radiation Management Administration Executive Summary**

The Air and Radiation Management Administration conducts enforcement and compliance activities in three programmatic areas, these being air quality, asbestos, and radiation. In the Air Quality Program, ensuring compliance at high impact sources continues to consume a large portion of the Program's resources. In addition to on-site inspections the Program reviews report submittals, stack test results, sampling results, and continuous monitoring summaries to assess compliance at regulated facilities. Due to a number of large enforcement actions, the penalty amount collected increased significantly over last year.

Due to the sheer number of these sources, low impact facilities continue to be an area where only a small percentage of sources are inspected. In this arena, the Air Program continues to focus on Stage II vapor recovery systems at gas stations, as well as dry cleaners. There are about 1700 gas stations subject to Stage II requirements to limit emissions of volatile organic compounds, a ground-level ozone precursor. There continues to be a higher level of non-compliance at these facilities, primarily in the testing, record keeping and reporting requirements. The Air Program is also focusing on ensuring compliance with federal air toxics requirements at dry cleaners. Again, there is a higher level of non-compliance, primarily with record keeping requirements.

The Air Program continues to pursue the use of Supplemental Environmental Projects (SEP) in the settlement of enforcement actions where appropriate. A SEP is an environmental or public health related project implemented by a facility in lieu of a portion of a penalty payment to settle an enforcement action. This year the Air Program negotiated several SEPs as part of enforcement actions including a school bus diesel retrofit project and a biodiesel project.

The Air Quality Compliance Program continues to receive a large number of air quality complaints, receiving 608 in fiscal year 2008. The Program responds to all complaints by telephone, prioritizing those that require a field inspection. This year 67% of complaints received by the Air Program were followed up with an on-site inspection. Some complaint situations needed multiple follow-up inspections to address the concerns of the complainants and to ensure compliance with air quality requirements. This year, one enforcement action was initiated in response to air quality complaints.

In the Asbestos Program, contractors intending to abate asbestos are required to notify MDE. MDE inspects as many of these projects as possible, generally focusing on the more substantial projects. In FY 2008, the Program inspected 22% of sites that provided notification to MDE. The number of notifications received in FY 2008 was 3,283, essentially the same as in FY 2007 in which 3,277 notifications were received.

The Radiological Health Program (RHP) regulates both man-made electronic sources of radiation and materials that are radioactive. The RHP ensures that the general public does not receive unnecessary radiation regardless of its many uses. In FY 2008 the RHP continued implementation of additional security controls for those licensees with sufficient quantities and types of radioactive materials that if stolen would pose a national threat. The

RHP has also completed the removal and cleanup of thousands of radium-226 aircraft dials located at a site on Maryland's Eastern Shore. The implementation of an extensive registration of general licensed sources of radiation to significantly improve accountability of these radioactive materials. The RHP also received the most successful federal radiation program audit in the history of the Maryland Radiation Agreement State Program. Additionally, an evaluation was conducted of the radiation safety and engineering of several complex sealed source and device registrations for medical devices prior to allowing the use and sale of these devices across the country.

In FY 2008 the RHP increased the number of enforcement actions taken on radiation machines. To notify facilities of the increased enforcement, the RHP sent a memo to all stakeholders notifying the registrants that if violations were found on the initial inspection, penalties would likely be assessed. Prior to a dental or veterinary inspection, the RHP inspector sends a confirmation letter to the registrant outlining the expectations of the inspection. It is expected that the registrant will service and maintain their x-ray equipment as necessary to minimize or eliminate the number of initial violations found at the facility. The RHP believes that initial facility compliance will improve due to this increased enforcement and outreach. As a result of last year's evaluation of entrance skin exposure data collected at dental inspections between 1995 and 2005, the RMD incorporated streamlined dental inspections into inspection activities this year. Streamlining dental inspections assisted in the RMD's reduction of the dental inspection backlog. The RMD will continue its efforts with dental facilities to ensure consistent communication of public health issues.

**Air and Radiation Management Administration  
Performance Measures Executive Summary**

	2007 Totals	2008 Totals
<u>PERMITTED SITES/FACILITIES</u>		
Number of Permits/Licenses Issued	1,737	1,370
Number of Permits/Licenses in Effect at Fiscal Year End	28,066	28,313
<u>OTHER REGULATED SITES/FACILITIES</u>		
Other regulated sites	4,499	4,156
<u>INSPECTIONS</u>		
Number of Sites Inspected	5,098	3,891
Number of Sites Audited but not inspected	N/A	948
Number of Inspections, Audits, Spot Checks	11,097	10,758
<u>ENFORCEMENT ACTIONS</u>		
Number of Compliance Assistance Rendered	1,654	1,841
Number of Enforcement Actions Taken **	150	207
<u>PENALTIES</u>		
Amount of Administrative or Civil Penalties Obtained	\$415,150	\$1,234,958

\* Derived by adding up all of the coverage universes for each program as listed in the pie chart for each.

\*\* Derived by adding up the number of enforcement actions for each program as listed in the chart for each.

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# Ambient Air Quality Control

## PURPOSE

There are approximately 12,000 stationary sources of air emissions registered in Maryland. The Air Quality Compliance Program is responsible for ensuring that these sources comply with applicable air pollution control requirements. Approximately 200 of these sources emit more than 95% of all the pollutants emitted from stationary sources. These 200 high-emitting sources and an additional 400 or so priority sources receive a high level of scrutiny. The additional priority sources are selected due to concerns regarding potential emissions, toxic air pollutant emissions, potential for nuisance impact, impact on the general welfare, or are considered to have the potential for significant risk to public health or the environment. Combined, this group of about 600 sources includes facilities such as large industrial operations, paper mills, asphalt plants and incinerators. This group varies slightly in number from year to year due to start-up of new sources, shut-down of existing sources, or sources reducing emissions or using less toxic materials to the point where they are no longer considered priority sources and thus do not demand close scrutiny. The remainder of the 12,000 sources are generally smaller in terms of their emissions or their impacts and are considered to be of lesser risk to public health or the environment. Examples of these smaller sources include dry cleaning operations, charbroilers, small boilers, paint spray booths, and degreasing machines. For this reason, performance measures information is presented in two categories, *High Impact Air Emission Facilities* and *Low Impact Air Emission Facilities*.

## AUTHORITY

FEDERAL: Clean Air Act, Title I, Section 110

STATE: Environment Article, Title 2; COMAR 26.11

## PROCESS

In inspecting facilities, a major focus is given to those approximately 600 sources described above that are considered a potential significant risk to public health or the environment. Often, multiple inspections are performed at these sources over the course of a year. Inspections are both announced and unannounced, depending on the nature and purpose of the inspection. Smaller, lower risk sources are addressed through special initiatives that may focus on inspecting all sources within a particular source category, spot-checks of a percentage of sources in a category where the category contains a large number of small sources, and the education of trade groups and equipment operators and owners.

## SUCCESSSES / CHALLENGES

Ensuring compliance at high impact sources continues to consume a large portion of the Air Quality Compliance Program's resources. In addition to on-site inspections the Program reviews report submittals, stack test results, sampling

results, and continuous monitoring summaries to assess compliance at regulated facilities. Due to a number of large enforcement actions, the penalty amount collected increased significantly over last year.

The Air Program continues to pursue the use of Supplemental Environmental Projects (SEP) in the settlement of enforcement actions where appropriate. A SEP is an environmental or public health related project implemented by a facility in lieu of a portion of a penalty payment to settle an enforcement action. This year the Air Program negotiated several SEPs as part of enforcement actions including a school bus diesel retrofit project and a biodiesel project.

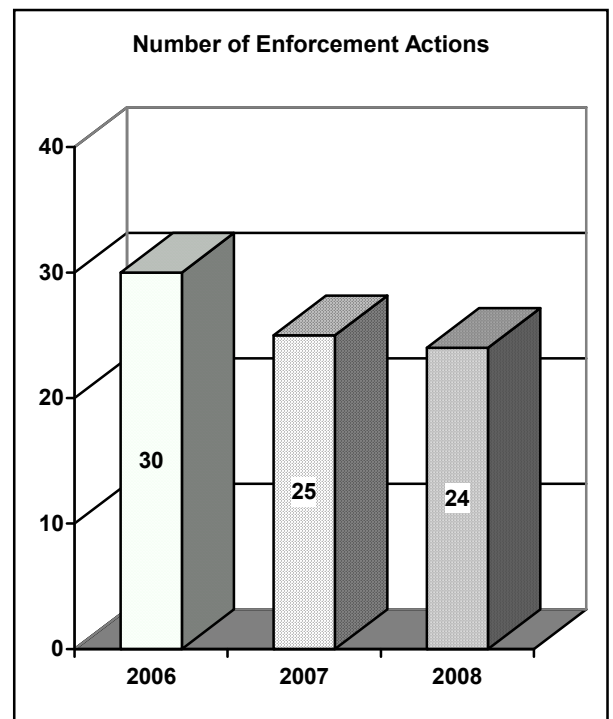
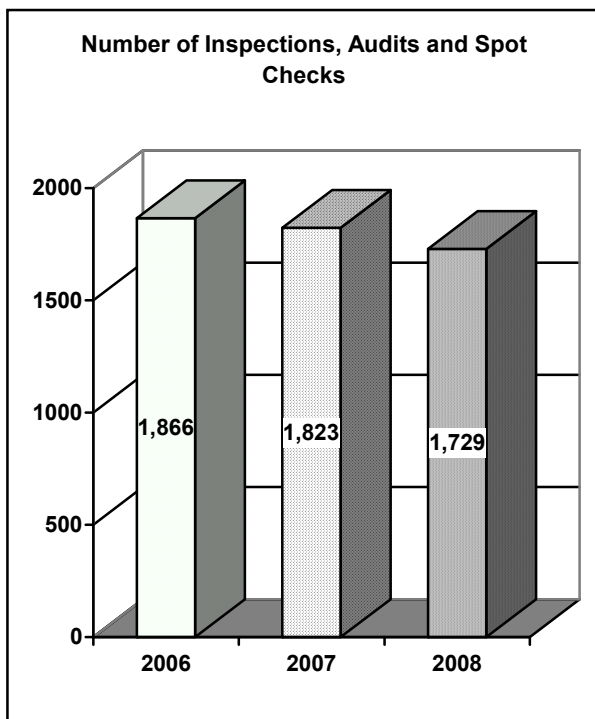
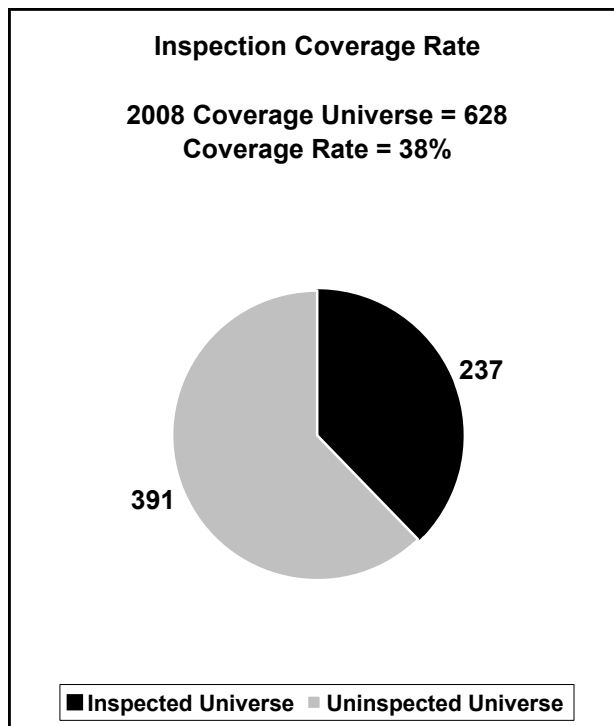
Due to the sheer number of the sources, low impact facilities continue to be an area where only a small percentage of sources are inspected. In this arena, the Air Program continues to focus on Stage II vapor recovery systems at gas stations, as well as dry cleaners. There are about 1700 gas stations subject to Stage II requirements, which limit emissions of volatile organic compounds, a ground-level ozone precursor. There continues to be a higher level of non-compliance at these facilities, primarily in the testing, record keeping and reporting requirements. The Air Program is also focusing on ensuring compliance with federal air toxics requirements at dry cleaners. Again, there is a higher level of non-compliance, primarily with record keeping requirements.

## Ambient Air Quality Control High Impact Facilities

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of sites/facilities			628
Number of permits/licenses issued			163
Number of permits/licenses in effect at fiscal year end			3,817
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)			237
Number of sites audited but not inspected			110
Number of sites evaluated for compliance			347
Number of inspections, spot checks (captures number of compliance activities at sites)			687
Number of audits (captures number of reviews of file/submittals for compliance)			1,024
Number of inspections, audits, spot checks			1,729
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			13
% of inspected sites/facilities with significant violations			4%
Inspection coverage rate (number of sites inspected/coverage universe)			38%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			6
Number of significant violations based on technical/preventative deficiencies			9
Number of significant violations carried over awaiting disposition from previous fiscal year			44
Total number of significant violations			59
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			41
Ongoing			18
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			51
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	3	0	3
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	8	13	21
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$982,833



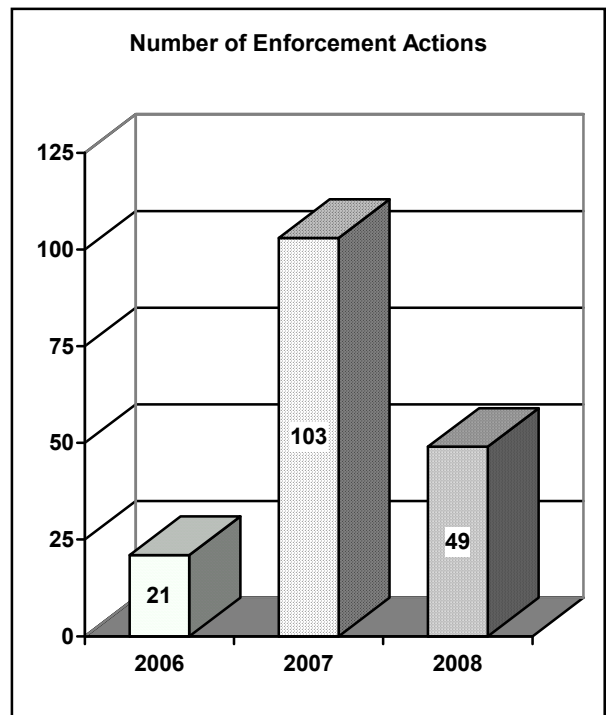
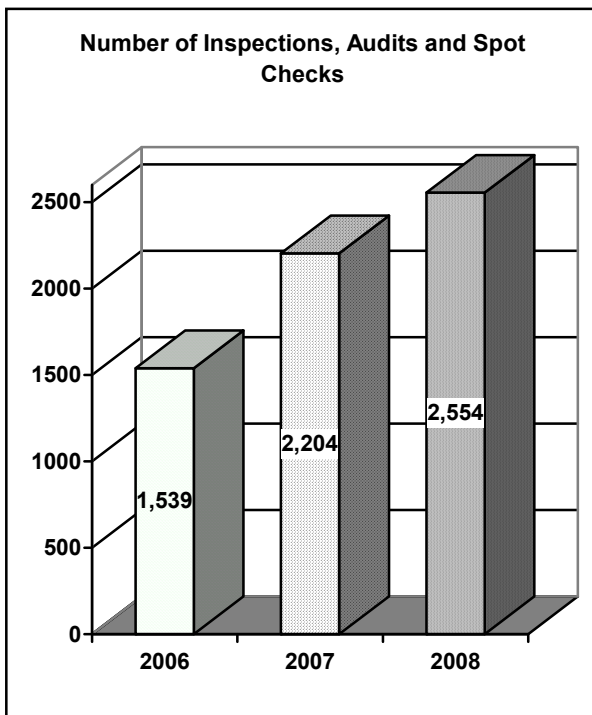
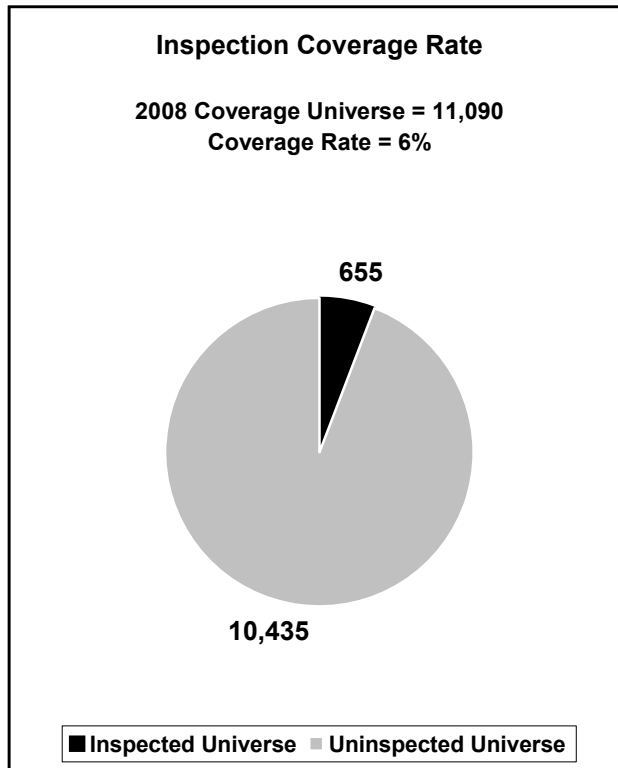
# Ambient Air Quality Control High Impact Facilities



## Ambient Air Quality Control Low Impact Facilities

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of sites/facilities	11,090																								
Number of permits/licenses issued	374																								
Number of permits/licenses in effect at fiscal year end	18,888																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	655																								
Number of sites audited but not inspected	838																								
Number of sites evaluated for compliance	1,493																								
Number of inspections, spot checks (captures number of compliance activities at sites)	810																								
Number of audits (captures number of reviews of file/submittals for compliance)	1,744																								
Number of inspections, audits, spot checks	2,554																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	16																								
% of inspected sites/facilities with significant violations	1%																								
Inspection coverage rate (number of sites inspected/coverage universe)	6%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	1																								
Number of significant violations based on technical/preventative deficiencies	18																								
Number of significant violations carried over awaiting disposition from previous fiscal year	27																								
Total number of significant violations (sum of the three measures above)	46																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	39																								
Ongoing	7																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	82																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 20%;">Administrative</th> <th style="width: 20%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">12</td> <td style="text-align: center;">0</td> <td style="text-align: center;">12</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">37</td> <td style="text-align: center;">0</td> <td style="text-align: center;">37</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	12	0	12	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	37	0	37	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	12	0	12																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	37	0	37																						
Number of referrals to Attorney General for possible criminal action			0																						
Number of show cause, remedial, corrective actions issued	12	0	12																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	37	0	37																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$85,730																						

# Ambient Air Quality Control Low Impact Facilities



# Air Quality Complaints

## **PURPOSE**

In addition to the almost 12,000 registered or permitted sources of air emissions in Maryland, there are numerous potential sources of air pollution that are not required to be registered or permitted by the Department. Examples include some composting operations, construction sites, open burning activities, hot tar roofing operations, material storage piles, welding and burning activities, and certain portable operations of short duration. These sites or activities can create nuisance conditions such as odors or fugitive dust. The Air Quality Compliance Program responds to complaints regarding nuisance odors and dust from both permitted and non-permitted operations. After investigation, some complaints reveal no basis for potential harm to environment or public health, but will be addressed to reduce nuisance conditions to neighbors or communities.

## **AUTHORITY**

STATE: Environment Article, Title 2; COMAR 26.11

## **PROCESS**

Complaints are addressed in a number of ways. A complaint situation may be of sufficient severity to warrant an immediate site visit. Complaints arising from severe nuisance situations generally result in the Department receiving multiple and separate complaints for a single situation. A complaint situation can also be a sporadic occurrence, which may lead to increased surveillance of a site in an attempt to verify the existence of a problem, which could then generate a need to conduct a formal inspection. Some complaints, particularly where only an explanation of the regulations is needed, can be resolved through phone contact or letters. If the complaint investigation reveals a violation at a permitted site, the violation and subsequent enforcement action is counted under the ambient air quality control program's performance measures chart.

Only those violations that occur at non-permitted sites are counted here. Most violations in this category are related to open burning activities or the creation of off-site nuisances caused by odors or dust from sites. Violations such as these rarely result in actual harm, but have the potential to cause harm to the environment or public health, and on this basis are included in this report. Nearly all violations in this program are resolved without the need to take enforcement action, as they generally relate to short-lived activities, are quickly corrected (often at the time of inspection), do not reoccur, and result in no actual harm to public health or the environment.

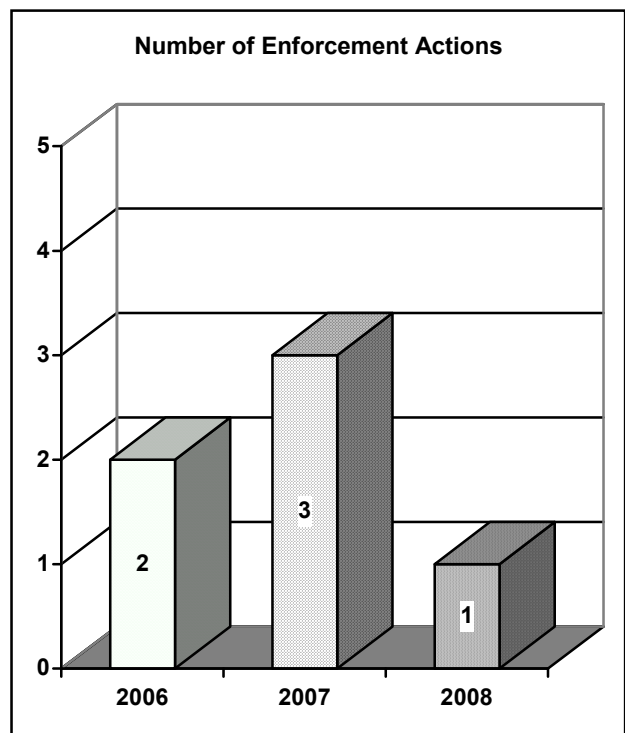
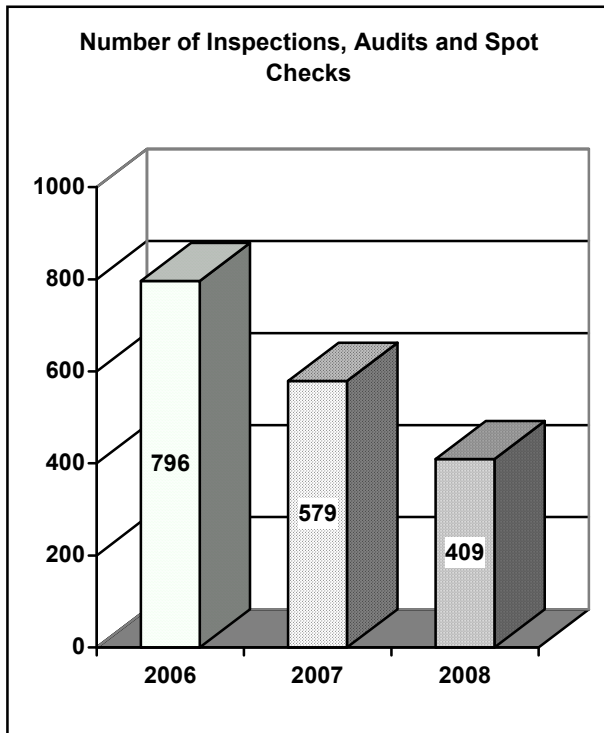
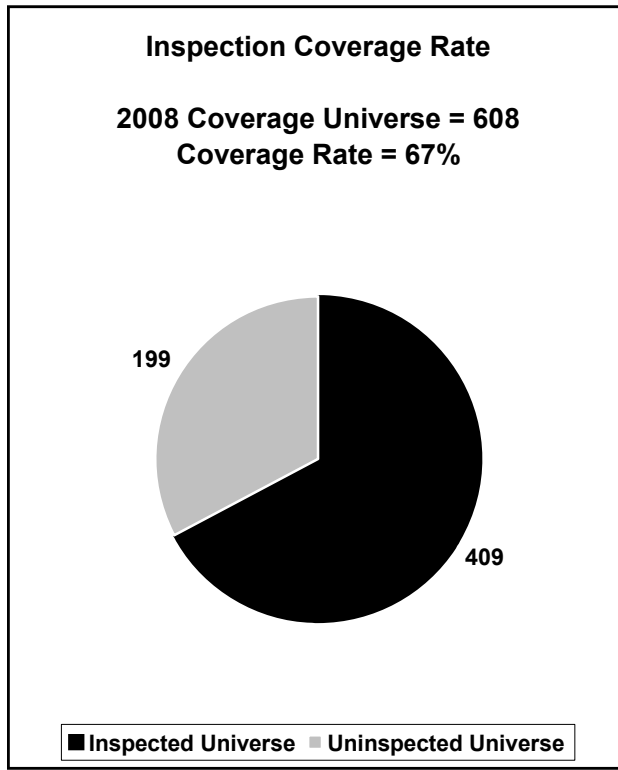
## **SUCSESSES / CHALLENGES**

The Air Quality Compliance Program continues to receive a large number of air quality complaints, receiving 608 in fiscal year 2008. The Program responds to all complaints by telephone, prioritizing those that actually require a field inspection. This year 67% of complaints received by the Air Program were followed up with an on-site inspection. Some complaint situations needed multiple follow-up inspections to address the concerns of the complainants and to ensure compliance with air quality requirements. Based on their nature, some complaints at non-permitted sites need follow-up enforcement action to achieve compliance. This year, one enforcement action was initiated in response to air quality complaints.

# Air Quality Complaints

Performance Measure	TOTAL
<b>PERMITTED SITES/FACILITIES</b>	
Number of sites/facilities	N/A
Number of permits/licenses issued	N/A
Number of permits/licenses in effect at fiscal year end	N/A
<b>OTHER REGULATED SITES/FACILITIES</b>	
Complaints received at all sites	608
Complaints received at unregistered/unpermitted sites	412
<b>INSPECTIONS</b>	
Number of sites inspected ("inspected" defined as at the site)	253
Number of inspections, spot checks (captures number of compliance activities at sites)	394
Number of Initial complaint inspections at all sites	409
<b>COMPLIANCE PROFILE</b>	
Number of inspected sites/facilities with significant violations	2
% of inspected sites/facilities with significant violations	1%
Inspection coverage rate (number of sites inspected/coverage universe)	67%
<b>SIGNIFICANT VIOLATIONS</b>	
Number of significant violations involving environmental or health impact	2
Number of significant violations based on technical/preventative deficiencies	0
Number of significant violations carried over awaiting disposition from previous fiscal year	5
Total number of significant violations (sum of the three measures above)	7
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>	
Resolved	0
Ongoing	7
<b>ENFORCEMENT ACTIONS</b>	
Number of compliance assistance rendered	12
	Administrative      Civil/Judicial      Total
Number of show cause, remedial, corrective actions issued	0                      0                      0
Number of stop work orders	0                      0                      0
Number of injunctions obtained	0                      0                      0
Number of penalty and other enforcement actions	1                      0                      1
Number of referrals to Attorney General for possible criminal action	0
<b>PENALTIES</b>	
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0

# Air Quality Complaints



# Asbestos

## **PURPOSE**

The Air Quality Compliance Program manages the licensing of asbestos removal contractors and oversees their efforts when removing or encapsulating asbestos to assure that asbestos is handled in a manner that is protective of human health. Any project that involves demolition or the removal of more than 240 linear feet or more than 160 square feet of asbestos-containing material is subject to federal safety standards under EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) program. All projects are subject to additional requirements under state laws and regulations. Projects can range from something as small as a single pipe wrapping to a major removal project at a power plant or similarly large facility.

## **AUTHORITY**

FEDERAL: Clean Air Act, Title 1, Section 112

STATE: Environment Article, Title 6, Subtitle 4; COMAR 26.11.21

## **PROCESS**

Removing or encapsulating asbestos must be done by a contractor licensed by MDE. The contractor is required to notify the Department of the location of the activity and the approximate amount of asbestos-containing material to be removed or encapsulated prior to undertaking the work. From the information contained in the notification, the Department will determine whether the project is required to meet federal safety standards. Approximately 25% to 30% of all asbestos projects undertaken are subject to federal program requirements. Projects subject to such requirements are considered a priority and an inspection will generally take place. Priority is also given to inspecting contractors with poor performance records, projects in close proximity to other priority projects (for inspection efficiency) and projects for which complaints have been lodged. The focus of an inspection is on determining whether a contractor is adhering to strict safety standards designed to protect workers and the public from exposure to asbestos.

## **SUCCESSSES / CHALLENGES**

Contractors intending to abate asbestos are required to notify MDE. MDE inspects as many of these projects as possible, generally focusing on the more substantial projects. In FY 2008, the Program inspected 22% of sites that provided notification to MDE, which is a bit lower than the 25% inspected in FY 2007. The number of notifications received in FY 2008 was 3,283, essentially the same as in FY 2007 in which 3,277 notifications were received.



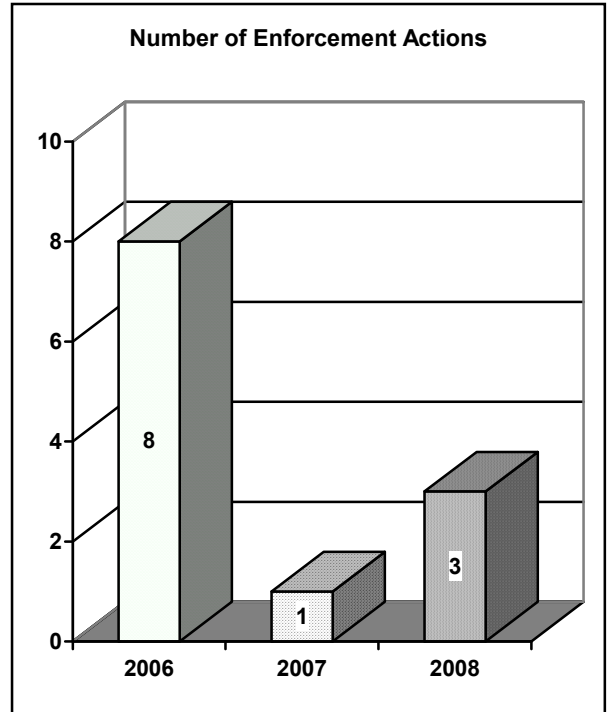
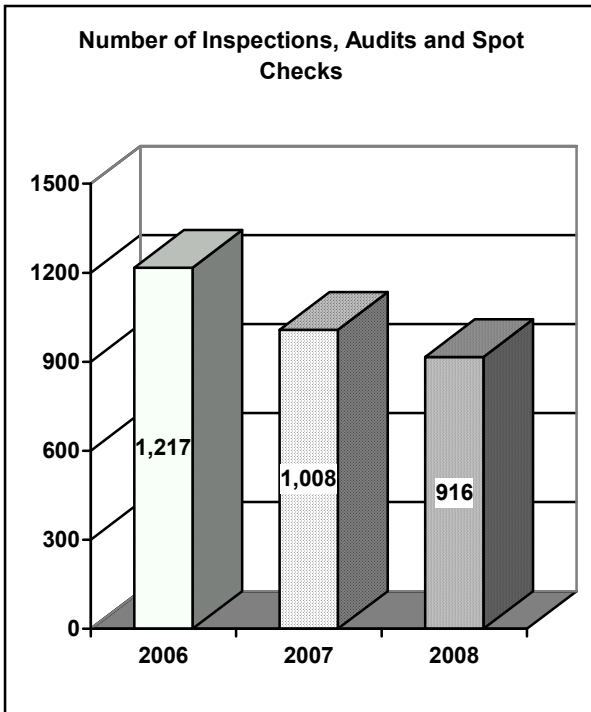
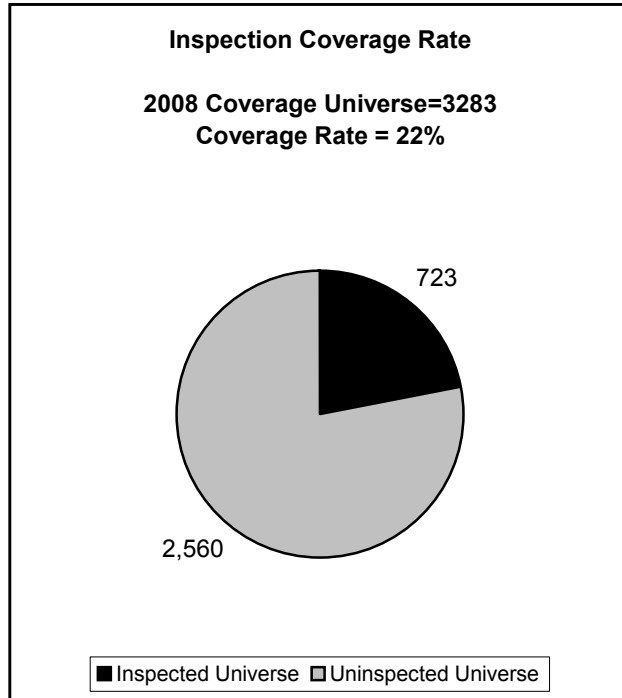
## **INSPECTION COVERAGE RATE**

The inspection coverage rate is computed as the number of sites inspected divided by the number of notifications received. Note that the Program receives notifications for any amount of asbestos that is disturbed. This will include notifications for one to two feet of removal in which the project takes only two hours, to notification for thousands of linear and square feet, in which the project may take up to twelve months. State law governs the notification process for small projects, and requires only that the contractor notify the Department before the project begins. The larger projects are governed by federal requirements, and the contractor is required to notify at least ten days prior to beginning the project. It is more likely that an inspection will take place at a site where removal will last a day or more. The Program is required by state law to annually inspect at least one asbestos removal project by each contractor. The Program meets this requirement.

## Asbestos

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued ( Asbestos Contractor Licenses)	125																								
Number of permits/licenses in effect at fiscal year end	127																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Number of Asbestos Notifications Received	3,283																								
<b>INSPECTIONS</b>																									
Number of sites inspected (“inspected” defined as at the site)	723																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	723																								
Number of inspections, spot checks (captures number of compliance activities at sites)	916																								
Number of audits (captures number of reviews of file/submittals for compliance)	0																								
Number of inspections, audits, spot checks (sum of the two measures above)	916																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	2																								
% of inspected sites/facilities with significant violations	0.3%																								
Inspection coverage rate (number of sites inspected/coverage universe)	22%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	4																								
Number of significant violations based on technical/preventative deficiencies	0																								
Number of significant violations carried over awaiting disposition from previous fiscal year	28																								
Total number of significant violations (sum of the three measures above)	32																								
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Resolved	0																								
Ongoing	32																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	31																								
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	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	2	1	3																						
Number of referrals to Attorney General for possible criminal action			1																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	2	1	3																						
Number of referrals to Attorney General for possible criminal action			1																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$6,750																								

# Asbestos



## **Radiological Health Program (RHP)**

# Radiation Machines Division

## **PURPOSE**

The RHP's Radiation Machines Division (RMD) mission is to regulate man-made electronic sources of radiation to minimize the amount of unnecessary radiation exposure received by the general public. These electronic radiation sources include dental and veterinary x-ray machines, mammography (breast imaging) machines, diagnostic and therapeutic radiation machines and other electronic radiation devices such as security screening devices used in research or industry.

State regulations, which derive in part from U. S. Department of Health and Human Services (DHHS) Food and Drug Administration (FDA) statutory requirements, require that all radiation exposures be "As Low As Reasonably Achievable" (ALARA). Radiation exposure can cause adverse health effects, with risk depending upon the amounts of radiation received, frequency of radiation exposures, and radio-sensitivity of body parts. Although the medical benefits of diagnostic and therapeutic treatment procedures far outweigh potential risks of sustained biological damage, evidence supports the supposition that receiving numerous small exposures over time has a cumulative health effect and may be as detrimental as receiving a single large exposure. Documented human health impacts from radiation machine procedures are on the rise due to the increased use of fluoroscopic x-ray procedures and computed tomography (CT) devices that in many cases replace invasive surgical procedures.

## **AUTHORITY**

FEDERAL: Radiation Control for Health and Safety Act of 1968, 21CFR1000;  
Mammography Quality Standards Act; 21CFR900

STATE: Environment Article, Title 8 "Radiation";  
COMAR 26.12. Radiation Management

## **PROCESS**

The RMD ensures all radiation machine facilities are inspected on cycles required by statute, regulation, administrative policy or contract-mandated frequencies. While mammography inspection reports are provided to the FDA for follow up enforcement actions, the FDA's response is not included in this report.

Dental, veterinary and mammography facilities are required to renew the radiation machine facility registration of the x-ray equipment every two years. Facilities with x-ray machines subject to certification are required to renew the radiation machine facility registration on the same schedule as the certification inspection frequency presented in the chart below.

## **SUCCESSSES / CHALLENGES:**

The RMD has increased the number of enforcement actions taken on all radiation machines facilities due to significant violations cited by both RMD staff

and State licensed private inspectors. In an effort to notify facilities of the increased enforcement, the RMD sent a memo to all stakeholders notifying the registrants that if violations were found on the initial inspection, penalties would likely be assessed. Prior to a dental or veterinary inspection, the RMD inspector sends a confirmation letter to the registrant outlining the expectations of the inspection. The RMD expects the registrant to contact a registered service provider and arrange for preventative maintenance on the x-ray device prior to the scheduled arrival of an RMD inspector to minimize or eliminate the number of initial violations found at the facility. The RMD is optimistic that initial facility compliance will improve due to increased escalated enforcement. The RMD will continue to work with the regulated community to ensure that public health issues are addressed.

The chart below shows the types of facilities regulated by the RMD listed in terms of radiation machine type or purpose and the frequency at which they are inspected. For clarity, please note that the words machine and tube are used interchangeably. (See below).

Facility Type	Registered X-ray Tubes*	Inspection Frequency
High Energy & Particle Accelerators	3 facilities, 4 Certified Tubes	Annual
Medical Accelerators (Therapy)	42 facilities, 61 Certified Tubes	Annual
Hospitals	61 facilities, 1140 Certified Tubes	Biennial
Physicians: Chiropractic, MD, GP, Podiatric	1264 facilities, 1793 Certified Tubes	Biennial
Industrial	243 facilities, 497 Certified Tubes	Triennial
Dental	2669 facilities, 8996 Tubes	Triennial
Veterinary	428 facilities, 534 Tubes	Triennial
Mammography (MQSA)	129 facilities, 204 tubes	Annual

\*Code of Maryland Regulations (COMAR) 26.12.03 states that “Radiation Machine”: means a device that is capable of producing radiation. On any radiation producing equipment with more than one x-ray tube, or other single point from which radiation may be emitted, each x-ray tube or radiation emission point is considered a separate radiation machine... “Tube” is defined in COMAR 26.12.01.01 as an x-ray tube or other single point from which radiation may be emitted.

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# Radiation Machines

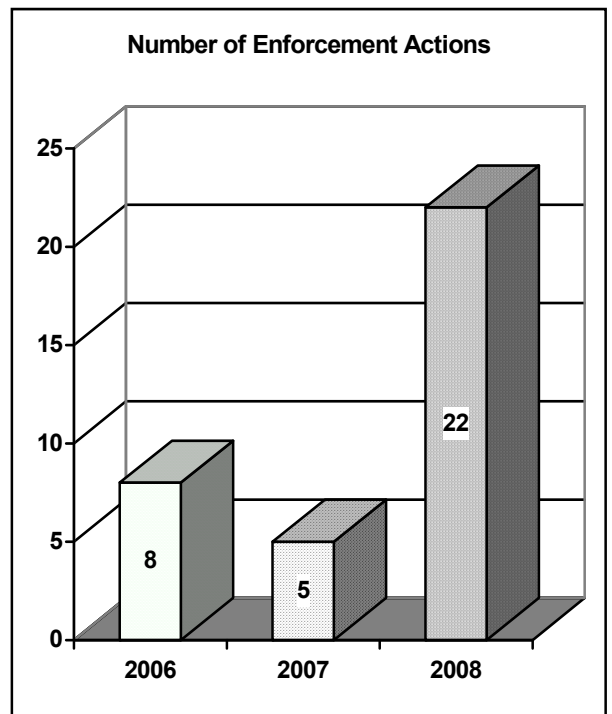
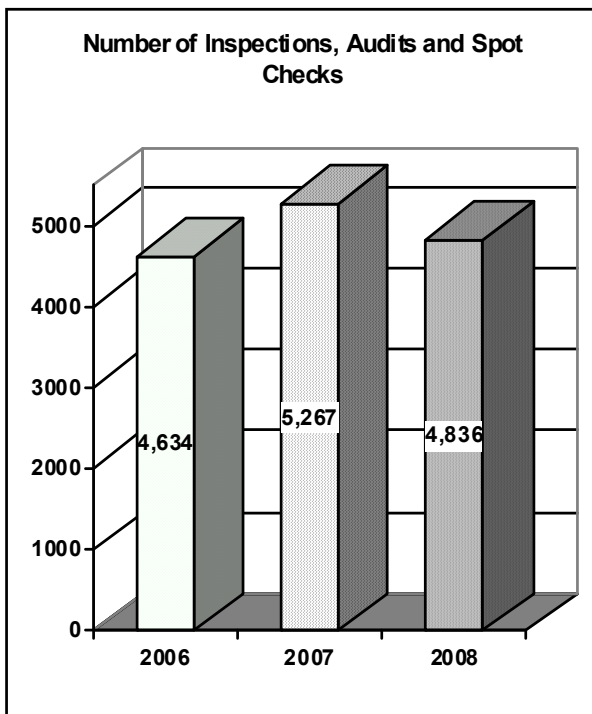
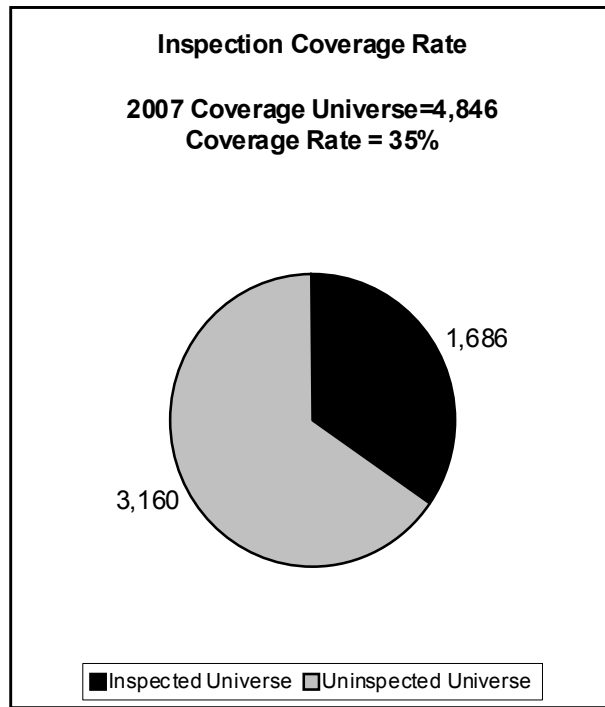
Performance Measure		TOTAL	
<b>PERMITTED SITES/FACILITIES</b>			
Number of New Facility Registrations Issued		145	
Number of Facility Registrations in effect at fiscal year end		4,846	
<b>OTHER REGULATED SITES/FACILITIES</b>			
Number of Service Companies Registered at FY end *		44	
Number of Licensed Private Inspectors at FY end *		78	
Number of Plan review or area surveys reviewed at FY end *		197	
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)		1,686	
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)		0	
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)		1,686	
Number of inspections, spot checks (captures number of compliance activities at sites)		4,836	
Number of audits (captures number of reviews of file/submittals for compliance)		0	
Number of inspections, audits, spot checks (sum of the two measures above,)		4,836	
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations		714	
% of inspected sites/facilities with significant violations		43%	
Inspection coverage rate (number of sites inspected/coverage universe) **		35%	
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact		0	
Number of significant violations based on technical/preventative deficiencies		1,621	
Number of significant violations carried over awaiting disposition from previous fiscal year		122	
Total number of significant violations (sum of the three measures above)		1,743	
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved		1,877	
Ongoing		104	
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered		48	
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued			0
Number of stop work orders			0
Number of injunctions obtained			0
Number of penalty and other enforcement actions	22		22
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$37,000

\* measure added in FY 2002

\*\* Coverage is computed as the number of sites inspected divided by the sum of the number of facility registrations, the number of registered service providers and the number of licensed private inspectors. Plan reviews were not considered since each of those should be at sites that would be included as permitted sites.



# Radiation Machines Program



# **Radioactive Materials Licensing and Compliance**

## **PURPOSE**

The RHP's Radioactive Materials Licensing and Compliance Division (RAMLCD) issues and inspects specific radioactive material licenses to hospitals, cancer treatment and diagnostic imaging centers, private medical practices, construction, research and development firms, academic institutions, nuclear pharmacies, and manufacturers and distributors of sealed sources and devices (SS&D). RAMLCD regulation of the use, handling and control of both generally and specifically licensed radioisotopes is mandated to protect the health and safety of radiation workers and the general public as well as minimize environmental contamination. The RAMLCD also evaluates new and modified devices containing sealed radiation sources submitted by Maryland companies for radiation safety and engineering reliability prior to the issuance of SS&D Certifications.

## **AUTHORITY**

FEDERAL: Atomic Energy Act of 1954, as amended;  
10 CFR (Nuclear Regulatory Commission) Parts 1-171

STATE: Environment Article, Title 8; "Radiation";  
COMAR 26.12. Radiation Management

## **PROCESS**

The RAMLCD inspects the above-described facilities for compliance with radiation regulations and adherence to license conditions and radiation safety procedures and practices. Inspections are performed over a 1 to 4 day period by one inspector or a team of inspectors at a frequency based on the quantity, activity and toxicity of the radioisotope(s), the potential hazard resulting from its use, and the nature of the operation and may range from annual to every 5 years, with possible modification for licensees with a poor compliance history. Corrective actions are required immediately and are verified by formal licensee responses and possible follow-up inspections. RAMLCD also conducts investigations throughout Maryland in response to RAM incident reports, complaints, suspected violations or unauthorized RAM use. The Division also oversees the decommissioning of previously licensed RAM facilities, conducts safety evaluations on RAM sources and devices, and performs pre-licensing visits to all applicants prior to the issuance of a license. Additionally, the Division performs inspections on at least 25% of the most hazardous radiation operations conducted in Maryland by out-of-State licensees under reciprocal recognition of their licenses. Finally, the RAMLCD responds to transportation accidents involving radioisotopes, the activation of radiation monitors at landfills, incinerators or metal processing facilities or laboratory radiation spills. Each year the Division participates in federally evaluated emergency drills that test the Department's preparedness for radiation accident response at either the Calvert Cliffs Nuclear Power Plant or the Peach Bottom Atomic Power Station. Additionally, RAMLCD staff are trained to respond to possible terrorist radiation incidents.

## SUCSESSES / CHALLENGES

This Program continues to address the protection of the public from unnecessary exposure to ionizing radiation. Successes in FY 2008 include the continued implementation, through the licensing and inspection process, of additional increased security controls for those licensees with sufficient quantities and types of radioactive materials, that if stolen would pose a national threat; the completion of the removal and cleanup of thousands of radium-226 aircraft dials located at a site on Maryland's Eastern Shore; two successful emergency drills for both the Calvert Cliffs and Peach Bottom Nuclear Utilities; the most successful RAMLCD federal audit in the history of the Maryland Radiation Agreement State Program; and the evaluation of the radiation safety and engineering of several complex sealed source and device registrations for medical devices prior to allowing the use and sale of these devices across the country. Challenges include the further evaluation and implementation of increased security for radioactive material in Maryland and continued outreach and education of Maryland citizens regarding the actual hazards of ionizing radiation.

## INSPECTION COVERAGE RATE

The following chart shows the inspection frequency, the number of licenses that are inspected at that frequency and an example of the type of licenses:

Inspection Frequency	Number of Licenses	Examples of License Types
Annual	45	Academic & Medical Research Nuclear Pharmacies Gamma Knife (cancer therapy) Remote Afterloader (cancer therapy) Industrial Radiography
2 Years	14	Mobile Medical Vans
3 Years	134	Hospitals Brachytherapy (cancer therapy) Medical Offices
5 Years	440	Fill/Density Gauges Nuclear Pacemakers Diagnostic Nuclear Medicine

### Notes for above table:

Licenses inspected in the annual, 2-year and 3-year inspection frequencies are the most complex and represent those types of radioactive material activities with the greatest radiation hazard to users and members of the general public.

Facility radioactive material inspections are resource intensive. Onsite facility inspection times vary from .5 day with 1 inspector for the 5-year inspection frequency, 1-2 day inspection with one or two inspectors for 2 and 3-year inspection frequencies, to a 4-day inspection with three inspectors for certain extremely complex annual inspections.

## Radioactive Materials

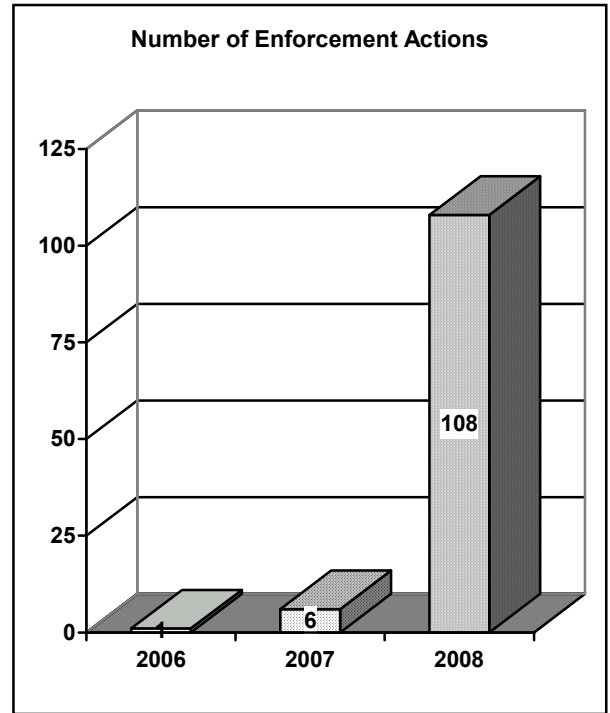
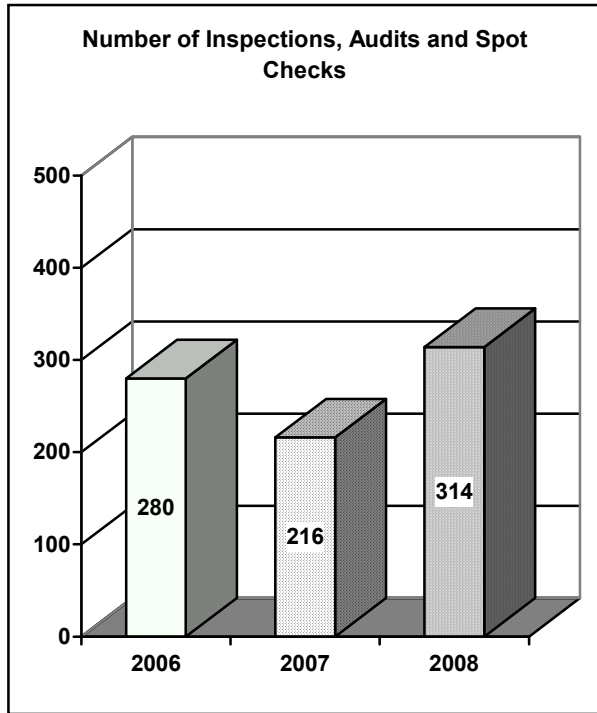
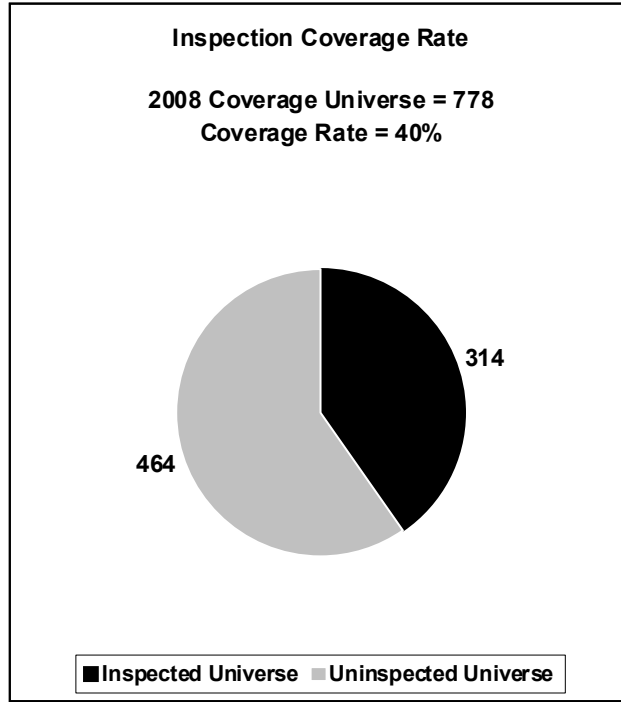
Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			563
Number of permits/licenses in effect at fiscal year end			635
<b>OTHER REGULATED SITES/FACILITIES</b>			
Sources from Other Jurisdictions			143
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)			337
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			0
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			337
Number of inspections, spot checks (captures number of compliance activities at sites)			314
Number of audits (captures number of reviews of file/submittals for compliance)			0
Number of inspections, audits, spot checks (sum of the two measures above)			314
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			10
% of inspected sites/facilities with significant violations			3%
Inspection coverage rate (number of sites inspected/coverage universe)			40%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			0
Number of significant violations based on technical/preventative deficiencies			32
Number of significant violations carried over awaiting disposition from previous fiscal year			3
Total number of significant violations (sum of the three measures above)			35
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			33
Ongoing			2
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			1,617
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	0	0	0
Number of stop work orders	0	0	0
Number of injunctions obtained			
Number of penalty and other enforcement actions	102***	4/2	108
Number of referrals to Attorney General for possible criminal action			2
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$122,645

\* Coverage is computed as the number of licenses inspected divided by the sum of the number of permits/licenses in effect plus the number of sources from other jurisdictions since each could be cause for inspection.

\*\* Inspection of a single license is counted as one inspection but inspectors may be required to visit multiple unique sites to inspect the license.

\*\*\*This number includes NOV's issued for nonsignificant violations.

# Radioactive Materials



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**WASTE MANAGEMENT ADMINISTRATION**  
[http://www.mde.state.md.us/assets/document/mdeguide\(1\).pdf](http://www.mde.state.md.us/assets/document/mdeguide(1).pdf)

## **WASTE MANAGEMENT ADMINISTRATION EXECUTIVE SUMMARY**

The Waste Management Administration's (WAS) responsibilities range from addressing underground storage tanks and lead paint at private homes to groundwater contamination and solid and hazardous waste management at municipal landfills, military bases, large industrial complexes, and farms.

In FY 2008, the number of sites inspected and the number of site inspections conducted increased as compared to FY 2007. The total number of inspections, spot checks and audits increased by 28% in FY 2008 as compared to FY 2007. Compliance assistance actions increased by 41% and enforcement actions increased by 87% in FY 2008. The number of permits and licenses in effect increased by 24% and the number of other regulated sites/facilities increased by 11%.

The Hazardous Waste Program ensures protection of public health and the environment from releases of hazardous waste. In FY 2008, there were 19 permitted Treatment, Storage, and Disposal (TSD) facilities in Maryland. Waste minimization activities by generators of hazardous waste continue to result in reducing quantities of waste generated, and the need for treatment, storage and disposal of hazardous waste. The number of inspections, audits, and spot checks in the Hazardous Waste Program decreased slightly from 399 in FY 2007 to 366 in FY 2008. While all the TSD facilities were inspected in FY 2008, only 1.56% of the total facilities that generate hazardous waste were inspected in FY 2008, up slightly from 1.4% in FY 2007.

In the Lead Poisoning Prevention Program, the percentage of children statewide with blood lead levels equal to or greater than 10 micrograms per deciliter decreased from 1.2% in FY 2007 to 0.8% in FY2008, a decrease for the fourteenth consecutive year. The total number of inspections, audits and spot checks increased slightly from 28,173 in FY 2007 to 28,995 in FY 2008. In FY 2008, the number of enforcement actions rose to 870 from 595 in FY 2007. Many of the enforcement actions continue to result in multiple-property or global settlements.

During this reporting period, there was a decrease in identified oil contaminated subsurface sites in the Oil Control Program from 1,947 in FY 2007 to 1,619 in FY 2008, the fourth year in a row of decrease. This may be attributable to Program's efficient prioritization of workload and sustained effort to move cases toward closure. The number of above ground oil storage facilities inspected decreased from 401 in FY 2007 to 331 in FY 2008, although the number of inspections increased from 830 in FY 2007 to 969 in FY 2008. Spill response activities increased slightly to 248 in FY 2008 from 213 in FY 2007. It continues to be uncertain whether the incidence of spills will increase or decline over time as the above ground storage tank population ages and tank integrity declines. Due to Program's private third party underground storage tank inspection program and the filling of staff vacancies, the number of sites inspected has increased rapidly from just 399 in FY 2006 to 908 in FY 2007 and to 1,516 in FY 2008. This has allowed Program staff to focus on enforcement activities which have more than doubled from 80 in FY 2007 to 170 in FY 2008.



The Solid Waste Program is responsible for overseeing Refuse Disposal, Scrap Tires, Sewage Sludge Utilization, and Natural Wood Waste Recycling activities in the State. In the refuse disposal function, the inspection coverage rate for permitted facilities was maintained during FY 2008 at 100%. The Solid Waste Program's number of refuse disposal site inspections increased during FY2008 to 1,032 from 999 in FY 2007 with visits to 232 sites. The enforcement actions increased from 27 in FY2007 to 66 in FY2008. A total of 67 significant violations were resolved in FY 2008 compared to 27 in FY 2007.

The scrap tire function of the Program continued the cleanup of scrap tire stockpiles, with 88 stockpiles and approximately 1.89 million scrap tires remaining to be cleaned up. New stockpiles are still discovered every year and during FY2008 a total of 54 new sites were discovered. A total of 52 stockpiles were cleaned up in 2008 resulting in removal of 251,637 scrap tires. There was an increase in the numbers of scrap tire site inspections conducted from 798 in FY 2007 to 834 in FY 2008. In addition, there were 5,050 audits performed, resulting in a cumulative 5,884 inspections. The number of scrap tire enforcement actions increased to 435 from 97 in FY 2007 and the number of significant violations resolved nearly doubled from 57 in FY 2007 to 107 in FY 2008.

There were no instances of unpermitted land application of sewage sludge in the State during FY 2008. The Program's number of inspections remained nearly constant at 501 during this reporting period compared to 511 in FY 2007. The number of significant violations increased to 30 compared to 12 in FY 2007, however 23 significant violations were resolved in FY 2008 compared to 11 in the previous year. In addition, enforcement actions in FY 2008 (17) more than doubled compared to 8 in FY 2007.

**Waste Management Administration  
Performance Measures Executive Summary**

	2007 Totals	2008 Totals
<u>PERMITTED SITES/FACILITIES</u>		
Number of Permits/Licenses Issued	2,503	2,995
Number of Permits/Licenses in Effect at Fiscal Year End	8,537	10,599
<u>OTHER REGULATED SITES/FACILITIES</u>		
Other Sites	224,127	249,313
<u>INSPECTIONS</u>		
Number of Sites Inspected	30,491	31,640
Number of Sites Audited but not inspected	N/A	6,482
Number of Inspections, Audits, Spot Checks	37,706	48,205
<u>ENFORCEMENT ACTIONS</u>		
Number of Compliance Assistance Rendered	6,714	6,353
Number of Enforcement Actions Taken	931	1,740
<u>PENALTIES</u>		
Amount of Administrative or Civil Penalties Obtained	\$942,240	\$834,421

# Land Restoration Program

## **PURPOSE**

The mission of the Land Restoration Program (LRP) is to protect public health and the environment by identifying sites that are, or potentially are, contaminated by controlled hazardous substances. Once identified, the sites are prioritized for remedial activities. The sites are then listed on the State Master List (see Appendix) and in the Disposal Site Registry.

## **AUTHORITY**

FEDERAL: Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

STATE: Environment Article, Title 7, Subtitle 2; COMAR 26.14

## **PROCESS**

LRP conducts and/or oversees environmental assessment and cleanup projects in Maryland. The assessment activities include investigating and sampling sites to determine whether cleanup is necessary. If the identified contamination is determined to represent a risk to public health or the environment, remedial activities are conducted to address the sites contaminated by controlled hazardous substances. Assessments and cleanups are conducted based on available resources. The Disposal Site Registry ranks those sites that are the highest priority for investigation and remedial action based on the federal Hazard Ranking System score.

## **SUCSESSES/CHALLENGES:**

The number of sites on the State Master List at the end of FY 2008 was 267. During the year, an additional 10 sites were moved to the Formerly Investigated Sites category (see Appendix) for a total of 171 sites given this designation. The Disposal Site Registry included 17 National Priority Listed (NPL) sites, addressed by USEPA under the federal CERCLA or Superfund law. The Program conducted one Preliminary Assessment (PA), three Site Investigations (SI), three combined PA/SIs, and two Expanded Site Investigations during FY 2008.

The LRP is continuing to work with EPA on five active private NPL sites and one site proposed for the NPL. Four sites remain in the process of Remedial Design: Maryland Sand, Gravel and Stone, Spectron, Ordnance Products and Kane & Lombard sites. The Central Chemical site is continuing a Feasibility Study. One site proposed for the NPL, the 68<sup>th</sup> Street Dump, is being managed under the EPA's Superfund Alternative Site Initiative, which allows the Responsible Party to implement a NPL caliber remediation without NPL listing.

# Hazardous Waste Program

## **PURPOSE**

The Resource Conservation and Recovery Act (RCRA) established a system for controlling the disposition of hazardous waste from generation to disposal. The Hazardous Waste Program (HWP) regulates the management of hazardous wastes through the review and issuance of hazardous waste treatment, storage, or disposal (TSD) facility permits. HWP also partners with the U.S. Environmental Protection Agency in the review, issuance, and monitoring of Corrective Action Permits. Additionally, it enforces all permits and regulated activities involving hazardous waste generators, transporters, and TSD facilities through a program of inspections, monitoring, and enforcement actions, including the issuance of site complaints, Notices of Violation, Consent Orders and Complaint and Orders.

## **AUTHORITY**

FEDERAL: Resource Conservation and Recovery Act (RCRA) - Subtitle C

STATE: Environment Article, Title 7, Subtitle 2; COMAR 26.13

## **PROCESS**

HWP's Enforcement Division is responsible for violation discovery and compliance activities. The focus of the enforcement program is on permitted hazardous waste TSD facilities and hazardous waste generators that pose the greatest threat to public health and the environment, have been previously cited for violations, or continue to be out of compliance. Enforcement and compliance is accomplished by scheduled inspections of permitted TSD facilities, unannounced inspections of large quantity generators of hazardous waste, and investigations of complaints. All federal and State permitted facilities, as well as those that receive off-site waste, are inspected at least once a year. Large quantity generators that have never been inspected are the first priority along with those that have not been inspected in the last three years.

## **SUCCESSSES/CHALLENGES**

HWP's strong enforcement and compliance program has resulted in inspection, permitting, tracking, and other regulatory activities becoming more effective, with fewer major instances of non-compliance. Pollution prevention/waste minimization initiatives resulted in better waste management and waste minimization activities, which reduced the quantity of hazardous waste generation, and, thus, the need for treatment and disposal of hazardous waste.

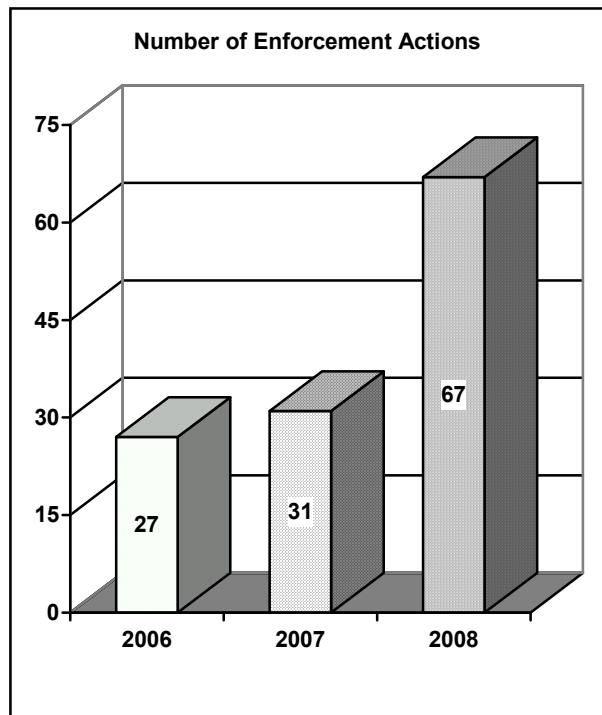
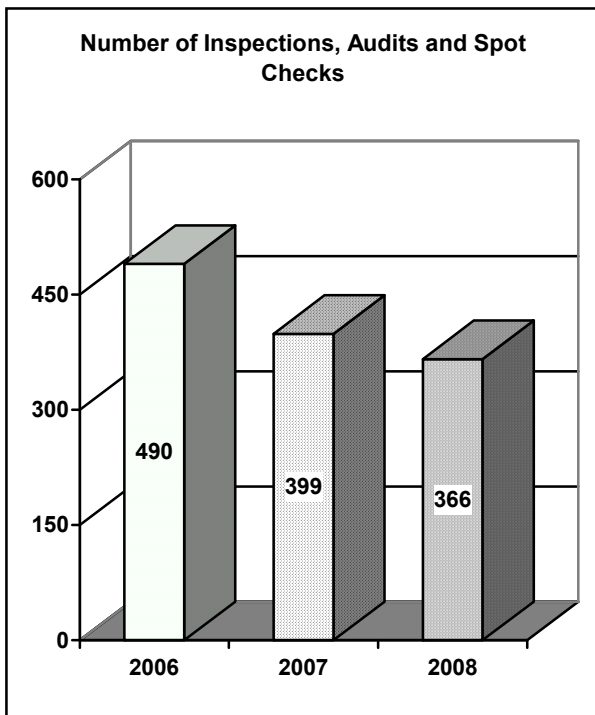
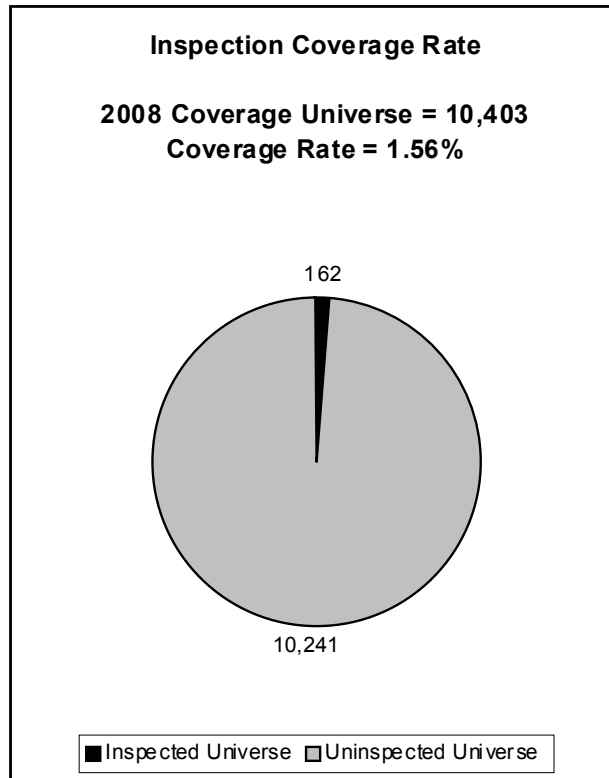
HWP's workload remains high since there are many small quantity and large quantity generators requiring inspection. During FY 2008, 1.56% of all facilities that generate or manage hazardous waste were inspected. This is up from 1.4% for FY 2007. HWP continues to meet its EPA federal grant commitments.

# HAZARDOUS WASTE

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	3																								
Number of permits/licenses in effect at fiscal year end	19																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Hazardous Waste Generators	10,191																								
New EPA ID Numbers Issued	212																								
<b>INSPECTIONS</b>																									
Number of sites inspected (“inspected” defined as at the site)	162																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	16																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	178																								
Number of inspections, spot checks (captures number of compliance activities at sites)	356																								
Number of audits (captures number of reviews of file/submittals for compliance)	10																								
Number of inspections, audits, spot checks (sum of the two measures above)	366																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	39																								
% of inspected sites/facilities with significant violations	22%																								
Inspection coverage rate (number of sites inspected/coverage universe)	1.56%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	10																								
Number of significant violations based on technical/preventative deficiencies	70																								
Number of significant violations carried over awaiting disposition from previous fiscal year	12																								
Total number of significant violations (sum of the three measures above)	92																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	56																								
Ongoing	36																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	12																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">12</td> <td></td> <td style="text-align: center;">12</td> </tr> <tr> <td>Number of stop work orders</td> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">55</td> <td></td> <td style="text-align: center;">55</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td></td> <td></td> <td style="text-align: center;">1</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	12		12	Number of stop work orders			0	Number of injunctions obtained			0	Number of penalty and other enforcement actions	55		55	Number of referrals to Attorney General for possible criminal action			1
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	12		12																						
Number of stop work orders			0																						
Number of injunctions obtained			0																						
Number of penalty and other enforcement actions	55		55																						
Number of referrals to Attorney General for possible criminal action			1																						
Number of show cause, remedial, corrective actions issued	12																								
Number of stop work orders	0																								
Number of injunctions obtained	0																								
Number of penalty and other enforcement actions	55																								
Number of referrals to Attorney General for possible criminal action	1																								
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$34,881																								

\*All 19 permitted facilities were inspected and are included in the total of Number of Sites Inspected.

# Hazardous Waste



# Lead Poisoning Prevention Program

## **PURPOSE**

The Lead Poisoning Prevention Program (LPPP) oversees activities designed to reduce the incidence of childhood lead poisoning. These activities involve accreditation and oversight of lead abatement services contractors, maintenance of a registry of rental properties, maintenance of a registry of children with elevated blood lead levels (greater than or equal to 10 micrograms per deciliter), and enforcement of the statute and regulations.

## **AUTHORITY**

FEDERAL: Toxic Substances Control Act

STATE: Environment Article, Title 6, Subtitles 3, 8 & 10; COMAR 26.16.01-.04 and Environment Article, Title 7, Subtitle 2; COMAR 26.02.07

## **PROCESS**

All affected properties (pre-1950 rental dwelling properties) must meet specified standards of care: risk reduction standards, registration of the rental property, and distribution to tenants of two documents explaining tenant rights and the hazards of lead paint. Maryland law requires that all blood lead level test results be reported to MDE, which in turn reports all results for children at risk to the local Health Departments for case management.

## **SUCSESSES/CHALLENGES:**

The percentage of children with blood lead levels equal to or greater than 10 micrograms per deciliter ( $\geq 10$   $\mu\text{g}/\text{dl}$ ) has decreased for the fourteenth consecutive year Statewide. This information is compiled from the blood test reports prepared by various laboratories. The number of children tested with elevated blood lead levels decreased from 1,274 in 2006 to 892 in 2007, and the percentage of children tested who had elevated blood lead levels also decreased from 1.2% to 0.8%.

The goal of the lead poisoning prevention effort is “no children having a blood lead level of 10  $\mu\text{g}/\text{dl}$  or greater by the year 2010.” The LPPP, in cooperation with stakeholders, has developed a plan for reaching the 2010 goal. The statistics for CY 2007 show that the trends show substantial progress toward the 2010 goal.

The Lead Accreditation and Oversight Division of the LPPP has continued to produce large inspection numbers. As a result, MDE has continued to sustain the number of enforcement actions as in the years past. Penalties collected also remained consistent in 2006, 2007 and 2008. The LPPP, through enforcement and outreach efforts, rarely identifies larger non-compliant property owners. As a result the number of violations having direct impact on health has lowered (i.e.; lower rental inventory = lower number of significant violations).

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# LEAD POISONING PREVENTION

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued (Accreditations)	1,464																								
Number of permits/licenses (Accreditations) in effect at fiscal year end	3,083																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Rental Dwelling Units Registered this FY *	6,295																								
Total Rental Dwelling Units in Registered Properties current FY **	230,878																								
Affected Properties Registered as of end of FY	123,680																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	28,161																								
By Accredited Lead Paint Service Providers	25,163																								
By MDE	2,998																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	42																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	28,203																								
Number of inspections, spot checks (captures number of compliance activities at sites)	28,675																								
By Accredited Lead Paint Service Providers	25,163																								
By MDE	3,512																								
Number of audits (captures number of reviews of file/submittals for compliance)	320																								
Number of inspections, audits, spot checks (sum of the three measures above)	28,995																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	669																								
% of inspected sites/facilities with significant violations	17%																								
Inspection coverage rate (number of sites inspected/coverage universe)	22.77%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	1,678																								
Number of significant violations based on technical/preventative deficiencies	43																								
Number of significant violations carried over awaiting disposition from previous fiscal year	976																								
Total number of significant violations (sum of the three measures above)	2,697																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	2,461																								
Ongoing	236																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	75																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">823</td> <td style="text-align: center;">1</td> <td style="text-align: center;">824</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">12</td> <td style="text-align: center;">12</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">34</td> <td style="text-align: center;">0</td> <td style="text-align: center;">34</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td></td> <td></td> <td style="text-align: center;">1</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	823	1	824	Number of stop work orders	0	0	0	Number of injunctions obtained	0	12	12	Number of penalty and other enforcement actions	34	0	34	Number of referrals to Attorney General for possible criminal action			1
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	823	1	824																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	12	12																						
Number of penalty and other enforcement actions	34	0	34																						
Number of referrals to Attorney General for possible criminal action			1																						
Number of show cause, remedial, corrective actions issued	823	1	824																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	12	12																						
Number of penalty and other enforcement actions	34	0	34																						
Number of referrals to Attorney General for possible criminal action			1																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$616,790																								

\*New Registrations

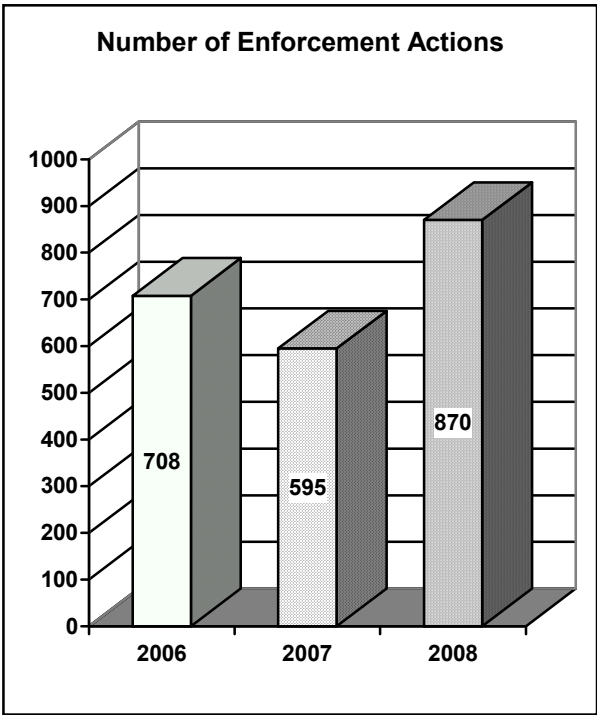
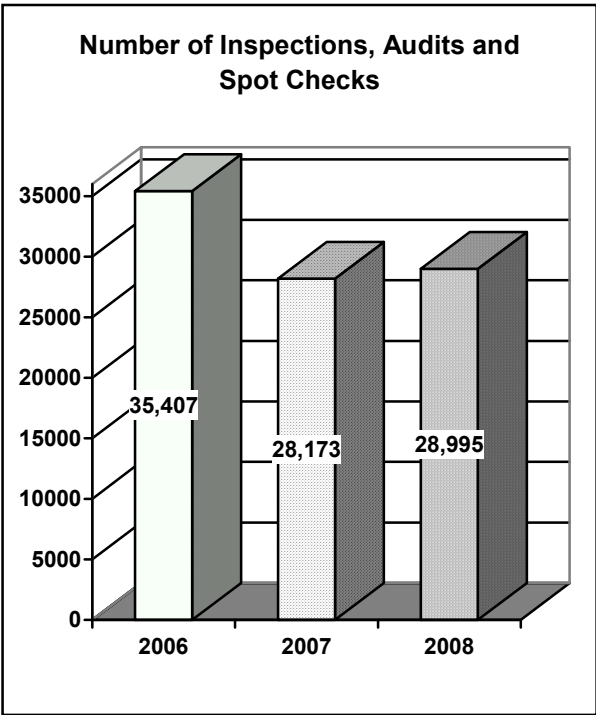
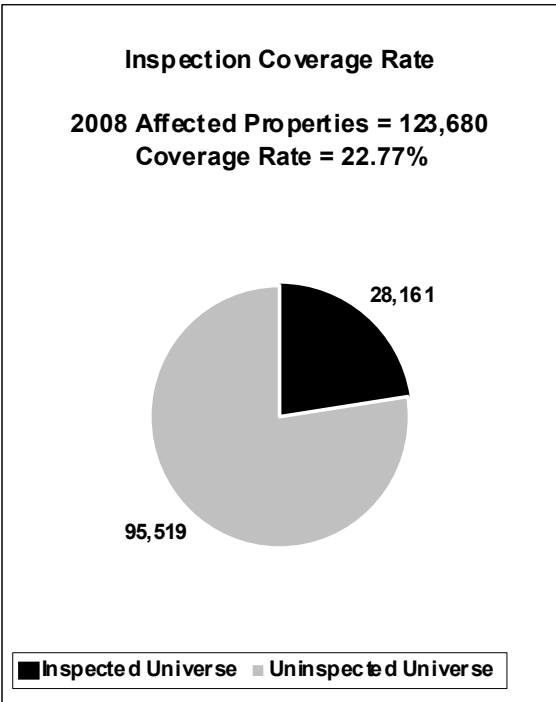
\*\* Cumulative Registrations

\*\*\* Significant Violation percentage is based on MDE inspections only.

\*\*\*\*Inspection Coverage Rate includes MDE and Third Party Inspections.



# Lead Poisoning Prevention



# Oil Control Program - Aboveground Facilities

## **PURPOSE**

The Oil Control Program (OCP) performs a broad range of activities related to the safe handling, storage, and remediation of petroleum products. OCP issues permits and performs oversight for aboveground storage facilities, oil contaminated soil, and the transportation of oil products, including ethanol and biodiesel, in Maryland. OCP also issues permits related to discharge activities and awards and audits licenses for the import of petroleum products into Maryland.

## **AUTHORITY**

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26.10

## **PROCESS**

Regional environmental compliance specialists (ECS) schedule routine inspections of the facilities. During the inspection, facility conditions are documented and the permittee is advised of the status of compliance. If corrective action is warranted, the facility is directed in accordance with MDE's guidelines and procedures. The inspection frequency can be adjusted as conditions warrant. In addition, two staff engineers tasked with writing permits for these facilities visit facilities prior to issuing a new permit or prior to the renewal of an existing permit. These site visits may also lead to the discovery of violations. Staff engineers also provide support to the ECS staff upon request. The ECS also responds to oil spills throughout the State at facilities that do not require a permit.

## **SUCSESSES/CHALLENGES:**

The combination of compliance assistance, regular permit application and review, and enforcement continues to result in improved management of aboveground storage tanks containing petroleum within the State. Inspection of above ground oil storage facilities decreased from 401 in FY 2007 to 331 in FY 2008. Spill response activities increased slightly this reporting period. It continues to be uncertain whether the incidence of spills will increase or decline over time as the above ground storage tank population ages and tank integrity declines. Permit application reviews, permit renewal site visits, and random inspections continue to reveal violations that, if left unaddressed, would result in releases to the environment or catastrophic tank failure during a fire or other emergency at a facility.

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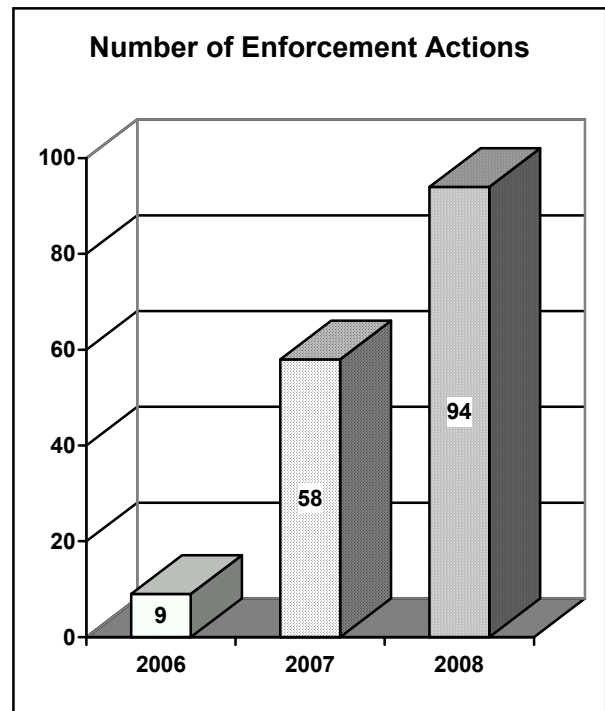
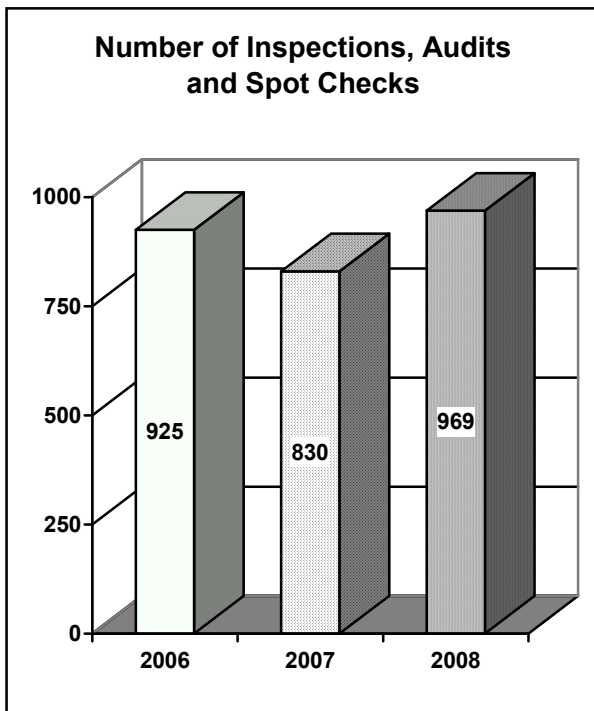
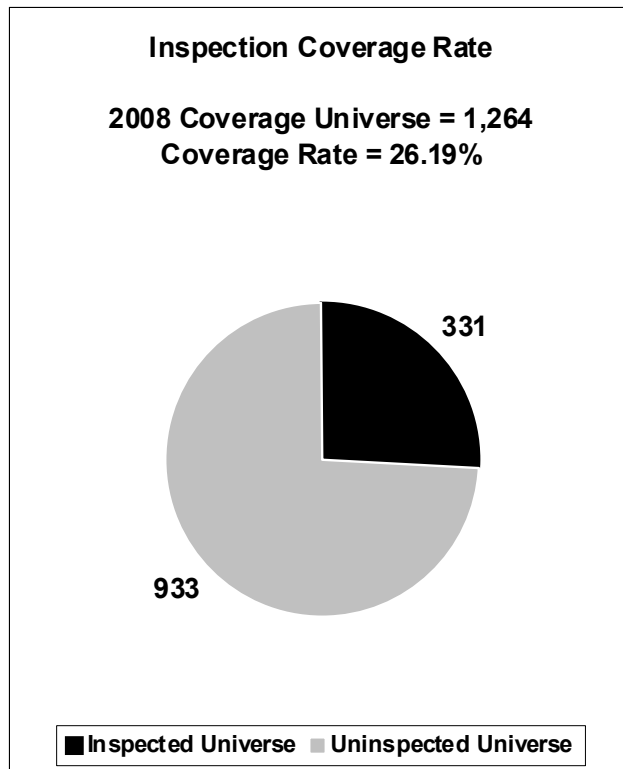
## ABOVE GROUND FACILITIES

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	281																								
Number of permits/licenses in effect at fiscal year end	1,264																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Initial Spill Response	248																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	331																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	346																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	677																								
Number of inspections, spot checks (captures number of compliance activities at sites)	623																								
Number of audits (captures number of reviews of file/submittals for compliance)	346																								
Number of inspections, audits, spot checks (sum of the two measures above)	969																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	94																								
% of inspected sites/facilities with significant violations	14%																								
Inspection coverage rate (number of sites inspected/coverage universe)	26%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	1																								
Number of significant violations based on technical/preventative deficiencies	96																								
Number of significant violations carried over awaiting disposition from previous fiscal year	117																								
Total number of significant violations (sum of the three measures above)	214																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	206																								
Ongoing	8																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	866																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">Administrative</th> <th style="width: 25%; text-align: center;">Civil/Judicial</th> <th style="width: 10%; text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">16</td> <td style="text-align: center;">16</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">73</td> <td style="text-align: center;">0</td> <td style="text-align: center;">73</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	5	0	5	Number of stop work orders	0	0	0	Number of injunctions obtained	0	16	16	Number of penalty and other enforcement actions	73	0	73	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	5	0	5																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	16	16																						
Number of penalty and other enforcement actions	73	0	73																						
Number of referrals to Attorney General for possible criminal action			0																						
Number of show cause, remedial, corrective actions issued	5	0	5																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	16	16																						
Number of penalty and other enforcement actions	73	0	73																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$8,714																						

\* Permits/licenses. This includes Oil Above Ground Storage Tanks and Oil Contaminated Soil Operations. The Oil (Contaminated Soil) Operations Permit is issued to facilities within the State of Maryland that store and/or treat soil contaminated with petroleum product from underground storage tank leaks or surface spills. Due to the small number of facilities involved, these numbers were incorporated into the Oil Aboveground Facilities numbers beginning in Fiscal Year 1999.

\*\* Coverage rate above is computed as the total number of permitted sites inspected and dividing that by the sum of the total number of permits/licenses in effect. Spill response to AST sites less than permitted capacity is part of the Program's universe. However, this number is not included in the inspection coverage rate in order to not bias the evaluation of the Program's goal to visit each permitted site on an annual basis.

# OCP - Aboveground Facilities



# Oil Control Program - Pollution Remediation Activities

## PURPOSE

The Oil Control Program (OCP) oversees remediation activities at sites where petroleum products have been discharged and are impacting soil or groundwater. The oversight ensures that responsible parties remediate the site in a timely manner, protecting the public's health and the environment. The majority of sites are gasoline service stations, both operating and closed. Sites also include businesses that have their own petroleum distribution systems for use in vehicle fleets and commercial and residential heating oil systems.

## AUTHORITY

FEDERAL: Resource Conservation and Recovery Act - Subtitle I

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26.10

## PROCESS

Groundwater and soil cleanups are highly technical in nature, usually requiring numerous site visits, meetings, and staff time. When a release of petroleum product is reported to OCP, a team of specialists is assigned to investigate. The team prioritizes the response effort to the release, based on product type, amount released, and potential impacts from the release. Each site is in violation by virtue of the fact that a release has occurred. Inspection frequency is also determined as site-specific conditions warrant. During the inspection of remedial sites, conditions are documented and the responsible party is given direction and advised of the status of compliance. There are cases where the responsible party fails to perform the necessary steps to remediate the discharge. If enforcement action is warranted, the action will be performed in accordance with MDE's guidelines and procedures.

## SUCCESSSES/CHALLENGES:

The field activity performed by OCP staff continues to reflect the commitment in time and resources needed to adequately oversee the cleanups performed by responsible parties in the State. Multiple site visits during the fiscal year are needed to ensure compliance with approved corrective action plans, especially at release sites that could impact drinking water wells. OCP has found that a strong field presence and frequent communication with the responsible party increases compliance. This approach has more often than not resulted in the containment of releases to the property where they occurred and for those that had already migrated off the site, the implementation of a remedial response that prevents further migration.

This reporting period, OCP has been able to reduce the identified sites from 1,947 in FY 2007 to 1,619 in 2008. This is the fourth year a decline has been noted. This may be attributable to OCP case managers' efficient prioritization of workload and sustained effort to move cases toward closure.

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# OIL POLLUTION REMEDIATION ACTIVITIES

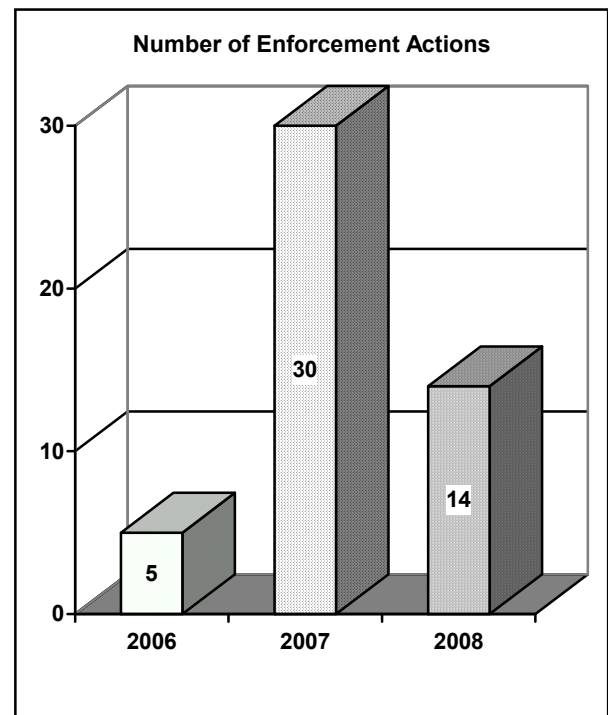
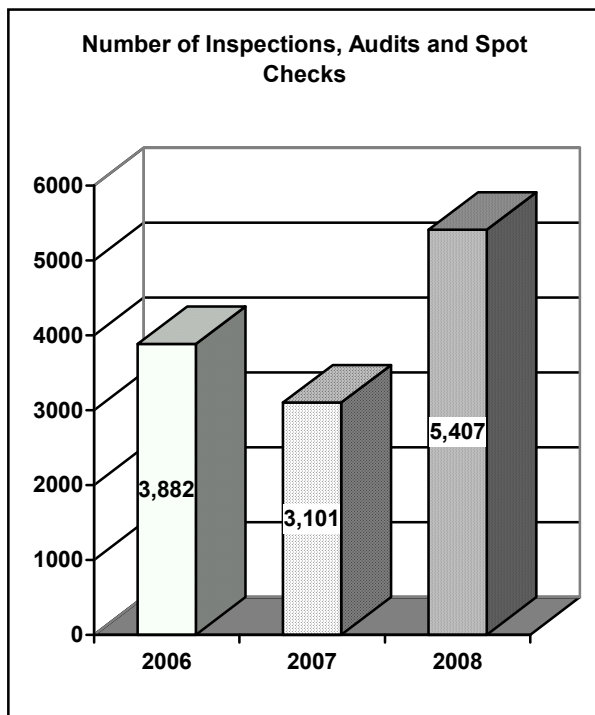
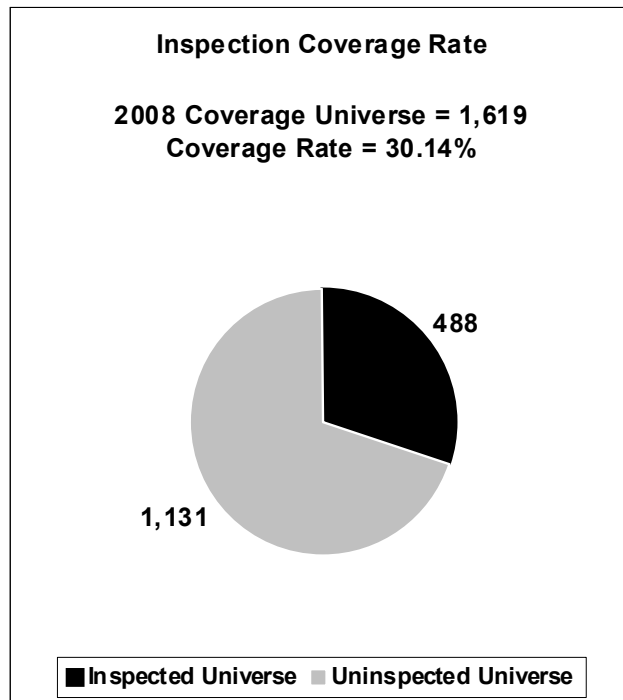
Performance Measure	TOTAL		
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued	0		
Number of permits/licenses in effect at fiscal year end	0		
<b>OTHER REGULATED SITES/FACILITIES</b>			
Groundwater remediation sites	1,619		
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)	488		
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	3,029		
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	3,517		
Number of inspections, spot checks (captures number of compliance activities at sites)	2,378		
Number of audits (captures number of reviews of file/submittals for compliance)	3,029		
Number of inspections, audits, spot checks (sum of the two measures above)	5,407		
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations	18		
% of inspected sites/facilities with significant violations	2%		
Inspection coverage rate (number of sites inspected/coverage universe)	30%		
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact	18		
Number of significant violations based on technical/preventative deficiencies	0		
Number of significant violations carried over awaiting disposition from previous fiscal year	54		
Total number of significant violations (sum of the three measures above)	72		
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved	60		
Ongoing	12		
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered	2,364		
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	1	0	1
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	13	0	13
Number of referrals to Attorney General for possible criminal action	0		
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$16,500		

\* Prior to FY 1999, this number only included releases from federally regulated UST motor fuel. After FY 99 the number reflects all oil releases that have impacted the subsurface environment from any oil UST, AST or transport facility. Wording was changed in FY 2002 to reflect this definition.

\*\* Coverage rate is computed as the total number of sites inspected and dividing that by the total number of identified locations where there is groundwater or soil impact.



# Oil Pollution Remediation Activities



# Oil Control Program – Underground Storage Tank Systems

## **PURPOSE**

The underground storage tank function of the Oil Control Program (OCP) is a prevention program that seeks to reduce the incidence and severity of releases associated with the storage of regulated substances in Underground Storage Tank Systems (UST) throughout the State of Maryland. This is accomplished through ensuring compliance with operational requirements at sites that include service stations, oil terminals, hospitals, schools, military facilities, marinas and similar facilities.

## **AUTHORITY**

FEDERAL: Resource Conservation and Recovery Act - Subtitle I

STATE: Environment Article, Title 4, Subtitle 4; COMAR 26. 10.

## **PROCESS**

The Program assists tank owners in the prevention of the release of regulated substances by ensuring compliance with detailed State and federal regulations. These include release detection, corrosion and overfill prevention, insurance requirements, and construction standards. All regulated UST systems in Maryland must be registered with the Department. All tank technicians and inspectors must pass a MDE test and maintain a certification with the Program.

## **SUCCESSSES/CHALLENGES:**

Due to OCP's private third party inspection program and the filling of staff vacancies, the number of sites inspected has increased rapidly from just 399 in FY 2006 to 908 in FY 2007 and to 1,516 in FY 2008. The facilities that were inspected continue to show a high compliance rate, which is above the national average.

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# OIL UNDERGROUND STORAGE TANK SYSTEMS

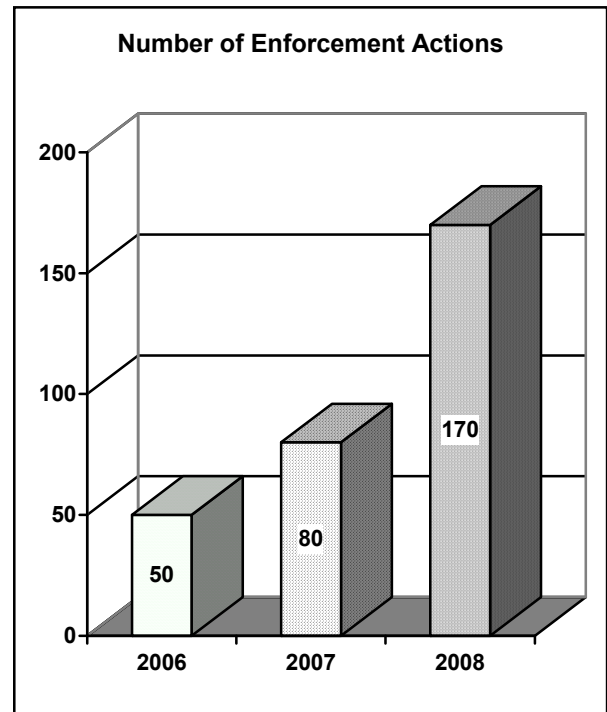
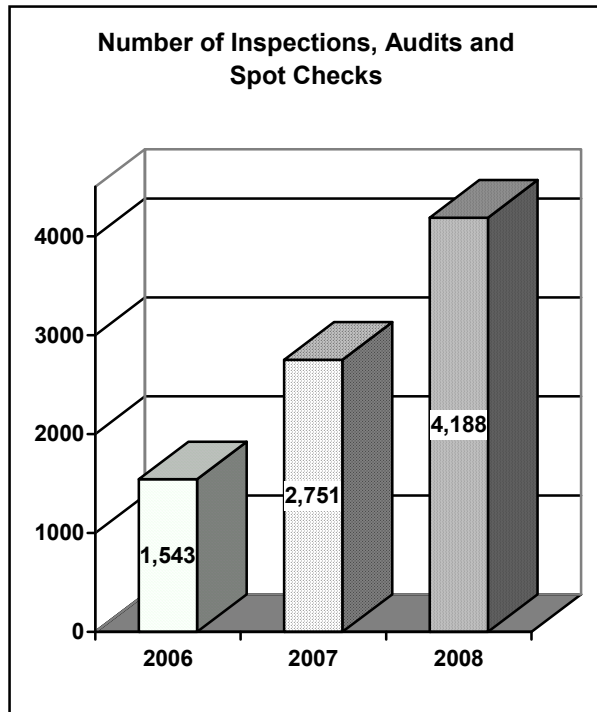
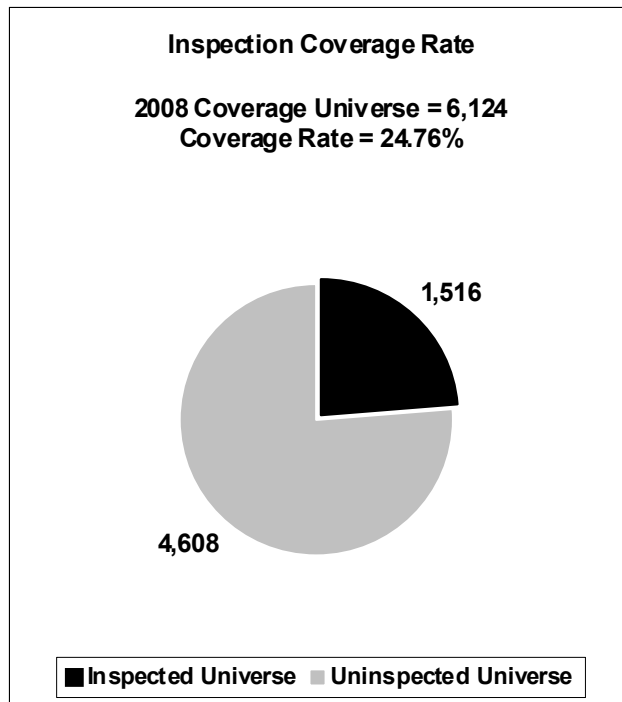
Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			768
Number of permits/licenses in effect at fiscal year end			2,235
<b>OTHER REGULATED SITES/FACILITIES</b>			
Registered UST facilities			6,124
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)			1,516
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			977
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			2,493
Number of inspections, spot checks (captures number of compliance activities at sites)			3,211
Number of audits (captures number of reviews of file/submittals for compliance)			977
Number of inspections, audits, spot checks (sum of the two measures above)			4,188
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			171
% of inspected sites/facilities with significant violations			7%
Inspection coverage rate (number of sites inspected/coverage universe)			25%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			43
Number of significant violations based on technical/preventative deficiencies			128
Number of significant violations carried over awaiting disposition from previous fiscal year			115
Total number of significant violations (sum of the three measures above)			286
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			194
Ongoing			92
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			2,993
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	16	0	16
Number of stop work orders	0	0	0
Number of injunctions obtained	0	86	86
Number of penalty and other enforcement actions	68	0	68
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$100,886

\*Certified UST technicians and removers are part of the regulated community and, therefore, the inspection universe, and are included in the Report FY 2000 forward.

\*\* Coverage rate above is computed as the total number of sites inspected and dividing that by the total number of registered UST sites. Technician and Remover Certifications are part of the Program's universe. However, this number is not included in coverage rate in order not to bias the evaluation of the Program's goal to visit each underground storage tank system on a routine basis.

\*\*\* On May 6, 2006 Oil Control Program required the first MDE-certified inspections conducted in Maryland. When a tank owner receives notice for inspection from MDE, they must hire one of the highly trained private inspectors. Because of this new Maryland and EPA authorized program, inspections for USTs will increase, thus preventing releases and protecting the environment.

# Oil Underground Storage Tank Systems



# Refuse Disposal

## **PURPOSE**

Improper handling of society's byproducts in the form of domestic, commercial, and industrial wastes can pose direct threats to both the public health and the quality of Maryland's water resources. The Solid Waste Program is responsible for two important elements of environmental regulation: the review of the technical information needed to support application for new solid waste disposal facilities and the inspection and enforcement of regulations at permitted and unpermitted disposal facilities. Regulated solid waste acceptance facilities include municipal landfills, rubble landfills, and land clearing debris landfills, non-hazardous industrial waste landfills, municipal incinerators, solid waste processing facilities, and transfer stations.

## **AUTHORITY**

FEDERAL: Resource Conservation and Recovery Act - Subtitle D; 40 CFR 257 and 258D  
STATE: Environment Article, Title 9, Subtitle 2; COMAR 26.04.07

## **PROCESS**

Permits are required for the construction and operation of solid waste acceptance facilities. The permits ensure that facilities are designed and operated in a manner protective of public health and the environment. Permit review activities cover a broad range of environmental and engineering elements to ensure state-of-the-art techniques protect the State's surface water, groundwater, air, and other natural resources. Routine unannounced inspections are performed at the facilities to ensure compliance. Inspectors also spend a large percentage of their time investigating complaints regarding unpermitted facilities and open dumps. The compliance staff performs inspections and investigations to find, stop, and clean up illegal dumps and reduce the problems they cause, including odor, soil erosion, discharges of pollutants to surface water, and groundwater pollution. Corrective orders and penalties may be issued for violations in accordance with Department guidelines and procedures. Compliance activities also include environmental monitoring and remediation. Geologists and engineers review groundwater monitoring and soil gas data to detect aqueous or gaseous pollutants, which may be migrating through the ground from landfills and dumpsites. When releases are detected, plans for landfill caps, groundwater and gas extraction, and treatment systems are required, subject to review and approval by MDE prior to implementation.

## **CONTRIBUTES TO MANAGING FOR RESULTS**

Goal #2: Ensuring Safe and Adequate Drinking Water.

## **SUCCESSSES/CHALLENGES:**

The Solid Waste Program's refuse disposal inspection coverage rate was 100% in FY 2008 as it was in FY 2007, with every permitted site (83) inspected. In addition, thirty-three (33) inspected sites were discovered in significant violation and overall, a total of 67 of 91

significant violations were resolved. Further, there were 162 audits performed during FY 2008. There were 18 unpermitted sites with ongoing violations at the end of fiscal year.

The Solid Waste Program's number of inspections increased during FY 2008 to 1,032 from 999 in FY 2007 with visits to 232 sites. The number of compliance assistance actions rendered decreased from 32 in FY 2007 to 22 in FY 2008. The enforcement actions increased from 27 in FY 2007 to 66 in FY 2008.

The Solid Waste Program continues to be challenged by staff shortages and the need to retain trained inspectors. The Program operates solely on general funds. The Department continues to work with stakeholders to reach consensus and develop an appropriate funding mechanism to provide additional resources to improve solid waste permitting and compliance services to the citizens of Maryland.

# REFUSE DISPOSAL

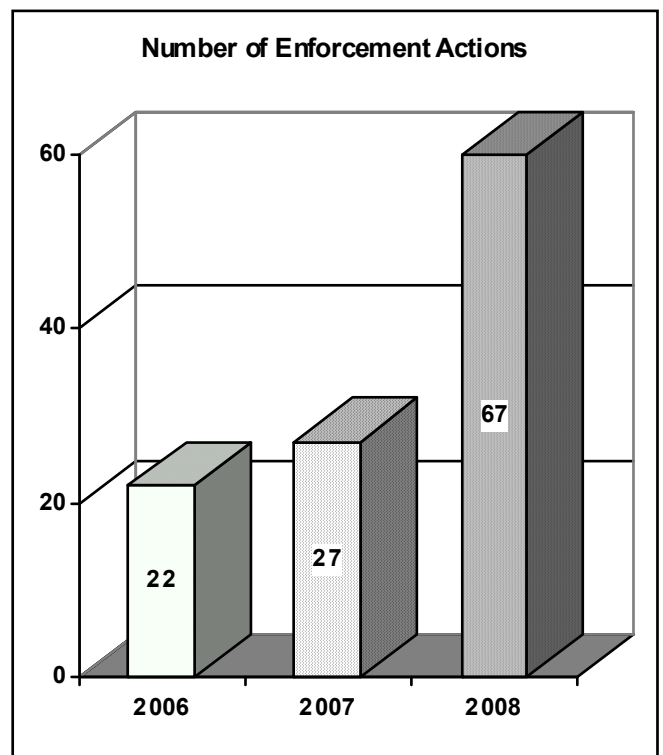
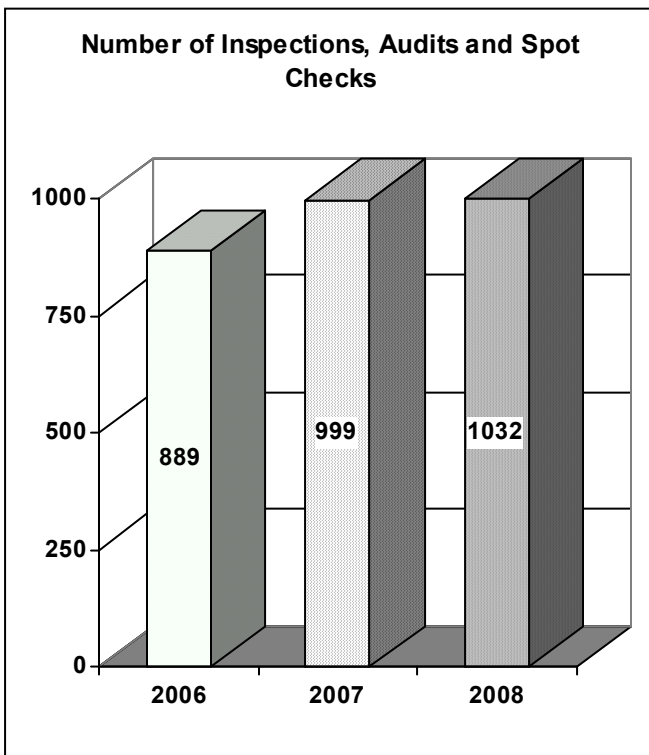
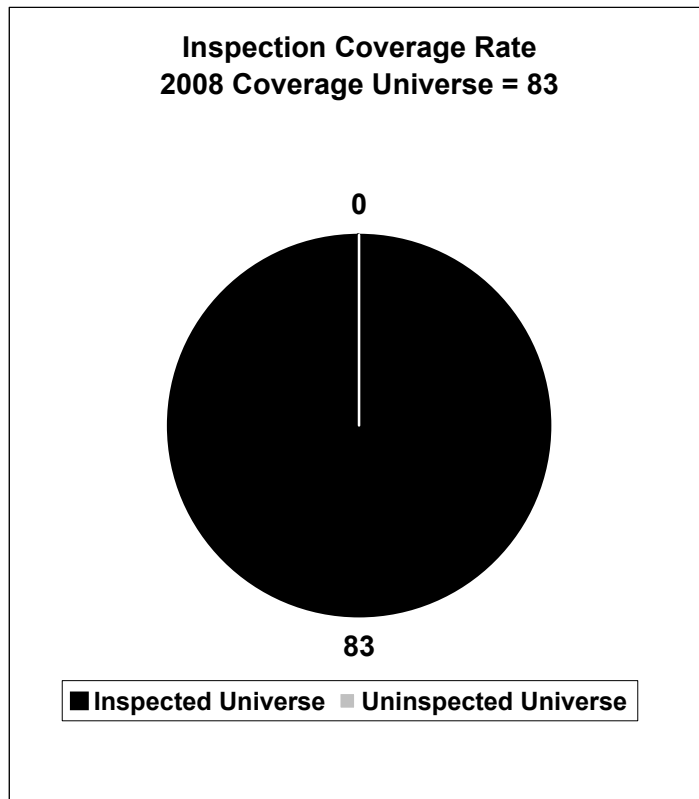
Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	13																								
Number of permits/licenses in effect at fiscal year end	83																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Unpermitted Sites	149																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	232																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	232																								
Number of inspections, spot checks (captures number of compliance activities at sites)	870																								
Number of audits (captures number of reviews of file/submittals for compliance)	162																								
Number of inspections, audits, spot checks (sum of the two measures above)	1,032																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	33																								
% of inspected sites/facilities with significant violations	14%																								
Inspection coverage rate (number of sites inspected/coverage universe)	100%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	0																								
Number of significant violations based on technical/preventative deficiencies	81																								
Number of significant violations carried over awaiting disposition from previous fiscal year	10																								
Total number of significant violations (sum of the three measures above)	91																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	67																								
Ongoing	24																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	22																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">66</td> <td style="text-align: center;">0</td> <td style="text-align: center;">66</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	1	0	1	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	66	0	66	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	1	0	1																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	66	0	66																						
Number of referrals to Attorney General for possible criminal action			0																						
Number of show cause, remedial, corrective actions issued	1	0	1																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	66	0	66																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$50,150																								

\*There were 19 active Ground Water Discharge permits issued to refuse disposal facilities in 2008.

\*\* 83 of the 232 sites were permitted facilities. The remaining sites included unpermitted dumpings, citizen complaints, other similar solid waste issues and groundwater discharge permits.



# Refuse Disposal



# Scrap Tires

## **PURPOSE**

Licenses are required for the hauling, collection, storage, processing, recycling, and burning for tire derived fuel of scrap tires. These licenses ensure that scrap tires are managed in a manner protective of public health and the environment.

## **AUTHORITY**

STATE: Environment Article, Title 9, Subtitle 2;  
Environment Article, Title 10, Nuisance Abatement;  
COMAR 26.04.08

## **PROCESS**

The licensing system is intended to regulate the management of scrap tires and prevent illegal dumping. A State fund is available when a landowner fails to clean up a scrap tire dump. Cost recovery from the landowner or other identifiable responsible party for all costs associated with the cleanup is required. In general, larger scrap tire facilities are inspected more frequently than smaller ones through routine unannounced inspections. Inspectors also investigate citizen complaints about illegal dumping or handling of scrap tires. Corrective orders and penalties may be issued for violations in accordance with Department guidelines and procedures.

## **CONTRIBUTES TO MANAGING FOR RESULTS**

Goal # 1: Promoting Land Redevelopment and Urban Revitalization.

## **SUCSESSES/CHALLENGES:**

The scrap tire function of the Program continued the cleanup of scrap tire stockpiles, with 88 stockpiles and approximately 1.89 million scrap tires remaining to be cleaned up. New stockpiles are still discovered every year and during FY 2008 a total of 54 new sites were discovered. A total of 52 stockpiles were cleaned up in FY 2008 resulting in removal of 251,637 scrap tires. MDE partnerships with local governments are removing thousands of tires from the environment by providing drop-off sites and citizen drop off (amnesty) days.

There was an increase in the number of scrap tire site inspections conducted in FY 2008 to 834 from 798 in FY 2007. The inspection coverage rate of 16% in FY 2008 remained the same as reported in FY 2007. There were 5,050 audits performed during FY 2008, which resulted in the increased cumulative count of 5,884 inspections. Significant violations increased from 1% in FY 2007 to 2% in FY 2008. A total of 107 significant violations were resolved. The number of compliance assistance actions rendered decreased to 7 in FY 2008 from 16 in FY 2007.

The Program continues to issue Notices of Violation to license holders that fail to submit required semi-annual reports. The Program issued a total of 435 enforcement actions during FY 2008 including Notices of Violation and Site Complaints. Approximately 80% of the regulated facilities submitted their semi-annual reports to the Department during FY 2008 which represents the Program's success in achieving compliance from licensees during the reporting periods and compliance assistance processes.

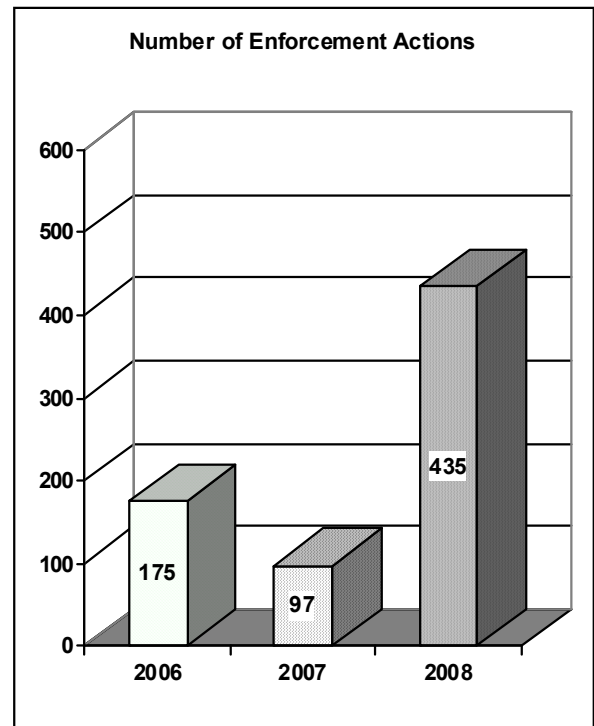
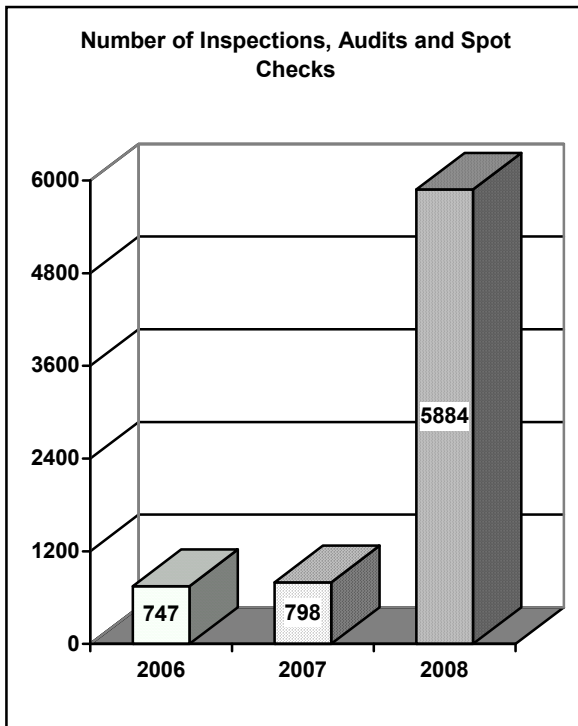
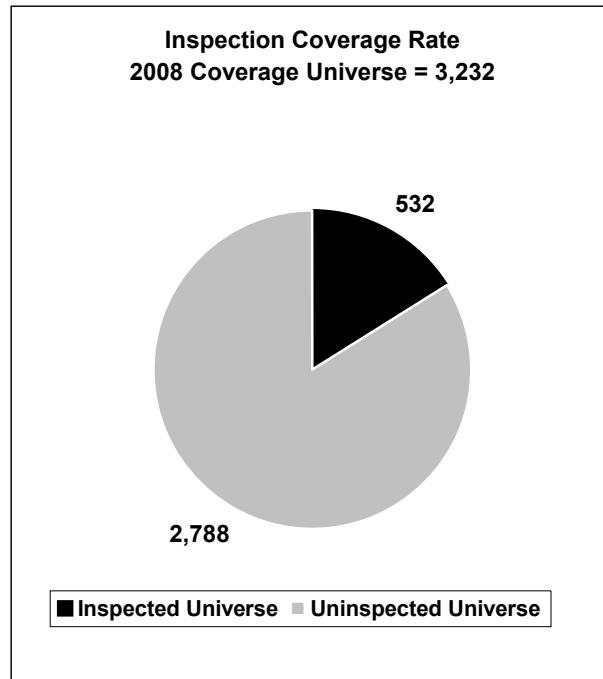
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# SCRAP TIRES

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	345																								
Number of permits/licenses in effect at fiscal year end	3,232																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Stockpiles to be cleaned up	88																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	532																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	2,068																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	2,600																								
Number of inspections, spot checks (captures number of compliance activities at sites)	834																								
Number of audits (captures number of reviews of file/submittals for compliance)	5,050																								
Number of inspections, audits, spot checks (sum of the two measures above)	5,884																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	8																								
% of inspected sites/facilities with significant violations	1.5%																								
Inspection coverage rate (number of sites inspected/coverage universe)	16%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	0																								
Number of significant violations based on technical/preventative deficiencies	441																								
Number of significant violations carried over awaiting disposition from previous fiscal year	146																								
Total number of significant violations (sum of the three measures above)	587																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	107																								
Ongoing	480																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	7																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 20%; text-align: center;">Administrative</th> <th style="width: 20%; text-align: center;">Civil/Judicial</th> <th style="width: 10%; text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">435</td> <td style="text-align: center;">0</td> <td style="text-align: center;">435</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">3</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	0	0	0	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	435	0	435	Number of referrals to Attorney General for possible criminal action			3
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	435	0	435																						
Number of referrals to Attorney General for possible criminal action			3																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	435	0	435																						
Number of referrals to Attorney General for possible criminal action			3																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$6,500																						

\* Coverage rate above is computed as the total number of sites inspected and dividing that by the total number of permits/licenses in effect plus the number of stockpiles to be cleaned up.

# Scrap Tires



# Sewage Sludge Utilization

## **PURPOSE**

Permits are required for the transportation, collection, handling, storage, treatment, land application, and disposal of sewage sludge in the State. The purpose of the permits is to ensure that sewage sludge is managed in a manner that is protective of public health and the environment. Sewage sludge utilized in Maryland is applied mostly for agricultural uses, composted, pelletized, landfilled, or incinerated. Permit requirements include preparation of applicable nutrient management plans and other necessary documents.

## **AUTHORITY**

STATE: Environment Article, Title 9, Subtitle 2; COMAR 26.04

## **PROCESS**

Composting facilities, pelletizers, and storage facilities are inspected several times per year. Landfill disposal operations are inspected during the course of routine landfill inspections. Land application sites are inspected when the workload allows or when complaints are received. The inspector may recommend corrective actions to take, if any are required. If a significant violation is found, site complaints are issued. Corrective orders and penalties may be issued for violations in accordance with Department guidelines and procedures. Inspectors also investigate citizens' complaints about sewage sludge utilization.

## **CONTRIBUTES TO MANAGING FOR RESULTS**

Goal #4: Improving and Protecting Water Quality.

## **SUCCESSSES/CHALLENGES:**

The Program's number of inspections slightly decreased during this reporting period to 501 from 511 in FY 2007. There have been no instances of unpermitted land application of sewage sludge in the State or instances of environmental or health impact. This is attributed to the Program's efforts to work with the regulated community over the last several years.

Even though the Program has experienced a decline in its field activities in the past due mainly to vacant positions, increasing permitting workloads, and other program priorities, the inspection staff has maintained the coverage rate at 28% during FY 2008 and inspected 185 unique sites. Further, there were 681 audits performed during FY 2008, which resulted in raising the cumulative count for inspections of 1,181. Moreover, 5% of inspected facilities were in significant violation and 23 of 30 significant violations were resolved during the year. In addition, 18 enforcement actions were taken and a total of 5 compliance assistance actions were rendered. This is due to the small and highly experienced nature of the regulated community – there are a relatively small number of governments and companies engaged in this work and the operators are familiar with the regulations and permit conditions. Therefore, most violations are the result of accidental occurrences or misunderstandings, which are quickly resolved through compliance assistance efforts.

When considering the coverage rate for sewage sludge utilization sites, it should be noted that many of these sites are farm fields that may only receive sewage sludge once or twice during a five-year permit life. Inspection efforts are concentrated toward those sites that are active during the year. The Program will continue reporting the total coverage value for consistency with past values, and for comparison to other programs.

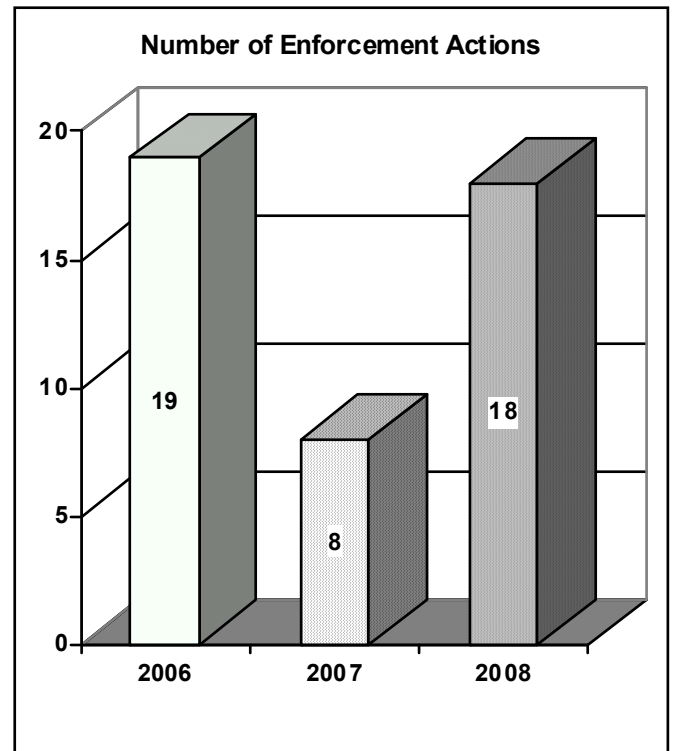
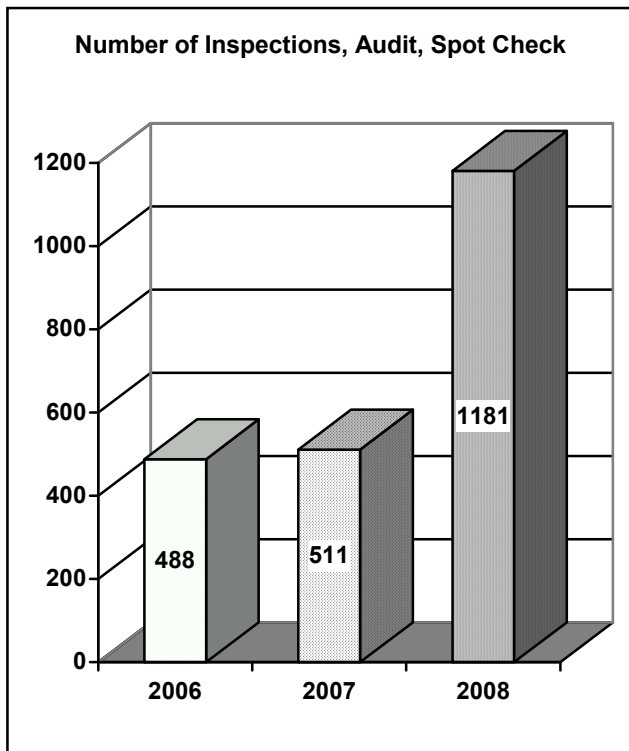
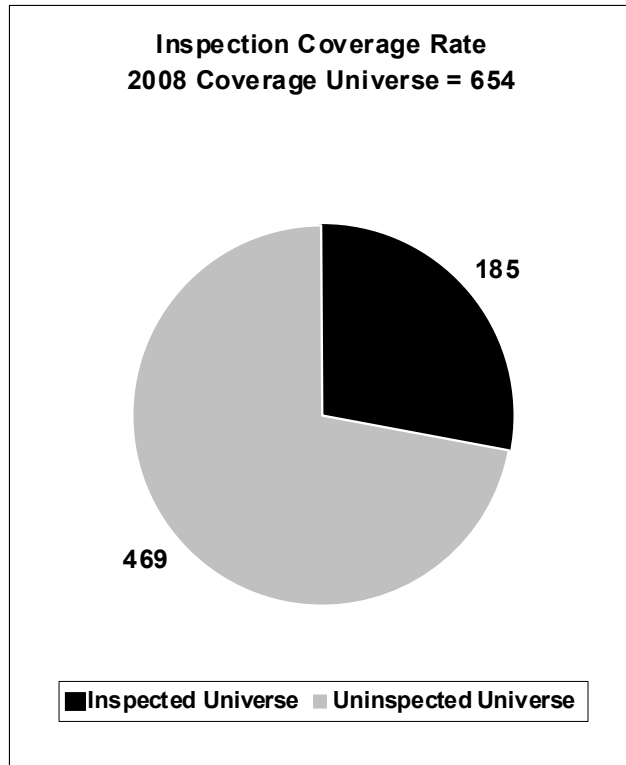
# SEWAGE SLUDGE UTILIZATION

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	118																								
Number of permits/licenses in effect at fiscal year end	654																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Unpermitted Sites	2																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	185																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	185																								
Number of inspections, spot checks (captures number of compliance activities at sites)	501																								
Number of audits (captures number of reviews of file/submittals for compliance)	681																								
Number of inspections, audits, spot checks (sum of the two measures above)	1,182																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	9																								
% of inspected sites/facilities with significant violations	5%																								
Inspection coverage rate (number of sites inspected/coverage universe)	28%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	0																								
Number of significant violations based on technical/preventative deficiencies	29																								
Number of significant violations carried over awaiting disposition from previous fiscal year	1																								
Total number of significant violations (sum of the three measures above)	30																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	23																								
Ongoing	7																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	5																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">17</td> <td style="text-align: center;">0</td> <td style="text-align: center;">17</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">1</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	0	0	0	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	17	0	17	Number of referrals to Attorney General for possible criminal action			1
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	17	0	17																						
Number of referrals to Attorney General for possible criminal action			1																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0																								

\* Coverage rate above is computed as the total number of sites inspected and dividing that by the total number of permits/licenses in effect.



# Sewage Sludge Utilization



# Natural Wood Waste Recycling

## **PURPOSE**

The purpose of the permits is to ensure that natural wood wastes are managed in a manner protective of public health and the environment. In particular, the permitting system is intended to prevent large-scale fires at these facilities. A General Permit is authorized and in use for facilities following common industry practices as described in the regulation.

## **AUTHORITY**

STATE: Environment Article, Title 9, Subtitle 17; COMAR 26.04

## **PROCESS**

Permits are required for the operation of facilities that recycle natural wood waste (stumps, root mat, branches, logs, and brush). Recycling is conducted by chipping the wastes and converting them into mulch. This process is regulated by the conditions in the permit. Routine unannounced inspections may be performed at these facilities several times per year to ensure compliance with the permit conditions. MDE inspectors also investigate citizen complaints about wood waste recycling operations. Corrective orders and penalties may be issued for violations in accordance with Department guidelines and procedures.

## **CONTRIBUTES TO MANAGING FOR RESULTS**

Goal #2: Ensuring Safe and Adequate Drinking Water.

## **SUCSESSES/CHALLENGES:**

The Solid Waste Program's natural wood waste facility inspection coverage rate was 78%. In addition, 33 unique sites were inspected and the percentage of inspected facilities in significant violation was 18%, up from 7% reported in FY 2007. Further, a total of 9 significant violations were resolved. Unpermitted sites increased to 14 as compared to 7 reported in FY2007.

The Solid Waste Program's number of natural wood waste facility inspections increased during FY 2008 to 158 from 144 reported in FY 2007. The number of compliance assistance actions rendered decreased in FY 2008 to 9 from 20 reported in FY 2007. There were 24 audits performed during FY 2008.

Natural wood waste facilities were targeted for additional inspections in FY 2003 and FY 2004 after several severe fires at this type of facility in FY 2002. Although the Department is mandated to have a natural wood waste facility program, there are no inspectors provided in the budget for this activity. Therefore, inspections of these facilities come at the expense of sewage sludge and scrap tire inspections, which had decreased numbers of inspections.

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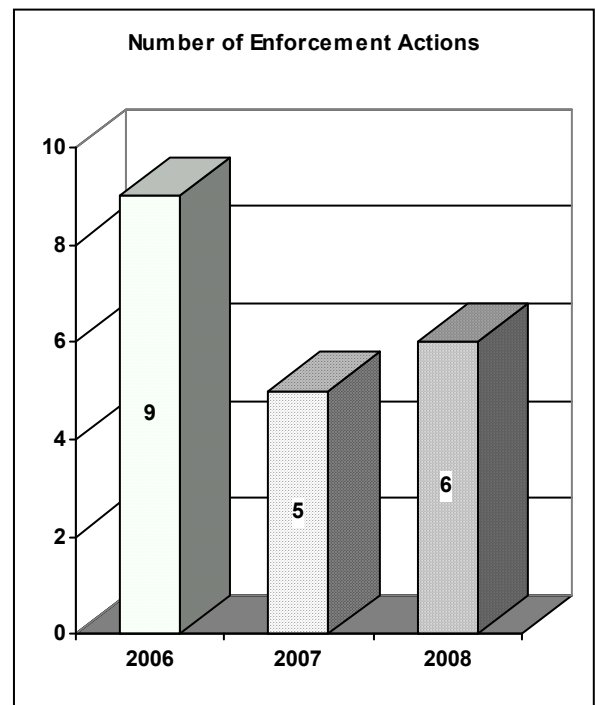
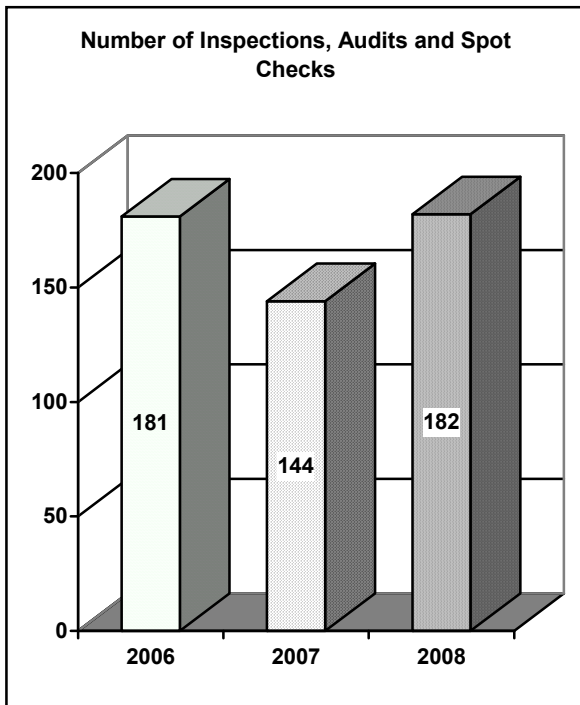
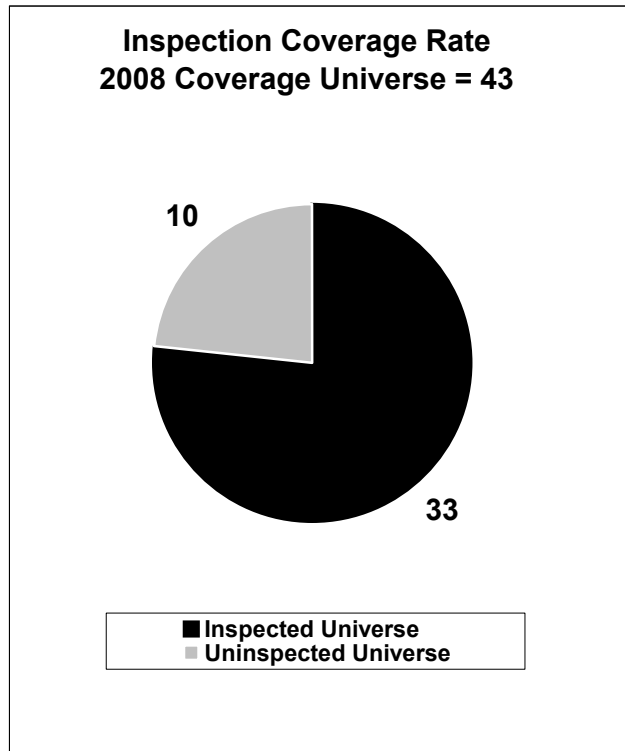
# WOOD WASTE RECYCLING

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	3																								
Number of permits/licenses in effect at fiscal year end	29																								
<b>OTHER REGULATED SITES/FACILITIES</b>																									
Unpermitted Sites at Fiscal Year End	14																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	33																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	4																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	37																								
Number of inspections, spot checks (captures number of compliance activities at sites)	158																								
Number of audits (captures number of reviews of file/submittals for compliance)	24																								
Number of inspections, audits, spot checks (sum of the two measures above)	182																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	6																								
% of inspected sites/facilities with significant violations	18%																								
Inspection coverage rate (number of sites inspected/coverage universe)	78%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	0																								
Number of significant violations based on technical/preventative deficiencies	16																								
Number of significant violations carried over awaiting disposition from previous fiscal year	1																								
Total number of significant violations (sum of the three measures above)	17																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	9																								
Ongoing	8																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	9																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">6</td> <td style="text-align: center;">0</td> <td style="text-align: center;">6</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	0	0	0	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	6	0	6	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	6	0	6																						
Number of referrals to Attorney General for possible criminal action			0																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	6	0	6																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0																								

\*Number of inspected sites includes permitted facilities, government facilities that do not require permits, unpermitted natural wood waste operations and citizen complaints.

\*\* Coverage rate is computed as the total number of sites inspected and dividing that by the total number of Permits/Licenses in effect plus the number of unpermitted sites discovered and inspected.

# Natural Wood Waste Recycling



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**WATER MANAGEMENT ADMINISTRATION**  
[http://www.mde.state.md.us/assets/document/mdeguide\(1\).pdf](http://www.mde.state.md.us/assets/document/mdeguide(1).pdf)

## **Water Management Administration Executive Summary**

The Water Management Administration (WMA) has inspection and enforcement responsibilities for the water quality and resource conservation programs that follow in this report. The Water Supply Program is responsible for drinking water compliance and the Sediment, Stormwater and Dam Safety Program is responsible for dam safety compliance. The Compliance Program is responsible for compliance associated with groundwater discharges, surface water discharges and NPDES permits, pretreatment, erosion and sediment control for construction activity, coal mining, non-coal mining, oil and gas exploration and production, waterway construction, and tidal and non-tidal wetlands.

The Compliance Program assigns each inspection a priority. Routine inspections are scheduled based on the assigned priority and as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand. The Compliance Program also responds to complaints from citizens across all of the facility types for which it has responsibility. During FY 2008, the Compliance Program received over 1,500 complaints, about a quarter of them regarding erosion and sediment control.

The Compliance Program uses a variety of approaches to bring facilities into compliance, some of which are: compliance assistance, administrative orders, civil cases, stop work orders, and penalties. Notable among the Compliance Program's enforcement activities during FY 2008 was a Consent Order requiring Constellation Power Source Generation, Inc. and BBSS, Inc. to pay a \$1 million penalty and clean up groundwater contamination from fly ash disposal.

This year, the Compliance Program was able to fill several vacant compliance inspector positions, but lost other inspectors to retirements and departures for other job opportunities. There was an overall decline in inspector vacancies for WMA from 9.8 to 6 FTEs. During FY 2008, the Compliance Program also experienced vacancies in its Enforcement Division, which prepares enforcement actions to resolve violations found during inspections and audits. Entering FY 2009, the Compliance Program is expecting to fill those vacancies in the near future.

During FY2008, the Water Supply Program continued efforts to manage the drinking water resources throughout Maryland. Capacity management plans were requested from the largest water systems in preparation for BRAC and implementation of a law enacted in 2006 requiring a water resources element in County Comprehensive Plans. Water systems began to document their current and future water system demands, and to evaluate resource reliability during drought conditions. Implementation of the new regulations including the Arsenic Rule, Stage 2 Disinfection Byproduct Rule and the Long Term 2 Surface Water Treatment Rule



continue to impact the overall compliance rate for water systems. Approximately 7 out of 63 impacted water systems are still in the process of addressing Arsenic Rule treatment requirements; it is expected that the majority of the remaining systems will complete their improvements during FY2009. New federal and State regulations will also continue to increase future enforcement activities in FY2009.

**Water Management Administration  
Performance Measures Executive Summary**

	2007 Totals	2008 Totals
<u>PERMITTED SITES/FACILITIES</u>		
Number of Permits/Licenses Issued	6,215	7,098
Number of Permits/Licenses in Effect at Fiscal Year End	40,438	61,294
<u>OTHER REGULATED SITES/FACILITIES</u>		
Other sites	4,089	4,275
<u>INSPECTIONS</u>		
Number of Sites Inspected	12,134	8,630
Number of Sites Audited but not inspected	N/A	5,440
Number of Inspections, Audits, Spot Checks	58,693	63,426
<u>ENFORCEMENT ACTIONS</u>		
Number of Compliance Assistance Rendered	1,790	3,249
Number of Enforcement Actions Taken **	930	752
<u>PENALTIES</u>		
Amount of Administrative or Civil Penalties Obtained	\$890,741	\$1,899,396

\* Derived by adding up all of the coverage universes for each program as listed in the pie chart for each.

\*\* Derived by adding up the number of enforcement actions for each program as listed in the chart for each.

## **Discharges – Groundwater (Municipal & Industrial)**

### **PURPOSE**

The Water Management Administration's (WMA) Wastewater Permits Program issues groundwater discharge permits to control the disposal of treated municipal or industrial wastewater into the State's groundwater via spray irrigation or other land-treatment methods such as subsurface discharge. Upon permit issuance, WMA's Compliance Program is responsible for inspections and compliance assurance. Groundwater discharge permits establish pollutant discharge limits and require the permit holder to perform self-monitoring, record keeping and reporting requirements deemed necessary to protect public health and minimize groundwater pollution.

### **AUTHORITY**

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

### **PROCESS**

The Compliance Program performs inspections of sites with groundwater discharge permits as part of its overall inspection priority scheme, with priority given to sites that are the subject of complaints or in violation based on failure to perform permit required self-monitoring and reporting or due to violations of the effluent limitations in the permit. The inspector may conduct unannounced inspections and may collect samples for independent laboratory analysis as necessary to verify compliance with permit limits. Self-monitoring results are filed at the frequency specified by the permit (usually monthly or quarterly) with WMA in the form of Discharge Monitoring Reports (DMR). DMRs are reviewed in the office and at the facilities in order to determine whether the criterion for "Significant Noncompliance" has been met. DMR reviews performed by the Compliance Program's Resource Planning and Utilization Division are included in the following Table on the line identified as "Inspections, Audits, Spot Checks." As in FY 2007, DMR reviews were not included in the determination of the inspection coverage rate for this year.

### **SUCCESSSES AND CHALLENGES**

Excessive nutrients, bacteria, and industrial pollutants in wastewater have the potential to impact the quality of groundwater. The groundwater discharge permitting process provides a means of managing these impacts through monitoring, inspection and enforcement. All DMRs submitted were reviewed by the Compliance Program Resource Planning and Utilization Division.

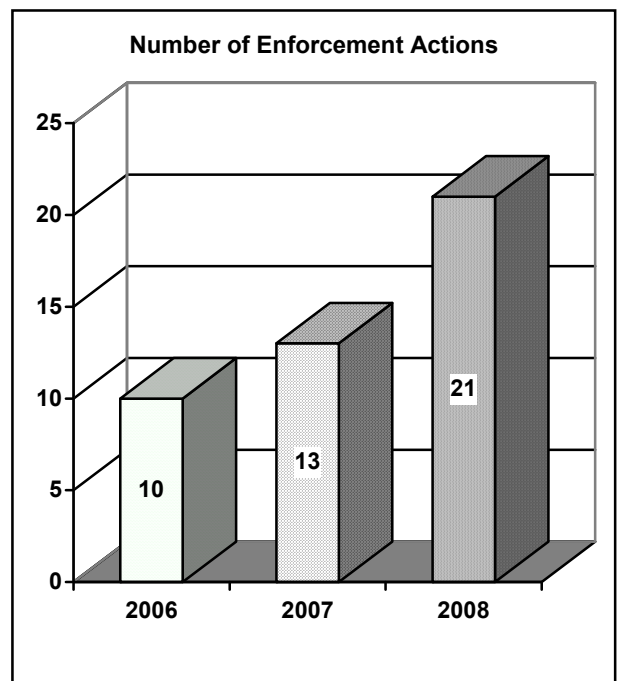
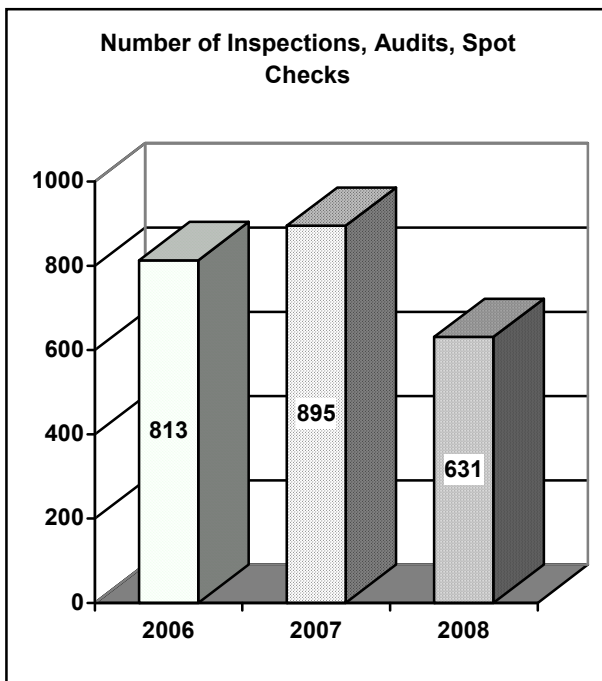
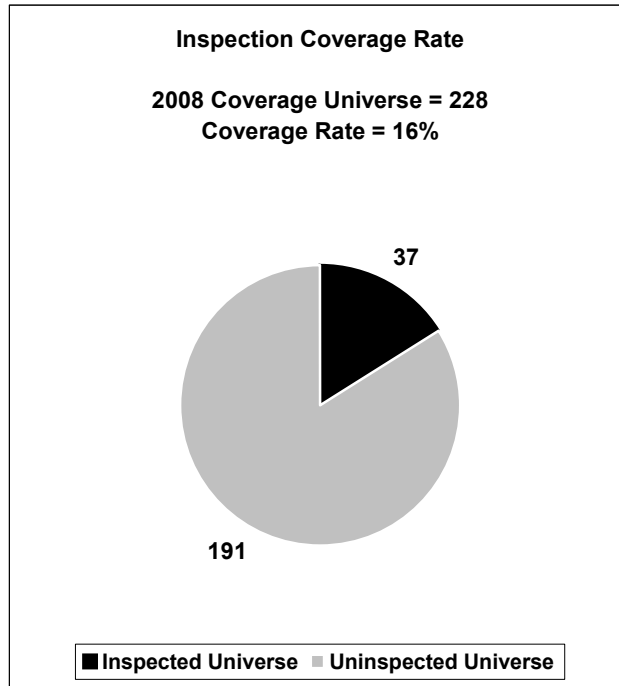
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## Discharges – Groundwater (Municipal and Industrial)

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			33
Number of permits/licenses in effect at fiscal year end			228
<b>INSPECTIONS</b>			
Number of sites inspected (“inspected” defined as at the site)			37
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			125
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			162
Number of inspections, spot checks (captures number of compliance activities at sites)			56
Number of audits (captures number of reviews of file/submittals for compliance)			575
Number of inspections, audits, spot checks (sum of the two measures above)			631
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			3
% of inspected sites/facilities with significant violations			2%
Inspection coverage rate (number of sites inspected/coverage universe)			16%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			3
Number of significant violations based on technical/preventative deficiencies			0
Number of significant violations carried over awaiting disposition from previous fiscal year			15
Total number of significant violations (sum of the three measures above)			18
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			12
Ongoing			6
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			0
60 Day Citizen Suit Notices Received			1*
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	5	2	8
Number of stop work orders	0	0	0
Number of injunctions obtained	0	1	1
Number of penalty and other enforcement actions	12	0	12
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$1,069,600

\* MDE received a 60 day notice letter regarding the Constellation Power Source Generation, Inc. and BBSS, Inc fly ash site.

# Discharges – Groundwater (Municipal and Industrial)



## **Discharges - Surface Water (Municipal & Industrial) State and NPDES Permits**

### **PURPOSE**

The Maryland Department of the Environment's Water Management Administration (WMA) is delegated authority from the Environmental Protection Agency to carry out and administer the National Pollutant Discharge Elimination System (NPDES) Program in Maryland. The federal Clean Water Act established the NPDES Program to control water pollution generated from a wide variety of sources including industrial activities, sewage treatment plants, certain agricultural activities and storm water runoff from industrial, municipal and agricultural sources. Anyone who discharges wastewater to surface waters needs a NPDES discharge permit. All industrial, commercial or institutional facilities that discharge wastewater, including storm water from certain industrial facilities, directly to surface waters of Maryland need a permit. Applicants include local, state, and federal government agencies, as well as privately owned treatment systems and private residences. Some industrial discharges to municipal wastewater collection systems may require a pretreatment permit. Certain agricultural activities, specifically, concentrated animal feeding operations, are also required to obtain a NPDES discharge permit.

The NPDES permit system includes a storm water component to control pollution generated from runoff associated with industrial sites, municipal storm sewer systems, construction activities, and concentrated animal feeding operations. Eleven categories of industry and storm sewer systems operated by certain local government agencies are required under the Clean Water Act to have their storm water covered under an NPDES permit. For any construction activity that disturbs one or more acres, coverage must be obtained under the MDE's general NPDES permit for construction activity. This permit requires developers to perform self-inspection and record keeping to ensure that sediment and erosion control measures are maintained and functioning in accordance with approved plans to prevent water pollution and stream bank erosion caused by excess erosion, siltation, and storm water flows from construction sites.

WMA's surface water discharge permits combine applicable State and NPDES requirements into one permit for facilities that discharge to State surface waters. The permit is designed to protect water quality standards in the water receiving the discharge.

Note that, as in FY 2007, the inspections performed related to the General NPDES Permit for the discharge of storm water associated with construction activities are included in this table for surface water discharges instead of in the table for Storm Water Management and Erosion & Sediment Control.

### **AUTHORITY**

FEDERAL: Clean Water Act

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

## **PROCESS**

The Compliance Program performs inspections of sites with surface water discharge permits as part of its overall inspection priority scheme, with priority given to sites that are the subject of complaints or in violation based on failure to perform permit required self-monitoring and reporting or due to violations of the effluent limitations in the permit. The inspector may conduct unannounced inspections and may collect samples for independent laboratory analysis as necessary to verify compliance with permit limits. Self-monitoring results are filed at the frequency specified by the permit (usually monthly or quarterly) with WMA in the form of Discharge Monitoring Reports (DMR). DMRs are reviewed in the office and at the facilities in order to determine whether the criterion for "Significant Noncompliance" has been met. DMR reviews performed by the Compliance Program's Resource Planning and Utilization Division are included in the following Table on the line identified as "Inspections, Audits, Spot Checks." DMRs were reviewed for all permitted sites that require DMR submittals as a part of their permit. Starting this year for FY 2008, the Compliance Program has changed to a more accurate method of counting sites that are audited but not inspected. This more accurate reporting lowers the number of audited sites we are reporting, but in fact the number of audits and audited sites are similar to FY 2007. In FY 2007, sites that the Compliance Program did not inspect but did conduct a DMR review were included in the calculation of Inspection Coverage Rate. This year, only inspected sites are included in the calculation of Inspection Coverage Rate, resulting in an apparent decline in the Inspection Coverage Rate. In fact, the number of surface water sites inspected was similar in FY 2007 and FY 2008. Note that the number of permits/licenses in effect at fiscal year end reported in FY 2007 included only those general permits for stormwater associated with construction activity that were issued during FY 2007. For FY 2008, all active general permits for stormwater associated with construction activity are included, including those issued during previous fiscal years. This significantly increases the coverage universe and decreases the inspection coverage rate.

## **SUCCESSSES AND CHALLENGES**

Excessive nutrients from municipal and industrial wastewater, industrial chemicals in wastewater, and the pollutants carried by stormwater runoff all have the potential to impact the quality of surface waters. Through the surface water discharge permitting process, dischargers are inventoried, inspected, and enforced. Permit writers and inspectors must be familiar with a wide range of discharge permit conditions and prioritize their activities to effectively address pollution control for major dischargers, as well as an increasing number of minor dischargers, the greatest extent possible with the available staff.

### **Supplemental Environmental Projects (SEP)**

WMA did not authorize any SEPs in FY 2008.

## Discharges – Surface Water (Municipal and Industrial) State and NPDES Permits

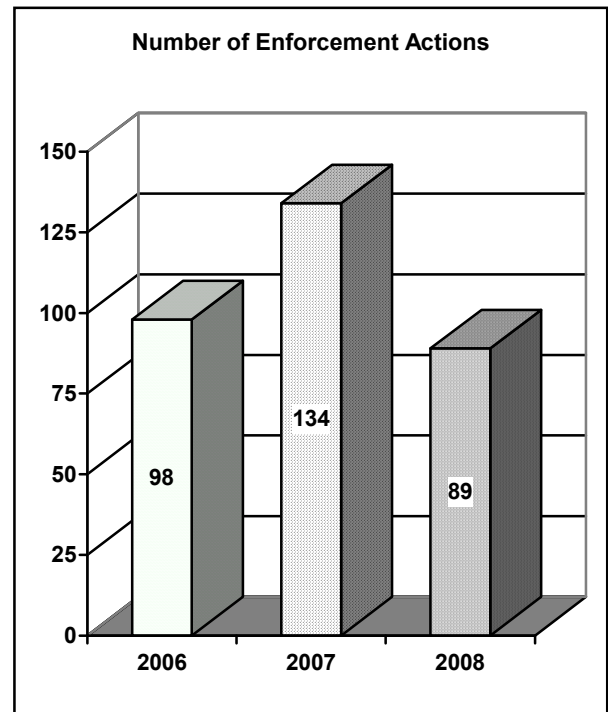
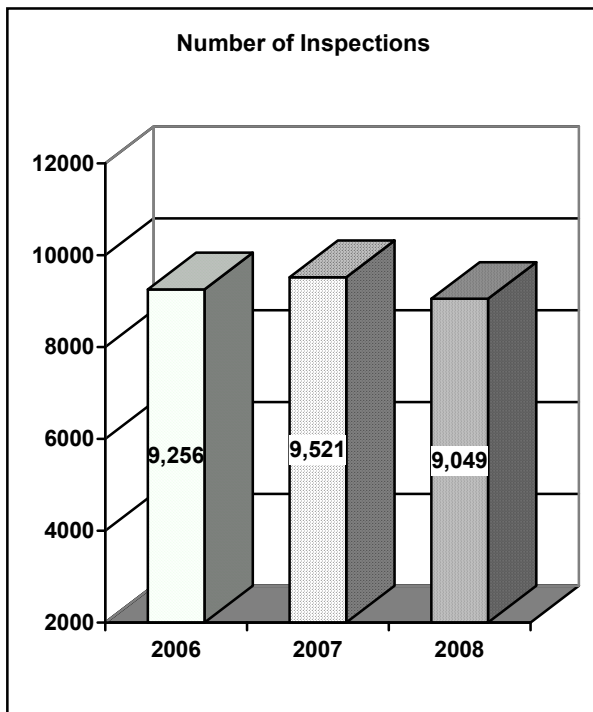
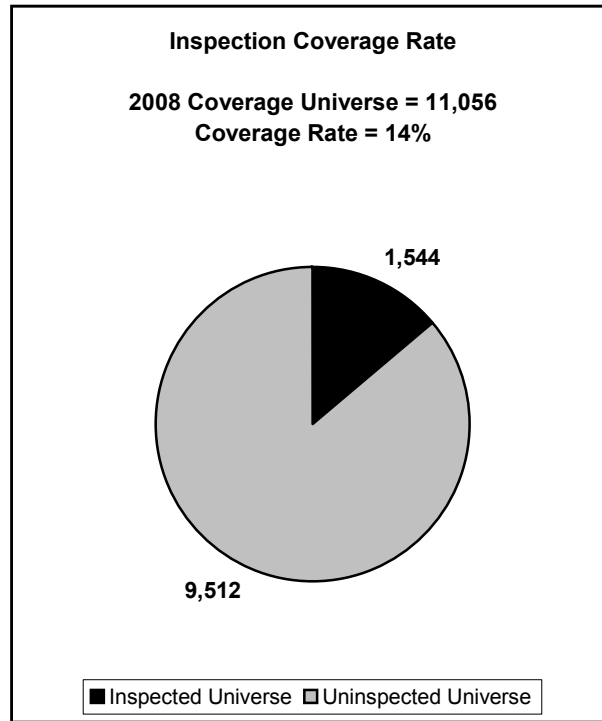
Performance Measure		TOTAL	
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued*		2,241	
Number of permits/licenses in effect at fiscal year end		11,056	
<b>INSPECTIONS</b>			
Number of sites inspected (“inspected” defined as at the site)		1,544	
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)		767**	
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)		2,311	
Number of inspections, spot checks (captures number of compliance activities at sites)		3,120	
Number of audits (captures number of reviews of file/submittals for compliance)		5,929	
Number of inspections, audits, spot checks (sum of the two measures above)		9,049	
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations		54	
% of inspected sites/facilities with significant violations		2%	
Inspection coverage rate (number of sites inspected/coverage universe)		14%	
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact		45	
Number of significant violations based on technical/preventative deficiencies		9	
Number of significant violations carried over awaiting disposition from previous fiscal year		41	
Total number of significant violations (sum of the three measures above)		95	
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved		60	
Ongoing		35	
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered		64	
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	15	1	16
Number of stop work orders	1	0	1
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	70	2	72
Number of referrals to Attorney General for possible criminal action			1
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$481,911

\* This number includes new permits, renewals, and conversions/modifications of permits.

\*\* See text for more information on changes to the method of counting audited sites.



# Discharges – Surface Water (Municipal & Industrial) State and NPDES Permits



## **Discharges – Pretreatment (Industrial)**

### **PURPOSE**

As part of its responsibility for enforcing federal and state laws and regulations pertaining to the discharge of wastewaters, the MDE's Water Management Administration (WMA) is responsible for regulating wastewaters from industrial and other non-domestic sources discharged into publicly owned treatment works (POTW) to prevent the discharge of toxic or corrosive discharges to the collection systems serving POTWs that may result in process upsets and failure of critical infrastructure. In accordance with its authority as delegated by EPA, in FY 2008 MDE has delegated responsibility for implementation of a pretreatment program to 20 local pretreatment programs that are responsible for 198 Industrial Sources. In addition to these, WMA issues pretreatment permits directly to 4 industries discharging to non-delegated POTWs. Local pretreatment program responsibilities include issuing discharge permits to industrial users, conducting industrial inspections and performing compliance monitoring, developing and enforcing local limits, enforcing federal pretreatment standards and assessing penalties against industrial users. These requirements are included in a delegation agreement, which is signed by the operator of the POTW and WMA, and incorporated by reference into the NPDES permit issued by WMA. Local governments are responsible for issuing penalties and enforcement actions associated with this program; therefore, those numbers are not reflected in WMA's enforcement statistics.

### **AUTHORITY**

FEDERAL: Clean Water Act

STATE: Environment Article, Title 9, Subtitle 3; COMAR 26.08

### **PROCESS**

WMA's Pretreatment Program oversees local pretreatment program implementation. This oversight is performed by the permitting program staff by conducting: 1) pretreatment compliance inspections of pretreatment programs; 2) audits of pretreatment programs; 3) joint review of industrial user permits; 4) independent and joint industrial inspections with the POTW; 5) review of quarterly status reports from the delegated POTW's and; 6) initiation of enforcement actions when the POTW fails to act in accordance with its delegated responsibilities. The Pretreatment Program also issues permits to categorical industrial users discharging to wastewater treatment plants in areas of the state without delegated pretreatment programs. Compliance of these industrial users is tracked by review of periodic compliance reports and the results of annual inspections conducted by WMA.

### **SUCCESSSES AND CHALLENGES**

Industrial discharges to wastewater collection and treatment systems have a potential to disrupt and damage sewerage infrastructure due to the contribution of toxic or corrosive discharges. Damaged sewerage infrastructure can result in sanitary sewage overflows and discharges of inadequately treated wastewater. The

Pretreatment Program currently issues permits to categorical industrial users located in areas not serviced by jurisdictions with delegated pretreatment programs. In addition it provides oversight to 20 delegated pretreatment programs with technical and regulatory assistance. The Pretreatment Program has been able to inspect all delegated pretreatment programs and inspect all categorical industrial users permitted directly by the Program on an annual basis. In other words, the Pretreatment Program has inspected 100% of entities directly permitted by WMA. Additionally, upon request and on a proactive basis, inspections were also performed at several industrial users that are permitted by local delegated pretreatment programs. The Inspection Coverage Rate includes these industrial users as well as the entities directly permitted by WMA.

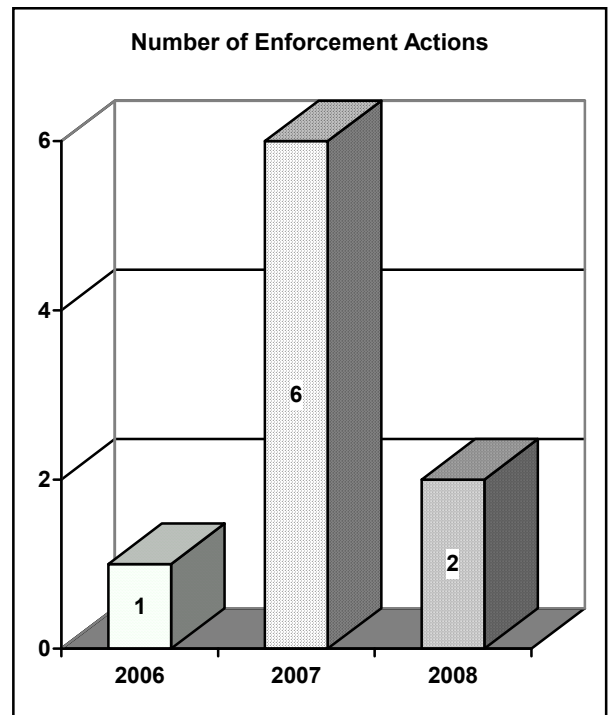
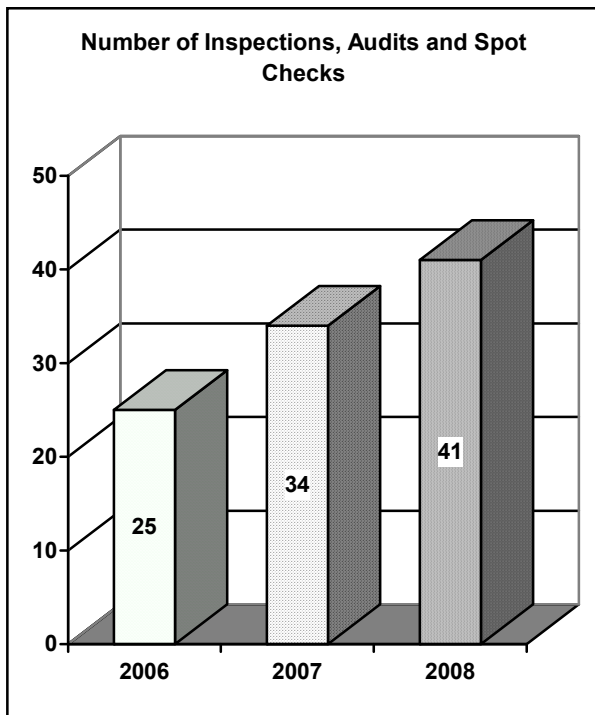
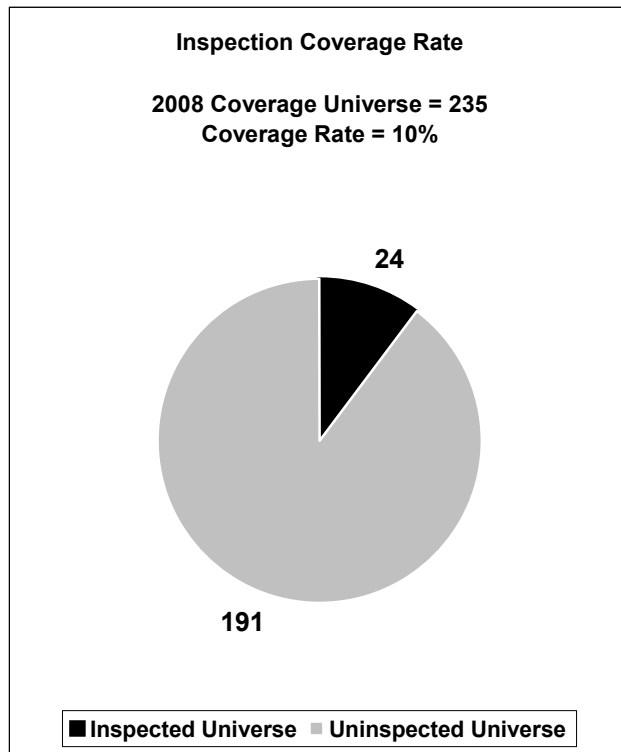
## Discharges – Pretreatment (Industrial)

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			0
Number of permits/licenses in effect at fiscal year end *			4
<b>OTHER REGULATED SITES/FACILITIES</b>			
POTWs			20
POTW Issued Permits (Delegated Programs)**			215
<b>INSPECTIONS</b>			
Number of sites inspected (“inspected” defined as at the site)			24
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			0
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			24
Number of inspections, spot checks (captures number of compliance activities at sites)			41
Number of audits (captures number of reviews of file/submittals for compliance)			0
Number of inspections, audits, spot checks (sum of the two measures above)			41
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			2
% of inspected sites/facilities with significant violations			8%
Inspection coverage rate (number of sites inspected/coverage universe)			10%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			2
Number of significant violations based on technical/preventative deficiencies			0
Number of significant violations carried over awaiting disposition from previous fiscal year			0
Total number of significant violations (sum of the three measures above)			2
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			2
Ongoing			0
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			0
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	0	0	0
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	2	0	2
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$7,250

\* These are State permitted Categorical Industries.

\*\* Coverage rate is defined as the number of sites inspected divided by the sum of permits/licenses in effect, the POTWs and the significant industrial users. However, the Program is responsible for inspecting only the permittees, the POTW's and only some of the industrial users. The Program is required by statute to provide a 100% coverage rate of those facilities. In FY 2008, the program met that requirement.

# Discharge – Pretreatment (Industrial)



# **Storm Water Management and Erosion & Sediment Control For Construction Activity**

## **PURPOSE**

The purpose of the erosion and sediment control program is to lessen the impact to the aquatic environment caused by sediment leaving construction sites. The purpose of MDE's storm water management program is to reduce stream channel erosion, pollution, siltation, and local flooding caused by land use changes associated with urbanization. This is accomplished by maintaining, after development, the pre-development runoff conditions through the use of various storm water management measures. Any construction activity in Maryland that disturbs 5,000 square feet or more of land or results in 100 cubic yards or more of earth movement must have approved erosion and sediment control and storm water management plans before construction begins.

## **AUTHORITY**

FEDERAL: Clean Water Act, Section 402; 40 CFR

STATE: Environment Article, Title 4, Subtitle 1 and Subtitle 2; COMAR 26.17

## **PROCESS**

Inspection and enforcement authority for erosion and sediment control has been delegated or partially delegated to 14 counties and 10 municipalities by the state. MDE inspections cover construction projects in non-delegated counties and inspections at state and federal projects. This report does not reflect the erosion and sediment control inspection and enforcement activities conducted by local governments in delegated jurisdictions.

Storm water management approval for all non-state and nonfederal projects is, by law, the responsibility of each local jurisdiction. MDE inspections of storm water management facilities are performed for state and federal projects only. Upon issuance of a permit or authorization (whether by the Sediment and Storm Water Plan Review Division or by the local sediment control approval authority), the file is transferred to the Compliance Program where an inspection priority is assigned. Routine are scheduled based on the assigned priority and as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand.

As in previous reports, Storm Water and Erosion and Sediment Control have been combined into one table because at the state level, these projects are reviewed and approved as one project. For state and federal projects, plan review is performed by the Sediment, Storm Water and Dam Safety Program and inspections are performed by the Compliance Program. All other projects are reviewed at the local level, and if

delegated, inspected at the local level. In non-delegated jurisdictions, the MDE Compliance Program performs sediment control inspections.

Inspections performed related to the General NPDES Permit for the discharge of storm water associated with construction activities are included in the table for surface water discharges.

### **SUCCESSSES AND CHALLENGES**

Inspections remain a priority. *COMAR 26.17.01.09.D.(2)*, states: "Ensure that every active site having a designed erosion and sediment control plan is inspected for compliance with the approved plan on the average of once every two weeks." This requirement is not being met due to workload.

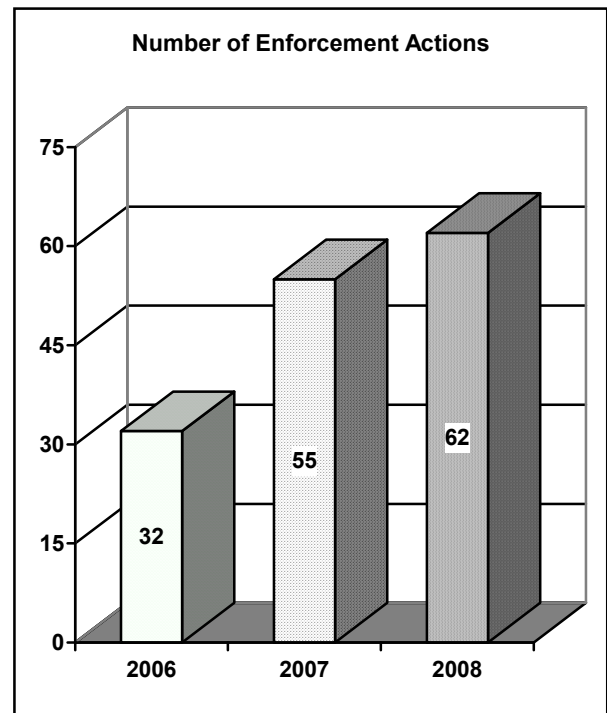
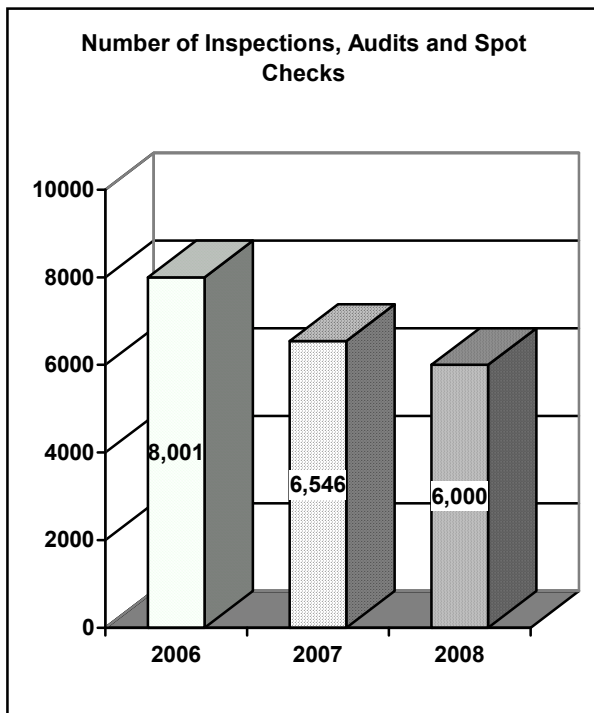
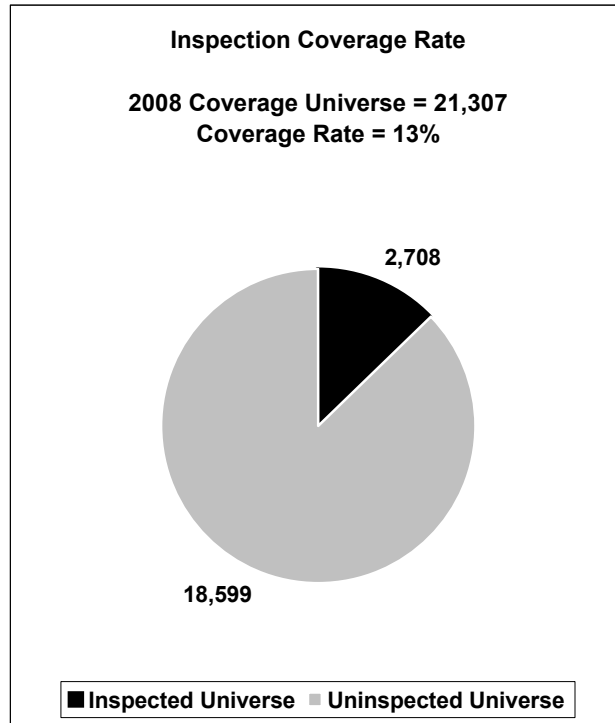
As in previous years, the Allegany and Frederick Soil Conservation Districts continued to perform Erosion and Sediment Control inspections on behalf of MDE as part of a Memorandum of Understanding. These districts are independent of county government. The numbers of sites inspected and numbers of inspections on the following table only include MDE's activities.

## Storm Water Management and Erosion & Sediment Control For Construction Activity

Performance Measure	TOTAL		
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued	281		
Number of permits/licenses in effect at fiscal year end	21,307		
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)	2,708		
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0		
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	2,708		
Number of inspections, spot checks (captures number of compliance activities at sites)	6,000		
Number of audits (captures number of reviews of file/submittals for compliance)	0		
Number of inspections, audits, spot checks (sum of the two measures above)	6,000		
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations	57		
% of inspected sites/facilities with significant violations	2%		
Inspection coverage rate (number of sites inspected/coverage universe)	13%		
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact	18		
Number of significant violations based on technical/preventative deficiencies	40		
Number of significant violations carried over awaiting disposition from previous fiscal year	24		
Total number of significant violations (sum of the three measures above)	82		
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved	51		
Ongoing	31		
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered	197		
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	4	1	5
Number of stop work orders	9	0	9
Number of injunctions obtained	0	0	1
Number of penalty and other enforcement actions	47	0	47
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$248,932



## Storm Water Management and Erosion & Sediment Control For Construction Activity



# Mining – Coal

## **PURPOSE**

The purpose of a coal-mining permit is to minimize the effects of coal mining on the environment. In addition to environmental controls, the permit provides for proper land reclamation and ensures public safety. Performance bonds must also be posted and are released after satisfactory reclamation. Permits issued by the Bureau of Mines (WMA) are required for surface coal mining, deep coal mining, prospecting, preparation plants, loading facilities, and refuse reclamation operations. All coal mining activity occurs in Allegheny and Garrett Counties.

## **AUTHORITY**

FEDERAL: Surface Mining Control and Reclamation Act of 1977

STATE: Environment Article, Title 15, Subtitle 5; COMAR 26.20

## **PROCESS**

Upon issuance of a permit, license, or authorization, the file is transferred to WMA's Compliance Program where an inspection priority is assigned. By agreement with the federal Office of Surface Mining (OSM), WMA has committed to inspect each permitted facility on a monthly basis. The inspectors schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand.

## **SUCSESSES AND CHALLENGES**

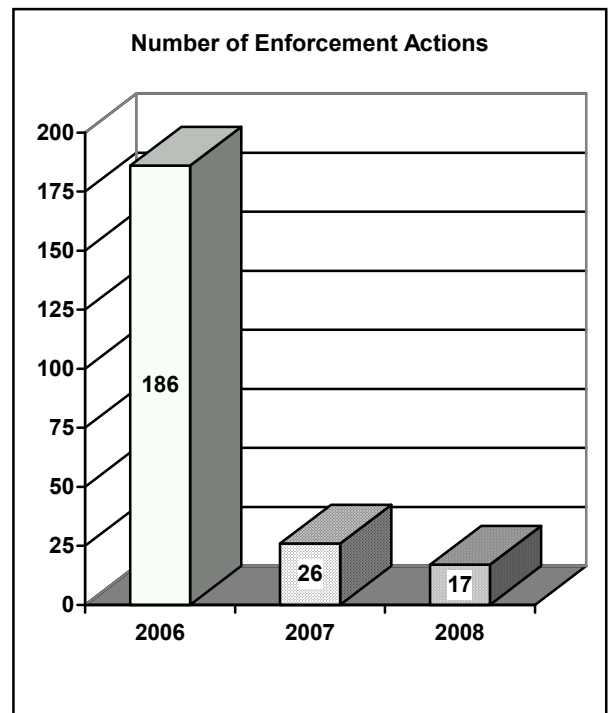
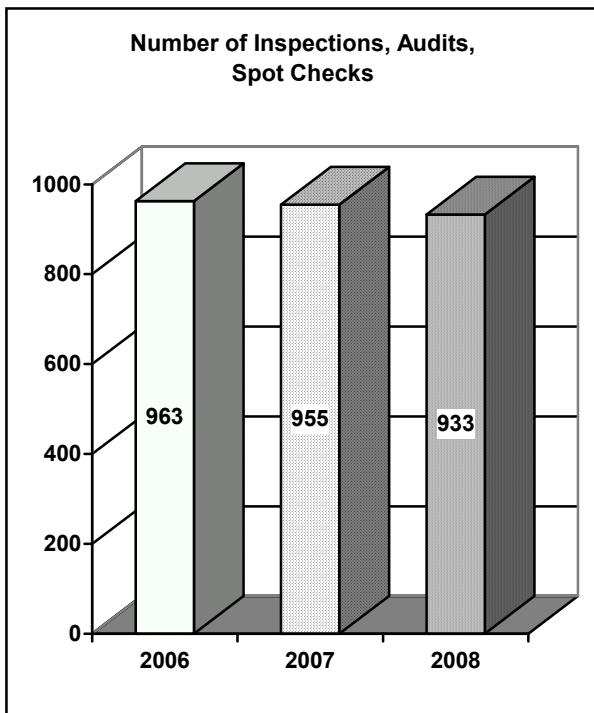
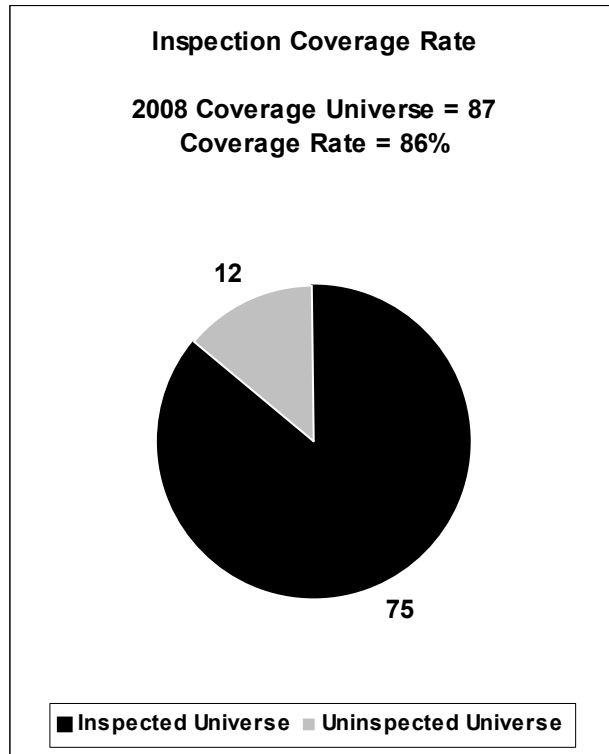
Coal mining has a potential to degrade water quality through the transport of sediment-laden water and acidic water that can adversely impact the aquatic habitat. Proper land reclamation after the completion of the mining activity provides a benefit to the water quality as well as productive use of the land. Proper planning and land reclamation is important to ensure that these negative impacts do not occur. The Compliance Program has been able to maintain its monthly inspection frequency commitment to OSM. COMAR 26.20.31.02.A provides that "The Bureau shall conduct an average of one partial inspection per month of each active surface mining and reclamation operation and shall conduct as many partial inspections for each inactive surface mining and reclamation operation as necessary to ensure effective enforcement of the Regulatory Program." COMAR 26.20.31.02.B provides that "The Bureau shall conduct an average of at least one complete inspection per calendar quarter of each active or inactive surface mining and reclamation operation." WMA met or exceeded these requirements in fiscal year 2008.

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## Mining - Coal

Performance Measure	TOTAL
<b>PERMITTED SITES/FACILITIES</b>	
Number of permits/licenses issued	74
Number of permits/licenses in effect at fiscal year end	87
<b>OTHER REGULATED SITES/FACILITIES</b>	
Prospect and Forfeiture Sites	6
Coal Mining Operator Licenses Issued	1
Coal Mining Operator Licenses in Effect at Fiscal Year End	25
Surface Coal Mining Blaster Certifications Issued	10
Surface Coal Mining Blaster Certifications at Fiscal Year End	40
<b>INSPECTIONS</b>	
Number of sites inspected ("inspected" defined as at the site)	75
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	75
Number of inspections, spot checks (captures number of compliance activities at sites)	933
Number of audits (captures number of reviews of file/submittals for compliance)	0
Number of inspections, audits, spot checks (sum of the two measures above)	933
<b>COMPLIANCE PROFILE</b>	
Number of inspected sites/facilities with significant violations	10
% of inspected sites/facilities with significant violations	13%
Inspection coverage rate (number of sites inspected/coverage universe)	86%
<b>SIGNIFICANT VIOLATIONS</b>	
Number of significant violations involving environmental or health impact	3
Number of significant violations based on technical/preventative deficiencies	7
Number of significant violations carried over awaiting disposition from previous fiscal year	6
Total number of significant violations (sum of the three measures above)	16
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>	
Resolved	12
Ongoing	4
<b>ENFORCEMENT ACTIONS</b>	
Number of compliance assistance rendered	6
	Administrative      Civil/Judicial      Total
Number of show cause, remedial, corrective actions issued	10                      0                      10
Number of stop work orders	1                              0                              1
Number of injunctions obtained	0                              0                              0
Number of penalty and other enforcement actions	6                              0                              6
Number of referrals to Attorney General for possible criminal action	0
<b>PENALTIES</b>	
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$13,500

# Mining – Coal



# Mining – Non-Coal

## **PURPOSE**

The purpose of mining permits is to minimize the effects of surface mining on the environment. In addition to environmental controls, the permit provides for proper land reclamation and ensures public safety. A performance bond of \$1,250 per acre is required to ensure that proper reclamation occurs.

## **AUTHORITY**

STATE: Environment Article – Title 15, Subtitle 8; COMAR 26.21

## **PROCESS**

Upon issuance of a permit, license, or authorization, the file is transferred to WMA's Compliance Program where an inspection priority is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand.

WMA does not have statutory authority to collect administrative penalties for this program.

## **SUCCESSSES AND CHALLENGES**

Mining has the potential to degrade water quality through the transport of sediment-laden water from drainage and storm water runoff. These factors can adversely impact the aquatic habitat. Proper mining practices and land reclamation after the completion of the mining activity provides a benefit to the water quality. WMA's inspection program evaluates mining practices, reclamation and storm water management for compliance to ensure that adverse impacts to surface and groundwater are minimized. §15-828(a) of the Environment Article states, "At any reasonable time which the Department elects, but at least once a year, the Department shall cause each permit area to be inspected to determine if the permittee has complied with the mining and reclamation plan, the requirements of this subtitle, any rules and regulations adopted under it..." This requirement was not met during FY 2008 due to the WMA's prioritization of the various water programs and shifts between programs from year to year which is reflected in the coverage rate for all Water Compliance programs.

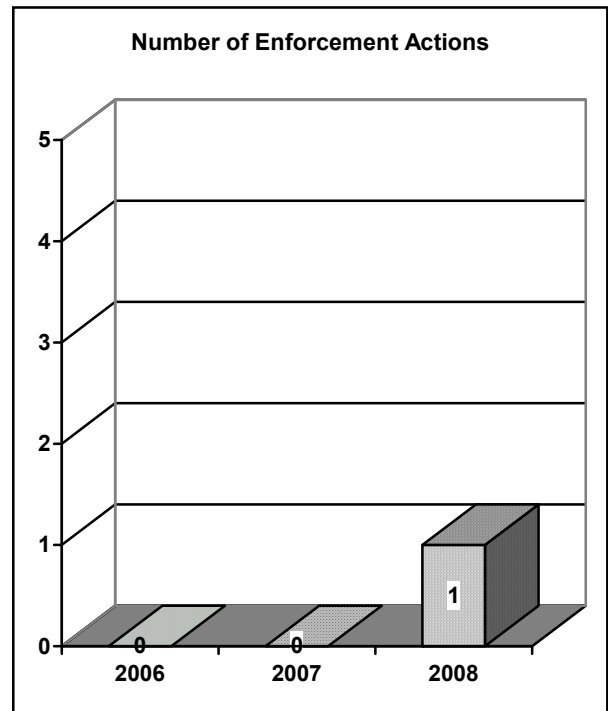
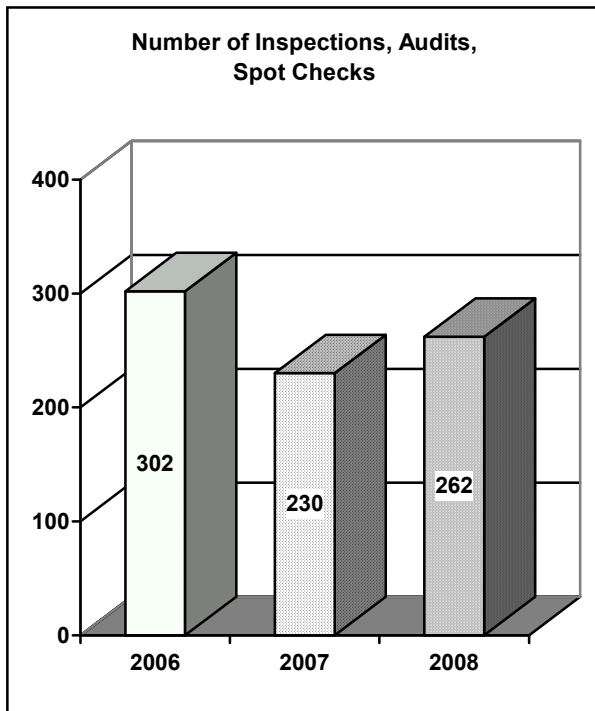
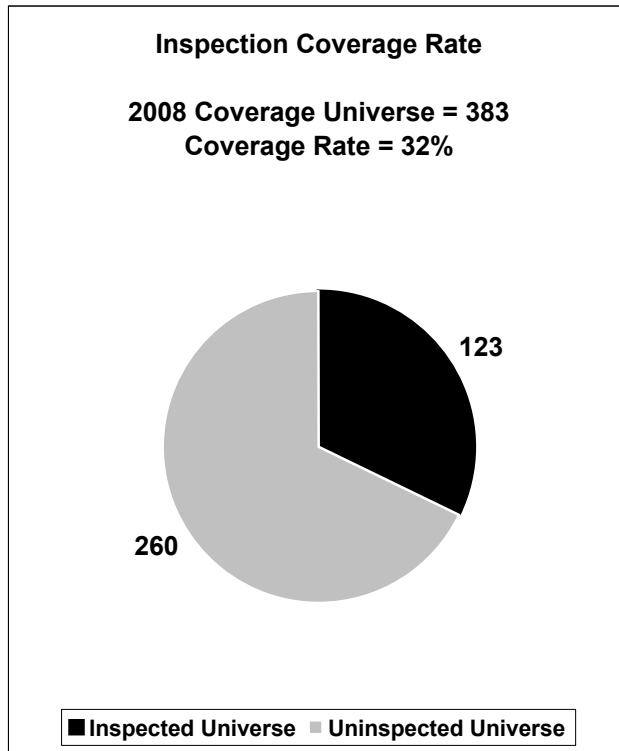
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## Mining – Non-Coal

Performance Measure	TOTAL		
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued	325		
Number of permits/licenses in effect at fiscal year end	383		
<b>INSPECTIONS</b>			
Number of sites inspected (“inspected” defined as at the site)	123		
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0		
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	123		
Number of inspections, spot checks (captures number of compliance activities at sites)	262		
Number of audits (captures number of reviews of file/submittals for compliance)	0		
Number of inspections, audits, spot checks (sum of the two measures above)	262		
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations	2		
% of inspected sites/facilities with significant violations	2%		
Inspection coverage rate (number of sites inspected/coverage universe)	32%		
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact	0		
Number of significant violations based on technical/preventative deficiencies	2		
Number of significant violations carried over awaiting disposition from previous fiscal year	0		
Total number of significant violations (sum of the three measures above)	2		
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved	0		
Ongoing	2		
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered	13		
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	1	0	1
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	0	0	0
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$0



# Mining – Non-Coal



# Oil and Gas Exploration and Production

## **PURPOSE**

Permits are required for the drilling and operation of a gas or oil well, the operation of a natural gas storage facility, and for oil and natural gas exploration using seismic operations. Permits include environmental controls to ensure public safety, to provide for the protection of public and private property, and to minimize impacts resulting from the operation.

## **AUTHORITY**

STATE: Environment Article - Title 14, Subtitles 1, 2 and 3; COMAR 26.19.

## **PROCESS**

Upon issuance of a permit, license, or authorization, the file is transferred to WMA's Compliance Program where an inspection priority is assigned. The inspectors then schedule routine inspections of the facilities in accordance with the assigned priority. Facilities are not given advance notification of routine inspections. Site inspections may be adjusted to reflect changing workloads or inspection priorities. The inspections verify that the operator is in compliance with any special conditions specific to the permit.

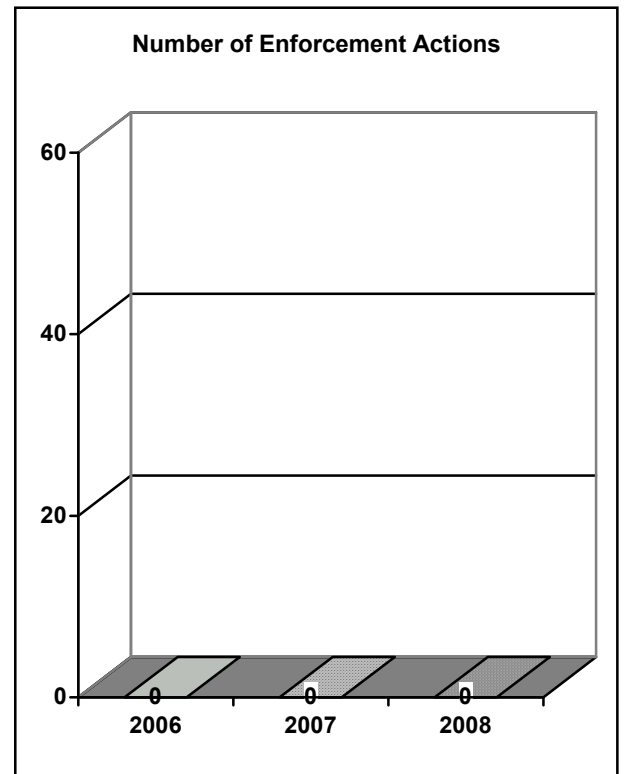
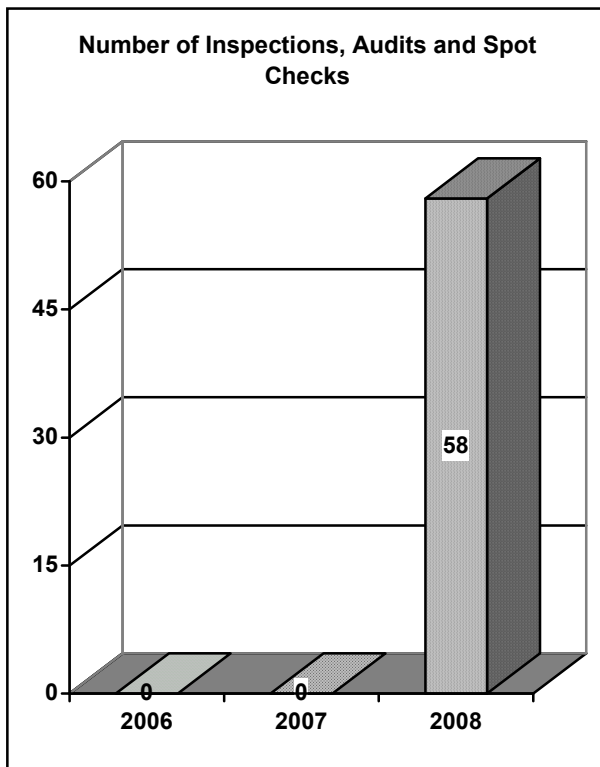
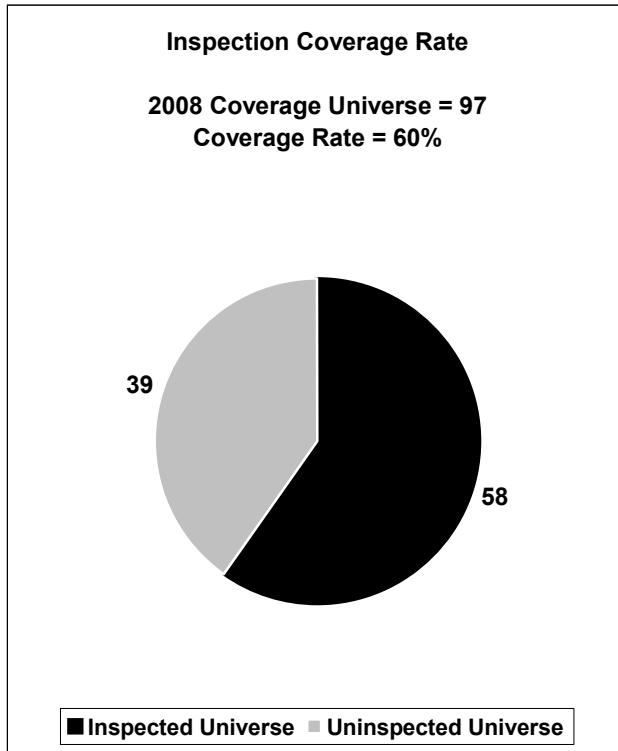
## **SUCCESSSES AND CHALLENGES**

Although the potential for environmental harm exists, the Compliance Program, in balancing overall environmental risks and staff resources, has determined that this media is a low priority media for its routine activities. The Compliance Program inspected 58 facilities in FY 2008 and identified no significant violations.

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# Oil and Gas Exploration and Production



# Water Supply Program

## **PURPOSE**

The mission of the Water Supply Program (WSP) is to ensure that public drinking water systems provide safe and adequate water to all present and future users in Maryland, and that appropriate usage, planning and conservation policies are implemented for Maryland water resources. This mission is accomplished through permitting and proper planning for water withdrawal, protection of water resources that are used for public water supplies, oversight and enforcement of routine water quality monitoring at public water systems and of water appropriation permits, regular on-site inspections of water systems and prompt response to water supply emergencies.

## **Community and Non-transient Non-community Water Systems**

The WSP regulates approximately 1,046 community water systems (such as municipalities, small and large private systems) and non-transient non-community water systems (such as businesses, schools, and day cares). These systems must test for over 90 regulated contaminants on schedules that vary based on water source, system type and population.

## **Transient Non-community Water Systems**

In addition, there are approximately 2,483 transient non-community water systems (such as convenience stores, campgrounds, and restaurants) throughout the State, which are regularly inspected and tested for acute contaminants. Since 1998, MDE has negotiated delegation agreements with county health departments for enforcement of Safe Drinking Water Act regulations for the transient non-community water systems. Twenty of the twenty-three counties have accepted delegated authority for these systems, and MDE has direct enforcement of the requirements for the three remaining counties.

## **Drinking Water Laboratory Certification**

In FY 2006, the Drinking Water Laboratory Certification Program moved from the Department of Health and Mental Hygiene to MDE. This program is mandated by the federal Safe Drinking Water Act. The certification assures the reliability of the compliance samples that are analyzed by State-certified laboratories. Providing high quality data is critical to evaluating public water systems, and is the primary means of evaluating the safety of the drinking water supplies. FY 2008 is the first year for reporting these activities.

## **Water Appropriation Permits**

The WSP also regulates water withdrawals and diversions through a permitting program to conserve and protect the State's water resources for the best interest of the people. Water uses for most purposes (public supply, business, institutional, subdivision of land or agricultural (over 10,000 gallons per day) require a permit, In FY 2007, ground water uses of 5,000 gpd or less were recently exempted from

obtaining a permit unless the use was within a designated water management strategy area. Uses for fire fighting and domestic use are also exempt. Maryland regulates water use under the doctrine of reasonable use. This means that the quantity must be reasonable for its intended purpose, the impacts of the use to the natural resources of the State must not be unreasonable and the impacts to other users must not be unreasonable. There are approximately 13,300 active water appropriation permits.

## **AUTHORITY**

### **Public Drinking Water**

FEDERAL: Safe Drinking Water Act; 40 CFR 141, 142, and 143

STATE: Environment Article, Title 9, Subtitles 2, 4, and 5; COMAR 26.04.01 and COMAR 26.08.05

### **Water Appropriation Permits**

STATE: Environment Article, Title 5, Subtitles 2, 3, 4, and 5; COMAR 26.17.16 and COMAR 26.17.07

## **PROCESS**

### **Community and Non-Transient Non-Community Water Systems**

WSP uses a multiple-barrier approach to ensure that public drinking water systems in Maryland are able to provide a safe and adequate supply of drinking water to their consumers. This approach includes review and approval of potential water sources and construction plans, evaluation of a new system's technical, financial, and managerial capacity, regular inspection of drinking water facilities, close oversight of water quality monitoring, and maintenance of licensed operators at water treatment facilities. WSP reviews and approves all new drinking water sources for community water systems to ensure that sources are not impacted by existing or potential contamination sources. Sources are thoroughly tested to ensure adequacy of quantity and quality. Upon endorsement of the reliability of the source, the water system initiates the design and construction of necessary water treatment, storage and distribution systems, with review and approval of WSP. After operation begins, periodic sanitary surveys are conducted to ensure that the water system can provide safe and reliable drinking water to its customers. A sanitary survey is a comprehensive on-site assessment and inspection of all water system components including the source, treatment, storage, and distribution systems, as well as a review of operations and maintenance of the system. Sanitary surveys can be used following known or suspected problems or on a routine basis to assess the water system's viability and prevent future problems from occurring.

Two programs, the source water assessment program and the capacity development program, help to improve the management of Maryland's water resources and water supply operations. The source water assessment program has reviewed water supply sources and their susceptibility to contamination. Detailed reports including recommendations for protecting water sources were provided to water suppliers, and county governments. The capacity development program

evaluates the strength of a water system's technical, financial, and managerial capability, and provides technical assistance to improve water system operation. All new systems must submit a plan showing that adequate technical, managerial and financial capacity is in place prior to beginning of their operation.

Public water systems are required to conduct routine sampling of their water quality. The type and frequency of analysis depend on the type of system, its population, and the vulnerability of its water supply. WSP reviews and evaluates more than 35,000 water quality records each year. Emphasis is placed on preventive measures to avert serious public health incidents. The vast majority of drinking water violations are corrected immediately, or following the issuance of a Notice of Violation. Systems must notify their consumers when violations of the Safe Drinking Water Act occur.

### **Transient Non-community Water Systems**

WSP provides funding to county environmental health programs to accept delegation of responsibilities for transient non-community water systems in their jurisdictions. Twenty of the twenty-three counties have accepted delegation of the program. These counties conduct routine inspections and ensure that systems are monitored in accordance with State and federal requirements. Transient non-community water systems are required to monitor only for contaminants that have acute health risks, including nitrate, nitrite, and bacteria. WSP provides guidance and training to the counties, and reports only health-based violations to EPA for these systems. WSP is also conducting statewide evaluations to determine whether ground water systems are under the influence of surface water. Ground water systems under the influence of surface water will be required to meet federally mandated treatment technique requirements, and to conduct additional bacteria monitoring as well as turbidity monitoring.

WSP directly oversees implementation of federal and State regulations for transient non-community water systems in Prince George's, Montgomery and Wicomico counties since these three counties declined the delegated program and funding assistance. Currently, 118 transient water systems are directly overseen by WSP. Oversight includes regular inspections of the systems, enforcement of monitoring requirements, and follow-up to occasional water quality problems that arise. WSP reports technical and health-based violations to EPA on a quarterly basis for these systems.

### **Drinking Water Laboratory Certification**

WSP regulates approximately 118 in-State and out-of-State laboratories that analyze compliance samples for public drinking water systems. All in-state laboratories receive inspections on a triennial basis. In addition, laboratories submit an annual renewal package that includes performance testing results for each approved test method. An inspection is required before a laboratory receives certification, or approval for a new test method. Fees are collected from each privately-owned laboratory.



### **Water Appropriation Permits**

Maryland regulates water use under the reasonable use doctrine, which holds that every property owner has a right to make a reasonable use of the water associated with his or her property, as long as the use does not have unreasonable impacts on the water resource, or on other users of the resource. Therefore, the right to use water in Maryland is associated with property ownership. Permit evaluations consider the reasonableness of the quantity requested, the reasonableness of the proposed withdrawal's impact on the resource, and the reasonableness of the proposed withdrawal's impact on other users. Most uses of water require a permit if the usage exceeds 5,000 gallons per day (gpd). Domestic uses are exempted, as well as certain other uses such as extinguishing a fire, temporary dewatering, and agricultural use under 10,000 gpd. There are approximately 13,300 active water appropriation permits in the State.

The 2007 Maryland General Assembly adopted several changes to State laws that govern water appropriation permits. Effective October 1, 2007, the requirement to obtain a permit was modified to exclude most uses of less than 5,000 gallons per day (gpd) of ground water, unless the use is located within a water management strategy area. Water management strategy areas are certain geographic locations within the State where additional scrutiny is required to ensure that withdrawals do not have an adverse impact. In addition, the General Assembly gave MDE civil penalty authority to enforce the requirements of the water appropriation permit laws. Previously, only criminal authority was available to enforce permit requirements. Water appropriation permits are generally valid for twelve years. Certain water users have reporting requirements for their annual or semiannual usage.

## **SUCSESSES AND CHALLENGES**

### **Drinking Water Regulations**

WSP provided guidance material and training on security, and new federal regulations to public water systems throughout the State in 2008. As of August 2008, only seven out of sixty-three water systems that were identified as potentially exceeding the arsenic standard continue to work on reducing their arsenic levels; the remaining systems have achieved compliance with the new arsenic drinking water standard. The enforcement of new regulations resulted in an increase in the number of technical violations that were incurred by community and non-transient non-community water systems during the fiscal year. Compliance with the new regulations is expected to improve as water systems become familiar with the new requirements. In FY 2009, several major regulations will be adopted and implemented including the Long Term 2 Surface Water Treatment Rule, the Stage 2 Disinfection Byproduct Rule and the Ground Water Rule.

### **Water Resource Management Advisory Committee**

A Governor's Advisory Committee on water resource management has been meeting since 2005 to review information on the State's water resources, assess

existing laws, regulations, and policies, and to develop recommendations to ensure that Maryland's water resources remain sustainable into the foreseeable future. The Committee produced an interim report in June 2006, and a final report in June 2008.

The Committee's final report focuses on the need for improved information and technical resources to better understand the adequacy of Maryland's ground water and surface water resources, the need for integrated water resources planning on the State, local, and regional level, and the need for a reliable funding source to support water resources planning programs at the State and local level.

### **Water System Security and Emergency Response**

WSP staff responds to water supply emergencies twenty-four hours a day and may offer technical advice, special sampling, or onsite assistance. WSP staff provided assistance to the public in response to 60 complaints in FY 2008.

In FY 2008, the WSP worked with a contractor to develop a Security Strategic Plan and Emergency Response Plan to improve and augment the existing water security policies. The Emergency Response Plan provides a series of emergency response procedures for water system emergencies that include treatment or distribution failure, tampering, and security threats.

### **Water Appropriation Permits**

A general notice was mailed at the end of calendar year 2007 informing all permittees that report pumpage (about 2,560 permittees) of the new authority granted concerning enforcement of permit conditions and the potential civil liability of up to \$5,000 per day. Our review of reporting data indicated a higher compliance rate for pumpage reports for 2007 when compared to previous years. During the next fiscal year, the WSP will begin issuing Notices of Violation for several different violations of permit requirements, including failure to obtain or renew a permit, failure to report water usage as required by the permit, failure to maintain adequate flow-bys or meet other special conditions, and for withdrawing more water than is allowed under the permit. Managing the data in order to properly identify violations and enforcement follow-up presents a challenge due to the limited capabilities of the existing database.

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## Water Supply Program

### Community and Non-transient Non-community Water Systems

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued *			885
Number of permits/licenses in effect at fiscal year end			2,953
<b>OTHER REGULATED SITES/FACILITIES</b>			
Number of Community and Non-transient Non-community Water Systems **			1,046
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)			856
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			190
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			1,046
Number of inspections, spot checks (captures number of compliance activities at sites)			856
Number of audits (captures number of reviews of file/submittals for compliance)			25,488
Number of inspections, audits, spot checks (sum of the two measures above)			26,344
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations ***			230
% of inspected sites/facilities with significant violations			22%
Inspection coverage rate (number of sites inspected/coverage universe) ****			82%
<b>SIGNIFICANT VIOLATIONS<sup>40</sup></b>			
Number of significant violations involving environmental or health impact			40
Number of significant violations based on technical/preventative deficiencies			106
Number of significant violations carried over awaiting disposition from previous fiscal year			84
Total number of significant violations (sum of the three measures above)			230
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			123
Ongoing			107
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered *****			1,046
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	0	0	0
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	247	0	247
Notices Given to Public by Water Systems under Section 9-410			108
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$0

\* Number of persons tested and certified by the WSP to collect compliance samples for public water systems.

\*\* This number includes 485 community water systems and 561 Non-transient Non-community water systems.

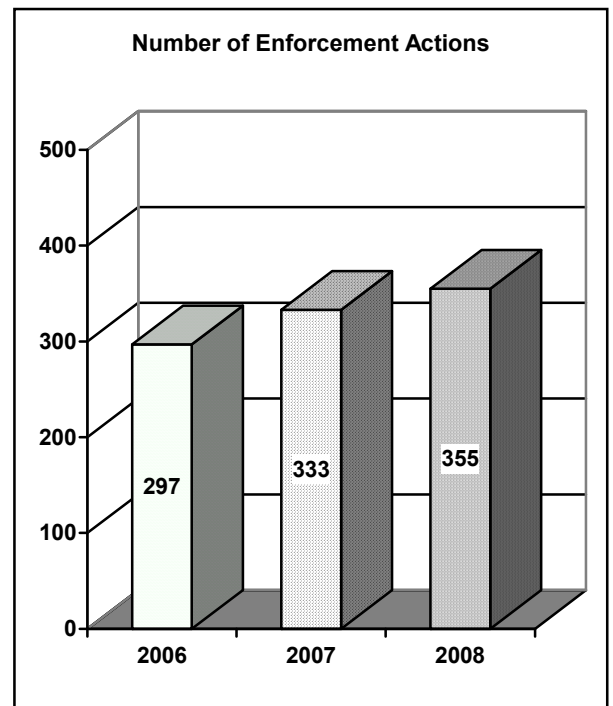
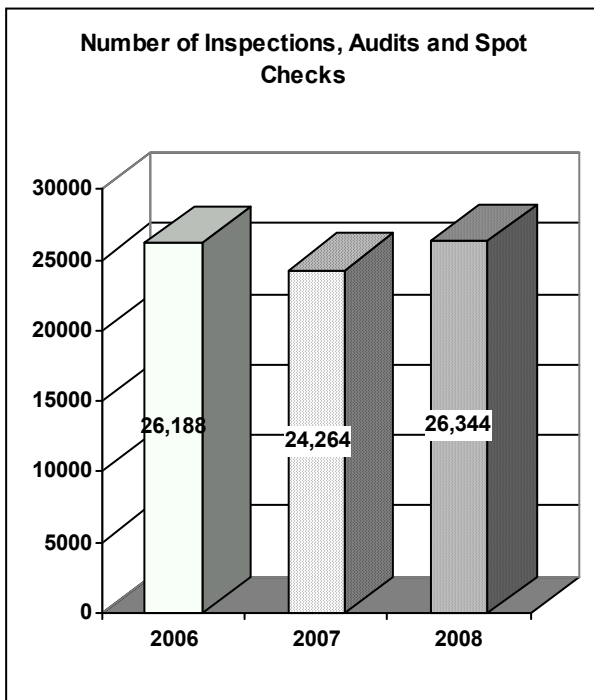
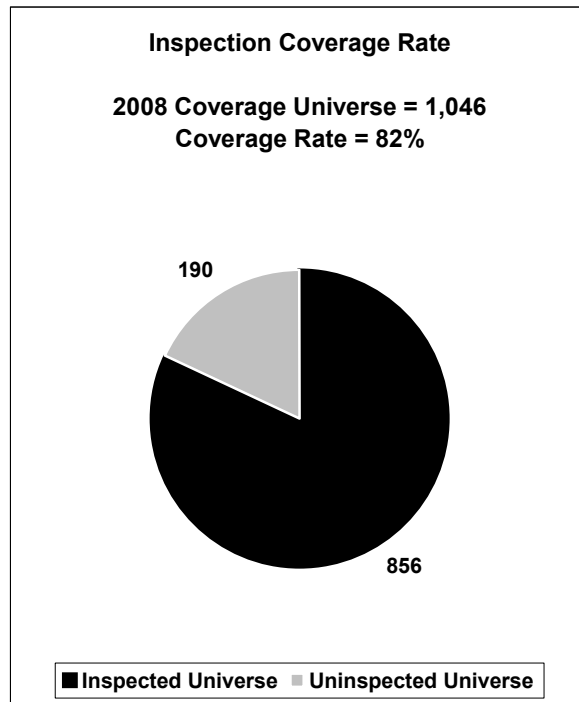
\*\*\* Number of sites in significant violation includes sites with violations carried over.

\*\*\*\* Coverage rate above is computed by dividing the number of inspected systems by the total number of community and Non-transient Non-community water systems.

\*\*\*\*\* This number includes actions to inform public water systems of monitoring requirements under the Safe Drinking Water Act.

# Water Supply Program

## Community and Non-transient Non-community Water Systems



# Water Supply Program

## Transient Non-community Water Systems

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			N/A
Number of permits/licenses in effect at fiscal year end			N/A
<b>OTHER REGULATED SITES/FACILITIES</b>			
Number of Transient Non-community Water Systems			2,483
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)			361
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			1,639
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			2,001
Number of inspections, spot checks (captures number of compliance activities at sites)			361
Number of audits (captures number of reviews of file/submittals for compliance)			11,986
Number of inspections, audits, spot checks (sum of the two measures above)			12,347
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			202
% of inspected sites/facilities with significant violations			23%
Inspection coverage rate (number of sites inspected/coverage universe) *			15%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			117
Number of significant violations based on technical/preventative deficiencies			0
Number of significant violations carried over awaiting disposition from previous fiscal year			85
Total number of significant violations (sum of the three measures above)			202
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			143
Ongoing			59
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			0
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	0	0	0
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	0	0	0
Notices Given to Public by Water systems under Section 9-410 **			141
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$0

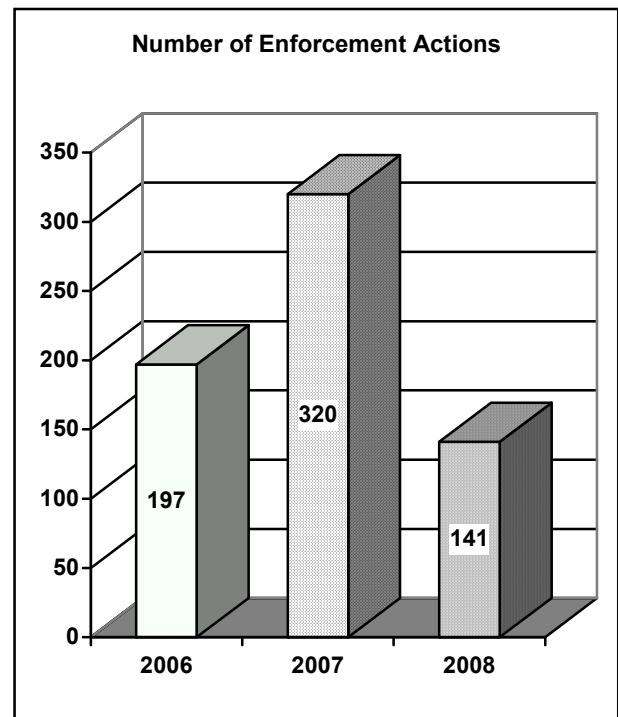
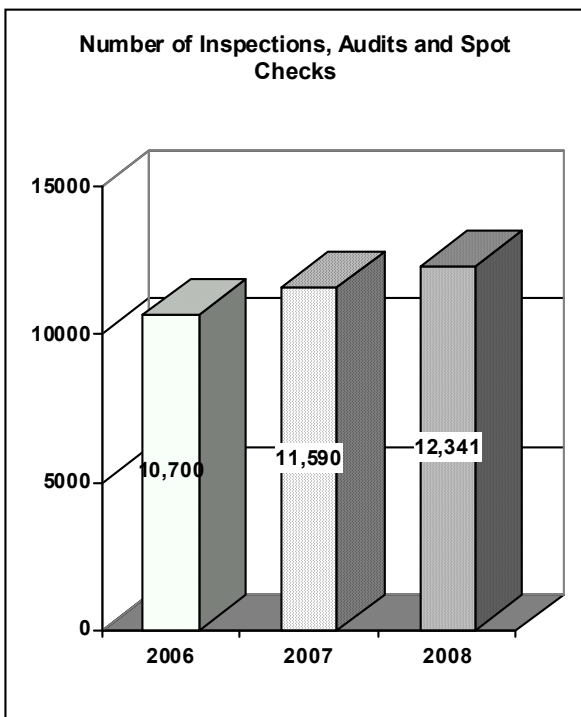
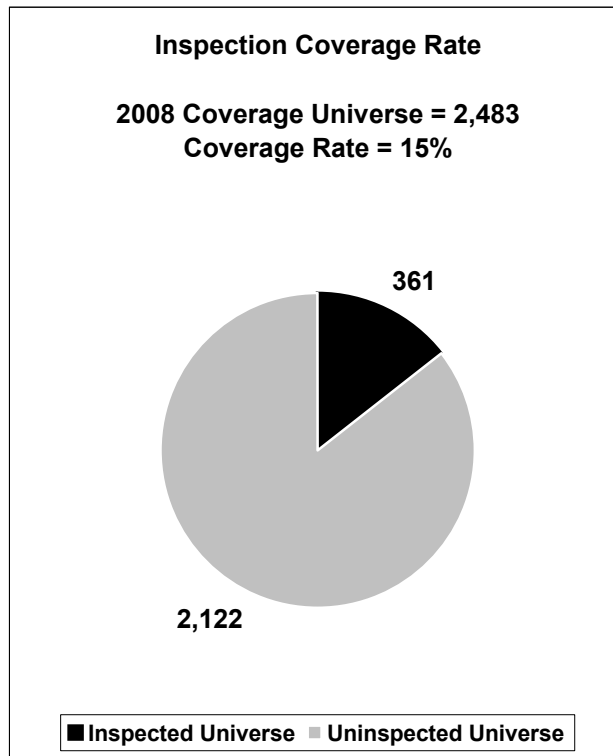
\* Coverage rate above is computed by dividing the number of inspected systems by the total number of transient Non-community water systems.

\*\* This number includes actions to inform public water systems of monitoring requirements under the Safe Drinking Water Act.

# Water Supply Program

## Transient Non-community Water Systems

These systems were reported separately for the first time in FY 2003.



## Water Supply Program

### Drinking Water Laboratory Certification (New FY2008)

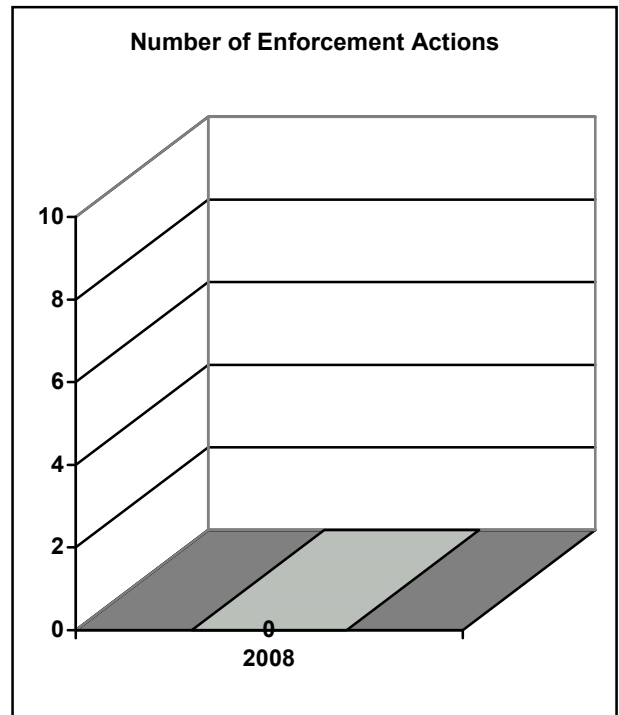
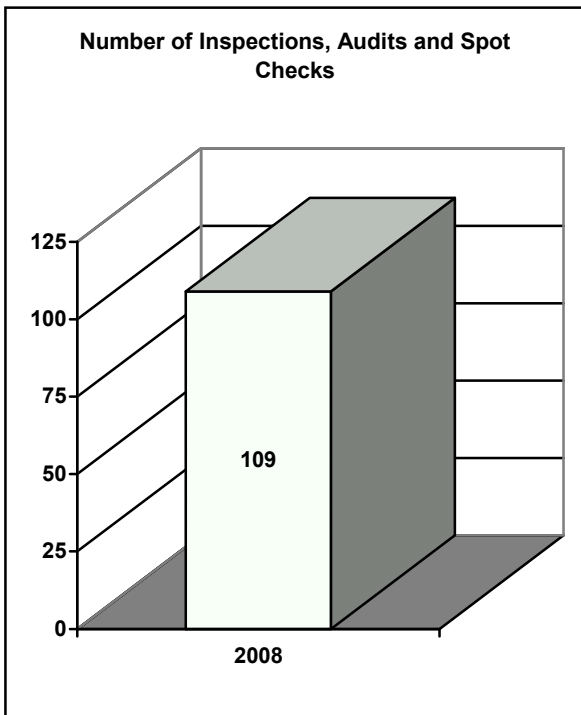
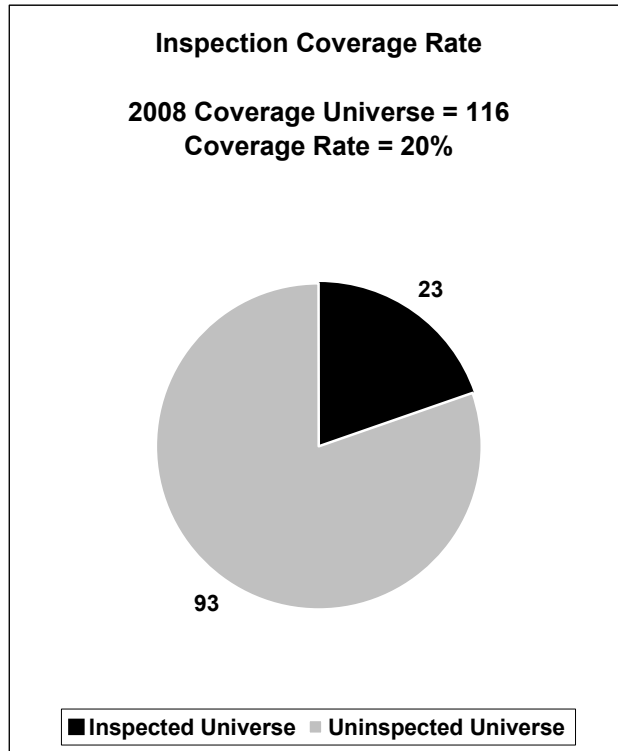
Performance Measure	TOTAL																				
<b>PERMITTED SITES/FACILITIES</b>																					
Number of permits/licenses issued	78																				
Number of permits/licenses in effect at fiscal year end	116																				
<b>OTHER REGULATED SITES/FACILITIES</b>																					
Number of State-Certified Drinking Water Laboratories	116																				
<b>INSPECTIONS</b>																					
Number of sites inspected ("inspected" defined as at the site)	23																				
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	78																				
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	101																				
Number of inspections, spot checks (captures number of compliance activities at sites)	31																				
Number of audits (captures number of reviews of file/submittals for compliance)	78																				
Number of inspections, audits, spot checks (sum of the two measures above)	109																				
<b>COMPLIANCE PROFILE</b>																					
Number of inspected sites/facilities with significant violations *	3																				
% of inspected sites/facilities with significant violations	3%																				
Inspection coverage rate (number of sites inspected/coverage universe)	20%																				
<b>SIGNIFICANT VIOLATIONS</b>																					
Number of significant violations involving environmental or health impact	0																				
Number of significant violations based on technical/preventative deficiencies	3																				
Number of significant violations carried over awaiting disposition from previous fiscal year	0																				
Total number of significant violations (sum of the three measures above)	3																				
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																					
Resolved	3																				
Ongoing	0																				
<b>ENFORCEMENT ACTIONS</b>																					
Number of compliance assistance rendered	0																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%;">Administrative</th> <th style="width: 20%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	0	0	0	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	0	0	0
	Administrative	Civil/Judicial	Total																		
Number of show cause, remedial, corrective actions issued	0	0	0																		
Number of stop work orders	0	0	0																		
Number of injunctions obtained	0	0	0																		
Number of penalty and other enforcement actions	0	0	0																		
Notices Given to Public by Water Systems under Section 9-410	N/A																				
Number of referrals to Attorney General for possible criminal action	0																				
<b>PENALTIES</b>																					
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0																				

\* Coverage rate above is computed by dividing the number of inspected systems by the total number of drinking water laboratories.



# Water Supply Program

Drinking Water Laboratory Certification (New FY2008)



## Water Supply Program

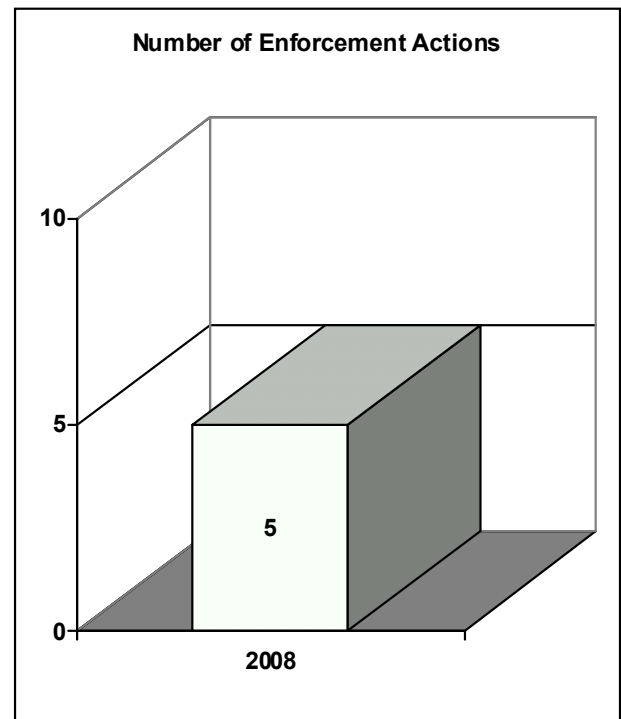
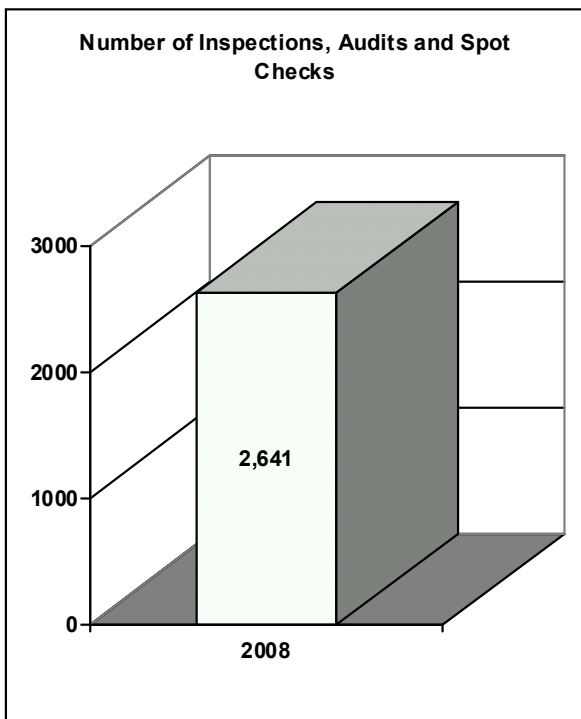
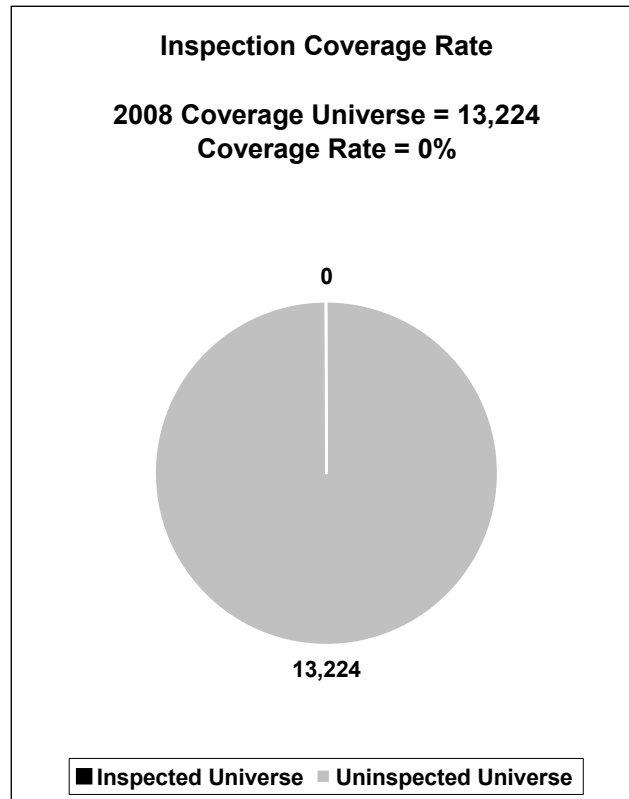
### Water Appropriation Permits (New FY2008)

Performance Measure	TOTAL																												
<b>PERMITTED SITES/FACILITIES</b>																													
Number of permits/licenses issued	604																												
Number of permits/licenses in effect at fiscal year end	13,244																												
<b>OTHER REGULATED SITES/FACILITIES</b>																													
	N/A																												
<b>INSPECTIONS</b>																													
Number of sites inspected ("inspected" defined as at the site)	0																												
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	2,565																												
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	2,565																												
Number of inspections, spot checks (captures number of compliance activities at sites)	0																												
Number of audits (captures number of reviews of file/submittals for compliance)	2,641																												
Number of inspections, audits, spot checks (sum of the two measures above)	2,641																												
<b>COMPLIANCE PROFILE</b>																													
Number of inspected sites/facilities with significant violations *	0																												
% of inspected sites/facilities with significant violations	0%																												
Inspection coverage rate (number of sites inspected/coverage universe)*	0%																												
<b>SIGNIFICANT VIOLATIONS</b>																													
Number of significant violations involving environmental or health impact	0																												
Number of significant violations based on technical/preventative deficiencies	0																												
Number of significant violations carried over awaiting disposition from previous fiscal year	0																												
Total number of significant violations (sum of the three measures above)	0																												
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																													
Resolved	4																												
Ongoing	1																												
<b>ENFORCEMENT ACTIONS</b>																													
Number of compliance assistance rendered	1,670																												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Administrative</th> <th style="width: 25%;">Civil/Judicial</th> <th style="width: 10%;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Notices Given to Public by Water Systems under Section 9-410</td> <td colspan="2"></td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	5	0	5	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	0	0	0	Notices Given to Public by Water Systems under Section 9-410			N/A	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																										
Number of show cause, remedial, corrective actions issued	5	0	5																										
Number of stop work orders	0	0	0																										
Number of injunctions obtained	0	0	0																										
Number of penalty and other enforcement actions	0	0	0																										
Notices Given to Public by Water Systems under Section 9-410			N/A																										
Number of referrals to Attorney General for possible criminal action			0																										
<b>PENALTIES</b>																													
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0																												

\* This activity does not include inspections. Annual or semiannual reports are required for certain water appropriation permits.

# Water Supply Program

## Water Appropriation Permits (New FY2008)



# Water Supply and Sewerage Construction

## PURPOSE

The purpose of water and sewerage construction permits is to ensure that infrastructure projects throughout the State are designed on sound engineering principles and comply with State design guidelines to protect water quality and public health. Water and sewerage construction permits are required before installing, extending or modifying community water supply and/or sewerage systems including treatment plants, pumping stations and major water mains and sanitary sewers greater than 15 inches in diameter. These permits also help to ensure compliance with local comprehensive land use and water and sewerage plans and are supportive of community revitalization and land redevelopment.

## AUTHORITY

STATE: Environment Article, Title 9, Subtitle 2, COMAR 26.03.12

## PROCESS

Pre-approval: Applicants must show that the proposed water and/or sewerage facilities are included in the current county water and sewerage plans, have a valid NPDES discharge permit (if applicable), and certify that the proposed water and/or sewerage facilities will be operated either publicly or privately under a financial management plan.

Post-approval: The project must be constructed in accordance with the approved plans and specifications. Staff engineers perform inspections in this media to verify the facility is constructed to the approved design and/or the permittee submits "as built" plans or certification that the project was built in accordance with original plans as approved by MDE. Other approvals associated with the construction (i.e. sediment control, wetlands, etc.) are inspected under those media and by those inspectors. This program does not have authority to pursue traditional enforcement actions and or other operating standards. For projects where MDE is providing funding, construction violations would necessitate the return of state funds by the local jurisdiction. If a construction violation were to go unnoticed, the eventual result would be the failure of the facility to meet its discharge permit requirements and or other performance requirements. At that time, traditional enforcement tools available under the discharge permit program would be utilized.

There is no correlation between the number of permits issued and the number of sites inspected because inspections are performed only at active construction sites for projects being financed by MDE. Once construction has begun these projects are inspected on a routine basis through completion.

## **SUCSESSES AND CHALLENGES**

Adequate water and sewer infrastructure is essential to public health and water quality protection. Water and sewerage construction permits help ensure that projects for water and sewerage are designed and constructed in accordance with sound engineering principle and comply with the State design guidelines to protect water quality and public health.

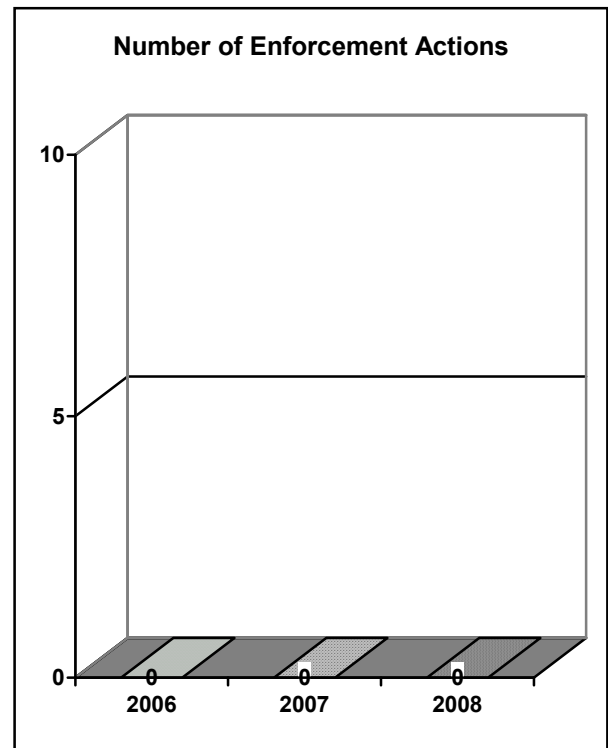
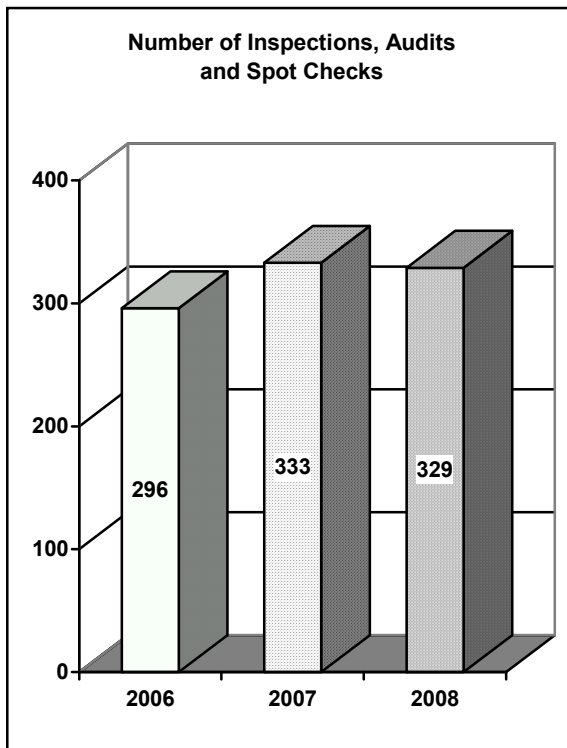
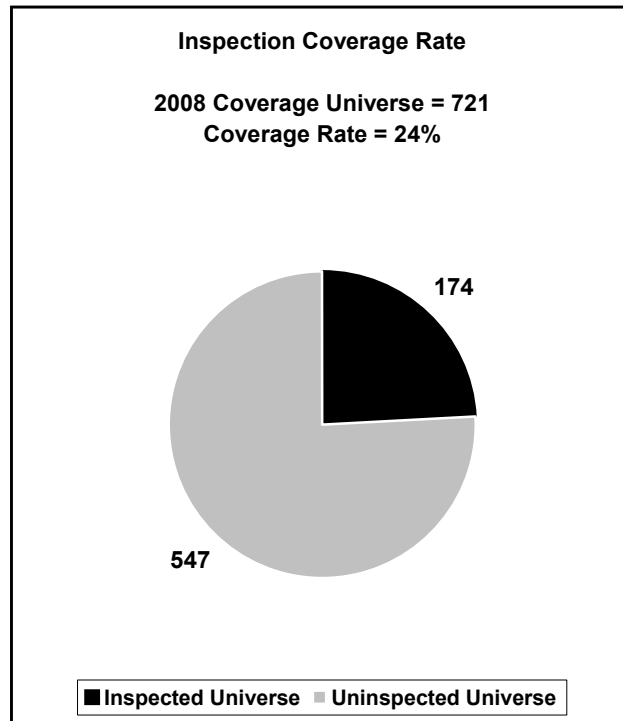
Over the past year the activity numbers have remained fairly consistent with the previous years' activities with the program being on target with its goals. The number of inspections performed is a function of the number of active construction projects being financed by MDE. MDE monitors all projects for which State financial assistance is being provided. Accordingly, the annual number of inspections will vary as the number of financed projects initiate and complete construction.

# Water Supply and Sewerage Construction

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	161																								
Number of permits/licenses in effect at fiscal year end	721																								
<b>INSPECTIONS</b>																									
Number of sites inspected ("inspected" defined as at the site)	174																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	174																								
Number of inspections, spot checks (captures number of compliance activities at sites)	329																								
Number of audits (captures number of reviews of file/submittals for compliance)	0																								
Number of inspections, audits, spot checks (sum of the two measures above)	329																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	0																								
% of inspected sites/facilities with significant violations	0%																								
Inspection coverage rate (number of sites inspected/coverage universe)	24%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	0																								
Number of significant violations based on technical/preventative deficiencies	0																								
Number of significant violations carried over awaiting disposition from previous fiscal year	0																								
Total number of significant violations (sum of the three measures above)	0																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	0																								
Ongoing	0																								
<b>ENFORCEMENT ACTIONS*</b>																									
Number of compliance assistance rendered	0																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">Administrative</th> <th style="width: 20%; text-align: center;">Civil/Judicial</th> <th style="width: 10%; text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	0	0	0	Number of stop work orders	0	0	0	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	0	0	0	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	0	0	0																						
Number of stop work orders	0	0	0																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	0	0	0																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)	\$0																								

\* Program does not have direct legal authority to pursue traditional enforcement actions for violations. It requires the return of grant proceeds. MDE may indirectly use its general water pollution authority if a constructed facility violates the law.

# Water Supply and Sewerage Construction



# Waterway Construction – Dam Safety

## **PURPOSE**

The purpose of the Maryland Dam Safety Division is to assure that dams and other impoundment structures are designed, constructed, operated and maintained safely, in order to protect public safety. The Dam Safety Division issues waterway construction permits for new dams and ponds, as well as for modifications to existing water impoundments. In addition, the Dam Safety Division conducts safety inspections of existing dams, conducts construction inspections and provides technical assistance to dam owners and local Soil Conservation Districts.

## **AUTHORITY**

STATE: Environment Article, Title 5, Subtitle 5; COMAR 26.17.04

## **PROCESS**

Upon issuance of a permit, copies of the approved plans are forwarded to the Compliance Program. Dam Safety Division engineers conduct quality assurance inspections. The Compliance Program may inspect the site to determine whether construction has begun or to perform sediment control inspections at the request of the permitting division or in response to citizens' complaints.

The Dam Safety Division performs safety inspections of all high hazard (failure will likely cause loss of life) dams once a year, significant hazard (failure will likely cause significant property damage and damage to important infrastructure) dams every three years. Low hazard dams are inspected once every 5-7 years. Based upon the inspection findings, the Dam Safety Division may initiate enforcement actions from a letter advising the owner to correct noted deficiencies up to declaring the dam unsafe and in need of repair with an Order requiring repairs or other action be taken to assure the safety of the dam.

MDE does not have the statutory authority to collect administrative penalties for this program.

## **SUCCESSSES AND CHALLENGES**

The Dam Safety Division, through its dam inspection, dam owner assistance, permitting and enforcement initiatives, seeks to prevent dam failures and the resultant loss of life, property damage and environmental impacts. Dam failures cause significant erosion of stream channels and sediment deposition in the channel and in the storage area behind the impoundment. In addition, dam failures can cause significant damage to wetlands and habitat, both aquatic and terrestrial, through the destructive force of the depth and velocity of the flood wave.

Although the following table and chart indicate that the overall Enforcement Coverage Rate for the Dam Safety Program is 46%, all high hazard dams are inspected annually (100%). Inspections are required less frequently than once a year at dams with lower hazard potential.



When the Dam Safety Division set its inspection targets at the start of FY 2008, the Division was responsible for 488 dams. Some of these dams are currently breached and therefore not in operation. The remaining 389 dams are in operation and are classified into three categories according to the consequences of a potential failure. The classifications are:

- High Hazard: loss of life and significant property damage
- Significant Hazard: property/infrastructure damage
- Low Hazard: damage to floodplain and the dam itself

The inspection frequency is based on national guidelines and is responsive to the potential failure consequences as follows:

<b>Hazard Class</b>	<b>Number in Category</b>	<b>Frequency</b>	<b>Targeted inspections/year</b>	<b>FY 2008 Inspections</b>	<b>% of Targeted Inspections</b>
High	68	Annually	68	61	90%
Significant	91	Every 3 years	30	27	90%
Low	230	Every 6 years	38	42	111%
<b>Total</b>	<b>389</b>	--	<b>136</b>	<b>130</b>	<b>96%</b>

The Dam Safety Division inspected 130 out of 136 dams targeted for FY 2008. In other words, the Division inspected 96% of the facilities it should have based on national guidelines. In addition, the Division inspects sites with permits to construct new dams and reinspects existing dams when problems are found during the initial inspection.

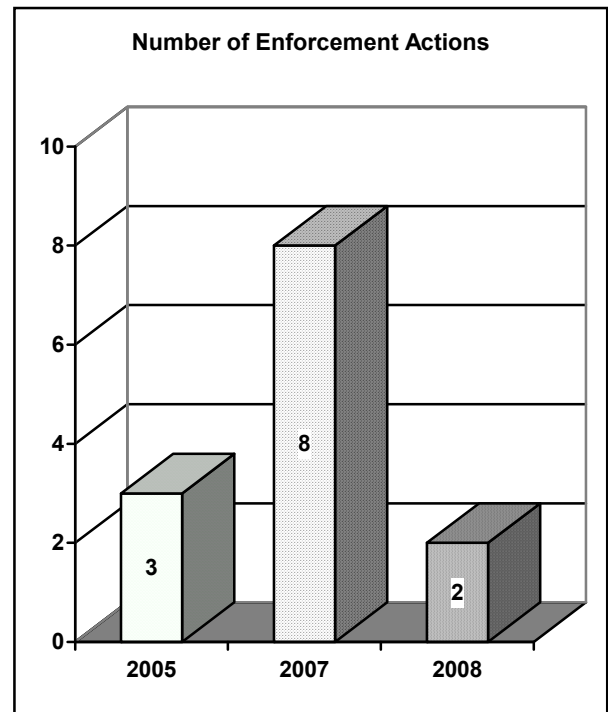
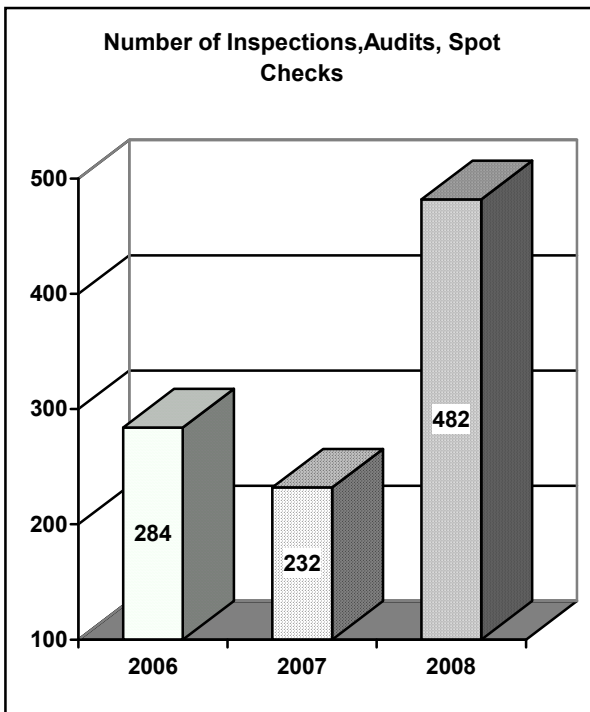
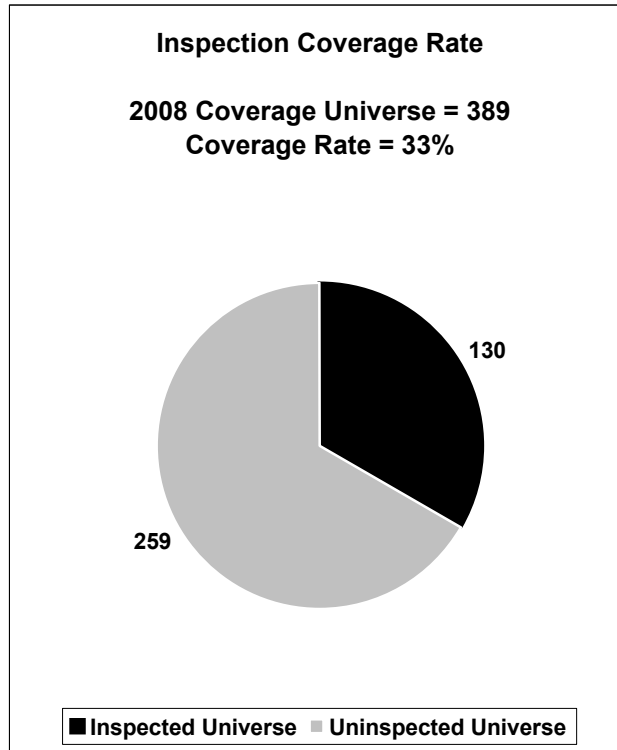
## Waterway Construction – Dam Safety

Performance Measure			TOTAL
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued			34
Number of permits/licenses in effect at fiscal year end			508
<b>OTHER REGULATED SITES/FACILITIES</b>			
Dams in Operation			389
<b>INSPECTIONS</b>			
Number of sites inspected (“inspected” defined as at the site)			130*
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)			0
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)			130*
Number of inspections, spot checks (captures number of compliance activities at sites)			482
Number of audits (captures number of reviews of file/submittals for compliance)			0
Number of inspections, audits, spot checks (sum of the two measures above)			482
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations			16
% of inspected sites/facilities with significant violations			7%
Inspection coverage rate (number of sites inspected/coverage universe)*			33%
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact			16
Number of significant violations based on technical/preventative deficiencies			0
Number of significant violations carried over awaiting disposition from previous fiscal year			9
Total number of significant violations (sum of the three measures above)			25
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved			2
Ongoing			24
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered			127
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	2	0	2
Number of stop work orders	0	0	0
Number of injunctions obtained	0	0	0
Number of penalty and other enforcement actions	0	0	0
Number of referrals to Attorney General for possible criminal action			6
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$0

\* An additional 102 sites were inspected that are not Dams in Operation. These inspected sites include dams under construction and small dams inspected at the request of Soil Conservation Districts.

\*\* Coverage rate above is computed as the total number of sites inspected and dividing that by the Dams in Operation. The Dam Safety Division inspected 96% of the dams slated for inspection in FY 2008. See narrative for more detail about the Dam Safety Division’s approach to inspection frequency.

# Waterway Construction – Dam Safety



# **Wetlands and Waterways Non-Tidal and Floodplain**

## **PURPOSE**

The goal of the Non-Tidal Wetlands Protection Act is to attain no net loss in non-tidal wetland acreage and to strive for a net resource gain in non-tidal wetlands over present conditions. One of the mechanisms established by the Act to accomplish this goal was a comprehensive regulatory program that targeted all of the activities that had a potential to adversely impact non-tidal wetlands. These activities include:

- Removal, excavation, or dredging of soil or materials of any kind;
- Changing existing drainage or flood retention characteristics;
- Disturbance of the water level or water table by drainage, impoundment, or other means;
- Filling, dumping, discharging of material, driving piles, or placing obstructions;
- Grading or removal of material that would alter existing topography; and
- Destruction or removal of plant life.

Through its permit application review process, the Maryland Department of the Environment (MDE) attempts to first prevent wetland loss by requiring the applicant to evaluate project designs that will avoid wetland impacts. Based on this evaluation of alternatives, if MDE finds that impacts are unavoidable, the applicant is required to utilize the project design that will minimize the wetland impacts and provide appropriate mitigation for those impacts.

Mitigation, required for all unavoidable impacts that are authorized by MDE, means that the applicant must replace lost wetland acreage, function and value. This is usually accomplished by requiring the creation of new wetlands, restoration of relic wetlands, enhancement of degraded wetlands or some acceptable combination. MDE may also accept monetary compensation if it is determined that mitigation for non-tidal wetland losses is not a feasible alternative. For example, monetary compensation may be accepted if the size of the non-tidal wetland loss is less than one acre and a suitable mitigation site cannot be identified within the impacted watershed. The payment is deposited into the State's Non-Tidal Wetlands Compensation Fund and used by the State to construct non-tidal wetlands throughout Maryland.

In addition, MDE is also responsible for addressing potential impacts to the State's non-tidal waterways. Authorization is required to conduct any activity that changes the course, current or cross-section of a non-tidal stream or body of water, including the 100-year floodplain. Waterway construction activities are evaluated to ensure that they do not create flooding on upstream or downstream properties. Such

activities are additionally evaluated to ensure protection of aquatic resources, including the maintenance of fish habitat and migration, from degradation.

## **AUTHORITY**

STATE: Environment Article, Title 5, Subtitles 5 and 9; COMAR 26.17 and 26.23

## **PROCESS**

Upon issuance of a permit, license, or authorization the file is transferred to the Compliance Program where an inspection priority is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand. Inspections are performed to verify that the projects are in accordance with the authorization. Because a site may involve non-tidal wetland and/or 100-year floodplain impacts, inspections evaluate whether all the resultant construction impacts are in accordance with the permits. Case by case, this may involve identifying or verifying a non-tidal wetland boundary and documenting findings in the inspection report. At sites where there may be 100-year floodplain impacts, it may be necessary to determine the floodplain boundary before project compliance can be determined.

MDE does not have the statutory authority to collect administrative penalties for this program.

## **SUCCESSSES AND CHALLENGES**

The Wetlands and Waterways Program (Program) administers a statewide program for the management, conservation, and protection of Maryland's tidal wetlands, and non-tidal wetlands and waterways, including the 100-year floodplain. Due to a continuing reduction of personnel, the Program's ability to process and evaluate applications in a thorough and timely manner has declined. Since 1991, the Program's workforce has declined by 40%.

While the strength of the Program's work force has declined over time, the demands placed on it have increased over time. Although these demands can be attributed to a variety of factors, the following aspects have had major impacts:

- Elimination of statutory exemption for activities in the Chesapeake Bay Critical Area;
- Addition of Water Quality Certification responsibilities into the permit application review process due to the Department of the Environment/Department of Natural Resources reorganization;
- Elimination of regulatory exemption for small headwater streams;

- Increase in administrative responsibilities due to the Maryland State Programmatic General Permit;
- Increase in the number of permit applications;
- Increase in the complexity of projects and the need for multi-agency review;
- Increase in the number of pre-application meetings, public informational hearings, and contested case hearings;
- Increase in the number of pre-application meetings, public informational hearings, and contested case hearings;
- Increase in the number of permittee and programmatic mitigation sites;
- Outdated tidal wetland regulatory maps, which require public notice and a public informational hearing as part of the revision process;
- Advancements in the field of bio-engineering, including the evolution of stream restoration techniques; and,
- Decrease in the ability to provide planning, technical assistance, and public outreach.

The application fees newly authorized for FY 2009 will be placed in the Wetlands and Waterways Program Fund. Proceeds in the Fund are expected to positively impact the Wetlands and Waterways Program's ability to process applications and for the Compliance Program to inspect sites and enforce permit requirements.

On average, the Program annually authorizes 39.4 acres of impacts to non-tidal wetlands. The annual average of non-tidal wetlands mitigated is 67.7 acres.

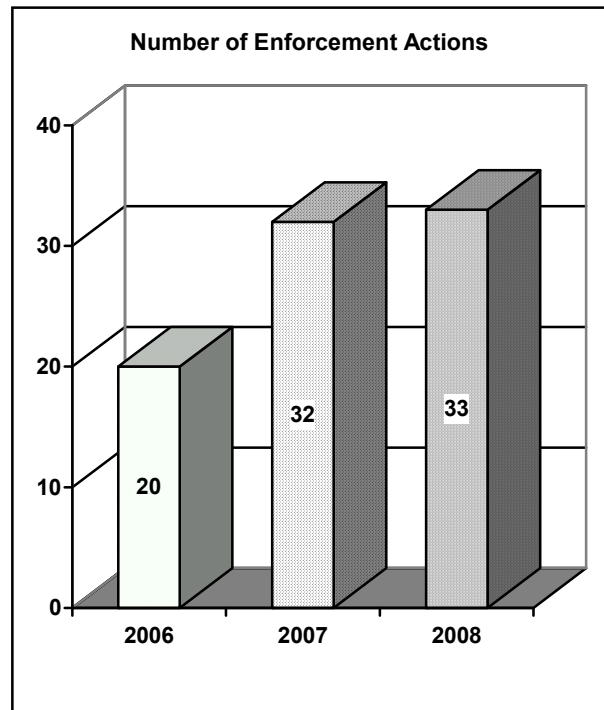
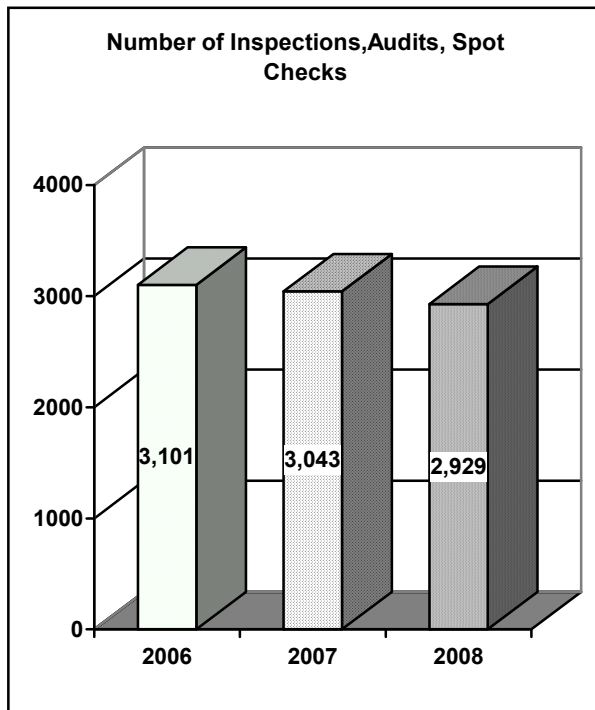
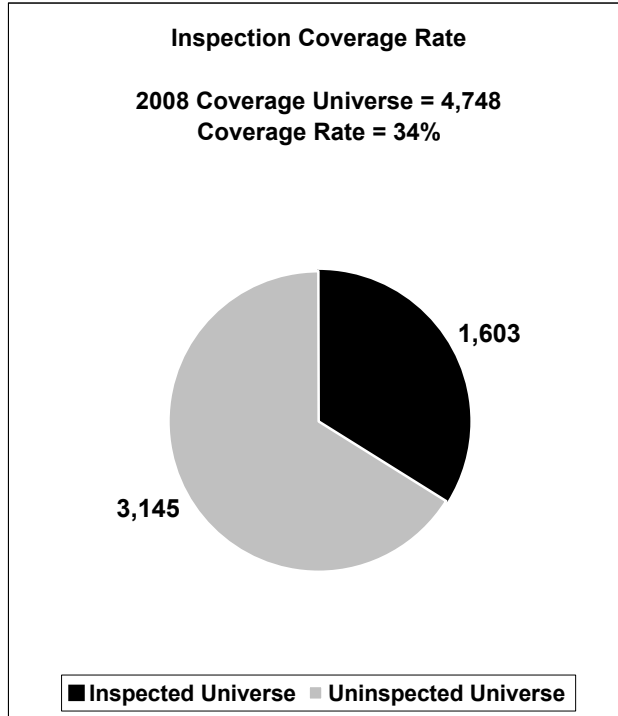
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## Wetlands and Waterways – Non-tidal and Floodplains

Performance Measure	TOTAL																								
<b>PERMITTED SITES/FACILITIES</b>																									
Number of permits/licenses issued	850																								
Number of permits/licenses in effect at fiscal year end	4,748																								
<b>INSPECTIONS</b>																									
Number of sites inspected (“inspected” defined as at the site)	1,603																								
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0																								
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	1,603																								
Number of inspections, spot checks (captures number of compliance activities at sites)	2,929																								
Number of audits (captures number of reviews of file/submittals for compliance)	0																								
Number of inspections, audits, spot checks (sum of the two measures above)	2,929																								
<b>COMPLIANCE PROFILE</b>																									
Number of inspected sites/facilities with significant violations	26																								
% of inspected sites/facilities with significant violations	2%																								
Inspection coverage rate (number of sites inspected/coverage universe)	34%																								
<b>SIGNIFICANT VIOLATIONS</b>																									
Number of significant violations involving environmental or health impact	20																								
Number of significant violations based on technical/preventative deficiencies	6																								
Number of significant violations carried over awaiting disposition from previous fiscal year	26																								
Total number of significant violations (sum of the three measures above)	52																								
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>																									
Resolved	33																								
Ongoing	20																								
<b>ENFORCEMENT ACTIONS</b>																									
Number of compliance assistance rendered	80																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 20%; text-align: center;">Administrative</th> <th style="width: 20%; text-align: center;">Civil/Judicial</th> <th style="width: 10%; text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td>Number of show cause, remedial, corrective actions issued</td> <td style="text-align: center;">5</td> <td style="text-align: center;">3</td> <td style="text-align: center;">8</td> </tr> <tr> <td>Number of stop work orders</td> <td style="text-align: center;">4</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4</td> </tr> <tr> <td>Number of injunctions obtained</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of penalty and other enforcement actions</td> <td style="text-align: center;">21</td> <td style="text-align: center;">0</td> <td style="text-align: center;">21</td> </tr> <tr> <td>Number of referrals to Attorney General for possible criminal action</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		Administrative	Civil/Judicial	Total	Number of show cause, remedial, corrective actions issued	5	3	8	Number of stop work orders	4	0	4	Number of injunctions obtained	0	0	0	Number of penalty and other enforcement actions	21	0	21	Number of referrals to Attorney General for possible criminal action			0
	Administrative	Civil/Judicial	Total																						
Number of show cause, remedial, corrective actions issued	5	3	8																						
Number of stop work orders	4	0	4																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	21	0	21																						
Number of referrals to Attorney General for possible criminal action			0																						
Number of show cause, remedial, corrective actions issued	5	3	8																						
Number of stop work orders	4	0	4																						
Number of injunctions obtained	0	0	0																						
Number of penalty and other enforcement actions	21	0	21																						
Number of referrals to Attorney General for possible criminal action			0																						
<b>PENALTIES</b>																									
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$13,500																						



# Wetlands and Waterways – Non-Tidal and Floodplain



# Wetlands - Tidal

## PURPOSE

Tidal wetlands are open water and vegetated estuarine systems affected by the rise and fall of the tide. In 1970, the Maryland General Assembly recognized that many tidal wetlands had been lost or despoiled throughout the State by unregulated activities such as dredging, dumping and filling, and that remaining tidal wetlands were in jeopardy. The enactment of the Wetlands and Riparian Rights Act established a comprehensive plan to restrict and regulate activities conducted in tidal wetlands in order to preserve and protect them. The Act states that these unregulated activities will "affect adversely, if not eliminate entirely, the value of the wetlands as a source of nutrients to finfish, crustacea, and shellfish of significant economic value" and will "destroy the wetlands as a habitat for plants and animals of significant economic value and eliminate or substantially reduce marine commerce, recreation, and aesthetic enjoyment". The Act also declares: "It is the policy of the State, taking into account varying ecological, economic, developmental, recreational, and aesthetic values, to preserve the wetlands and prevent their despoliation and destruction."

Prior to enactment of the Wetlands and Riparian Rights Act, over 1,000 acres of wetlands were being destroyed throughout tidewater Maryland every year. Today, through its regulatory program, the Maryland Department of the Environment (MDE) strives for a net resource gain over present conditions. Tidal wetlands are managed to provide reasonable use while furnishing essential resource protection. Licenses are issued for activities conducted in State wetlands by the Maryland Board of Public Works (BPW), which is comprised of the Governor, the Comptroller of the Treasury, and the State Treasurer, based on recommendations from MDE. Permits are issued directly by MDE for activities conducted in private wetlands. A license or permit must be obtained before a person dredges, fills or otherwise alters a tidal wetland.

The following projects require authorization from MDE if conducted in tidal wetlands: dredging, filling; shoreline protection projects, including marsh creation, stone revetments and bulkheads; piers; boat ramps; jetties, groins and breakwaters; cable crossings; storm drain systems; and similar structures. The regulatory process for tidal wetlands is similar to that described for non-tidal wetlands and waterways. Applications are evaluated to insure that appropriate steps are taken to first avoid, and then minimize impacts to tidal wetlands. Mitigation is required for unavoidable impacts, with the amount of mitigation based on resources impacted; type of mitigation proposed; and location of mitigation. In-kind and on-site mitigation is preferred and required wherever appropriate site conditions exist.

## AUTHORITY

STATE: Environmental Article Title 16; Subtitle 2; COMAR 26.24

## **PROCESS**

Upon issuance of a license/permit/authorization the file is transferred to the Compliance Program where an inspection priority is assigned. The inspectors then schedule routine inspections of the facilities adhering to the assigned priority as much as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand. Inspections typically verify that the work being performed is in accordance with the work authorized and that all license or permit conditions are in compliance.

MDE does not have the statutory authority to collect administrative penalties for this program.

## **SUCCESSSES AND CHALLENGES**

The Wetlands and Waterways Program (Program) administers a statewide program for the management, conservation, and protection of Maryland's tidal wetlands, and nontidal wetlands and waterways, including the 100-year floodplain. Due to a continuing reduction of personnel, the Program's ability to process and evaluate applications in a thorough and timely manner has declined. Since 1991, the Program's workforce has declined by 40%.

While the strength of the Program's work force has declined over time, the demands placed on it have increased over time. Although these demands can be attributed to a variety of factors, the following aspects have had major impacts:

- Elimination of statutory exemption for activities in the Chesapeake Bay Critical Area;
- Addition of Water Quality Certification responsibilities into the permit application review process due to the Department of the Environment/Department of Natural Resources reorganization;
- Elimination of regulatory exemption for small headwater streams;
- Increase in administrative responsibilities due to the Maryland State Programmatic General Permit;
- Increase in the number of permit applications;
- Increase in the complexity of projects and the need for multi-agency review;
- Increase in the number of pre-application meetings, public informational hearings, and contested case hearings;
- Increase in the number of pre-application meetings, public informational hearings, and contested case hearings;
- Increase in the number of permittee and programmatic mitigation sites;
- Outdated tidal wetland regulatory maps, which require public notice and a public informational hearing as part of the revision process;
- Advancements in the field of bio-engineering, including the evolution of stream restoration techniques; and,
- Decrease in the ability to provide planning, technical assistance, and public outreach.

The application fees newly authorized for FY 2009 will be placed in the Wetlands and Waterways Program Fund. Proceeds in the Fund are expected to positively impact the Wetlands and Waterways Program's ability to process applications and for the Compliance Program to inspect sites and enforce permit requirements.

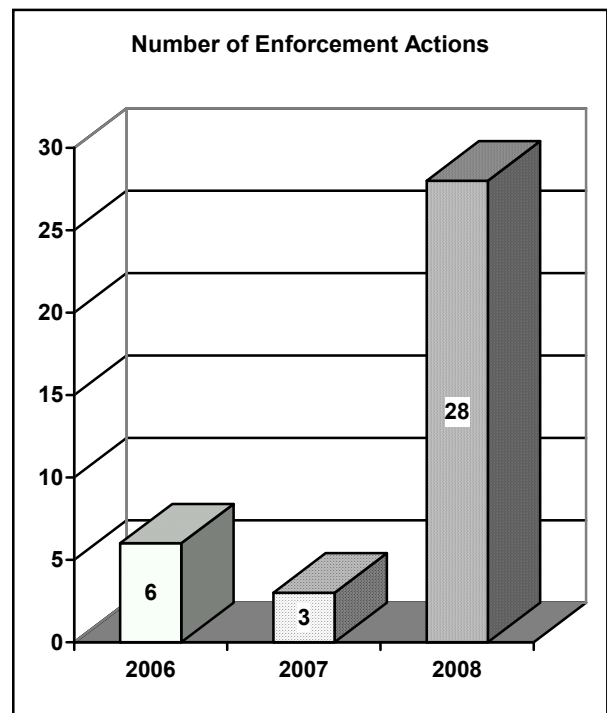
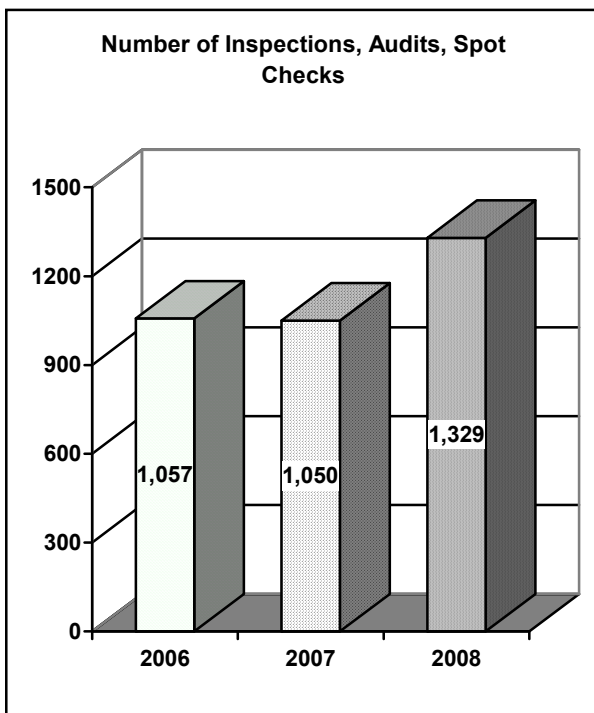
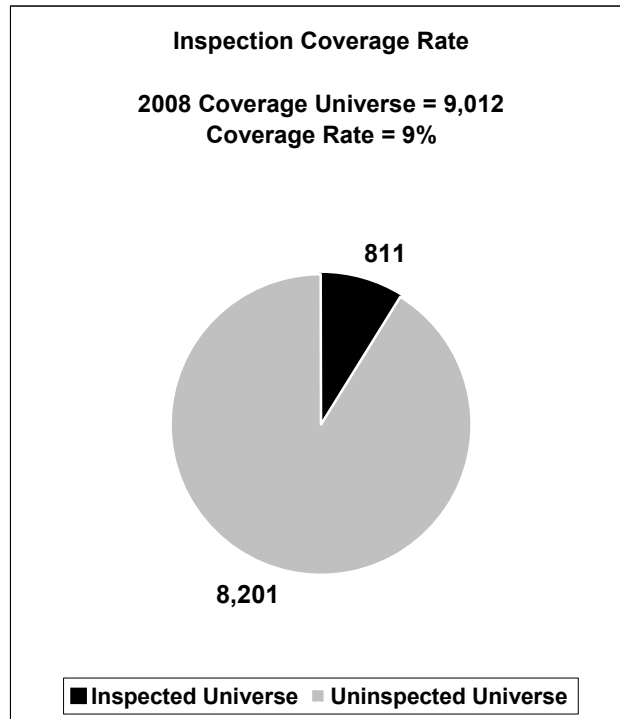
On average, the Program annually authorizes 1.37 acres of impacts to tidal vegetated wetlands. The annual average of tidal wetlands mitigated and established through the regulatory program is 13.18 acres. This represents a 9.93% gain in tidal wetlands per year.

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## Wetlands - Tidal

Performance Measure	TOTAL		
<b>PERMITTED SITES/FACILITIES</b>			
Number of permits/licenses issued	1,501		
Number of permits/licenses in effect at fiscal year end	9,012		
<b>INSPECTIONS</b>			
Number of sites inspected ("inspected" defined as at the site)	811		
Number of sites audited but not inspected (places where MDE reviewed submittals but did not go to the site)	0		
Number of sites evaluated for compliance (sum of the two measures above, same as #11 on the prior charts)	811		
Number of inspections, spot checks (captures number of compliance activities at sites)	1,329		
Number of audits (captures number of reviews of file/submittals for compliance)	0		
Number of inspections, audits, spot checks (sum of the two measures above)	1,329		
<b>COMPLIANCE PROFILE</b>			
Number of inspected sites/facilities with significant violations	29		
% of inspected sites/facilities with significant violations	4%		
Inspection coverage rate (number of sites inspected/coverage universe)	9%		
<b>SIGNIFICANT VIOLATIONS</b>			
Number of significant violations involving environmental or health impact	28		
Number of significant violations based on technical/preventative deficiencies	2		
Number of significant violations carried over awaiting disposition from previous fiscal year	17		
Total number of significant violations (sum of the three measures above)	47		
<b>DISPOSITION OF SIGNIFICANT VIOLATIONS</b>			
Resolved	16		
Ongoing	31		
<b>ENFORCEMENT ACTIONS</b>			
Number of compliance assistance rendered	46		
	Administrative	Civil/Judicial	Total
Number of show cause, remedial, corrective actions issued	3	3	6
Number of stop work orders	9	0	9
Number of injunctions obtained	0	4	4
Number of penalty and other enforcement actions	9	0	9
Number of referrals to Attorney General for possible criminal action			0
<b>PENALTIES</b>			
Amount of administrative or civil penalties obtained (\$ collected in FY)			\$64,703

# Wetlands – Tidal



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OFFICE OF THE ATTORNEY GENERAL  
ENVIRONMENTAL CRIMES UNIT

## **Environmental Crimes Unit Executive Summary**

The Environmental Crimes Unit of the Criminal Division of the Maryland Attorney General's Office (ECU) investigates and prosecutes environmental crime in Maryland. Typically, criminal prosecution is a last resort used for the worst, most wanton or most recalcitrant of environmental offenders. During FY 2008, the ECU opened seventy-seven criminal investigations and filed charges in twenty of those investigations. Of the seventy-seven investigations, twenty-seven were the result of referrals from MDE administrators. Fourteen prosecutions were completed during the fiscal year, resulting in jail terms totaling 6.5 years, probation terms totaling 28.5 years and imposed fines totaling \$191,229.39, in addition to community work service and other penalties.

## **Environmental Crimes Unit**

### **PURPOSE**

The Attorney General's Environmental Crimes Unit (ECU) investigates and prosecutes environmental crimes in Maryland. ECU is a criminal investigation and prosecution unit under the direction of the Criminal Division of the Attorney General's Office. ECU utilizes the prosecutorial authority of the Attorney General and the investigative skills and law enforcement authority of the Maryland State Police and Baltimore City Police Departments to investigate environmental violations and, when appropriate, file criminal charges against both corporate and individual offenders. Criminal enforcement is an effective and necessary tool in the compliance effort because it ensures that the most serious and recalcitrant offenders are subjected to criminal sanctions. This is important to protect public health and ensure a level playing field for those that do comply with Maryland's environmental laws.

ECU has jurisdiction throughout the State. ECU's statewide multi-media responsibilities are currently carried out with a decreased staff that numbered four at the end of the fiscal year, which included 2 investigators and 2 prosecutors who are directly involved in the criminal investigation and enforcement work of the unit. ECU operates from the perspective that criminal enforcement is often the enforcement choice most appropriate to a situation. It is often applied to the most recalcitrant offenders, where the prospect of imprisonment and/or being stigmatized by a criminal conviction is necessary to protect public health and the quality of Maryland's air, land and water resources.

### **AUTHORITY**

STATE: The General Assembly, through the *Environment Article*, provides the Attorney General exclusive or concurrent authority to prosecute criminal violations stemming from investigations involving water pollution, air

pollution and hazardous waste. The Attorney General also has authority under Article V, Section 3 of the Constitution of Maryland to investigate and prosecute other crimes as directed by the Governor. Historically the Governor has granted ECU continuing authority to investigate and prosecute violations of Maryland's Litter Control Law (§10-110 of the Criminal Law Article), and other broadly defined related offenses. ECU seeks the Governor's authorization to investigate and prosecute other violations not within the *Environment Article* on a case-by-case basis.

## **PROCESS**

ECU typically receives complaints about possible criminal activity from multiple sources: citizen complaints, other governmental and law enforcement agencies, the MDE Administrations, or from their own initiatives. Complaints are initially reviewed by an ECU prosecutor to assess the presence or from their own initiative of factors indicating possible criminal intent. Complaints with the potential for prosecution are then assigned to ECU investigators to conduct full investigations for the purpose of gathering sufficient evidence to accurately assess whether the filing of criminal charges is warranted. If charges are filed or indictments returned by grand juries, ECU prosecutors and investigators work the case through trial and any appeals.

## **SUCCESSSES AND CHALLENGES**

In FY 2008, ECU successfully assisted MDE in furthering its compliance and enforcement goals by conducting seventy-seven criminal investigations and filing charges in twenty of those investigations. Of the seventy-seven investigations, twenty-seven were the result of referrals from MDE administrations. Fourteen prosecutions were completed during the fiscal year, resulting in jail terms totaling 6.5 years, probation terms totaling 28.5 years and imposed fines totaling \$191,229.39, in addition to community work service and other penalties.

A continuing challenge is to restore investigative resources at least to levels experienced in the 1990s. Sworn law enforcement personnel with statewide authority assigned to this Unit have been reduced by 75% over the past eight years (FY 1999 - FY 2008). In FY 2008, MSP remained limited to a single trooper assigned to the Unit. MDE's financial commitment to ECU remained strong in this fiscal year.

There is a desire for the Unit to be able to be more proactive in the pursuit of industries and businesses, as well as individuals, who are often found repeating the same dangerous environmental crimes. In order to be able to be effective in this effort, and to bring sufficient results, it will be necessary to be fully staffed with both attorneys and investigators. The cases can be complex and involved, especially in a proactive form, and without the proper staffing, results will be limited. The Unit continues to lack in staffing for both attorneys and investigators to achieve its' goals.

**CHART 1** shows the number of investigations conducted by ECU during FY 2008 and the source of the complaints leading to the investigations.

FY '08 – INVESTIGATIONS OPENED		
SOURCE OF COMPLAINTS		INVESTIGATIONS OPENED
<b>M D E</b>	ARMA	3
	WAS	9
	WMA	10
	ERD	5
MDE TOTAL		27
OTHER SOURCES		50
<b>TOTAL</b>		<b>77</b>

The MDE administrations, ARMA, WAS, and WMA, have traditional enforcement programs. The Emergency Response Division often responds to environmental emergencies that may be caused by criminal activities.

**CHART 2** shows the number of cases prosecuted by ECU during FY 2008. The chart distinguishes between the number of cases where prosecution was initiated during FY 2008 and the number of cases concluded during FY 2008. In prosecuting criminal cases, it is not uncommon for charges in a case to be filed during one fiscal year and concluded during a subsequent fiscal year. Charges may also be formally filed in a different fiscal year than when the investigation was opened by ECU.

FY '08 – PROSECUTIONS			
SOURCE OF COMPLAINTS		NO. OF CASES FILED	NO. OF CASES CONCLUDED
<b>M D E</b>	ARMA	1	1
	WAS	3	1
	WMA	4	4
	ERD	1	1
	OS	1	1
MDE TOTAL		10	8
OTHER SOURCES		10	6
<b>TOTAL</b>		<b>20</b>	<b>14</b>

**CHART 3** The Report of Enforcement Activities mandated by §1-301(d) of the Environment Article requires reporting of information for criminal cases prosecuted under specified subtitles of the Environment Article. The chart reflects all ECU activity for the fiscal year.

FY '08 – YEARLY TOTALS	Title 4	Title 5	Title 8	Title 9	Title 13	Title 16		Crim. Law		TOTAL
			Subtitle 2	Subtitle 3		Subtitle 2	Subtitle 3	Subtitle 7	Subtitle 10	
Number of Criminal Cases Concluded in Court	4	1	1	2	2	1	1	1	1	14
Number of Convictions Obtained	4	1	1	2	0	1	1	1	1	12
Imprisonment Time Ordered (Years)	2.5	1	1	1	0	0	0	1	0	6.5
Imprisonment Time To Be Served (Years)	0	0	0	0	0	0	0	0.01	0	0.01
Probation Ordered (Years)	7	3	0.5	6	0	1	1	5	5	28.5
Community Service Ordered (Hours)	72	0	0	50	0	0	0	0	0	122
Criminal Fines, Restitution & Clean-Up Costs Imposed	5,500	39,229.39	500	5,000	0	10,000	10,000	116,000	5,000	191,229.39
Criminal Fines, Restitution & Clean-Up Costs To Be Paid	1,500	39,229.39	500	5,000	0	10,000	10,000	116,000	5,000	187,229.39

\*Title 2 – Ambient Air Quality Control

Title 4 – Water Management/Waste Mgmt.

Title 5 – Water Resources

\*Title 6 – Toxic, Carcinogenic & Flammable Substances

\* Title 7 – Hazardous Materials & Hazardous Substances

Title 8 – Radiation

Note – A single case may involve charges from any number of the various titles.

\* No cases under this title for Fiscal Year 2008

Title 9 – Water, Ice, and Sanitary Facilities

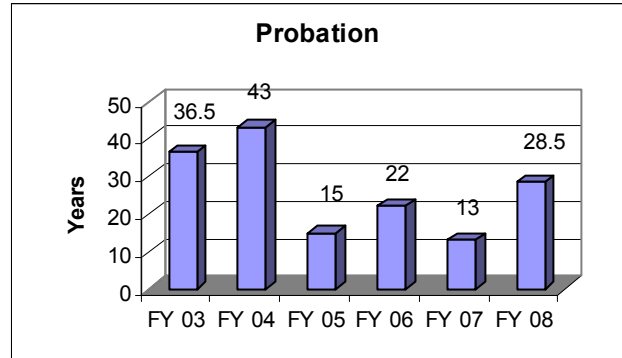
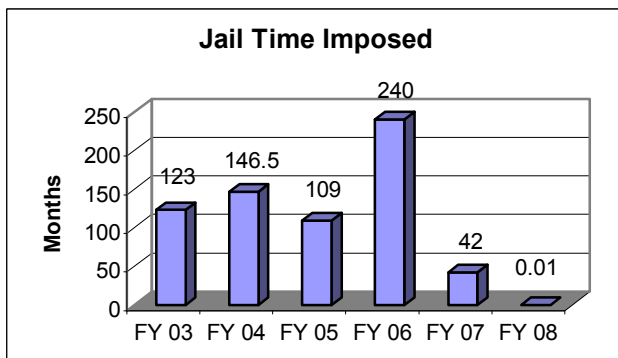
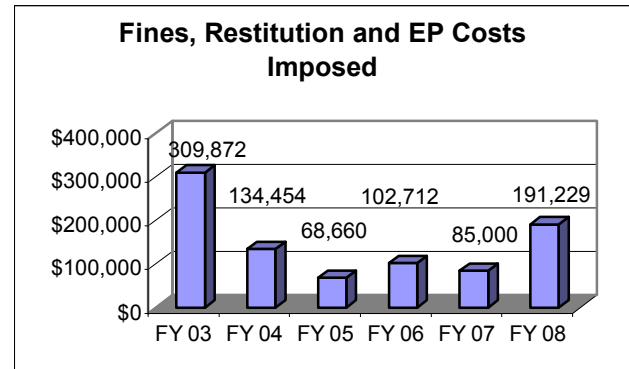
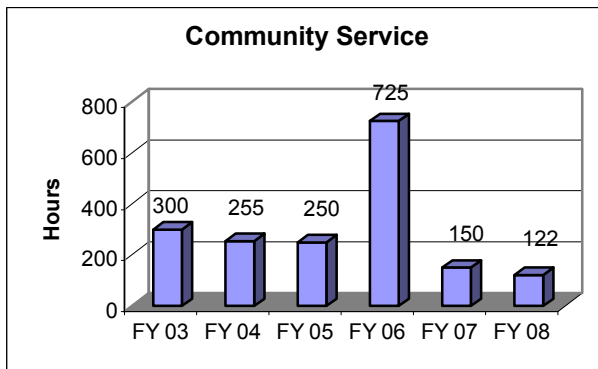
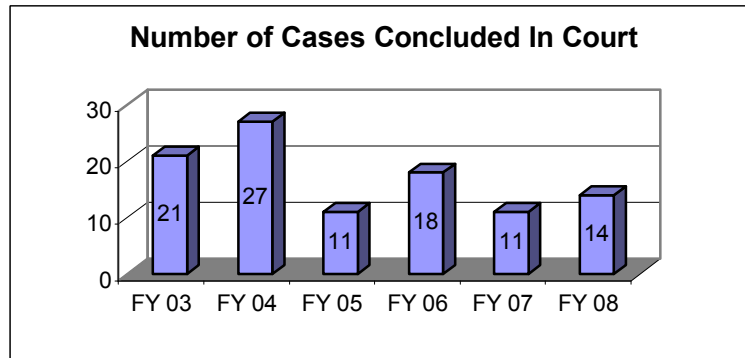
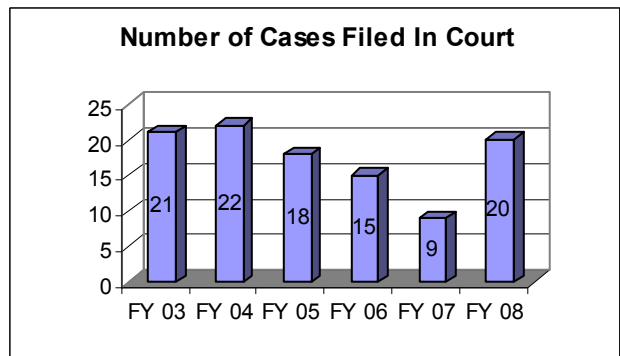
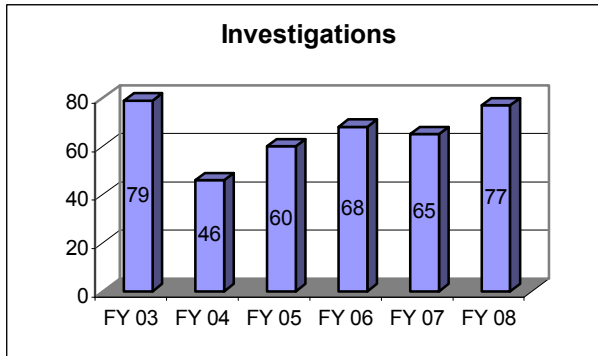
Title 13 – Well Drillers

Title 16 – Tidal Wetlands

Criminal Law Article (§10-110) – Litter Control Law

Criminal Law Article (Subtitle 7) - Theft

# Environmental Crimes Unit



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## **SECTION THREE - APPENDICES**



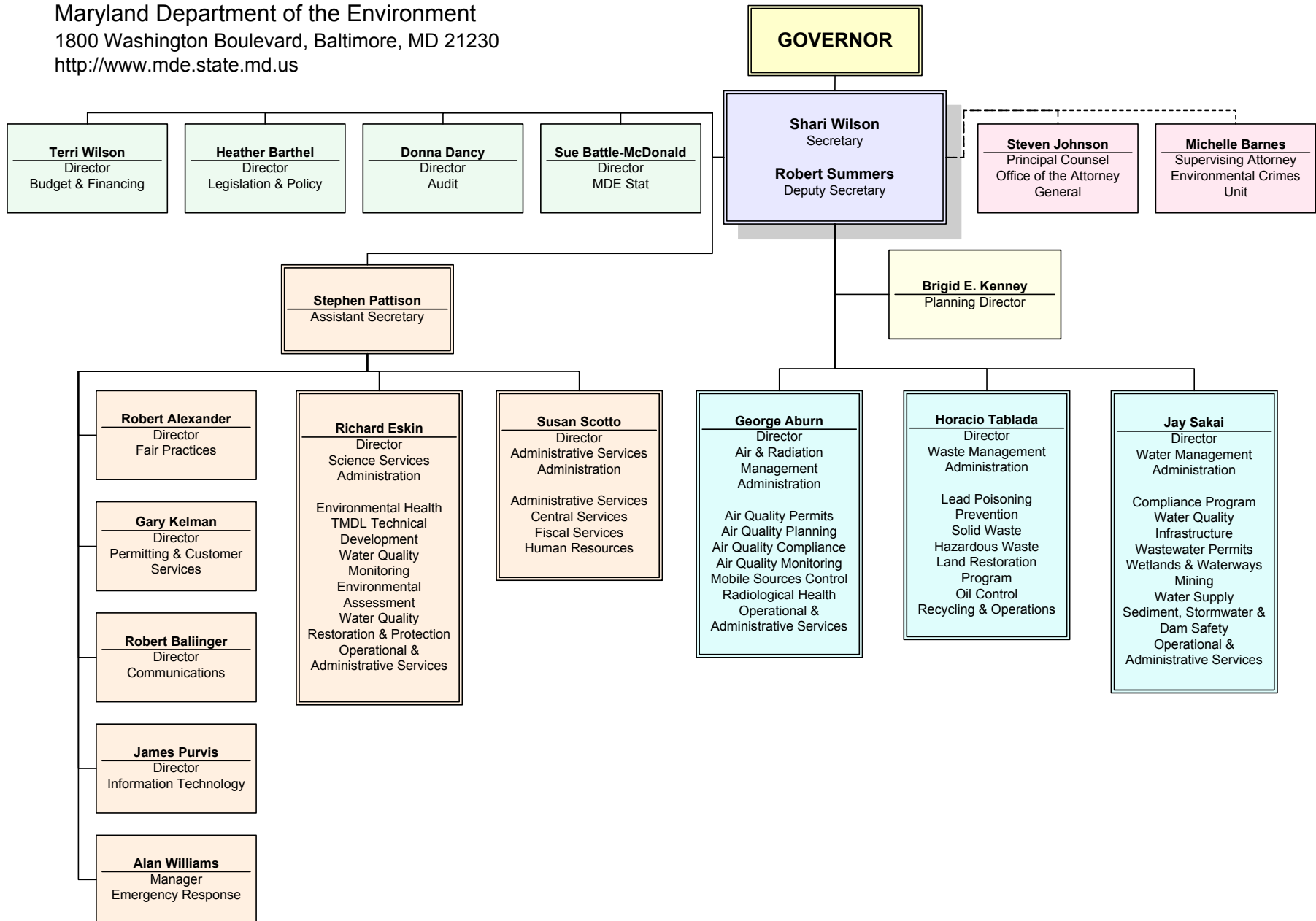
# APPENDIX I

## MDE ORGANIZATION

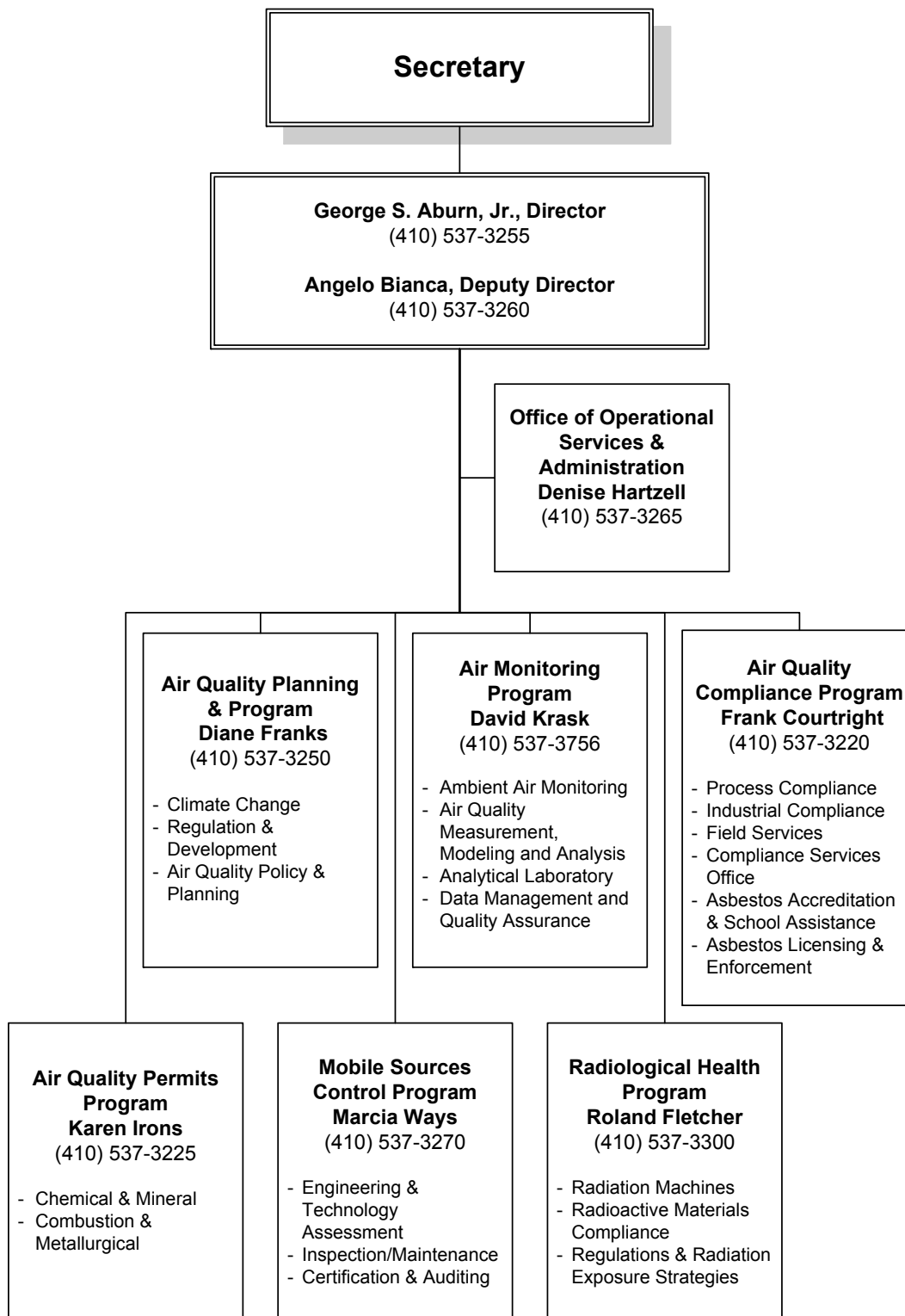
### 2008 ANNUAL ENFORCEMENT AND COMPLIANCE REPORT WORK GROUP

Lorraine Anderson, Air and Radiation Management Admin (Asbestos)  
Tom Boone, Water Management Administration  
Jack Bowen, Water Management Administration  
Frank Courtright, Air and Radiation Management Administration  
Laramie Daniel, Air and Radiation Management Administration  
Edward Dexter, Waste Management Administration (Solid Waste)  
Andrew Gosden, Deputy Director, Permitting and Customer Services  
John Hill, Science Services Administration  
Rick Johnson, Waste Management Administration (Hazardous Waste)  
Gary Kelman, Director, Permitting and Customer Services  
Mike Kurman, Air and Radiation Management Admin (Radiation)  
Ray Manley, Air and Radiation Management Administration (Radiation)  
Herb Meade, Waste Management Administration (Oil Control)  
Hilary Miller, Waste Management Administration  
Nancy Reilman, Water Management Administration (Water Supply)  
Jesse Salter, Water Management Administration

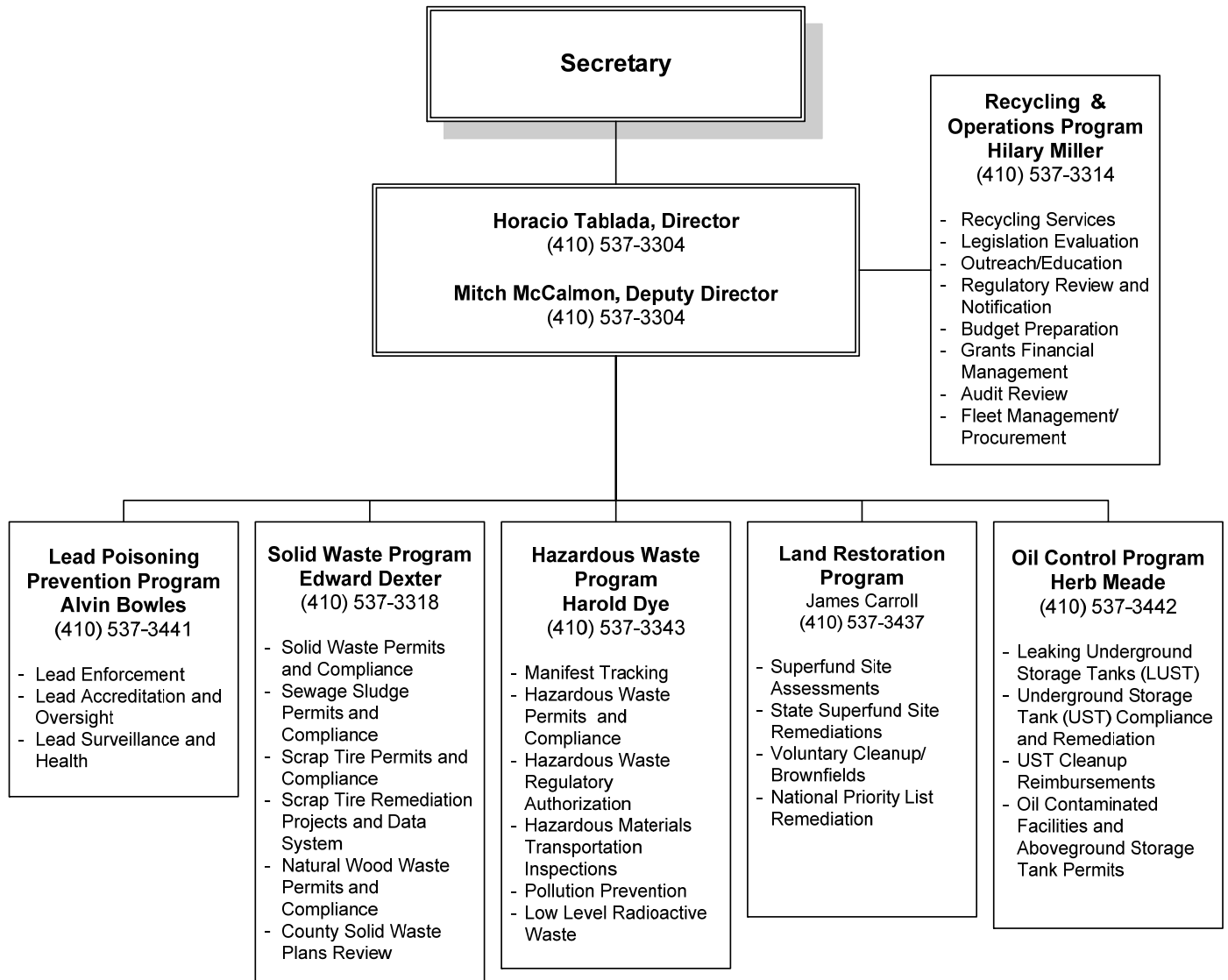
Maryland Department of the Environment  
 1800 Washington Boulevard, Baltimore, MD 21230  
<http://www.mde.state.md.us>



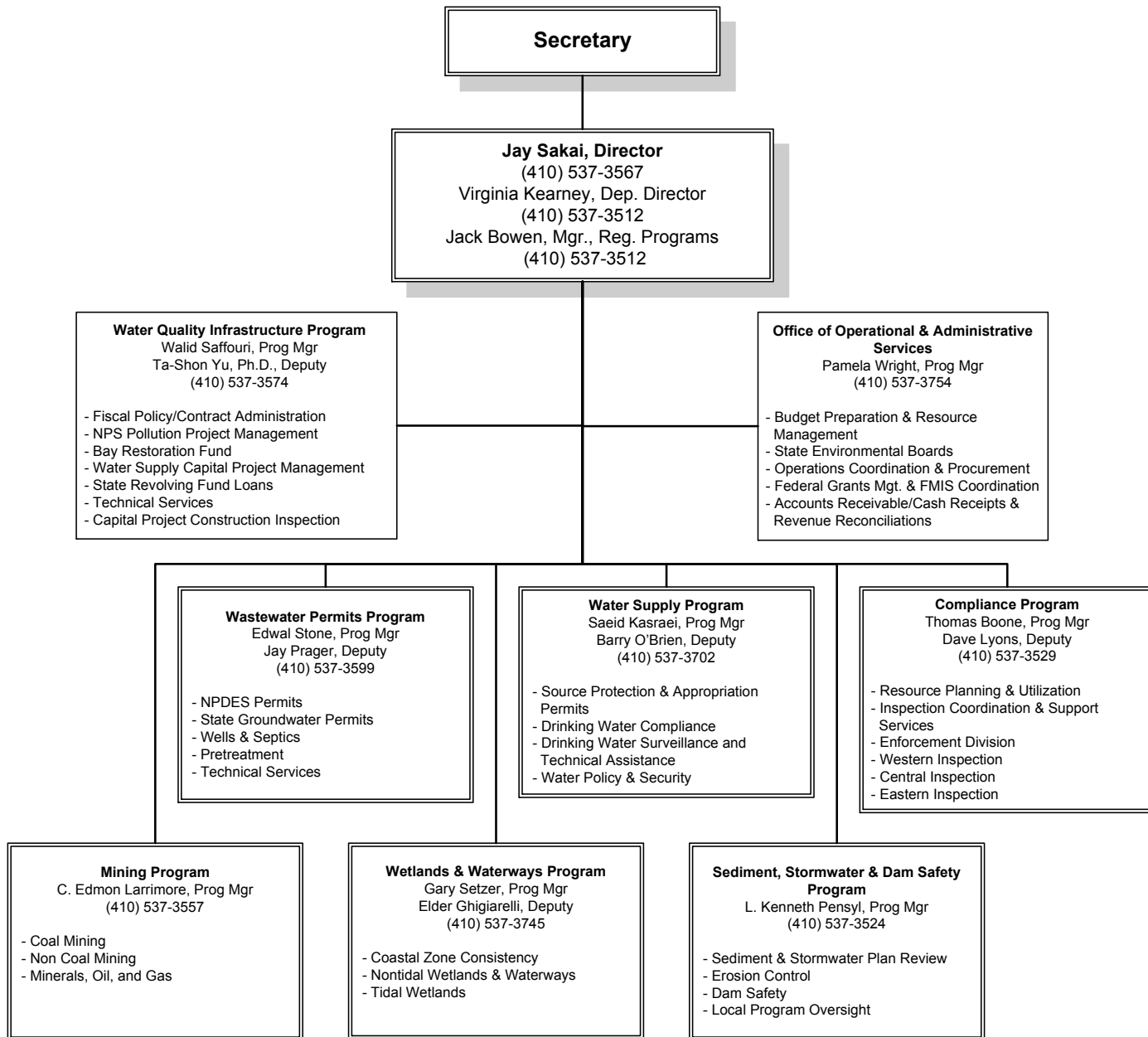
# AIR AND RADIATION MANAGEMENT ADMINISTRATION



# WASTE MANAGEMENT ADMINISTRATION



# WATER MANAGEMENT ADMINISTRATION



## **PROGRAMS INCLUDED IN ANNUAL ENFORCEMENT AND COMPLIANCE REPORT**

- Ambient Air Quality Control
  - High Impact Facilities
  - Low Impact Facilities
- Air Quality Complaints
- Asbestos
- Radiological Health Program
  - Radiation Machines Program
  - Radioactive Materials Licensing and Compliance
- Environmental Restoration and Redevelopment
- Hazardous Waste
- Lead Poisoning Prevention
- Oil Aboveground Facilities
- Oil Pollution Remediation Activities
- Oil Underground Storage Tank Systems
- Refuse Disposal
- Scrap Tires
- Sewage Sludge Utilization
- Natural Wood Waste Recycling
- Discharges – Groundwater (Municipal and Industrial)
- Discharges – Surface Water (Municipal and Industrial) State and NPDES Permits
- Discharges – Pretreatment (Industrial)
- Stormwater Management and Erosion and Sediment Control for Construction Activity
- Mining – Coal
- Mining – Non-Coal
- Oil and Gas Exploration and Production
- Water Supply Program – Community and Non-transient Non-community Water Systems
- Water Supply Program – Transient Non-community Water Systems
- Water Supply Program – Laboratory Certification
- Water Supply Program – Water Appropriation and Use
- Water Supply and Sewerage Construction
- Waterway Construction – Dam Safety
- Wetlands and Waterways – Non-tidal and Floodplain
- Wetlands – Tidal
- Environmental Crimes Unit

## APPENDIX II LAWS AND POLICIES

### **§1-301(d) Report on Enforcement Activities.**

(1) (i) On or before October 1 of each year, the Secretary, in consultation with the Attorney General, shall submit to the Legislative Policy Committee, in accordance with §2-1246 of the State Government Article, a report on enforcement activities conducted by the Department during the previous fiscal year.

(ii) The report shall:

1. Include the information required under this subsection and any additional information concerning environmental enforcement that the Secretary decides to provide;

2. Be available to the public as soon as it is forwarded to the Legislative Policy Committee;

3. Include information on the total number of permits and licenses issued by or filed with the Department at any time and still in effect as of the last date of the fiscal year immediately preceding the date on which the report is filed;

4. Include information concerning specific enforcement actions taken with respect to the permits and licenses during the immediately preceding fiscal year; and

5. Include information on the type and number of contacts or consultations with businesses concerning compliance with State environmental laws.

(iii) The information required in the report under paragraph (3) of this subsection shall be organized according to each program specified.

(2) The report shall state the total amount of money as a result of enforcement actions, as of the end of the immediately preceding fiscal year:

(i) Deposited in the Maryland Clean Air Fund;

(ii) Deposited in the Maryland Oil Disaster Containment, Clean-up and Contingency Fund;

(iii) Deposited in the Nontidal Wetland Compensation Fund;

(iv) Deposited in the Maryland Hazardous Substance Control Fund;

(v) Recovered by the Department from responsible parties in accordance with §7-221 of this article;

(vi) Deposited in the Sewage Sludge Utilization Fund; and

(vii) Deposited in the Maryland Clean Water Fund.

(3)(i) The report shall include the information specified in subparagraphs (ii), (iii), (iv), and (v) of this paragraph for each of the following programs in the Department:

1. Ambient air quality control under Title 2, Subtitle 4 of this article;

2. Oil pollution under Title 4, Subtitle 4 of this article;

3. Nontidal wetlands under Title 5, Subtitle 9 of this article;

4. Asbestos under Title 6, Subtitle 4 of this article;

5. Lead paint under Title 6, Subtitle 8 of this article;

6. Controlled hazardous substances under Title 7, Subtitle 2 of this article;

7. Water supply, sewerage systems, and refuse disposal systems under Title 9, Subtitle 2 of this article;

8. Water discharges under Title 9, Subtitle 3 of this article;

9. Drinking water under Title 9, Subtitle 4 of this article; and

10. Wetlands under Title 16, Subtitle 2 of this article.

(ii) For each of the programs set forth in subparagraph (i) of this paragraph, the Department shall provide the total number or amount of:

1. Final permits or licenses issued to a person or facility, as appropriate, and not surrendered, suspended or revoked;

2. Inspections, audits, or spot checks performed at facilities permitted;

3. Injunctions obtained;

4. Show cause, remedial, and corrective action orders issued;

5. Stop work orders;

6. Administrative or civil penalties obtained;

7. Criminal actions charged, convictions obtained, imprisonment time ordered, and criminal fines received; and

8. Any other actions taken by the Department to enforce the requirements of the applicable environmental program, including:

A. Notices of the removal or encapsulation of asbestos under §6-414.1 of this article; and

B. Actions enforcing user charges against industrial users under §9-341 of this article.

(iii) In addition to the information required in subparagraph (ii) of this paragraph, for the Lead Paint Program under Title 6, Subtitle 8 of this article, the report shall include the total number or amount of:

1. Affected properties registered; and

2. Inspectors or other persons accredited by the Department, for whom accreditation has not been surrendered, suspended, or revoked.

(iv) In addition to the information required in subparagraph (ii) of this paragraph, for the Controlled Hazardous Substances Program under Title 7, Subtitle 2 of this article, the report shall include the following lists, updated to reflect the most recent information available for the immediately preceding fiscal year:

1. Possible controlled hazardous substance sites compiled in accordance with §7-223 (a) of this article.

2. Proposed sites listed in accordance with §7-223 (c) of this article at which the Department intends to conduct preliminary site assessments; and

3. Hazardous waste sites in the disposal site registry compiled in accordance with §7-223 (f) of this article;

(v) In addition to the information required in subparagraph (ii) of this paragraph, for the Drinking Water Program, the report shall include the total number of:

1. Actions to prevent public water system contamination or to respond to a Safe Drinking Water Act emergency under §§9-405 and 9-406 of this article; and

2. Notices given to the public by public water systems under §9-410 of this article.



## **Bills Passed During 2008 Legislative Session Affecting Enforcement and Penalties**

### **HB 62 - Lead-Containing Children's Products – Prohibition**

The bill defines children's lead containing product, as well as listing products included and exempted. MDE may add to the list of items listed as "product" under this Subtitle in regulation if it wishes. Among the products exempted in the bill are electronic devices unless the Secretary makes the decision to include a particular electronic device that is lead-containing if it is determined that during the normal use of the product there is a significant chance the child could be exposed to the lead contained in the product.

Manufacturers of children's products must have the products tested using an independent third party testing entity. MDE must either establish or recognize an accreditation process to accredit these independent third parties. If a test of each children's product is not used, MDE would be required to establish or recognize testing protocol to be used in the issuance of the certificates.

Manufacturers would then be required to issue a certificate that certifies that the product is not lead containing. MDE is required to develop or authorize certificates stating children's products are lead free. Any distributor or retailer is to receive a copy of the certificate from the person delivering it. Manufacturers must provide a copy of any documents relating to lead testing and any certificate issued to MDE at its request. Retailers must provide a copy of any certificate they are issued to MDE at its request.

If MDE determines that a person has manufactured or sold a children's product that contains lead, MDE has to give written notice to the violator that identifies the product. Within 15 days of receiving the notice, the violator has to send specified information about the product to MDE. Within 24 hours after a violation is determined, the person has to submit a report to MDE in a form required by the Department.

The bill authorizes civil penalties as well as authorizing the Comptroller to assess fines against persons that sell or offer for sale a children's product without the required certificate. Violators must be issued three warnings before the fine can be imposed. At the end of each quarter fines collected by the Comptroller will be distributed to the Lead Poisoning Prevention Fund in a manner determined by MDE and the Comptroller. The Secretary "may" adopt regulations to carry out the provisions of this bill.

### **HB 369/SB 213 - Chesapeake and Atlantic Coastal Bays 2010 Trust Fund and Nonpoint Source Fund**

This bill codifies the BayStat Program and adds to its duties including administration of the Trust Fund. The BayStat Subcabinet, of which Secretary Wilson is a member, must oversee the administration of the Program. Among the requirements for the BayStat

Program is assessment of the effectiveness of enforcement programs and institution of actions to improve their effectiveness.

This bill requires MDE to establish the Chesapeake and Atlantic Coastal Bays Nonpoint Source Fund, a new special fund administered by the Water Quality Financing Administration (WQFA) to provide financial assistance for urban and suburban stormwater management practices and stream/wetland restoration. Sources of revenue for the fund and the guidelines for fund setup and uses are laid out in the bill.

#### **HB 589/SB 557 - Lead Poisoning Prevention Act of 2008**

The bill requires an application form for a license issued by MHIC to require the Maryland Department of the Environment lead paint abatement accreditation number and expiration date if the applicant provides lead paint abatement services. This information must also be submitted to MHIC by a licensee before the license may be renewed. A licensee who violates the lead paint abatement accreditation requirement or any associated regulations is subject to an existing penalty of up to \$5,000 per violation.

The bill modifies the definition of "lead-safe housing" under the Reduction of Lead Risk in Housing Law to include dwelling units in which lead contaminated dust levels are determined to be within certain abatement clearance levels within a timeframe established by MDE by regulation.

#### **HB 977 - Controlled Hazardous Substances - Discharge or Release - Reporting Requirements**

MDE must determine a reportable threshold of a release of a hazardous substance. In doing so, MDE must consider the quantity of a hazardous substance, associated risk factors of a hazardous substance and any other factor determined necessary by the Department. On or before June 30, 2009 MDE must adopt regulations based on its findings. The requirement to report a release will be required beginning October 1, 2009. MDE will then be required to receive reports of the release of hazardous substances into the environment.

#### **HB1193/SB590 - Environment - Statute of Limitations**

Apply the new three-year statute of limitations to violations MDE knew about or should have reasonably known about on or after October 1, 2008. The bill only applies prospectively.

#### **SB 710/HB 1189 - Environment - Phosphorus - Dishwashing Detergent**

MDE must amend its rules and regulations to incorporate the new prohibition date of July 1, 2010 for dishwashing detergent containing more than 0.5 percent phosphorous by weight.

#### **SB 718 - Lead Risk Reduction - Acquisition of Property - Compliance Requirements**

MDE is required to adopt all the provisions of the bill relating to compliance plans. This includes providing the form (including all specified information listed in the bill, as well as any other information MDE chooses to require) to the transferee, receiving the form from the transferee, and collecting the specified application fees. MDE must take action after receipt of an application. This can include approving an application, denying an application based on specified factors in the bill, or request additional information.

Following approval of the compliance plan, MDE is to receive an inspection report from the transferee. MDE is also supposed to receive documentation of the transfer and specified certifications from the transferee following the transfer of the affected property. MDE may declare the compliance plan void if any information provided in an application or required by the bill was erroneous or incomplete.

After MDE approves a plan, the transferee is considered in compliance with specified provisions of the Reduction of Lead Risk in Housing subtitle eligible for the protection afforded to owners of affected property. MDE “may” adopt regulations to carry out the provisions governing compliance plans. The bill also requires a transferee to give the required notice and lead poisoning information packet to tenants before transfer of legal title or within 15 days following transfer of legal title.

## MDE PENALTY POLICY

### MDE's Approach to Determining the Appropriate Response to Violations

MDE is committed to a consistent, timely and appropriate compliance assurance program, which is protective of the public health and the environment while creating a credible deterrent against future violations. It is MDE's policy to assess fair and equitable penalties in keeping with the factors specified by the governing statute, and commensurate with the nature of the violations. The statutory factors that MDE must consider in assessing administrative penalties are:

1. The ***willfulness of the violation***, the extent to which the existence of the violation was known to but uncorrected by the violator, and the extent to which the violator exercised reasonable care;
2. Any ***actual harm to the environment or to human health***, including injury to or impairment of the air, waters, or natural resources of this State;
3. The ***cost of cleanup and the cost of restoration*** of the natural resource;
4. The ***nature and degree of injury to or interference*** with general welfare, health, and property;
5. The extent to which the ***location of the violation***, including the location near waters of this State or areas of human population, creates the potential for harm to the environment or to human health and safety;
6. The ***available technology*** and economic reasonableness of controlling, reducing, or eliminating the violation;
7. The degree of ***hazard posed by the particular pollutant*** or pollutants involved;
8. The extent to which the current violation is part of a ***recurrent pattern*** of the same or similar type of violation committed by the violator.

MDE will consider each of the specific factors on a case-by-case basis. While all factors set forth in the statute will be considered, it is not necessary for all of the factors to be applicable before the maximum penalty may be assessed. A single factor may warrant the imposition of the maximum penalty. Furthermore, all factors, even if applicable in a given case, are not necessarily of equal weight in MDE's determination of a reasonable penalty.

# ENVIRONMENTAL AUDIT GUIDANCE

(Revised 5/15/2006)

The Maryland Department of the Environment (MDE) recognizes the benefit from regulated entities that routinely evaluate their internal work processes for compliance with federal and State environmental requirements. Equally as important as identifying violations is the reporting of such violations to MDE for proper and complete remediation and abatement. MDE encourages self-auditing and compliance management as effective environmental management techniques. MDE may use its enforcement discretion in evaluating penalties for regulated entities that disclose violations of environmental laws or regulations as provided herein.

*This guidance is not intended nor should it be construed to be a regulation as defined in Section 10-101, State Government Article. It sets forth criteria and guidelines for use by MDE staff in resolution of enforcement cases, and does not confer any legal rights upon any person.*

## **Definitions:**

“Department” means the Maryland Department of the Environment.

“Environmental Audit” and “Compliance Management System” have the definitions used in the Environmental Protection Agency’s “Incentives for Self-Policing: Discovery, Disclosure, Correction and Prevention of Violations,” Final Policy Statement effective May 11, 2000:

“Environmental Audit” is a systematic, documented, periodic and objective review by regulated entities of facility operations and practices related to meeting environmental requirements.

“Compliance Management System” encompasses the regulated entity’s documented systematic efforts, appropriate to the size and nature of its business, to prevent, detect, and correct violations through various procedures, policies, mechanisms, and efforts.

“Environmental Requirement” means a requirement in (1) a state or federal law or regulation enforced by the Department, a rule adopted by the Department, a permit or order issued by the Department, or (2) an ordinance or other legally binding requirement of a local government unit under authority granted by state law relating to environmental protection.

“Regulated Entity” means a corporation, partnership, individual, municipality, governmental unit, or any other legal entity regulated under federal, state, or local environmental laws or regulations.

## **Statement of Guidance:**

- A. The Department may reduce a civil or administrative penalty for violations of environmental requirements that are voluntarily disclosed following an environmental audit or as a result of compliance management if:

1. The regulated entity discloses the violation to the Department in writing within 21 days after the violation is discovered, or within a shorter time limit, if required by statute or regulation;
2. The regulated entity promptly initiates action to correct or eliminate the violation and all public or environmental harm caused by the violation. If the violation cannot be fully corrected within 60 days, the regulated entity shall submit a compliance plan to the Department within 60 days for review. The regulated entity shall maintain compliance with the plan as approved by the Department;
3. The regulated entity provides the Department with a plan that includes steps to prevent recurrence of the violation; and
4. The regulated entity fully cooperates with the Department regarding investigation of the disclosed violation.

B. The relief outlined in Section A is not available if the Department determines that:

1. The violation was discovered through a legally mandated monitoring or sampling requirement prescribed by statute, regulation, permit, judicial or administrative order, or consent agreement. The violation must be discovered voluntarily and not as a result of an environmental requirement;
2. The Department or a third party discovered the violation prior to disclosure by the regulated entity to the Department, or the regulated entity made the disclosure after commencement of a federal, State, or local agency inspection, investigation, or request for information;
3. The violation was committed willfully, wantonly, intentionally, knowingly, or with gross negligence by the regulated entity;
4. The regulated entity did not promptly initiate or diligently act to correct or eliminate the violation;
5. The violation made imminent or caused significant environmental harm or had a significant effect upon public health;
6. The same or a related violation has occurred within the past three years or the violation is part of a pattern of recurrent violations by the regulated entity. For purposes of this section, violation includes any violation of a federal, State or local environmental law or regulation identified in a judicial or administrative order, consent agreement, order or decree, complaint, or notice of violation, conviction or plea agreement; or
7. The disclosure is made for a fraudulent purpose.

- C. This guidance is not intended for use under circumstances in which the violation(s) at issue would result in the regulated entity gaining an economic advantage over its competitors.
- D. This guidance does not affect individual liability for criminal misconduct.
- E. This guidance does not apply to liability under a judicial or administrative order, consent agreement, order or decree, complaint, notice of violation, conviction or plea agreement.
- F. Relief under this guidance shall not be available if the Department receives formal notification from the delegating federal agency of that agency's intention to propose rescission of the Department's authority over the applicable federal environmental program.

Original signed by Secretary Philbrick  
Kend P. Philbrick  
Secretary, Maryland Department of  
the Environment

May 15, 2006  
Date

## APPENDIX III SEP DETAILS IN FY 2008

A Supplementary Environmental Project (SEP) is an enforcement tool that augments traditional penalty actions. They are important because the projects provide direct environmental benefits to communities beyond those achieved by facilities returning to compliance. The Air and Radiation Management Administration and the Waste Management Administration made use of SEPs during FY 2008 totaling \$677,419. The administrations issued 28 SEPs during FY 2008. Details about each administration's SEPs are on the following pages.

Administration	Number of SEPs		Total Value of SEPs	
	2007	2008	2007	2008
Air and Radiation Management Administration	2	2	\$125,000	\$205,000
Waste Management Administration	56	26	\$3,304,000	\$472,419
Water Management Administration	3	0	\$207,000	\$0
<b>TOTALS</b>	<b>61</b>	<b>28</b>	<b>3.636 million</b>	<b>\$677,419</b>



## Air and Radiation Management Administration SEPs, FY 2008

Total SEPs: 2

Total Cost: \$205,000

<b>Company</b>	<b>SEP Value</b>	<b>Signed</b>
Fort Detrick	\$130,000	October 2007
Mirant	\$75,000	March 2008

- **Fort Detrick**, Frederick County - On October 22, 2007, MDE and Fort Detrick finalized an administrative Consent Order resolving air quality violations at Fort Detrick that occurred in 2006. Under the terms of the Consent Order, Fort Detrick expended \$130,000 toward a SEP that consisted of conversion to biodiesel to be used in the Fort's boilers and generators.
- **Mirant**, Montgomery, Prince Georges, and Charles Counties – On April 8, 2008, MDE and Mirant finalized a civil Consent Decree resolving air quality violations at Mirant's Dickerson, Chalk Point, and Morgantown coal-fired power plants that occurred from 2003 through 2007. Under the terms of the Consent Decree, Mirant paid a \$175,000 penalty to the Maryland Clean Air Fund and expended \$75,000 toward a SEP that required a donation to the Board of Education for Prince Georges County to reduce air emissions from school buses.

## Waste Management Administration SEPs, FY 2008

Total SEPs: 26  
Total Cost: \$472,419

The majority of the Waste Management Administration SEPs in FY 2008 were for lead enforcement cases. Most of these required property owners to replace all windows in rental units containing lead based paint. A few concerning newer properties built after 1949 required other types of lead risk reduction work. The following table lists the individual SEPs:

Program	Description	SEP Value
Oil Control	Upgrade of Underground Storage Tank systems by adding release containment systems.	\$ 32,000
Hazardous Waste	SA-07-019, Howard County Public School System	\$ 24,419
Lead Poisoning Prevention	Case # 7894, Owner: Donatus Uzomah - Agreement Signed: 8/14/2007	\$ 8,000
Lead Poisoning Prevention	Case # 8263, Owner: James Turlington - Agreement Signed: 8/21/2007	\$ 8,000
Lead Poisoning Prevention	Case # 10629, Owner: Kent Lenahan - Agreement Signed: 8/1/2007	\$ 4,000
Lead Poisoning Prevention	Case # 10404, Owner: Jason Bloom - Agreement Signed: 10/4/2007	\$ 4,000
Lead Poisoning Prevention	Case # 9852, Owner: Darryl Ramey - Agreement Signed: 9/20/2007	\$ 8,000
Lead Poisoning Prevention	Case # 9360, Owner: Monroe Smith, Jr. - Agreement Signed: 8/14/2007	\$ 20,000
Lead Poisoning Prevention	Case # 8002, Owner: Dominion Property Management, LLC Hyacinth Ezekia - Agreement Signed: 10/19/2007	\$ 12,000
Lead Poisoning Prevention	Case # 9988, Owner: WHM Investments, Inc. - Agreement Signed: 10/29/2007	\$ 16,000
Lead Poisoning Prevention	Case # 9550, Owner: Stephen Snowden - Agreement Signed: 10/29/2007	\$ 16,000
Lead Poisoning Prevention	Case # 10218, Owner: Anintitia Vamasiri - Agreement Signed: 8/14/2007	\$ 20,000
Lead Poisoning Prevention	Case # 10389, Owner: Bernard Amernick - Agreement Signed: 3/18/2008	\$ 28,000
Lead Poisoning Prevention	Case # 10760, Owner: George Lockhart - Agreement Signed: 1/24/2008	\$ 12,000
Lead Poisoning Prevention	Case # 10214, Owner: Research Development Services, LLC - Agreement Signed: 1/10/2008	\$ 24,000
Lead Poisoning Prevention	Case # 10713, Owner: Rudy Encomiedna (etal) - Agreement Signed: 2/19/2008	\$ 32,000
Lead Poisoning Prevention	Case # 9986, Owner: Jimmy Bello - Agreement Signed: 10/1/2007	\$ 16,000
Lead Poisoning Prevention	Case # 9921, Owner: Charles Shoultz - Agreement Signed: 7/31/2007	\$ 12,000
Lead Poisoning Prevention	Case # 10825, Owner: Mohammed Yakcub - Agreement Signed: 3/6/2008	\$ 4,000

Lead Poisoning Prevention	Case # 11064, Owner: David Sakers - Agreement Signed: 3/18/2008	\$ 32,000
Lead Poisoning Prevention	Case number 11065, Owner: Marvel Properties, LLC- Agreement signed 5/6/08	\$ 64,000
Lead Poisoning Prevention	Case Number, 10151, Owner: Horace A. Waybright- Agreement signed 7/22/08	\$ 24,000
Lead Poisoning Prevention	Case number 10847, Owner Kevin Dozier/ Angelo Bell- Agreement Signed 5/5/08	\$ 20,000
Lead Poisoning Prevention	Case Number 9139 Owner:Eugene & Dorothy Sugar- Consent Decree Signed 6/13/08	\$ 8,000
Lead Poisoning Prevention	Case Number 9937, Owner:Olugbemi Bayo, Agreement signed 6/21/08	\$ 4,000
Lead Poisoning Prevention	Case Number 10244, Owner Michael & Adria Hammond- Agreement signed 4/7/08	\$ 20,000

## Water Management Administration SEPs, FY 2008

Total SEPs: 0  
Total Cost: \$0

WMA did not authorize any SEPs in FY 2008.

## **APPENDIX IV LAND RESTORATION PROGRAM LISTS**

In accordance with §1-301(d) of the Environment Article MDE is providing the State Master List, which provides notice of potential hazardous waste sites, and the Formerly Investigated Sites List, which are sites that have been investigated by the United States Environmental Protection Agency and the Maryland Department of the Environment and determined not to require further action based on the information available to the agencies at the time of review.

## **LAND RESTORATION PROGRAM STATE MASTER LIST**

This list provides notice of potential hazardous waste sites.

**Maryland Department of the Environment  
State Master List  
July 2008**

**COUNTY: ALLEGANY**

**Site Name:** AETNA LUMBER  
**Address:** MC MULLEN HWY  
LOWNDES, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CABIN RUN LANDFILL  
**Address:** CABIN RUN RD  
FROSTBURG, MD 21532  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CELANESE FIBERS CO - AMCELLE PLANT  
**Address:** US RT 220 S  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CUMBERLAND GAS LIGHT CO  
**Address:** N MECHANIC ST  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FROSTBURG GAS LIGHT CO  
**Address:** WEST SIDE OF GRANT ST  
FROSTBURG, MD 21532  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HOFFMAN LANDFILL  
**Address:** FROSTBURG IND PARK RT 36  
FROSTBURG, MD 21532  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KELLY SPRINGFIELD TIRE CO  
**Address:** 800 KELLY RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO INC-OLDTOWN  
**Address:** RUBY RD  
LAVALE, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LAVALE WAREHOUSE FIRE  
**Address:** 1210 NATIONAL HWY  
LAVALE, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LIMESTONE ROAD SITE  
**Address:** LIMESTONE RD OFF RT 51  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:**

**Site Name:** MIDLAND SUNOCO STATION  
**Address:** MAIN ST  
MIDLAND, MD 21542  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OLD CUMBERLAND CITY/COUNTY DUMP  
**Address:** LIMESTONE RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PRECISE METALS AND PLASTICS, INC  
**Address:** DAY RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** VALE SUMMIT LANDFILL  
**Address:** RT 36 & 38  
FROSTBURG, MD 21532  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WILLISON OIL COMPANY  
**Address:** BALTIMORE PIKE  
CRESAPTOWN, MD 21502  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: ANNE ARUNDEL**

**Site Name:** A. S. PEARMON  
**Address:** 1270 HARDY RD  
ARNOLD, MD 21012  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ALCO-GRAVURE, INC  
**Address:** 7364 BALTIMORE ANNAPOLIS BLVD  
GLEN BURNIE, MD 21061  
**Aliases:** NONE



**Status:** NFRAP

**Site Name:** AMETEK INC-SPECIAL FILAMENTS DIVISION  
**Address:** 8335 TELEGRAPH RD  
 ODENTON, MD 21113  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ANNAPOLIS PLT  
**Address:** CALVERT & ST JOHN STS  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ANNE ARUNDEL CO LANDFILL  
**Address:** DOVER ST  
 GLEN BURNIE, MD 21060  
**Aliases:** NONE  
**Status:**

**Site Name:** B & O RAILROAD LANDFILL  
**Address:** KEMBO RD  
 FOREMANS CORNER, MD 21226  
**Aliases:** NONE  
**Status:**

**Site Name:** BROWNING FERRIS IND ELKRIDGE LANDING RD  
**Address:** ELKRIDGE LANDING RD  
 LINTHICUM, MD 21090  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BROWNING FERRIS IND SOLLEY RD LANDFILL  
**Address:** 7890 SOLLEY RD  
 GLEN BURNIE, MD 21060  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHERRY PIT DRUM SITE B  
**Address:** 701 PITTMAN ROAD - SITE B  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:**

**Site Name:** COX CREEK REFINING  
**Address:** 1000 KEMBO RD  
 FOREMANS CORNER, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DAVID TAYLOR/ANNAPOLIS-CONTROL  
**Address:** 640A BRDNECK RD

**Aliases:** ANNAPOLIS, MD 21401  
**Status:** NONE

**Site Name:** DAVID TAYLOR/ANNAPOLIS-LAUNCH  
**Address:** BAY HEAD RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status:**

**Site Name:** DAVIDSONVILLE-CONTROL  
**Address:** QUEEN ANNE BRIDGE RD & WAYSON  
 DAVIDSONVILLE, MD 21035  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DAVIDSONVILLE-LAUNCH  
**Address:** 3737 ELMER F HAGNER LN  
 DAVIDSONVILLE, MD 21035  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DIAMOND SHAMROCK CORP CHEMETALS DIV  
**Address:** 711 PITTMAN RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DRUMCO DRUM DUMP  
**Address:** ASPEN ST OFF PENNINGTON AVE  
 BROOKLYN, MD 21225  
**Aliases:** NONE  
**Status:**

**Site Name:** EPA CENTRAL REGIONAL LABORATORY  
**Address:** 839 BESTGATE RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status:**

**Site Name:** FORT SMALLWOOD-CONTROL  
**Address:** OLD NIKE MISSILE SITE RD  
 PASADENA, MD 21122  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FORT SMALLWOOD-LAUNCH  
**Address:** 9034 FORT SMALLWOOD RD  
 PASADENA, MD 21122  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FRESH POND  
**Address:** FOREST GLEN DR  
 JACOBSVILLE, MD 21122  
**Aliases:** NONE  
**Status:**

**Site Name:** GENERAL SERVICE ADMIN.-CURTIS BAY DEPOT  
**Address:** 710 ORDNANCE RD  
 BROOKLYN, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GREEN VALLEY ROAD SITE  
**Address:** GREEN VALLEY RD  
 ARNOLD, MD 21012  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HONEYWELL INC  
**Address:** 2ND ST EXT GREENWOOD ACRES  
 ANNAPOLIS, MD 21404  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** JOY BOEHM LANDFILL  
**Address:** 137 ST STEPHENS CHURCH RD  
 CROWNSVILLE, MD 21032  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** JOY RECLAMATION CO  
**Address:** 6400 ARUNDEL CORP RD  
 GLEN BURNIE, MD 21060  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOP-FLEX, INC  
**Address:** 101 HARMANS RD  
 HARMONS, MD 21077  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MID-ATLANTIC WOOD PRESERVERS  
**Address:** P O BOX 58 SHIPLEY AVE  
 HARMANS, MD 21077  
**Aliases:** NONE  
**Status:**

**Site Name:** MIDDLETOWN ROAD DUMP SITE  
**Address:** MIDDLETOWN RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE

**Status:**

**Site Name:** NEVAMAR CORP  
**Address:** 8339 TELEGRAPH RD  
ODENTON, MD 21113  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NOVA-KOTE INC.  
**Address:** 7615 ENERGY PKWY  
RIVIERA BEACH, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PUBLISHERS PRINTING SERVICE INC.  
**Address:** 10650 RIGGS HILL RD  
JESSUP, MD 20794  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SNOW HILL LANE SITE  
**Address:** SNOW HILL LN & CEDAR HILL LN  
BROOKLYN, MD 21225  
**Aliases:** NONE  
**Status:**

**Site Name:** US COAST GUARD  
**Address:** HAWKINS POINT RD  
CURTIS BAY, MD 21226  
**Aliases:** NONE  
**Status:**

**Site Name:** US NAVAL STATION  
**Address:** ANNAPOLIS NAVAL COMPLEX  
ANNAPOLIS, MD 21402  
**Aliases:** NONE  
**Status:**

**Site Name:** USA FORT GEORGE MEADE  
**Address:** FORT MEADE  
FORT MEADE, MD 20755  
**Aliases:** NONE  
**Status:**

**Site Name:** USN COMMISARY STORE PARK LOT AREA SOUTH  
**Address:** KINKAID RD  
ANNAPOLIS, MD 21402  
**Aliases:** NONE  
**Status:**

**Site Name:** USN NAVAL ACADEMY  
**Address:** PUBLIC WKS DEPT

**Aliases:** ANNAPOLIS, MD 21402  
**Status:** NFRAP

**Site Name:** VECTRA CORP ODENTON  
**Address:** 8305 TELEGRAPH RD  
ODENTON, MD 21113  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WOODS ROAD SITE  
**Address:** END WOODS RD\BORDER MAGOTHY BR RD  
ANNAPOLIS, MD 21122  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: BALTIMORE**

**Site Name:** 68TH STREET DUMP  
**Address:** 68TH ST & PULASKI HWY  
ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:**

**Site Name:** AVESTA SHEFFIELD  
**Address:** ROLLING MILL RD  
ROSEDALE, MD 21224  
**Aliases:** NONE  
**Status:**

**Site Name:** BACK RIVER  
**Address:** BEACHWOOD AVE AT PORTER POINT  
ESSEX, MD 21221  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BALTIMORE GALVANIZING COMPANY INC.  
**Address:** 7110 QUAD AVE  
ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BATAVIA LANDFILL  
**Address:** 619 BATAVIA FARM RD  
ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BAUER FARM  
**Address:** OFF NORTH PT RD & BAUERS FARM  
EDGEMERE, MD 21219  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: BALTIMORE**

**Site Name:** BAUSCH & LOMB, DIECRAFT  
**Address:** 14600 YORK RD  
SPARKS, MD 21152  
**Aliases:** NONE  
**Status:**

**Site Name:** BEACHWOOD DEVELOPMENT  
**Address:** MORSE LN & TODD POINT  
EDGEMERE, MD 21219  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BENDIX CORP  
**Address:** 1300 JOPPA RD  
TOWSON, MD 21204  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BIO QUEST  
**Address:** 250 SCHILLING CIRCLE  
COCKEYSVILLE, MD 21031  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BROWNING FERRIS IND - CHEM PROCESSING CNTR  
**Address:** 101 NORRIS LN  
DUNDALK, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BUCKS STEEL DRUM  
**Address:** 8234 ROSEBANK AVE  
NORTH POINT, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CIRCUIT CITY  
**Address:** 6211 ROSSVILLE BLVD  
ESSEX, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** COLGATE PAY DUMP  
**Address:** 6700 PULASKI HWY  
BALTIMORE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CUTRONICS  
**Address:** 1925 & 1941 GREENSPRING DR

**Aliases:** TIMONIUM, MD 21093  
**Status:** NFRAP

**Site Name:** DUNDALK MARINE TERMINAL  
**Address:** 2701 BROENING HWY  
 BALTIMORE, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FORK - CONTROL  
**Address:** END OF HUTSCHENREUTER RD  
 KINGSVILLE, MD 21057  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FORK - LAUNCH  
**Address:** OFF STOCKDALE RD  
 KINGSVILLE, MD 21057  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FOUR CORNERS ( JACKSONVILLE )  
**Address:** JARRETSVILE PK & SWEET AIR RD  
 JACKSONVILLE, MD 21131  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GIBSON HOMANS  
**Address:** 1101 HANZLIK AVE  
 ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GOULD INC IND BATTERY DIV  
**Address:** 1933 GREENSPRING DR  
 TIMONIUM, MD 21093  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GRANITE - CONTROL  
**Address:** 2845 HERNWOOD RD  
 WOODSTOCK, MD 21163  
**Aliases:** NONE  
**Status:**

**Site Name:** GRANITE - LAUNCH  
**Address:** 3085 HERNWOOD RD  
 WOODSTOCK, MD 21163  
**Aliases:** NONE  
**Status:**

**Site Name:** GREENSPRING - CONTROL  
**Address:** GREENSPRING AVE  
GREENSPRING, MD 21117  
**Aliases:** NONE  
**Status:**

**Site Name:** GREENSPRING - LAUNCH (Towson Launch MD-412)  
**Address:** RIDGE RD  
GREENSPRING, MD 21117  
**Aliases:** NONE  
**Status:**

**Site Name:** INDUSTRIAL ENTERPRISES  
**Address:** 7100 QUAD AVE  
ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** J & L INDUSTRIES INC  
**Address:** 6923 EBENEZER RD  
CHASE, MD 21220  
**Aliases:** NONE  
**Status:**

**Site Name:** KOPPERS CO- GLEN ARM  
**Address:** GLEN ARM RD  
GLEN ARM, MD 21087  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LEO J. MCCOURT DUMP  
**Address:** MORSE RD  
SPARROWS POINT, MD 21219  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MARTIN MARIETTA CORP  
**Address:** 1601 S. ROLLING RD  
RELAY, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MARTIN'S STATE AIRPORT  
**Address:** 701 WILSON POINT RD BOX 1  
MIDDLE RIVER, MD 21220  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MARTIN'S STATE AIRPORT SITE II (ANG)  
**Address:** EASTERN BLVD AND WILSON POINT RD  
MIDDLE RIVER, MD 21220  
**Aliases:** NONE



**Status:**

**Site Name:** MARYVALE PREPARATORY SCHOOL  
**Address:** 11300 FALLS RD  
BROOKLANDVILLE, MD 21093  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** METALS & RESIDUES PROCESSING  
**Address:** 10107 MARBLE CT  
COCKEYSVILLE, MD 21030  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** METALS & RESIDUES PROCESSING  
**Address:** 4400 MILFORD MILL RD  
PIKESVILLE, MD 21208  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NATIONAL CIRCUIT INC-TIMONIUM PROPERTY  
**Address:** 108 TIMONIUM RD  
TIMONIUM, MD 21093  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NATIONAL CIRCUITS INC-PIKESVILLE PROPERTY  
**Address:** PARK CIR  
TOWSON, MD 21286  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** O.H. WILLIAMSON  
**Address:** WILLIAMSON LN  
COCKEYSVILLE, MD 21030  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PARKTON LANDFILL  
**Address:** INTERSCT. I-83 & STABLERS CHURCH  
PARKTON, MD 21120  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** REISTERS PROPERTY  
**Address:** JUNCTION MD RTS 30 & 140  
REISTERSTOWN, MD 21136  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RELAY MUD SLIDE  
**Address:** WOODLAND & VIADUCT AVES

**Aliases:** RELAY, MD 21227  
**Status:** NONE  
 NFRAP

**Site Name:** RM WINSTEAD CO  
**Address:** 68TH ST & PULASKI HWY  
 ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SAFETY KLEEN CORP-CATONSVILLE  
**Address:** 1012-1/2 LESLIE AVE  
 CATONSVILLE, MD 21228  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SAUER DUMP  
**Address:** 4225 LYNHURST RD  
 NORTH POINT, MD 21222  
**Aliases:** NONE  
**Status:**

**Site Name:** SECURITY BLVD SITE  
**Address:** 1718 K BELMONT AVE  
 WOODLAWN, MD 21207  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SMUCK DUMP  
**Address:** HOLLINS FERRY RD  
 HALETHORPE, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SPARROWS POINT PATAPSCO RIVER  
**Address:** PATAPSCO RIVER  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:**

**Site Name:** STANSBURY PARK  
**Address:** STANSBURY & HYDRANGEA RDS  
 DUNDALK, MD 21222  
**Aliases:** NONE  
**Status:**

**Site Name:** SUN CHEMICAL CORP-GPI DIV  
**Address:** 42 GWYNNS MILL CT  
 OWINGS MILLS, MD 21117  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** THOMPSON STEEL COMPANY INC  
**Address:** NORTH POINT BLVD  
SPARROWS POINT, MD 21219  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TOWSON LAUNCH BA-92 (same as MD-213)  
**Address:** RIDGE RD NEAR RT 45  
TOWSON, MD 21136  
**Aliases:** NONE  
**Status:**

**Site Name:** U S ARMY PHOENIX -LAUNCH  
**Address:** PAPERMILL RD  
JACKSONVILLE RD, MD 21131  
**Aliases:** NONE  
**Status:**

**Site Name:** U S ARMY PHOENIX-CONTROL  
**Address:** SUNNYBROOK RD  
JACKSONVILLE, MD 21131  
**Aliases:** NONE  
**Status:**

**Site Name:** VULCAN MATERIALS METALS DIV  
**Address:** 2415 GRAYS RD  
SPARROWS PT, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: BALTIMORE CITY**

**Site Name:** 1ST PLANT  
**Address:** GUILFORD & SARATOGA STS  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** 2ND PLANT  
**Address:** SARATOGA & HOLIDAY STS  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** 4TH GAS HOUSE (Same as MD-159)  
**Address:** LANCASTER AND PATAPSCO STS  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AINSWORTH PAINT MFG SITE  
**Address:** 3200 BIDDLE ST  
BALTIMORE, MD 21231  
**Aliases:** NONE

**Status:**

**Site Name:** ALLIED CHEM CORP BALTIMORE WKS  
**Address:** BLOCK & WILLS ST  
BALTIMORE, MD 21231  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ALLIED CHEM CORP- AG PLT  
**Address:** 2000 RACE ST \ 200? RACE ST.  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AMERICAN CHEMMATE  
**Address:** HOWARD & WEST STS  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AMERICAN NATIONAL CAN CO  
**Address:** BOSTON & HUDSON ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AMERICAN RECOVERY CORP  
**Address:** 1901 BIRCH ST  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AMERICAN SHOT & LEAD CO  
**Address:** FAYETTE, PITT & FRONT STS  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AMOCO OIL CO  
**Address:** 3901 ASIATIC AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ANCHOR HOCKING CORP-CARR LOWREY GLASS  
**Address:** 2201 KLOMAN ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ARMCO BALTIMORE WKS  
**Address:** 3501 E BIDDLE ST

**Aliases:** BALTIMORE, MD 21213  
**Status:** NONE  
 NFRAP

**Site Name:** BALTIMORE HOUSING AUTHORITY  
**Address:** 222 E. SARATOGA ST  
 BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BALTIMORE IRON & METAL  
**Address:** PIER 11, PATAPSCO RIVER E NEWGATE  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BALTIMORE SMELTING  
**Address:** 227 S CENTRAL AVE  
 BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BALTIMORE STEEL DRUM CORP  
**Address:** 910 KRESSON ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BAYARD STATION  
**Address:** BAYARD AND BUSH ST  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BIOCHEM  
**Address:** 3901 ASIATIC AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BIOCHEM MANAGEMENT INC  
**Address:** 1917 BENHILL AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BLOEDE MANUFACTURER PROPERTY  
**Address:** CORNER OF WILKENS & CATON AVE  
 BALTIMORE, MD 21229  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BOARMAN, JW CO, INC  
**Address:** 2821-23 FOSTER AVE  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BOWLEY'S LANE LANDFILL  
**Address:** MORAVIA RD  
 BALTIMORE, MD 21206  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BROWNING FERRIS IND-QUARANTINE RD  
**Address:** 5901 QUARANTINE RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BRUNING PAINT CO  
**Address:** 601 S HAVEN ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CANTON STATION  
**Address:** FAIT AND LAKEWOOD STS  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CAPITAL ASSAY LABS SITE  
**Address:** 2901 WHITTINGTON AVE  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:**

**Site Name:** CHEMICAL METALS IND  
**Address:** 2001\2103 ANNAPOLIS RD  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHEVRON USA/ BALTIMORE REFINERY  
**Address:** 1955 CHESAPEAKE AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CONOCO CHEMICAL CO-BALTIMORE PLT  
**Address:** 3441 FAIRFIELD RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE

**Status:** NFRAP

**Site Name:** CONOCO INC BALTIMORE TERM  
**Address:** 3410 FAIRFIELD RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CONRAIL ORANGEVILLE YARD  
**Address:** 6000 E LOMBARD ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CONTINENTAL CAN CO.- USA PLANT #16  
**Address:** 3701 DUNCANWOOD LN  
 BALTIMORE, MD 21213  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CROWN CENTRAL PETROLEUM CORP  
**Address:** 1622 S CLINTON ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CROWN CENTRAL PETROLEUM CORP  
**Address:** 6000 PENNINGTON AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DYNASURF CHEMICAL CORP  
**Address:** 1411 FLEET ST  
 BALTIMORE, MD 21231  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EAST FEDERAL STREET SITE  
**Address:** EAST OF 3520 EAST FEDERAL ST  
 BALTIMORE, MD 21213  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ESTECH GENERAL CHEM CO  
**Address:** 5500 CHEM RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EXXON CO USA  
**Address:** 3801 BOSTON ST

**Aliases:** BALTIMORE, MD 21224  
**Status:** NFRAP

**Site Name:** FMC CORP  
**Address:** 1701 E PATAPSCO AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FORT HOLABIRD CRIME RECORDS CENTER  
**Address:** CORNER OF OAKLAND & DETROIT AVES  
 BALTIMORE, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** G & M TERMINAL  
**Address:** 1549 WARWICK AVE  
 BALTIMORE, MD 21216  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HAWKINS PT / MD. PORT ADMIN.  
**Address:** 5501 QUARANTINE RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HIGHLAND TOWN GAS  
**Address:** 3913 PULASKI HWY  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HUTTON AVENUE LF, EAST AND WEST  
**Address:** 4825-4835 WINDSOR MILL RD  
 BALTIMORE, MD 21207  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KANE & LOMBARD STREET DRUMS  
**Address:** KANE & LOMBARD STS  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:**

**Site Name:** KEY HIGHWAY SHIPYARD  
**Address:** 1101 KEY HWY  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP



**Site Name:** KOPPER CO INC - METAL PRODUCTS DIVISION  
**Address:** 200 SCOTT ST  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO BALTIMORE TREATING PLT LANDFILL  
**Address:** CHILDS ST  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO INC - ENGR MET PROD G  
**Address:** 1400 BUSH ST  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LOCOMOTIVE JUNKYARD  
**Address:** NEAR 6000 CHEMICAL ROAD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** M & T CHEM INC  
**Address:** 1900 CHESAPEAKE AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** M-V SANTA CLARA I  
**Address:** DUNDALK MARINE TERMINAL/SEA  
 DUNDALK, MD 21222  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MARTIN MARIETTA CORP  
**Address:** 1130 E 30TH ST  
 BALTIMORE, MD 21218  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MONUMENT ST LANDFILL  
**Address:** MONUMENT ST AND EDISON HWY  
 BALTIMORE, MD 21205  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MORGAN STATE UNIVERSITY SITE  
**Address:** COLD SPRING LN & HILLEN RD  
 BALTIMORE, MD 21239  
**Aliases:** NONE

**Status:**

**Site Name:** MRI CORPORATION  
**Address:** 414 CHESAPEAKE AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NIH-NIA GERONTOLOGY RESEARCH CENTER  
**Address:** 4040 EASTERN AVE  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:**

**Site Name:** NL INDUSTRIES INC MERCHANTS SHOT WORKS  
**Address:** UNKNOWN  
BALTIMORE, MD 21201  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NL INDUSTRIES INC-BALTIMORE METAL PLT  
**Address:** 214 W HENRIETTA ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NL INDUSTRIES INC-WHITE LEAD PLT  
**Address:** 204 SPEARS WHARF  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OLIN CORP-CURTIS BAY  
**Address:** 5501 PENNINGTON AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PEMCO PRODUCTS  
**Address:** 5601 EASTERN AVE  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PICORP INC  
**Address:** 6508 E LOMBARD ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PLATING SITE  
**Address:** 1009 W. BALTIMORE ST

**Aliases:** BALTIMORE, MD 21223  
**Status:** NONE  
 NFRAP

**Site Name:** PORT LIBERTY INDUSTRIAL PARK  
**Address:** 1800 FRANKFURST AVE  
 BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** REEDBIRD LANDFILL  
**Address:** POTEE ST & ROADBIRD AVE  
 BALTIMORE, MD 21225  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ROBERT E. LEE PARK/LAKE ROLAND BRIDGE  
**Address:** RAILROAD MARKER 387  
 MT.WASHINGTON, MD 21212  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SAFETY KLEEN CORP  
**Address:** 1448-50 DESOTO RD  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SCM CORP QUARANTINE RD SITE  
**Address:** 5901 QUARANTINE RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SCOTT STREET STATION  
**Address:** SCOTT & OSTEND STS  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SEVERN ST STATION  
**Address:** 1400 BLOCK SEVERN ST  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SHERWIN WILLIAMS  
**Address:** 2325 HOLLINS FERRY RD  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SMITH, F. BOWIE & SON INC  
**Address:** 4500 E LOMBARD ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SOUTHGATE INDUSTRIAL PARK  
**Address:** 2147 WICOMICO ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status:**

**Site Name:** SPRING GARDENS  
**Address:** FORT & LEADENHALL STS  
BALTIMORE, MD 21201  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** STRIEGAL SUPPLY & EQUIPMENT CO.  
**Address:** 6001 CHEMICAL RD  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TANK BARGE #626  
**Address:** PIER ONE / CLINTON ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TEXACO INC  
**Address:** 3820 FOURTH AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** W.R.GRACE & CO.- DAVIDSON CHEM DIV.  
**Address:** 5500 CHEMICAL RD  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: CALVERT**

**Site Name:** USN NAVAL RESEARCH LAB-CHES BAY DETACH  
**Address:** RT 261  
RANDLE CLIFF, MD 20732  
**Aliases:** NONE  
**Status:**

**Site Name:** USN SURFACE WARFARE CNTR-SOLOMON'S ISLAND  
**Address:** DEPT OF THE NAVY  
SOLOMON'S ISL, MD 20688

**Aliases:** NONE  
**Status:**

**COUNTY: CAROLINE**

**Site Name:** DAVES RELOADING & GUN REPAIR  
**Address:** FLEETWOOD RD  
DENTON, MD 21629  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OLD WEST DENTON DUMP  
**Address:** RIVER RD  
DENTON, MD 21629  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RELIANCE WOOD PRESERVING CO  
**Address:** RELIANCE RD  
FEDERALSBURG, MD 21632  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SKIPJACK CHEMICALS, INC.  
**Address:** HARMONY RD  
DENTON, MD 21629  
**Aliases:** NONE  
**Status:**

**COUNTY: CARROLL**

**Site Name:** 3M NATIONAL ADVER.-WESTMINSTER  
**Address:** 1030 BALTIMORE BLVD  
WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BACHMAN VALLEY LANDFILL-LOCATION II  
**Address:** 1920 BACHMAN VALLEY RD  
MANCHESTER, MD 21102  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BACHMANS VALLEY LANDFILL  
**Address:** 1920 BACHMANS VALLEY RD  
MANCHESTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BLACK & DECKER  
**Address:** HANOVER PIKE  
HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status:**

**Site Name:** CATALYST RESEARCH  
**Address:** 1125 POOLE RD  
 WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CRANBERRY RUN SUB STATION  
**Address:** OLD MANCHESTER RD  
 WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HODGES LANDFILL  
**Address:** HODGES RD  
 ELDERSBURG, MD 21784  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KATE WAGNER LANDFILL  
**Address:** OLD WESTMINSTER RD & KATE WAGNER  
 WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LANG'S JUNKYARD  
**Address:** RT 30 - BETWEEN 232 & 242  
 HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LEHIGH PORTLAND CEMENT COMPANY  
**Address:** 117 SOUTH MAIN ST  
 UNION BRIDGE, MD 21791  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MIL SPEC FASTENERS CORP  
**Address:** RT 30 BOX 59A (HANOVER PIK)  
 HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NORTH CARROLL SHOPPING PLAZA  
**Address:** RT 30 & BRODBECK RD  
 HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status:**

**Site Name:** POWRMATIC INC  
**Address:** INDUSTRIAL PARK DR  
 FINKSBURG, MD 21048

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RAY'S AUTO PARTS E.R.  
**Address:** 7571 MIDDLEBERG ROAD  
DETOUR, MD  
**Aliases:** NONE  
**Status:**

**Site Name:** SMALL LAB SITE  
**Address:** 7606 PATAPSCO DR  
SYKESVILLE, MD 21784  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** W. DORSEY PROPERTY  
**Address:** 804 E RIDGEVILLE RD  
MT. AIRY, MD 21771  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WESTMINSTER PLANT  
**Address:** GEORGE ST  
WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WOLF HILL  
**Address:** OFF OF RT 30  
HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: CECIL**

**Site Name:** ANCHOR MARINA ASSESSMENT  
**Address:** 0.5 OFF RT 272 IRIQUOIS DR  
NORTH EAST, MD 21901  
**Aliases:** NONE  
**Status:**

**Site Name:** BIG ELK CHAPEL ROAD LANDFILL  
**Address:** OFF BIG ELK CHAPEL RD  
PROVIDENCE, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CECIL COUNTY LANDFILL  
**Address:** OLD ELK NECK RD  
ELKTON, MD 21901  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CENTRAL CHEMICAL CO  
**Address:** TRINCO INDUSTRIAL PARK  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHILDS PROPERTY  
**Address:** 180 CHILDS RD  
 CHILDS, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CROUSE BROS. EXCAVATING, INC.  
**Address:** PULASKI HWY WEST \ RT 40 & RT 279  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DWYER PROPERTY  
**Address:** RTS. 279 & 545 PARCEL 1037 SW  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ELKTON FARM  
**Address:** 183 ZEITLER RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** ELKTON GAS LIGHT CO  
**Address:** WATER ST  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FIRESTONE PERRYVILLE PLANT  
**Address:** FIRESTONE RD  
 PERRYVILLE, MD 21903  
**Aliases:** NONE  
**Status:**

**Site Name:** G.E. RAIL  
**Address:** TRINCO INDUSTRIAL PARK  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** HOG HILL LANDFILL  
**Address:** PHILADELPHIA RD  
 NORTH EAST, MD 21921  
**Aliases:** NONE



**Status:** NFRAP

**Site Name:** HOPKINS QUARRY  
**Address:** HOPKINS QUARRY  
 PORT DEPOSIT, MD 21904  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** IP, INC  
**Address:** TRINCO INDUSTRIAL PARK PARCE  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** IRON HILL ROAD DRUM SITE  
**Address:** 117 IRON HILL RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LOUISA LANE DUMPSITE  
**Address:** LOUISA LN EXTENDED  
 CHARLESTOWN, MD 21914  
**Aliases:** NONE  
**Status:**

**Site Name:** MALMO FARMS  
**Address:** 1435 CAYOTS CORNER RD  
 CHESAPEAKE CITY, MD 21915  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MONTGOMERY BROTHERS  
**Address:** OFF NAZARENE CAMP RD  
 NORTHEAST, MD 21901  
**Aliases:** NONE  
**Status:**

**Site Name:** NATIONAL FIREWORKS  
**Address:** FAIRHILL RD PARCELS 75 & 1075  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NAVAL TRAINING CENTER BAINBRIDGE  
**Address:** BAINBRIDGE RD  
 BAINBRIDGE, MD 21904  
**Aliases:** NONE  
**Status:**

**Site Name:** OLD ELKTON DUMP  
**Address:** JONES CHAPEL RD

**Aliases:** ELKTON, MD 21921  
**Status:** NONE  
 NFRAP

**Site Name:** ORDNANCE PRODUCTS INC  
**Address:** MECHANICS VALLEY RD  
 NORTHEAST, MD 21901  
**Aliases:** NONE  
**Status:**

**Site Name:** PRINCIPIO ROAD  
**Address:** 551 PRINCIPIO RD  
 CRAIGTOWN, MD 21904  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** REEVES SITE  
**Address:** 400 MARLEY RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RMR  
**Address:** 695 N BRIDGE ST  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RTE 7 CHEM DUMP SITE  
**Address:** OLD PHILADELPHIA RD EAST  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SAND GRAVEL & STONE SITE  
**Address:** PULASKI HWY  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** SPECTRON INC  
**Address:** 111 PROVIDENCE RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** STAUFFER CHEM CO  
**Address:** BLUEBELL RD TRINCO IND COM  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** STEMMERS RUN  
**Address:** STEMMERS RUN RD  
EARLESVILLE, MD 21919  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** THIOKOL CORP ELKTON  
**Address:** 500 PULASKI HWY WEST  
ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TRIUMPH INDUSTRIAL PARK / W.L. GORE  
**Address:** 3 BLUE BALL RD P.O. BOX 1130  
ELKTON, MD 219211130  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** USCG BACK CREEK REAR RANGE STRUCTURE  
**Address:** WELCH POINT  
CHESAPEAKE CITY, MD 21921  
**Aliases:** NONE  
**Status:**

**Site Name:** VICON PROPERTY  
**Address:** DOGWOOD RD & SINGERLY RD  
ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** W L GORE- CHERRY HILL  
**Address:** 2401 SINGERLY RD  
CHILDS, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WHITTAKER TROJAN YACHT  
**Address:** OLDFIELD POINT RD  
ELKTON, MD 21921  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WOODLAWN LANDFILL  
**Address:** 400 WAIBEL RD  
WOODLAWN, MD 21904  
**Aliases:** NONE  
**Status:**

**COUNTY: CHARLES**

**Site Name:** BLOSSOM POINT FIELD TEST AREA  
**Address:** CEDAR POINT NECK  
LA PLATA, MD 20646

**Aliases:** NONE  
**Status:**

**Site Name:** CHARLES COUNTY SANITARY LF  
**Address:** RT 425  
PISGAH, MD 20640  
**Aliases:** NONE  
**Status:**

**Site Name:** DEAD TREES IN A POND SITE  
**Address:** 0.6 MILES PAST CORNER OF GLYM  
PISGAH, MD 20640  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HUGHESVILLE TIRE SITE  
**Address:** GALLANT GREEN RD  
HUGHESVILLE, MD 20601  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** INDIAN HEAD NAVAL SURFACE WARFARE CENTER  
**Address:** RT 210  
INDIAN HEAD, MD 20640  
**Aliases:** NONE  
**Status:**

**Site Name:** POMONKEY - CONTROL  
**Address:** BUMPY OAK RD  
POMONKEY, MD 20646  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** POMONKEY - LAUNCH  
**Address:** BUMPY OAK RD  
POMONKEY, MD 20646  
**Aliases:** NONE  
**Status:**

**Site Name:** US NAVAL RESEARCH LAB - CONTROL  
**Address:** END OF LAUREL BRANCH RD  
WALDORF, MD 20601  
**Aliases:** NONE  
**Status:**

**Site Name:** US NAVAL RESEARCH LAB - LAUNCH  
**Address:** BERRY RD  
WALDORF, MD 20601  
**Aliases:** NONE  
**Status:**

**Site Name:** WALDORF - CONTROL

**Address:** COUNTRY LN  
WALDORF, MD 20601  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: DORCHESTER**

**Site Name:** BEULAH LANDFILL  
**Address:** GALLIGHER FARM RD  
BEULAH, MD 21643  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CAMBRIDGE CY DISP PLT WWTP  
**Address:** 1010 ROSELIN AVE  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CAMBRIDGE SITE  
**Address:** 311 TRENTON  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CAMBRIDGE TOWN GAS  
**Address:** 403 CHERRY ST  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status:**

**Site Name:** CONTINENTAL CAN CO-USA PLANT 24  
**Address:** RAILRD AVE  
HURLOCK, MD 21643  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EASTERN MD WOOD TREATING CO  
**Address:** CLARKS CANNING HOUSE RD  
FEDERALSBURG, MD 21632  
**Aliases:** NONE  
**Status:**

**Site Name:** NELSONS BODY SHOP  
**Address:** RT 16 & CHESAPEAKE DR  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** USN BLOODSWORTH ARCHIPELAGO  
**Address:** N POTOMAC R RUNS CHESPKE BAY  
NA, MD 21613  
**Aliases:** NONE

**Status:**

**Site Name:** WESTERN PUBLISHING CO  
**Address:** WOODS RD  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: FREDERICK**

**Site Name:** ABRAMSON PROPERTY  
**Address:** 9925 PINE TREE RD  
WOODSBORO, MD 21798  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EASTALCO ALUMINUM CO  
**Address:** 5601 MANOR WOODS RD  
FREDERICK, MD 217017999  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FORT DETRICK AREA B  
**Address:** ROSEMONT AVE  
FREDERICK, MD 21702  
**Aliases:** NONE  
**Status:**

**Site Name:** FREDERICK TOOL AND DIE CO INC  
**Address:** 579 E.CHURCH ST  
FREDERICK, MD 21701  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FREDERICK TOWN GAS  
**Address:** 350 CHURCH ST  
FREDERICK, MD 21701  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NCI FREDERICK CANCER RESEARCH  
**Address:** FORT DETRICK  
FREDERICK, MD 21702  
**Aliases:** NONE  
**Status:**

**Site Name:** TRANS TECH / ADAMSTOWN SITE  
**Address:** ADAMSTOWN RD  
ADAMSTOWN, MD 21710  
**Aliases:** NONE  
**Status:**

**Site Name:** USA FORT DETRICK

**Address:** FORT DETRICK  
FREDERICK, MD 21702  
**Aliases:** NONE  
**Status:**

**Site Name:** USN NAVAL SUPORT FACILITY  
**Address:** POST OFFICE BOX 1000  
THURMONT, MD 21788  
**Aliases:** NONE  
**Status:**

**COUNTY: GARRETT**

**Site Name:** BAUSCH & LOMB INC - OAKLAND PLANT  
**Address:** RT 135  
OAKLAND, MD 21550  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HARBISON WALKER REFRACTORIES-NEW SAVAGE  
**Address:** RT 495  
GRANTSVILLE, MD 21536  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OAKLAND JUNKYARD SITE  
**Address:** RT 219  
OAKLAND, MD 21053  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TEXAS EASTERN-ACCIDENT STATION  
**Address:** FRIENDSVILLE RD  
ACCIDENT, MD 21520  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** UMBELL PROPERTY  
**Address:** RT 42  
FRIENDSVILLE, MD 21531  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WOOD PRODUCTS  
**Address:** 8TH ST EXT  
OAKLAND, MD 21550  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: HARFORD**

**Site Name:** ABERDEEN DUMP  
**Address:** MICHAEL LN  
ABERDEEN, MD 21005

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ABERDEEN PROVING GROUND - EDGEWOOD AREA  
**Address:** OFF PULASKI HWY  
ABERDEEN P G, MD 21010  
**Aliases:** NONE  
**Status:**

**Site Name:** ABERDEEN PROVING GROUND - MICHAELSVILLE LF  
**Address:** OFF PULASKI HWY  
ABERDEEN P G, MD 21005  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ABINGDON LANDFILL  
**Address:** 3111 OLD PHILADELPHIA RD (RT.7)  
ABINGDON, MD 21009  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BATA SHOE (LATEX LAGOON)  
**Address:** BELCAMP RD  
BELCAMP, MD 21017  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BATA SHOE (MAIN PLANT AND LANDFILL)  
**Address:** PULASKI HWY  
BELCAMP, MD 21017  
**Aliases:** NONE  
**Status:**

**Site Name:** BRAXTON PROPERTY LANDFILL  
**Address:** BUSH RD  
ABINGDON, MD 21009  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BUSH VALLEY LANDFILL  
**Address:** BUSH RD POB 246  
ABINGDON, MD 21009  
**Aliases:** NONE  
**Status:**

**Site Name:** HAVRE DE GRACE DUMP  
**Address:** QUARRY RD  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HAVRE DE GRACE PLANT



**Address:** 200 BLOCK JUNIATA ST  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** I.W. JENKINS-MOUNTAIN ROAD PROPERTY  
**Address:** 2206 MOUNTAIN RD  
JOPPA, MD 21085  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** JOHNSON PROPERTY LANDFILL  
**Address:** BUSH RD  
ABINGDON, MD 21009  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LONGS SEPTIC  
**Address:** 4025 GRAVEL HILL RD  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MCCORQUODALE COLOR CARD CO  
**Address:** 2737 WHITEFORD RD  
WHITEFORD, MD 21160  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MILLER CHEMICAL & FERTILIZER CORP  
**Address:** RTS 136 & 165  
WHITEFORD, MD 21160  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MOORE PROPERTY LANDFILL  
**Address:** BUSH RD  
ABINGTON, MD 21009  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MOUNTAIN ROAD EMERGENCY RESPONSE  
**Address:** MOUNTAIN RD & I-95  
JOPPA-MAGNOLIA, MD 21040  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MULLINS LANDFILL  
**Address:** OLD POST RD RT 132  
HAVRE DE GRACE, MD 21078  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SCARBORO LANDFILL  
**Address:** SCARBORO RD  
DUBLIN, MD 21154  
**Aliases:** NONE  
**Status:**

**Site Name:** UNION ROAD DUMP  
**Address:** 1515 UNION RD  
ABERDEEN, MD 21001  
**Aliases:** NONE  
**Status:**

**COUNTY: HOWARD**

**Site Name:** CEMETARY LN  
**Address:** MAYFIELD & MEADOWBRIDGE  
ELKRIDGE, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHESAPEAKE FINISHED METALS INC  
**Address:** 6754 SANTA BARBARA CT  
BALTIMORE, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GENERAL ELECTRIC CO  
**Address:** APPLIANCE PARK EAST  
COLUMBIA, MD 21046  
**Aliases:** NONE  
**Status:**

**Site Name:** HOWARD COUNTY LANDFILL  
**Address:** 4361 NEWCUT RD  
ELLCOTT CITY, MD 21043  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** JOHNS HOPKINS APPLIED PHYSICS LAB  
**Address:** JOHNS HOPKINS RD  
COLUMBIA, MD 207076099  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LONG LIFE TREATED WOOD INC  
**Address:** DORSEY RACEWAY RD  
DORSEY, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MAYFIELD REPAIR FACILITY  
**Address:** 7751 MAYFIELD AVE  
ELKRIDGE, MD 21227

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MULLINEX FARM  
**Address:** FLORENCE RD & A E MULLINEX RD  
LISBON, MD 21797  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OFFICE OF THE FIRE MARSHAL  
**Address:** GEORGE HOWARD BLDG  
ELLCOTT CITY, MD 21043  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OLGA NELSON ENTERPRISES  
**Address:** 7269 WASHINGTON BLVD  
DORSEY, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SCOVITCH PROPERTY  
**Address:** 9530 N WASHINGTON BLVD  
LAUREL, MD 21227  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TATE ACCESS FLOORS INC  
**Address:** 7510 MONTERIDEO RD  
JESSUP, MD 20794  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** W.R. GRACE WASHINGTON RESEARCH CENTER  
**Address:** 7379 GUILFORD RD (RT 32)  
COLUMBIA, MD 21044  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WESTVACO CORPORATION  
**Address:** 11101 JOHNS HOPKINS RD  
LAUREL, MD 20707  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: KENT**

**Site Name:** CHESTERTOWN GAS CO  
**Address:** W HIGH ST  
CHESTERTOWN, MD 21620  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHESTERTOWN MUN DUMP  
**Address:** FLATLAND RD  
CHESTERTOWN, MD 21620  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DUTCH FAMILY DELI OIL SPILL  
**Address:** INTERSECTION RTS 301 & 291  
MILLINGTON, MD 21651  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KENT PIT  
**Address:** CEDAR AVE  
CHESTERTOWN, MD 21620  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LAURENCE J NICHOLSON LANDFILL  
**Address:** NICHOLSON RD  
CHESTERTOWN, MD 21620  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TENNACO INC-CHESTERTOWN PLT  
**Address:** RT 297  
CHESTERTOWN, MD 21620  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TOLCHESTER - CONTROL  
**Address:** TOLCHESTER BEACH RD  
TOLCHESTER, MD 21661  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** TOLCHESTER - LAUNCH  
**Address:** ROCK HALL - TOLCHESTER RD  
TOLCHESTER, MD 21661  
**Aliases:** NONE  
**Status:**

**COUNTY: MONTGOMERY**

**Site Name:** DAVID TAYLOR RESEARCH CENTER  
**Address:** MACARTHUR BLVD  
BETHESDA, MD 20084  
**Aliases:** NONE  
**Status:**

**Site Name:** GAITHERSBURG - CONTROL  
**Address:** 8510 SNOUFFERS SCHOOL RD  
GAITHERSBURG, MD 20879

**Aliases:** NONE  
**Status:**

**Site Name:** GAITHERSBURG - LAUNCH  
**Address:** OFF SNOUFFERS SCHOOL RD  
GAITHERSBURG, MD 20879  
**Aliases:** NONE  
**Status:**

**Site Name:** KENNETH SHUMAKER DUMP  
**Address:** BARNESVILLE RD  
BARNESVILLE, MD 20872  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LAYTONSVILLE - CONTROL  
**Address:** ZION RD  
LAYTONSVILLE, MD 20879  
**Aliases:** NONE  
**Status:**

**Site Name:** LAYTONSVILLE - LAUNCH  
**Address:** 5321 RIGGS RD  
LAYTONSVILLE, MD 20879  
**Aliases:** NONE  
**Status:**

**Site Name:** MARYLAND WOOD PRESERVING CORP  
**Address:** 235 DERWOOD CIR  
ROCKVILLE, MD 20850  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MCCORMICK PAINT WORKS  
**Address:** 2355 LEWIS AVE  
ROCKVILLE, MD 20851  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MICRODYNE CORP  
**Address:** 627 LOFERRAND LN  
ROCKVILLE, MD 20850  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NAT'L INSTITUTE OF STANDARD TECHNOLOGY  
**Address:** INTERSTATE 270 & QUINCE ORCHAR  
GAITHERSBURG, MD 20899  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NATIONAL INST OF HEALTH

**Address:** 900 ROCKVILLE PIKE  
BETHESDA, MD 20014  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NAVAL MEDICAL COMMAND  
**Address:** 8901 WISCONSIN AVE  
BETHESDA, MD 208145000  
**Aliases:** NONE  
**Status:**

**Site Name:** NORTH POTOMAC PCP  
**Address:** 13801 TURKEY FOOT ROAD  
NORTH POTOMAC, MD 20878  
**Aliases:** NONE  
**Status:**

**Site Name:** PROTO CIRCUITS  
**Address:** 14674 D SOUTLAWN LN  
ROCKVILLE, MD 20850  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RIXON INC  
**Address:** 2120 INDUSTRIAL PKY  
SILVER SPRING, MD 20904  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ROCKVILLE - CONTROL  
**Address:** 10901 DARNSTOWN RD  
GAITHERSBURG, MD 20878  
**Aliases:** NONE  
**Status:**

**Site Name:** ROCKVILLE - LAUNCH  
**Address:** MUDDY BRANCH RD  
GAITHERSBURG, MD 20878  
**Aliases:** NONE  
**Status:**

**Site Name:** SAFETY KLEEN CORP-SILVER SPRING  
**Address:** 12164 TECH RD  
SILVER SPRING, MD 20904  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SILVER SPRINGS CUSTOM FURNITURE  
**Address:** 8943 BROOKVILLE RD  
SILVER SPRING, MD 20910  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** USN NAVAL SURFACE WARFARE CTR-WHITE OAK  
**Address:** 10901 NEW HAMPSHIRE AVE  
SILVER SPRING, MD 209035000  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** VECTROL INC  
**Address:** 1010 WESTMORE AVE  
ROCKVILLE, MD 20850  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WALTER REED AMC FOREST GLEN ANNEX  
**Address:** 2961 LINDEN LN  
SILVER SPRING, MD 20910  
**Aliases:** NONE  
**Status:**

**Site Name:** WALTER REED ARMY MEDICAL CENTER  
**Address:** MD RT 193  
WHEATON, MD 20902  
**Aliases:** NONE  
**Status:**

**Site Name:** WATKINS JOHNSON COMPANY  
**Address:** 700 QUINCE ORCHARD RD  
GATHERSBURG, MD 20760  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WEINSCHER ENGINEERING  
**Address:** 1 WEINSCHER LN  
GAITHERSBURG, MD 20878  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: PRINCE GEORGE'S**

**Site Name:** ADELPHI LABORATORY CENTER  
**Address:** 2800 POWDER MILL RD  
ADELPHI, MD 20783  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** AGGREGATE INDUSTRIES  
**Address:** DOWER HOWSER RD  
MELLWOOD, MD 20772  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ANACOSTIA RIVER PARK  
**Address:** S OF BLADENSBURG RD  
BLADENSBURG, MD 20722

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BEAVERDAM CREEK PCB  
**Address:** 0.5 OFF KENILWORTH AVE  
CHEVERLY, MD 20743  
**Aliases:** NONE  
**Status:**

**COUNTY: PRINCE GEORGE'S**

**Site Name:** BELTSVILLE AGRICULTURAL RESEARCH (USDA)  
**Address:** BUILDINGS 1321 & 204 BARL  
BELTSVILLE, MD 20705  
**Aliases:** NONE  
**Status:**

**Site Name:** BLADENSBURG ACETYLENE  
**Address:** 2900 52ND AVE  
HYATTSVILLE, MD 20781  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BOWIE-BELAIR LANDFILL  
**Address:** RT 3 & RT 450  
BOWIE, MD 20715  
**Aliases:** NONE  
**Status:**

**Site Name:** BRANDYWINE - CONTROL  
**Address:** 13400 EDGEMEADE RD  
NAYLOR, MD 20613  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BRANDYWINE - LAUNCH  
**Address:** CANDY HILL RD  
NAYLOR, MD 20613  
**Aliases:** NONE  
**Status:**

**Site Name:** BRANDYWINE DRMO SALVAGE YARD  
**Address:** BRANDYWINE RD  
ANDREWS, MD 20331  
**Aliases:** NONE  
**Status:**

**Site Name:** CAPITOL WIRE & FENCE  
**Address:** 3334 KENILWORTH AVE  
HYATTSVILLE, MD 20781  
**Aliases:** NONE  
**Status:** NFRAP



**Site Name:** CELIA LUST  
**Address:** BALTIMORE BLVD & SOUTHARD DR  
BELTSVILLE, MD 20705  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHELTENHAM BATTERY  
**Address:** 10800 FRANK TIPPETT RD  
CHELTENHAM, MD 20623  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CITY OF GREENBELT  
**Address:** 555 CRESCENT RD  
GREENBELT, MD 20770  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CLARK, J L MFG CO STONE INDUST  
**Address:** 51ST AVE AND CREE LNE  
COLLEGE PARK, MD 20740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** COLUMBIA PARK DRUM SITE  
**Address:** GEORGE PALMER HWY & COLUMB  
COLUMBIA PARK, MD 20785  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CONTEE SAND & GRAVEL  
**Address:** OFF VIRGINIA MANOR RD  
BELTSVILLE, MD 20705  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CROOM - CONTROL  
**Address:** 15100 MT CALVERT RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE  
**Status:**

**Site Name:** CROOM - LAUNCH  
**Address:** 8520 DUVALL RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CROOM MILITARY HOUSING  
**Address:** 15512 MOUNT CALVERT RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE

**Status:** NFRAP  
**Site Name:** EAGLE HARBOR TIRE FIRE  
**Address:** EAGLE HARBOR RD  
 EAGLE HARBOR, MD 20608  
**Aliases:** NONE  
**Status:**

**Site Name:** EVANS TRAIL DUMP SITE  
**Address:** EVANS TRAIL  
 CALVERTON, MD 20705  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GLENDALE PLANT GERMPLASM QUARANTINE FAC  
**Address:** 11601 OLD POND DR  
 GLENN DALE, MD 20769  
**Aliases:** NONE  
**Status:**

**Site Name:** GSA BLADENSBURG  
**Address:** 4125 46TH ST  
 BLADENSBURG, MD 20710  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HYATTSVILLE GAS & ELECTRIC  
**Address:** 5022 RHODE ISLAND AVE  
 EDMONSTON, MD 20781  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO DUMPSITE LAUREL  
**Address:** RT 1 & CONTEE RD  
 LAUREL, MD 20707  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO LAUREL  
**Address:** RIVERSIDE DR  
 LAUREL, MD 20707  
**Aliases:** NONE  
**Status:**

**Site Name:** LAUREL CITY LANDFILL  
**Address:** RT 198 FT MEADE RD  
 LAUREL, MD 20707  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** LONDON HILLS DEVELOPMENT  
**Address:** END OF HIGHVIEW PLACE

**Aliases:** CAPITOL HEIGHTS, MD 20743  
**Status:** NONE  
 NFRAP

**Site Name:** MID ATLANTIC WOOD FINISHING INC.  
**Address:** 4656 ADDISON RD  
 CAPITOL HEIGHTS, MD 20743  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MINERAL PIGMENTS CORP-BELTSVILLE  
**Address:** 7011 MUIRKIRK RD  
 MUIRKIRK, MD 20705  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NASA-GODDARD SPACE FLIGHT CENTER  
**Address:** GREENBELT RD  
 GREENBELT, MD 20770  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NATIONAL FENCE MFG CO INC  
**Address:** 4301 46TH ST  
 BLADENSBURG, MD 20710  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NELSON PERRIE DUMP  
**Address:** 15200 NELSON PERRIE RD  
 BALD EAGLE, MD 20613  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** OLD FORT ROAD SITE (A-D-base listed as FIS)  
**Address:** 11920 S OLD FORT RD  
 FORT WASHINGTON, MD 20744  
**Aliases:** NONE  
**Status:**

**Site Name:** PAINT BRUSH LF AREA #3  
**Address:** UNIV OF MD COLLEGE PARK CAMP  
 COLLEGE PARK, MD 20742  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PATUXENT WILDLIFE RESEARCH CENTER  
**Address:** RT 197 AND POWDERMILL RD  
 LAUREL, MD 20708  
**Aliases:** NONE  
**Status:**

**Site Name:** PISCATAWAY WWTP  
**Address:** RT 210 & FARMINGTON RD BOX 327  
ACCOKEEK, MD 20607  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ROGERS ELECTRIC  
**Address:** 5720 COLUMBIA PARK  
CHEVERLY, MD 20785  
**Aliases:** NONE  
**Status:**

**Site Name:** U.S. NAVAL COMMUNICATION UNIT  
**Address:** DANGERFIELD RD AND COMMO RD  
CHELTENHAM, MD 20735  
**Aliases:** NONE  
**Status:**

**Site Name:** UNITED RIGGING & HAULING  
**Address:** 6701 AMMENDALE RD  
BELTSVILLE, MD 20705  
**Aliases:** NONE  
**Status:**

**Site Name:** USAF ANDREWS AIR FORCE BASE  
**Address:** PERIMETER RD  
ANDREWS AFB, MD 20331  
**Aliases:** NONE  
**Status:**

**Site Name:** W P BALLARD BUILDING  
**Address:** 10722 TUCKER ST  
BELTSVILLE, MD 20705  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WALDORF - LAUNCH  
**Address:** COUNTRY LANE  
BRANDYWINE, MD 20601  
**Aliases:** NONE  
**Status:**

**Site Name:** WILLIAM PLEASANTS  
**Address:** ALLENTOWN RD  
FRIENDLY, MD 20744  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WINDSOR MANOR RD  
**Address:** WINDSOR MANOR RD  
BRANDYWINE, MD 20613  
**Aliases:** NONE

**Status:**

**COUNTY: QUEEN ANNE'S**

**Site Name:** TOM DODD SPORTING CLAYS SITE  
**Address:** 620 TOM DODD FARM LN  
QUEENSTOWN, MD 21658  
**Aliases:** NONE  
**Status:**

**COUNTY: SOMERSET**

**Site Name:** BEITZEL CABINET & MILLWORK INC.  
**Address:** BROAD ST  
PRINCESS ANNE, MD 21853  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CRISFIELD CITY DUMP  
**Address:** WATER ST  
CRISFIELD, MD 21817  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CRISFIELD LIGHT & POWER CO  
**Address:** RT 413  
CRISFIELD, MD 21817  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RING LANDFILL  
**Address:** MILLARD RD  
WESTOVER, MD 21871  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SHERWIN WILLIAMS RUBBERSET DIV  
**Address:** RT 413  
CRISFIELD, MD 21817  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: SOMERSET**

**Address:** ARDEN STATION RD  
WESTOVER, MD 21871  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: ST MARY'S**

**Site Name:** CALIFORNIA DRUM SITE  
**Address:** ST ANDREWS CHURCH RD  
CALIFORNIA, MD 20619  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GENSTAR STONE PRODUCTS  
**Address:** RT 235  
HOLLYWOOD, MD 20619  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** PATUXTENT RIVER NAVAL AIR STATION  
**Address:** BUTT RIFLE RANGE LANDFILL  
PATUXENT, MD 20670  
**Aliases:** NONE  
**Status:**

**Site Name:** SOUTHERN MARYLAND WOOD TREATING  
**Address:** STATE RT 235  
HOLLYWOOD, MD 20636  
**Aliases:** NONE  
**Status:**

**Site Name:** SPRINGER SEPTIC SERVICES  
**Address:** 8 & CHAPTICO HWY RD  
CHAPITCO, MD 20621  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ST. MARY'S SALVAGE  
**Address:** ST MARY'S INDUSTRIAL PARK  
ST MARY'S, MD 20686  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** THIOKOL CORP MECHANICSVILLE  
**Address:** RT 235  
MECHANICSVILLE, MD 20659  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** USN NAVAL ELECTRONICS SYS ENG ACT  
**Address:** VILLA RD OFF RT 5  
ST. INIGOES, MD 20684  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: TALBOT**

**Site Name:** DOC NAT'L MARINE FISHERIES SERV.  
**Address:** SOUTH MORRIS ST EXT  
OXFORD, MD 21654  
**Aliases:** NONE  
**Status:**

**Site Name:** EASTON GAS & LIGHT CO  
**Address:** 1 S WEST ST  
EASTON, MD 21601

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EASTON UTILITIES COMM MUNI ELE  
**Address:** 219 NORTH WASHINGTON S  
EASTON, MD 21601  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** EASTON UTILITIES COMM POWER PL  
**Address:** AIRPORT INDUSTRIAL PARK  
EASTON, MD 21601  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NOBLE MOTOR REBUILDERS  
**Address:** N. AURORA ST  
EASTON, MD 21601  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: WASHINGTON**

**Site Name:** ANGSTROHM PRECISION INC.  
**Address:** 1 PRECISION PLACE  
HAGERSTOWN, MD 21742  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CENTRAL CHEMICAL (OFFICE)  
**Address:** 49 N JONATHAN ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:**

**Site Name:** CENTRAL CHEMICAL CORP (SITE)  
**Address:** 705 MITCHELL AVE  
HAGERSTOWN, MD 21742  
**Aliases:** NONE  
**Status:**

**Site Name:** CERTAIN TEED METALS  
**Address:** INTRASTATE INDUSTRIAL PARK  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHEVRON CHEMICAL CO - WILLIAMSPORT  
**Address:** ARTISAN AVE  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHEWSVILLE CO-OP  
**Address:** MAIN ST  
 CHEWSVILLE, MD 21721  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DANZER METAL WORKS CO  
**Address:** 2000 YORK RD  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** FAIRCHILD REPUBLIC CO PLANT 11  
**Address:** SHOWALTER RD  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:**

**Site Name:** FRANKLIN SPICKLER PROPERTY SITE  
**Address:** GREENCASTLE PIKE  
 MAUGANSVILLE, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GENUINE PARTS CO - RAYLOCK DIV.  
**Address:** 100 RAYLOCK DR  
 HANCOCK, MD 21750  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HAGERSTOWN - AMERICAN LIGHT & HEAT CO  
**Address:** SYCAMORE ST / SPRUCE ST.?  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:**

**Site Name:** HAGERSTOWN LIGHT & HEAT CO  
**Address:** SOUTH LOCUST ST  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HAGERSTOWN LIGHT & HEAT CO (see MD-194)  
**Address:** WEST WASHINGTON ST  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** HAGERSTOWN-BROADFORDING ROAD  
**Address:** CEARFOSS & BROADFORDING RD  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE



**Status:** NFRAP

**Site Name:** KOPPERS CO HAGERSTOWN PLT  
**Address:** 100 CLAIR ST  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MACK TRUCKS INC  
**Address:** 1999 PENNSYLVANIA AVE  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** MAGNUS CO INC  
**Address:** ELIZABETH ST  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** NEWELL ENTERPRISES INC.  
**Address:** LESLIE RD  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RUST-O- LEUM CORPORATION  
**Address:** INTERSTATE INDUSTRIAL PAR  
 WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SUN CHEMICAL CORP GPI DIV  
**Address:** INDUSTRIAL LN  
 WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** W.D. BYRON & SONS INC.  
**Address:** FENTON AVE  
 WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WEST MANUFACTURING COMPANY  
**Address:** 910 ELDRIDGE DR  
 HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: WICOMICO**

**Site Name:** ADAMS CO AND SON INC  
**Address:** NORTHWOOD DR & ARLINGTON RD  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** ATLANTIC WOOD INDUSTRIES  
**Address:** OLD EDEN RD  
FRUITLAND, MD 21826  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BLACKWATER SOLID WASTE TRANSFER STATION  
**Address:** WALLER RD  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHESAPEAKE SHIPBUILDERS,INC.  
**Address:** 710 FITZWATER ST  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHEVRON CHEM CO - SALISBURY  
**Address:** 125 BATEMAN RD  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** DRESSER INDUSTRIES  
**Address:** 124 WEST COLLEGE AVE  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** GRIGCO WASTE OIL RECYCLING INC  
**Address:** WATER ST  
SHARPTOWN, MD 21861  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** KOPPERS CO SALISBURY  
**Address:** QUANTICO RD  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:**

**Site Name:** LONG-LIFE TREATED WOOD INC  
**Address:** OLD RAILRD RD  
HEBRON, MD 21830

**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** RIVER HARBOR DEVELOPMENT  
**Address:** RIVER HARBOR DR EXTENDED  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SALISBURY MARKETING INC  
**Address:** N SALISBURY BLVD & BRIDGEVIEW  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** SALISBURY TOWN GAS  
**Address:** 520 COMMERCE ST  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status:** NFRAP

**COUNTY: WORCESTER**

**Site Name:** BERLIN LANDFILL  
**Address:** HONEYSUCKLE RD  
BERLIN, MD 21811  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** BISHOP PROCESSING CO  
**Address:** OLD STAGE RD  
BISHOP, MD 21813  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** CHESAPEAKE WOOD TREATING CORP  
**Address:** POCOMOKE  
POCOMOKE CITY, MD 21851  
**Aliases:** NONE  
**Status:** NFRAP

**Site Name:** WEST OCEAN CITY LANDFILL  
**Address:** LEWIS RD  
OCEAN CITY, MD 21811  
**Aliases:** NONE  
**Status:**

## **LAND RESTORATION PROGRAM FORMERLY INVESTIGATED SITES LIST**

These sites have been investigated by the United States Environmental Protection Agency and the Maryland Department of the Environment and determined not to require further action based on the information available to the agencies at the time of review.

**Maryland Department of the Environment  
Formerly Investigated Site List  
July 2008**

**COUNTY: ALLEGANY**

**Site Name:** AETNA LUMBER  
**Address:** MC MULLEN HWY  
LOWNDES, MD 21502  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** LAVALE WAREHOUSE FIRE  
**Address:** 1210 NATIONAL HWY  
LAVALE, MD 21502  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PRECISE METALS AND PLASTICS, INC  
**Address:** DAY RD  
CUMBERLAND, MD 21502  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WILLISON OIL COMPANY  
**Address:** BALTIMORE PIKE  
CRESAPTOWN, MD 21502  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: ANNE ARUNDEL**

**Site Name:** A. S. PEARMON  
**Address:** 1270 HARDY RD  
ARNOLD, MD 21012  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ANNAPOLIS PLT  
**Address:** CALVERT & ST JOHN STS  
ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ANNE ARUNDEL CO LANDFILL  
**Address:** DOVER ST  
GLEN BURNIE, MD 21060  
**Aliases:** NONE  
**Status (FIS):** yes

**Site Name:** CHERRY PIT DRUM SITE B  
**Address:** 701 PITTMAN ROAD - SITE B  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DAVID TAYLOR/ANNAPOLIS-CONTROL  
**Address:** 640A BRDNECK RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DAVIDSONVILLE-CONTROL  
**Address:** QUEEN ANNE BRIDGE RD & WAYSON  
 DAVIDSONVILLE, MD 21035  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DAVIDSONVILLE-LAUNCH  
**Address:** 3737 ELMER F HAGNER LN  
 DAVIDSONVILLE, MD 21035  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DIAMOND SHAMROCK CORP CHEMETALS DIV  
**Address:** 711 PITTMAN RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EPA CENTRAL REGIONAL LABORATORY  
**Address:** 839 BESTGATE RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** FRESH POND  
**Address:** FOREST GLEN DR  
 JACOBSVILLE, MD 21122  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KOP-FLEX, INC  
**Address:** 101 HARMANS RD  
 HARMONS, MD 21077  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MID-ATLANTIC WOOD PRESERVERS  
**Address:** P O BOX 58 SHIPLEY AVE  
 HARMANS, MD 21077  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MIDDLETOWN ROAD DUMP SITE  
**Address:** MIDDLETOWN RD  
 ANNAPOLIS, MD 21401  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NEVAMAR CORP  
**Address:** 8339 TELEGRAPH RD  
 ODENTON, MD 21113  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PUBLISHERS PRINTING SERVICE INC.  
**Address:** 10650 RIGGS HILL RD  
 JESSUP, MD 20794  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SNOW HILL LANE SITE  
**Address:** SNOW HILL LN & CEDAR HILL LN  
 BROOKLYN, MD 21225  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: BALTIMORE**

**Site Name:** BACK RIVER  
**Address:** BEACHWOOD AVE AT PORTER POINT  
 ESSEX, MD 21221  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BATAVIA LANDFILL  
**Address:** 619 BATAVIA FARM RD  
 ROSEDALE, MD 21237  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BAUSCH & LOMB, DIECRAFT  
**Address:** 14600 YORK RD  
 SPARKS, MD 21152  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** FOUR CORNERS ( JACKSONVILLE )  
**Address:** JARRETSVILLE PK & SWEET AIR RD  
 JACKSONVILLE, MD 21131  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** J & L INDUSTRIES INC  
**Address:** 6923 EBENEZER RD  
 CHASE, MD 21220  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KOPPERS CO- GLEN ARM  
**Address:** GLEN ARM RD  
 GLEN ARM, MD 21087  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** LEO J. MCCOURT DUMP  
**Address:** MORSE RD  
SPARROWS POINT, MD 21219  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MARYVALE PREPARATORY SCHOOL  
**Address:** 11300 FALLS RD  
BROOKLANDVILLE, MD 21093  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** METALS & RESIDUES PROCESSING  
**Address:** 4400 MILFORD MILL RD  
PIKESVILLE, MD 21208  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** METALS & RESIDUES PROCESSING  
**Address:** 10107 MARBLE CT  
COCKEYSVILLE, MD 21030  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NATIONAL CIRCUIT INC-TIMONIUM PROPERTY  
**Address:** 108 TIMONIUM RD  
TIMONIUM, MD 21093  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NATIONAL CIRCUITS INC-PIKESVILLE PROPERTY  
**Address:** PARK CIR  
TOWSON, MD 21286  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** REISTERS PROPERTY  
**Address:** JUNCTION MD RTS 30 & 140  
REISTERSTOWN, MD 21136  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** RELAY MUD SLIDE  
**Address:** WOODLAND & VIADUCT AVES  
RELAY, MD 21227  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SAFETY KLEEN CORP-CATONSVILLE  
**Address:** 1012-1/2 LESLIE AVE  
CATONSVILLE, MD 21228  
**Aliases:** NONE  
**Status (FIS):** Yes



**Site Name:** SMUCK DUMP  
**Address:** HOLLINS FERRY RD  
 HALETHORPE, MD 21227  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SPARROWS POINT PATAPSCO RIVER  
**Address:** PATAPSCO RIVER  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SUN CHEMICAL CORP-GPI DIV  
**Address:** 42 GWYNNNS MILL CT  
 OWINGS MILLS, MD 21117  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** THOMPSON STEEL COMPANY INC  
**Address:** NORTH POINT BLVD  
 SPARROWS POINT, MD 21219  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: BALTIMORE CITY**

**Site Name:** 4TH GAS HOUSE (Same as MD-159)  
**Address:** LANCASTER AND PATAPSCO STS  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** AINSWORTH PAINT MFG SITE  
**Address:** 3200 BIDDLE ST  
 BALTIMORE, MD 21231  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** AMERICAN NATIONAL CAN CO  
**Address:** BOSTON & HUDSON ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** AMERICAN SHOT & LEAD CO  
**Address:** FAYETTE, PITT & FRONT STS  
 BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** AMOCO OIL CO  
**Address:** 3901 ASIATIC AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ARMCO BALTIMORE WKS  
**Address:** 3501 E BIDDLE ST  
 BALTIMORE, MD 21213  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BALTIMORE IRON & METAL  
**Address:** PIER 11, PATAPSCO RIVER E NEWGATE  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BALTIMORE STEEL DRUM CORP  
**Address:** 910 KRESSON ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** yes

**Site Name:** BIOCHEM  
**Address:** 3901 ASIATIC AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BIOCHEM MANAGEMENT INC  
**Address:** 1917 BENHILL AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BOARMAN, JW CO, INC  
**Address:** 2821-23 FOSTER AVE  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BRUNING PAINT CO  
**Address:** 601 S HAVEN ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CAPITAL ASSAY LABS SITE  
**Address:** 2901 WHITTINGTON AVE  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CHEVRON USA/ BALTIMORE REFINERY  
**Address:** 1955 CHESAPEAKE AVE  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CONOCO INC BALTIMORE TERM  
**Address:** 3410 FAIRFIELD RD  
 BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CONTINENTAL CAN CO.- USA PLANT #16  
**Address:** 3701 DUNCANWOOD LN  
 BALTIMORE, MD 21213  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DYNASURF CHEMICAL CORP  
**Address:** 1411 FLEET ST  
 BALTIMORE, MD 21231  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EAST FEDERAL STREET SITE  
**Address:** EAST OF 3520 EAST FEDERAL ST  
 BALTIMORE, MD 21213  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EXXON CO USA  
**Address:** 3801 BOSTON ST  
 BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** FORT HOLABIRD CRIME RECORDS CENTER  
**Address:** CORNER OF OAKLAND & DETROIT AVES  
 BALTIMORE, MD 21222  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** G & M TERMINAL  
**Address:** 1549 WARWICK AVE  
 BALTIMORE, MD 21216  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KEY HIGHWAY SHIPYARD  
**Address:** 1101 KEY HWY  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KOPPER CO INC - METAL PRODUCTS DIVISION  
**Address:** 200 SCOTT ST  
 BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KOPPERS CO BALTIMORE TREATING PLT LANDFILL  
**Address:** CHILDS ST  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** LOCOMOTIVE JUNKYARD  
**Address:** NEAR 6000 CHEMICAL ROAD  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** M-V SANTA CLARA I  
**Address:** DUNDALK MARINE TERMINAL/SEA  
DUNDALK, MD 21222  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MORGAN STATE UNIVERSITY SITE  
**Address:** COLD SPRING LN & HILLEN RD  
BALTIMORE, MD 21239  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MRI CORPORATION  
**Address:** 414 CHESAPEAKE AVE  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NL INDUSTRIES INC-BALTIMORE METAL PLT  
**Address:** 214 W HENRIETTA ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NL INDUSTRIES INC-WHITE LEAD PLT  
**Address:** 204 SPEARS WHARF  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PLATING SITE  
**Address:** 1009 W. BALTIMORE ST  
BALTIMORE, MD 21223  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PORT LIBERTY INDUSTRIAL PARK  
**Address:** 1800 FRANKFURST AVE  
BALTIMORE, MD 21202  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ROBERT E. LEE PARK/LAKE ROLAND BRIDGE  
**Address:** RAILROAD MARKER 387  
MT.WASHINGTON, MD 21212  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SMITH, F. BOWIE & SON INC  
**Address:** 4500 E LOMBARD ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SOUTHGATE INDUSTRIAL PARK  
**Address:** 2147 WICOMICO ST  
BALTIMORE, MD 21230  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** STRIEGAL SUPPLY & EQUIPMENT CO.  
**Address:** 6001 CHEMICAL RD  
BALTIMORE, MD 21226  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** TANK BARGE #626  
**Address:** PIER ONE / CLINTON ST  
BALTIMORE, MD 21224  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: CAROLINE**

**Site Name:** DAVES RELOADING & GUN REPAIR  
**Address:** FLEETWOOD RD  
DENTON, MD 21629  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: CARROLL**

**Site Name:** 3M NATIONAL ADVER.-WESTMINSTER  
**Address:** 1030 BALTIMORE BLVD  
WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CATALYST RESEARCH  
**Address:** 1125 POOLE RD  
WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** KATE WAGNER LANDFILL  
**Address:** OLD WESTMINSTER RD & KATE WAGNER  
WESTMINSTER, MD 21157  
**Aliases:** NONE

**Status (FIS):** yes

**Site Name:** LANG'S JUNKYARD  
**Address:** RT 30 - BETWEEN 232 & 242  
HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NORTH CARROLL SHOPPING PLAZA  
**Address:** RT 30 & BRODBECK RD  
HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** POWRMATIC INC  
**Address:** INDUSTRIAL PARK DR  
FINKSBURG, MD 21048  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SMALL LAB SITE  
**Address:** 7606 PATAPSCO DR  
SYKESVILLE, MD 21784  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WESTMINSTER PLANT  
**Address:** GEORGE ST  
WESTMINSTER, MD 21157  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WOLF HILL  
**Address:** OFF OF RT 30  
HAMPSTEAD, MD 21074  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: CECIL**

**Site Name:** BIG ELK CHAPEL ROAD LANDFILL  
**Address:** OFF BIG ELK CHAPEL RD  
PROVIDENCE, MD 21921  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CECIL COUNTY LANDFILL  
**Address:** OLD ELK NECK RD  
ELKTON, MD 21901  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CENTRAL CHEMICAL CO  
**Address:** TRINCO INDUSTRIAL PARK  
ELKTON, MD 21921

**Aliases:** NONE  
**Status (FIS):** yes

**Site Name:** FIRESTONE PERRYVILLE PLANT  
**Address:** FIRESTONE RD  
 PERRYVILLE, MD 21903  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** HOG HILL LANDFILL  
**Address:** PHILADELPHIA RD  
 NORTH EAST, MD 21921  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** IRON HILL ROAD DRUM SITE  
**Address:** 117 IRON HILL RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status (FIS):** yes

**Site Name:** LOUISA LANE DUMPSITE  
**Address:** LOUISA LN EXTENDED  
 CHARLESTOWN, MD 21914  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MALMO FARMS  
**Address:** 1435 CAYOTS CORNER RD  
 CHESAPEAKE CITY, MD 21915  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NAVAL TRAINING CENTER BAINBRIDGE  
**Address:** BAINBRIDGE RD  
 BAINBRIDGE, MD 21904  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** OLD ELKTON DUMP  
**Address:** JONES CHAPEL RD  
 ELKTON, MD 21921  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PRINCIPIO ROAD  
**Address:** 551 PRINCIPIO RD  
 CRAIGTOWN, MD 21904  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** REEVES SITE  
**Address:** 400 MARLEY RD  
 ELKTON, MD 21921

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** RMR  
**Address:** 695 N BRIDGE ST  
ELKTON, MD 21921

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** STAUFFER CHEM CO  
**Address:** BLUEBELL RD TRINCO IND COM  
ELKTON, MD 21921

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** STEMMERS RUN  
**Address:** STEMMERS RUN RD  
EARLESVILLE, MD 21919

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** USCG BACK CREEK REAR RANGE STRUCTURE  
**Address:** WELCH POINT  
CHESAPEAKE CITY, MD 21921

**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: CHARLES**

**Site Name:** DEAD TREES IN A POND SITE  
**Address:** 0.6 MILES PAST CORNER OF GLYM  
PISGAH, MD 20640

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** HUGHESVILLE TIRE SITE  
**Address:** GALLANT GREEN RD  
HUGHESVILLE, MD 20601

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** US NAVAL RESEARCH LAB - LAUNCH  
**Address:** BERRY RD  
WALDORF, MD 20601

**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: DORCHESTER**

**Site Name:** CAMBRIDGE CY DISP PLT WWTP  
**Address:** 1010 ROSELIN AVE  
CAMBRIDGE, MD 21613

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CAMBRIDGE SITE



**Address:** 311 TRENTON  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CONTINENTAL CAN CO-USA PLANT 24  
**Address:** RAILRD AVE  
HURLOCK, MD 21643  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WESTERN PUBLISHING CO  
**Address:** WOODS RD  
CAMBRIDGE, MD 21613  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: FREDERICK**

**Site Name:** ABRAMSON PROPERTY  
**Address:** 9925 PINE TREE RD  
WOODSBORO, MD 21798  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** FREDERICK TOOL AND DIE CO INC  
**Address:** 579 E.CHURCH ST  
FREDERICK, MD 21701  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** TRANS TECH / ADAMSTOWN SITE  
**Address:** ADAMSTOWN RD  
ADAMSTOWN, MD 21710  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: GARRETT**

**Site Name:** BAUSCH & LOMB INC - OAKLAND PLANT  
**Address:** RT 135  
OAKLAND, MD 21550  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** HARBISON WALKER REFRACTORIES-NEW SAVAGE  
**Address:** RT 495  
GRANTSVILLE, MD 21536  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** UMBELL PROPERTY  
**Address:** RT 42  
FRIENDSVILLE, MD 21531  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WOOD PRODUCTS  
**Address:** 8TH ST EXT  
OAKLAND, MD 21550  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: HARMFORD**

**Site Name:** BATA SHOE (LATEX LAGOON)  
**Address:** BELCAMP RD  
BELCAMP, MD 21017  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BATA SHOE (MAIN PLANT AND LANDFILL)  
**Address:** PULASKI HWY  
BELCAMP, MD 21017  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MOORE PROPERTY LANDFILL  
**Address:** BUSH RD  
ABINGTON, MD 21009  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** MOUNTAIN ROAD EMERGENCY RESPONSE  
**Address:** MOUNTAIN RD & I-95  
JOPPA-MAGNOLIA, MD 21040  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: HOWARD**

**Site Name:** CHESAPEAKE FINISHED METALS INC  
**Address:** 6754 SANTA BARBARA CT  
BALTIMORE, MD 21227  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** HOWARD COUNTY LANDFILL  
**Address:** 4361 NEWCUT RD  
ELLCOTT CITY, MD 21043  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** OLGA NELSON ENTERPRISES  
**Address:** 7269 WASHINGTON BLVD  
DORSEY, MD 21227  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SCOVITCH PROPERTY  
**Address:** 9530 N WASHINGTON BLVD  
LAUREL, MD 21227  
**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** TATE ACCESS FLOORS INC

**Address:** 7510 MONTERIDEO RD  
JESSUP, MD 20794

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** WESTVACO CORPORATION

**Address:** 11101 JOHNS HOPKINS RD  
LAUREL, MD 20707

**Aliases:** NONE

**Status (FIS):** Yes

**COUNTY: KENT**

**Site Name:** DUTCH FAMILY DELI OIL SPILL

**Address:** INTERSECTION RTS 301 & 291  
MILLINGTON, MD 21651

**Aliases:** NONE

**Status (FIS):** Yes

**COUNTY: MONTGOMERY**

**Site Name:** MARYLAND WOOD PRESERVING CORP

**Address:** 235 DERWOOD CIR  
ROCKVILLE, MD 20850

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** MICRODYNE CORP

**Address:** 627 LOFERRAND LN  
ROCKVILLE, MD 20850

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** NORTH POTOMAC PCP

**Address:** 13801 TURKEY FOOT ROAD  
NORTH POTOMAC, MD 20878

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** PROTO CIRCUITS

**Address:** 14674 D SOUTLAWN LN  
ROCKVILLE, MD 20850

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** SILVER SPRINGS CUSTOM FURNITURE

**Address:** 8943 BROOKVILLE RD  
SILVER SPRING, MD 20910

**Aliases:** NONE

**Status (FIS):** Yes

**Site Name:** VECTROL INC

**Address:** 1010 WESTMORE AVE

ROCKVILLE, MD 20850  
**Aliases:** NONE  
**Status (FIS):** Yes  
  
**Site Name:** WATKINS JOHNSON COMPANY  
**Address:** 700 QUINCE ORCHARD RD  
GATHERSBERG, MD 20760  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: PRINCE GEORGE'S**

**Site Name:** BEAVERDAM CREEK PCB  
**Address:** 0.5 OFF KENILWORTH AVE  
CHEVERLY, MD 20743  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** BOWIE-BELAIR LANDFILL  
**Address:** RT 3 & RT 450  
BOWIE, MD 20715  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CAPITOL WIRE & FENCE  
**Address:** 3334 KENILWORTH AVE  
HYATTSVILLE, MD 20781  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CHELTENHAM BATTERY  
**Address:** 10800 FRANK TIPPETT RD  
CHELTENHAM, MD 20623  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CITY OF GREENBELT  
**Address:** 555 CRESCENT RD  
GREENBELT, MD 20770  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CLARK, J L MFG CO STONE INDUST  
**Address:** 51ST AVE AND CREE LNE  
COLLEGE PARK, MD 20740  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** COLUMBIA PARK DRUM SITE  
**Address:** GEORGE PALMER HWY & COLUMB  
COLUMBIA PARK, MD 20785  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CROOM MILITARY HOUSING

**Address:** 15512 MOUNT CALVERT RD  
UPPER MARLBORO, MD 20772  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EVANS TRAIL DUMP SITE  
**Address:** EVANS TRAIL  
CALVERTON, MD 20705  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** HYATTSVILLE GAS & ELECTRIC  
**Address:** 5022 RHODE ISLAND AVE  
EDMONSTON, MD 20781  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** LONDON HILLS DEVELOPMENT  
**Address:** END OF HIGHVIEW PLACE  
CAPITOL HEIGHTS, MD 20743  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** PISCATAWAY WWTP  
**Address:** RT 210 & FARMINGTON RD BOX 327  
ACCOKEEK, MD 20607  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ROGERS ELECTRIC  
**Address:** 5720 COLUMBIA PARK  
CHEVERLY, MD 20785  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WINDSOR MANOR RD  
**Address:** WINDSOR MANOR RD  
BRANDYWINE, MD 20613  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: SOMERSET**

**Site Name:** SHERWIN WILLIAMS RUBBERSET DIV  
**Address:** RT 413  
CRISFIELD, MD 21817  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: ST MARY'S**

**Site Name:** CALIFORNIA DRUM SITE  
**Address:** ST ANDREWS CHURCH RD  
CALIFORNIA, MD 20619  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SOUTHERN MARYLAND WOOD TREATING  
**Address:** STATE RT 235  
HOLLYWOOD, MD 20636  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** ST. MARY'S SALVAGE  
**Address:** ST MARY'S INDUSTRIAL PARK  
ST MARY'S, MD 20686  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: TALBOT**

**Site Name:** EASTON GAS & LIGHT CO  
**Address:** 1 S WEST ST  
EASTON, MD 21601  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EASTON UTILITIES COMM MUNI ELE  
**Address:** 219 NORTH WASHINGTON S  
EASTON, MD 21601  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** EASTON UTILITIES COMM POWER PL  
**Address:** AIRPORT INDUSTRIAL PARK  
EASTON, MD 21601  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** NOBLE MOTOR REBUILDERS  
**Address:** N. AURORA ST  
EASTON, MD 21601  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: WASHINGTON**

**Site Name:** CENTRAL CHEMICAL (OFFICE)  
**Address:** 49 N JONATHAN ST  
HAGERSTOWN, MD 21740  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CERTAIN TEED METALS  
**Address:** INTRASTATE INDUSTRIAL PARK  
WILLIAMSPORT, MD 21795  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CHEVRON CHEMICAL CO - WILLIAMSPORT  
**Address:** ARTISAN AVE  
WILLIAMSPORT, MD 21795

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CHEWSVILLE CO-OP  
**Address:** MAIN ST  
CHEWSVILLE, MD 21721

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** DANZER METAL WORKS CO  
**Address:** 2000 YORK RD  
HAGERSTOWN, MD 21740

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** FRANKLIN SPICKLER PROPERTY SITE  
**Address:** GREENCASTLE PIKE  
MAUGANSVILLE, MD 21740

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** RUST-O- LEUM CORPORATION  
**Address:** INTERSTATE INDUSTRIAL PAR  
WILLIAMSPORT, MD 21795

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SUN CHEMICAL CORP GPI DIV  
**Address:** INDUSTRIAL LN  
WILLIAMSPORT, MD 21795

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WEST MANUFACTURING COMPANY  
**Address:** 910 ELDRIDGE DR  
HAGERSTOWN, MD 21740

**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: WICOMICO**

**Site Name:** BLACKWATER SOLID WASTE TRANSFER STATION  
**Address:** WALLER RD  
SALISBURY, MD 21801

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** CHEVRON CHEM CO - SALISBURY  
**Address:** 125 BATEMAN RD  
SALISBURY, MD 21801

**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** GRIGCO WASTE OIL RECYCLING INC  
**Address:** WATER ST

SHARPTOWN, MD 21861  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** RIVER HARBOR DEVELOPMENT  
**Address:** RIVER HARBOR DR EXTENDED  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** SALISBURY MARKETING INC  
**Address:** N SALISBURY BLVD & BRIDGEVIEW  
SALISBURY, MD 21801  
**Aliases:** NONE  
**Status (FIS):** Yes

**COUNTY: WORCESTER**

**Site Name:** BISHOP PROCESSING CO  
**Address:** OLD STAGE RD  
BISHOP, MD 21813  
**Aliases:** NONE  
**Status (FIS):** Yes

**Site Name:** WEST OCEAN CITY LANDFILL  
**Address:** LEWIS RD  
OCEAN CITY, MD 21811  
**Aliases:** NONE  
**Status (FIS):** Yes