

**MARYLAND DEPARTMENT OF THE
ENVIRONMENT**



**ENVIRONMENTAL RESTORATION &
REDEVELOPMENT PROGRAM**

CONGRESSIONAL BRIEFING

MAY 12, 2000

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INTRODUCTION



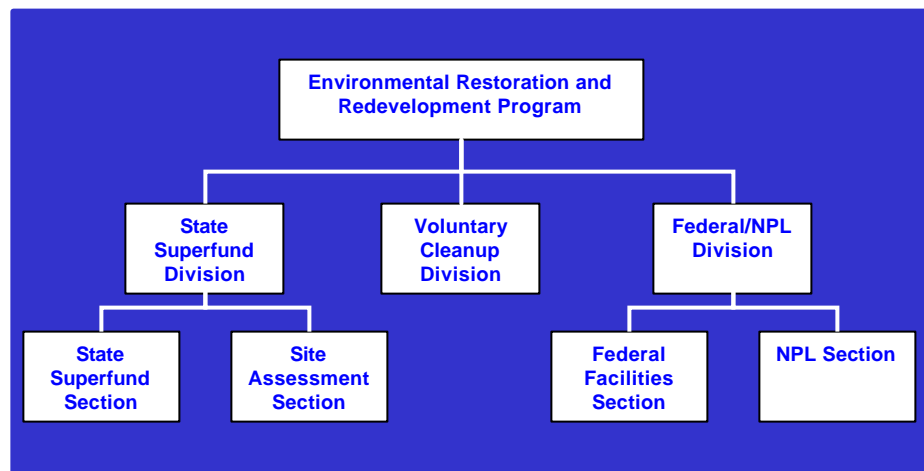
The Environmental Restoration and Redevelopment Program (ERRP) of the Maryland Department of the Environment (MDE) is responsible for managing the investigation and cleanup of uncontrolled hazardous substance releases at sites throughout the state of Maryland. ERRP efforts protect public health and the environment by abating uncontrolled discharges of hazardous substances and ensuring that measures are taken to protect public health and the environment.

PROGRAM ORGANIZATION

The ERRP is comprised of three Divisions that oversee and conduct investigations and cleanups at hazardous substance release sites. The **State Superfund Division** oversees cleanups of historically contaminated hazardous substances at sites that are not on the United States Environmental Protection Agency's (EPA) National Priorities List (NPL).

Oversight of environmental remediation at sites throughout Maryland is provided with primary emphasis on the State Master List, a list of sites known or reported to be contaminated by hazardous substances.

Currently, this part of the Program oversees cleanup at over 35 sites including 6 "Pilot Deferral" NPL caliber sites.



The Division also conducts assessments of property on brownfields and other sites using EPA funds. Brownfields are abandoned or under-utilized industrial or commercial properties where real or perceived environmental contamination hinders redevelopment. Complementary to the Brownfield Assessments, the Division prepares Site Surveys, Preliminary Assessments and Site Investigation reports for EPA Region III under a Superfund Pre-Remedial Cooperative Agreement.

The **Federal Facilities/NPL Superfund Division** oversees the investigation and remediation of sites that are listed on the NPL and sites where the Department of Defense (DOD) is a responsible party to the contamination at sites. The Federal Facilities Section oversees DOD lead hazardous substance release site cleanups. The Section ensures that state requirements are considered and public health and the environment are protected at sites where the Department of Defense is responsible for contamination. The Federal Facilities Section currently oversees environmental activity at 21 sites in Maryland including Aberdeen Proving Ground, Fort Detrick and the Naval Air Station at Patuxent



River. Five of these federal sites are listed on the NPL.



Direct push technology used to collect soil and groundwater samples at the Sauer Dump Site, Baltimore County, MD.

The Federal Facilities Section places emphasis on Base Realignment and Closure sites and other military facilities scheduled to close to facilitate reuse of these properties. Through partnering efforts with these facilities and the EPA, the Section is able to expedite assessment, evaluation and, where necessary, remediation of environmental conditions at these sites.

The NPL Superfund Section oversees the remedial activities at NPL sites not owned by the federal government. At these sites, a responsible party to the contamination at a site conducts both the investigation and remediation under

the oversight of the EPA and the MDE. If no viable responsible party is available to address the contamination at a site, then the EPA, with the support of the MDE, conducts the required environmental studies. The NPL Section currently is overseeing work at eight NPL sites.

The **Voluntary Cleanup/Brownfields Division** encourages the voluntary cleanup and redevelopment of contaminated properties through a streamlined regulatory process. The program enables eligible purchasers of property to substantially limit liability for past contamination prior to purchase of the property. The Voluntary Cleanup Program (VCP) works closely with the Brownfields Revitalization Incentive Program, administered by the Maryland Department of Business and Economic Development, to provide financial incentives in the form of tax credits, grants and loans for redevelopment of eligible brownfield properties.



Test pit excavation at the Contee Sand and Gravel site in Prince George's County, MD to investigate the presence of hazardous waste in the landfill.

ERRP PROGRAM HIGHLIGHTS

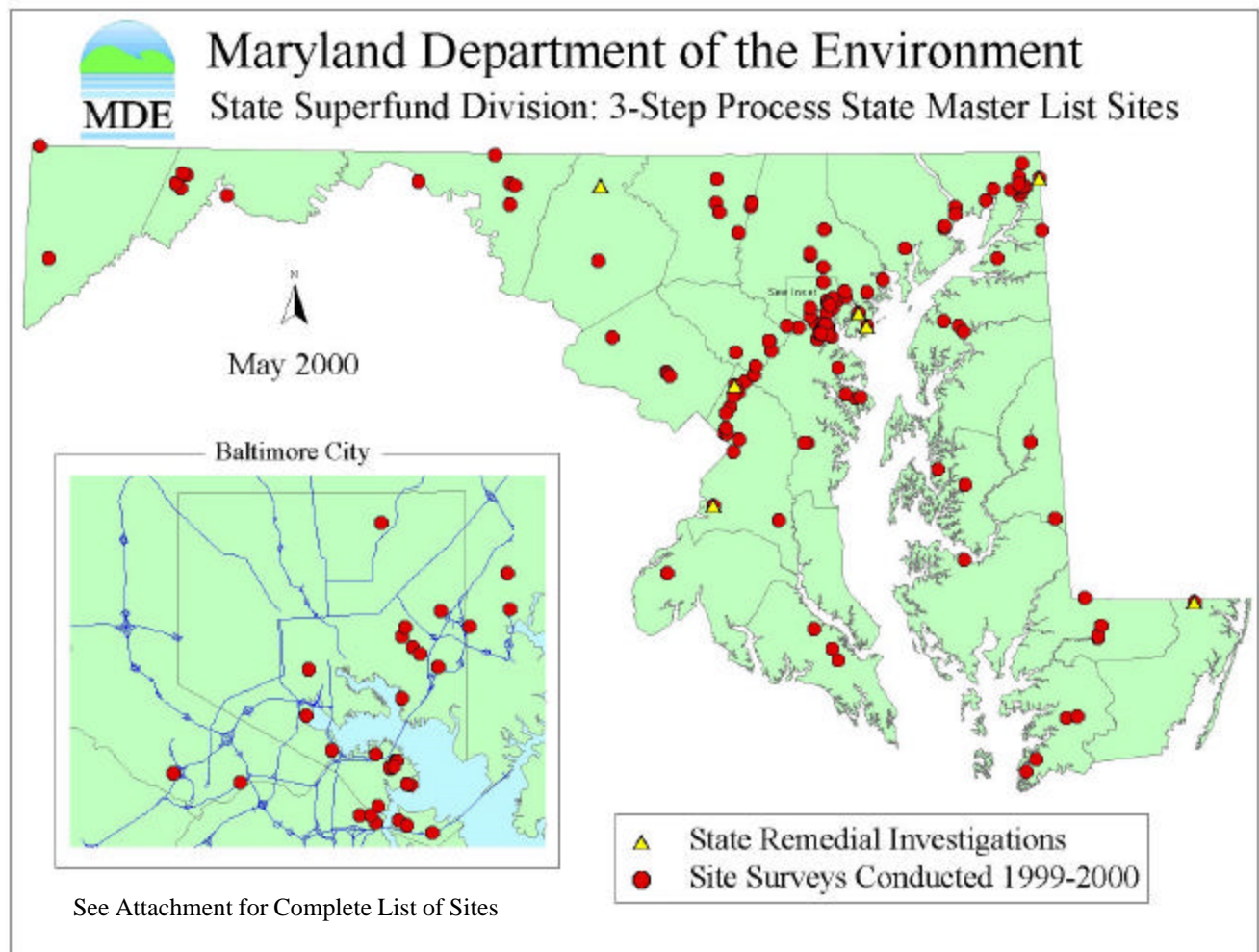


The following highlights the major activities conducted from each of the ERRP Divisions.

State Superfund Division

In 1999, the State Superfund Division requested federal Superfund funding to assess 132 State Master List sites that are suspected to be contaminated with hazardous substances or materials. The funding request was the first step in a 3-step process to allow the MDE to determine those sites that required remediation and to determine if the current property owner would perform the necessary work. In step 1 of the 3-step process, the Division conducted site surveys on the 132 State Master List sites (see Appendix 1). In the second step of the 3-step process, the State Superfund Division received in FY 2000 \$241,451 in State general funds to conduct site assessments/ remedial investigations at seven sites that had been screened from step 1. The final step, to begin in FY 2001, will use \$750,000 from the State Capitol Budget "PAYGO" funds

To date, the State Superfund Division using EPA funding has conducted 58 assessments of brownfield properties totaling over 967 acres of properties located in urban, as well as more rural areas, across Maryland.



to begin State funded remediation at a contaminated step-2 site where the person(s) identified as responsible for the release of hazardous substances either refused or was unable to perform the necessary remediation work.

Brownfields Assessments

The State Superfund Division for the past 5 years has been an active participant in the EPA-funded Brownfields Site Assessment Initiative. Under this initiative, Federal funds are used to conduct site assessments on publicly owned brownfields sites. To be eligible for the program, sites must be vacant or under-utilized, where remediation is feasible and where redevelopment will create jobs and improve the local tax base. To date, the Division has conducted 58 assessments of brownfield properties totaling

Focus On A Brownfields Assessment Site

Baldwin House Property Hagerstown, Maryland

The Baldwin House property in Hagerstown, Washington County, Maryland is an excellent example of how pivotal a brownfields assessment can be in facilitating reuse of property. This one-acre property, formerly used as a hotel and department store facility, is owned by the City of Hagerstown. The property has not been used for the past 17 years. The City of Hagerstown has targeted economic development efforts toward this property because of the site's location, infrastructure and flat topography. Using EPA funding, the State was able to assess the interior and exterior area of the property at the request of the University of Maryland. This additional environmental assessment information is being used to enter the site in the State's VCP where a plan will soon be prepared to address any environmental issues. Prospective purchasers and lessees have been interested in the site but environmental issues have proved to be a barrier. This assessment will facilitate the reuse of the property as an extension of the University of Maryland.



Baldwin House

over 967 acres of properties located in urban, as well as more rural areas, across Maryland. Each brownfield assessment increases the potential for reuse of that property by providing prospective buyers with the environmental information necessary to quantify the extent of environmental costs that will be required to meet public health and environmental protection standards, if any. In some cases, the assessments have determined that there are no further requirements necessary for properties which increases the likelihood that those properties will be redeveloped.

Brownfields Assessments Completed by the State Superfund Division

Site Name	City	Acres	Site Name	City	Acres
1440 Key Highway	Baltimore	2	FNT Realty Cherry Hill	Baltimore	1
Seton Business Park	Baltimore	40	3700 Potee St	Baltimore	1
Carroll/Camden Survey	Baltimore	500	Phillips Packing	Cambridge	6
CSX 700 W. Chesapeake	Baltimore	6	Centreville	Centreville	1.2
Fairfield Homes	Baltimore	20	Crop Production Services	Chestertown	2.6
CSX Chesapeake and Shell Rd	Baltimore	3.3	Cordova Elem. School	Cordova	4
4400 Reisterstown Rd.	Baltimore	6	PPG Industries	Cumberland	150
Kane Street	Baltimore	1.7	Footer Dye Works	Cumberland	1.5
3500 Biddle Street	Baltimore	22.5	Trinco Industrial Park 18 lots	Elkton	525
Shannon Drive	Baltimore	8	Frederick Cooperative	Federick	2
Parkin Street	Baltimore	12	Middletown Fuel Depot	Frederick	1
5600 Lombard Street	Baltimore	8.6	U Of M Hagerstown Center	Hagerstown	1.0
Pat Block-Haven Street	Baltimore	7.6	Christ's Church/Cannon Shoe	Hagerstown	4.0
Fairfield Mixed Residential II	Baltimore	10	Penns Marina	Havre De Grace	6
Fairfield Mixed Residential I	Baltimore	10	Riegel Scrap Property	Havre De Grace	6
CSX Shell and Patapsco Ave	Baltimore	8	Gilbert Property-4 Lots	Havre De Grace	4.6
Fort McHenry Shipyard	Baltimore	13.8	Wilson Farm Site	Landover	n/a
801 South Caroline Street	Baltimore	1.5	Hampton Business Park	Prince George's	69
Museum of Industry	Baltimore	1.9	Tidewater Tractor	Wye Mills	3.2

The Maryland Voluntary Cleanup Program

When Governor Glendening signed emergency legislation in February 1997 creating a VCP within MDE, a Brownfields Revitalization Incentive Program within the Department of Business and Economic Development, and expanded protection for lenders on contaminated properties, he said, "The brownfields law would help save undeveloped land around the State while helping bring jobs back into older areas in furtherance of Smart Growth." At the present time, 44 sites have been accepted into the VCP, cleanup is underway at five of the approved sites, and 11 other sites are pending (applications being reviewed or awaiting additional information to complete the application packages). In addition, 27 sites have been completed: 23 sites have received No Further Requirements Determinations and four sites have received Certificates of Completion. The 55 sites for which applications have been received represent 1,355.86 acres of property in Baltimore City and Allegany, Anne Arundel, Baltimore, Carroll, Cecil, Dorchester, Howard, Montgomery, Prince George's, Washington and Wicomico counties.



The VCP reforms the process used to clean up eligible properties that are, or perceived to be, contaminated by hazardous substance release. In addition to providing a streamlined cleanup process, the VCP law provides liability protection for certain prospective owners of eligible properties in the Program to encourage the transfer of properties. These changes provide more "certainty" regarding environmental requirements to both responsible persons and future owners of a property thereby allowing parties to more accurately predict costs and time lines associated with a cleanup and increasing the likelihood of cleanup and redevelopment.

The Brownfields Revitalization Incentive Program provides property tax credits for the redevelopment of brownfields in participating jurisdictions. This program also provides loans and grants to inculcable persons toward the remediation of property contaminated by hazardous substance release or oil, thereby "jump starting" the redevelopment process where cleanup will have significant environment, economic development and urban revitalization benefits.

Additional enhancements to the Brownfields Revitalization Incentive Program were recently passed by the Maryland General Assembly during the 2000 legislative session. Effective October 2000, the Department of Business and Economic Development will be able to offer either low rate loans or grants to both prospective owners or responsible persons for the conduct of a Phase I and II environmental audit at eligible Brownfield sites.

To increase the likelihood of cleanup and redevelopment under the VCP, a Memorandum of Understanding was signed in 1997 by MDE and EPA Region III. The agreement addresses federal liability of a participant in Maryland's VCP by providing that EPA will consider sites (in Maryland's program) of no interest. Eligible properties in Maryland's VCP will fall under this agreement once a no further requirements determination or certificate of completion has been issued for the property by MDE.

MDE's ERRP is currently developing regulations to further streamline and standardize the application and response action plan approval process and fully implement the requirements of the VCP law. In the short term, uniform numeric cleanup standards are being developed to standardize the process of investigation, while program regulations will be developed over a longer time frame.

MDE continues to promote the VCP through the many forums, workshops and symposiums sponsored by the private sector and local governments and individual meetings with potential applicants. Please see Appendix 2 for the VCP Information Document.



Focus On A Voluntary Cleanup Program Site

CSX Former Bolt and Forge Property Cumberland, Maryland

A successful example of a Voluntary Cleanup Project is the CSX Bolt and Forge property located in downtown Cumberland. This 33-acre site had been used for steel bolt fabrication and metal forging operations between 1920 and the early 1970s. All structures were razed in the mid-1980s and the site remained vacant for over a decade prior to acceptance into the Voluntary Cleanup Program. The developer of a portion of the property, having no current or prior ownership or interest in the property, was accepted as an inculcable person participant in the Program. The inculcable person status encourages new investment in



The CSX property remained vacant for over a decade.



Redeveloped property following implementation of the Voluntary Cleanup Program response action plan.

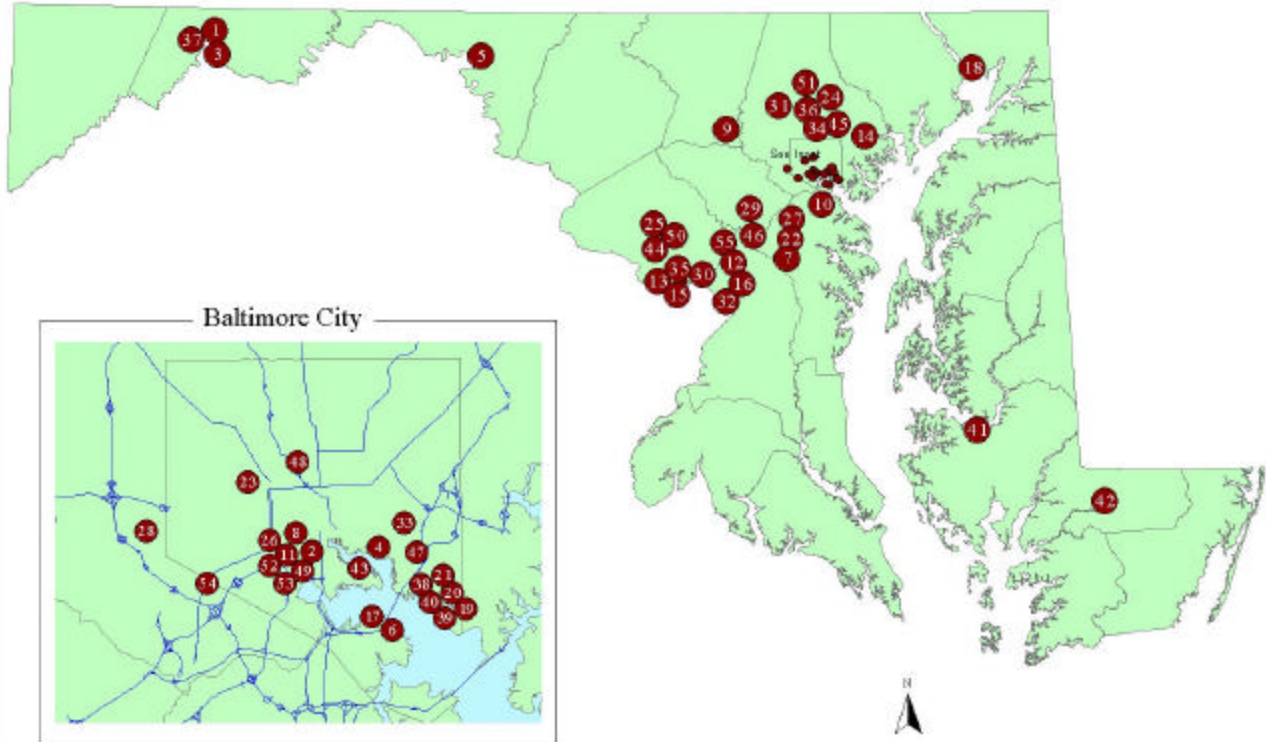
properties by significantly limiting the purchaser's liability for existing environmental contamination.

A response action plan for the CSX Former Bolt and Forge property was developed and implemented by CSX to address the soil and groundwater contamination. Remediation of the property began in 1998 in accordance with the response action plan approved by the Department. Although the plan addresses all areas of soil and groundwater contamination on the 33-acre site, the first phase of the plan focused on a 11.5-acre portion of the property. Remediation activities, including excavation of contaminated soils and capping of certain portions of the 11.5-acre site have been completed and construction of a shopping center, with a major food market chain as the anchor store, is now in operation at the site.



Maryland Department of the Environment

Voluntary Cleanup Program Site Locations



May 2000

No.	Site Name	City	Acres
1	CSX Former Bolt and Forge Site	Cumberland	33
2	Parker Metal Decorating Property	Baltimore	0.73
3	PPG Property	Cumberland	150
4	American Can Company	Baltimore	4.3
5	Engineered Polymer Solutions, Inc.	Williamsport	8.5
6	Port Liberty Industrial Center	Baltimore	23.84
7	G & H Partnership Property	Gambrills	38.25
8	Barre Station (Koppers Site)	Baltimore	8.6
9	Carrolltown Center	Eldersburg	31.78
10	Baymeadow Property	Glen Burnie	11.95
11	Baltimore Camden Yards	Baltimore	5
12	Beltsville Industrial Center	Beltsville	0.8
13	5221 River Road	Bethesda	2.3
14	Redland Genstar- White Marsh Plant	White Marsh	103.9
15	5450 Butler Road	Bethesda	2.78
16	Riverdale Plaza	Riverdale	11
17	Kurt Iron & Metal, Inc.	Baltimore	10.44
18	Occidental Chemical Corporation	Perryville	125.65
19	Point Breeze Business Center (C1,C2,C4)	Baltimore	54.34
20	Point Breeze Business Center (D2)	Baltimore	15.69
21	Point Breeze Business Center (D1,D5)	Baltimore	14
22	The Hardaway Company	Odenton	9.2
23	Inland Leidy, Inc.	Baltimore	1
24	Yorktowne Plaza Shopping Center	Cockeysville	10.5
25	Former Maryland Wood Preserving	Rockville	2.11
26	1600-1606 Bush Street	Baltimore	0.42
27	Kop-Flex	Hanover	25
28	40 West Auto Park, Inc.	Baltimore	3.6

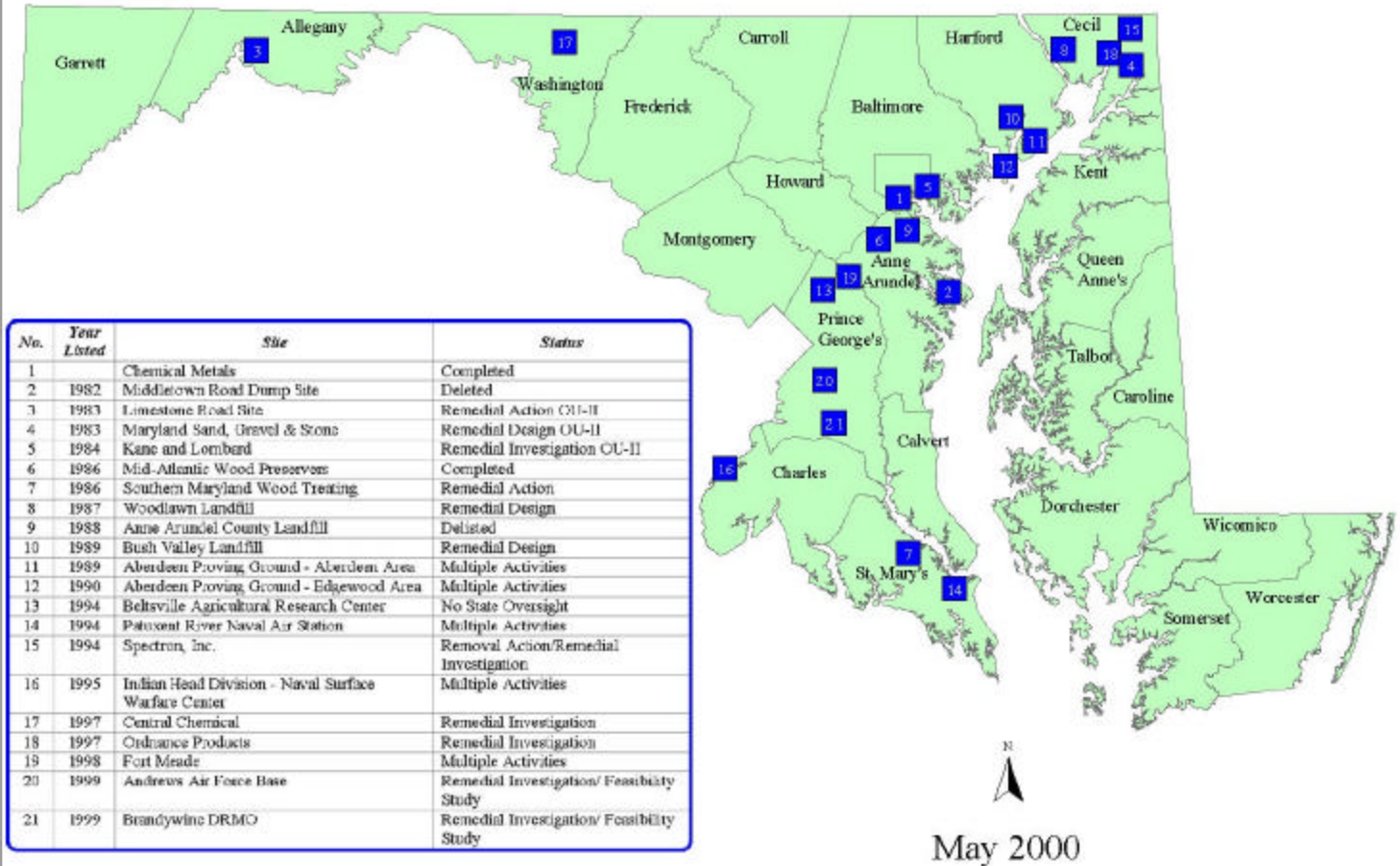
No.	Site Name	City	Acres
29	PATS, Inc.	Columbia	2.7
30	Silver Spring Redevelopment Project	Silver Spring	2.42
31	Har Sinai Property	Baltimore	17.6
32	Hyattsville Gas Former MGP	Edmonston	13
33	Former Esskay Plant	Baltimore	12.7
34	Arcade Building	Towson	22.1
35	Former Bell Cleaners	Bethesda	0.95
36	Texas Maintenance Yard	Cockeysville	11.2
37	Country Club Mall	LaVale	64.4
38	Point Breeze Business Center (D1A)	Baltimore	5.58
39	Point Breeze Business Center (D3)	Baltimore	7.38
40	Point Breeze Business Center (C3)	Baltimore	12.66
41	Eastern Shore Hospital Center	Cambridge	351
42	Wawa Food Market	Salisbury	1.9
43	Proctor & Gamble Soap Manufacturing	Baltimore	13
44	Rockville Post Office	Rockville	0.63
45	AMF Joppa Lanes	Towson	3
46	Laurel Building Supply	Laurel	1.98
47	Crown Simplimatic	Baltimore	13.56
48	Kirk-Steiff Silver Building	Baltimore	2.52
49	2110 Haines Street	Baltimore	3.1
50	Rockville Metro Plaza	Rockville	3.5
51	Former Bausch & Lomb Diecraft Plant	Sparks	27.94
52	Montgomery Park Business Center	Baltimore	27.5
53	Westport Junction Depot	Baltimore	2.85
54	Baltimore Goodwill Industries	Baltimore	3.91
55	Briggs Chaney Plaza	Silver Spring	18.16
TOTAL ACREAGE:			1,355

NPL Sites

During State FY 2000, the NPL Superfund Section provided regulatory and technical oversight at 8 private sector NPL sites. It is anticipated that the construction phase of the remedial action at several of these sites will be completed during State FY 2001. Construction work at the Woodlawn Landfill in Cecil County, Bush Valley Landfill in Harford County, and the Southern Maryland Wood Treating site in St. Mary's County should be completed during State FY 2001. During FY 2001, the Section will focus much of their efforts on the remaining active NPL sites which are the Kane and Lombard site, the Maryland Sand, Gravel and Stone site, the Spectron site, the Ordnance Products site, and the Central Chemical site. The Section receives financial support, through a series of cooperative agreements, from the EPA to provide support agency regulatory oversight at private sector and fund lead NPL sites.



Maryland Department of the Environment National Priorities List Site Locations



Focus On A Federal Facilities/NPL Site

Tipton Airport opens: area is nation's quickest renovated 'Superfund' site

By Frank Diller, MDEnvironment

Opening ceremonies for Tipton Airfield, located at Fort Meade in Anne Arundel County, were held on November 1, 1999 to officially mark the removal and delisting of the 366 acre site from the national list of most hazardous waste sites known as the National Priorities List (NPL) or "Superfund" sites. Fort Meade was designated as a Superfund Site and listed on the NPL in July 1998.

U.S. Sens. Paul S. Sarbanes and Barbara Mikulski, Rep. Wayne T. Gilchrest, U.S. Environmental Protection Agency (EPA) Assistant Administrator Tim Fields, Anne Arundel County Executive Janet Owens, and Maryland Department of the



"I applaud the efforts of the EPA, MDE and Army in working together for the benefit of aviators and citizens living near this airport"

Janet Owens

Anne Arundel County Executive

Environment (MDE) Deputy Secretary Arthur Ray were among the nearly 150 who participated in the ceremonies.

The Tipton Airfield will now become a public airport managed and operated by Anne Arundel County. The Army is now in the final stages of formally transferring the former Fort Meade military airfield to the county

to complete and is now recognized nationally as the fastest NPL delisting of a superfund site to date. To establish this landmark record for environmental cleanup, close cooperation and partnering between MDE, EPA and the Department of the Army was necessary. The result of these efforts was the expedited restoration and cleanup of the airfield site in a safe

Federal Facilities

During State FY 2000, the Federal Facilities Section provided support, regulatory and technical oversight at 7 DOD NPL sites, 5 DOD Defense Base Closure sites, and approximately 9 other DOD sites throughout Maryland. Work at a total of 28 DOD facilities is planned during FY 2001. The Section receives financial support, through a cooperative agreement from the DOD, to provide regulatory oversight and to generally support environmental work, which is funded by the Defense Environmental Restoration Account.

Since 1995, the Section has been actively involved in "formal partnering with a number of DOD facilities in Maryland. The Section has had a very positive experience with the partnering process. The progress of environmental work at a number of Army and Navy facilities has been significantly accelerated as the result of the "partnering" process. In addition to the success at Ft. George G. Meade's Tipton Army Airfield Base Closure site, the Section's partnering efforts at the Naval Air Station facility at Patuxent River has significantly contributed to the Navy's efforts to accommodate Base Realignment activities and to



beneficially reuse historically contaminated land.



Focus On A Federal Facilities Site

After 11 years, Bainbridge Naval Training Center is clean, awaits new life

By Bill Schmidt, *MDE*environment

On Feb. 14 the U.S. Navy broke ties with the Naval Training Center-Bainbridge (NTCB). That day a ceremony was held at NTCB to celebrate the transfer of the 1,185 acres of property from the Navy to the Bainbridge Development Corporation.

Since the closure of naval operations there in 1976, the installation began to deteriorate. In 1986, Congress authorized the Secretary of the Navy to dispose of the NTCB by sale to the private sector or transfer to other government agencies. Congress specified that before any transfer of the property, the Navy was required to “restore such property to a condition that meets all applicable federal and state environmental protection regulations.”



An excavator clears debris at the Naval Training Center at Bainbridge in Cecil County.



Workers cap the old base landfill at Bainbridge.

To achieve this mission, the Navy launched environmental cleanup operations at the NTCB. In this effort, the Navy worked closely with federal and state officials to meet all applicable environmental cleanup requirements. Through those years, MDE played a vital role in assuring that all necessary environmental investigations and remedial actions were completed.

Environmental Cleanup Accomplishments at NTCB:

- Demolition of 429 buildings and proper disposal of 400,000 cubic yards of demolition debris and asbestos;
- Remediation of 40,000 cubic yards of petroleum and pesticide contaminated soil at the former Fire Training Area and removal of 267 underground storage tanks;
- Remediation and capping of the Old Base Landfill and an on-site rubble landfill;
- Cleanup and off-site disposal of 149,000 tons of asbestos (transite) and lead contaminated soils, 650 tons of PCB contaminated soils, and 900 tons of heavy metals and PAH contaminated soils and debris.

By the end of 1999, the Navy had completed all required environmental cleanup actions. At its conclusion, the Navy spent in excess of \$50 million dollars (well over 50 times the purchase price of the Tome portion of the property in 1942) to achieve final environmental cleanup of NTCB.

For more information about these programs or specific projects, please contact:

**Karl Kalbacher
Program Administrator
Environmental Restoration and Redevelopment Program
Waste Management Administration
Maryland Department of the Environment**

410-537-3437

KKalbacher@mde.state.md.us



**Tipton Airport opens: area is nation's quickest renovated
'Superfund' site** By Frank Diller



APPENDIX 1

The following list of sites corresponds to the map on page 4 titled,
"State Superfund Division: 3-Step Process State Master List Sites"

State Remedial Investigations

<i>County</i>	<i>MD No.</i>	<i>Site Name</i>	<i>City</i>
<i>BALTIMORE</i>	MD-181	SAUER DUMP	NORTH POINT
	MD-297	BAUER FARM	EDGEEMERE
<i>CECIL</i>			
<i>FREDERICK</i>	MD-254	IRON HILL ROAD DRUM SITE	ELKTON
	-NONE-	THURMONT WELL #7	THURMONT
<i>PRINCE GEORGE'S</i>			
	MD-171	OLD FORT ROAD SITE	FORT WASHINGTON
	MD-182	CONTEE SAND & GRAVEL	BELTSVILLE
<i>WORCESTER</i>			
	MD-083	BISHOP PROCESSING CO	BISHOP

Site Surveys Conducted 1999-2000

<i>County</i>	<i>MD No.</i>	<i>Site Name</i>	<i>City</i>
<i>ALLEGANY</i>			
	MD-003	CABIN RUN LANDFILL	FROSTBURG
	MD-004	HOFFMAN LANDFILL	FROSTBURG
	MD-005	VALE SUMMIT LANDFILL	FROSTBURG
	MD-197	FROSTBURG GAS LIGHT CO	FROSTBURG
	MD-339	PRECISE METALS AND	CUMBERLAND
<i>ANNE ARUNDEL</i>			
	MD-073	JOY RECLAMATION CO	GLEN BURNIE
	MD-081	MIDDLETOWN ROAD DUMP	ANNAPOLIS
	MD-192	WOODS ROAD SITE	ANNAPOLIS
	MD-201	SNOW HILL LANE SITE	BROOKLYN
	MD-204	DAVID TAYLOR/ANNAPOLIS -	ANNAPOLIS
	MD-205	DAVIDSONVILLE - LAUNCH	DAVIDSONVILLE
	MD-206	DAVIDSONVILLE - CONTROL	DAVIDSONVILLE
	MD-408	DRUM CO DRUM DUMP	BROOKLYN
	MD-452	A S PEARMON	ARNOLD
<i>BALTIMORE CITY</i>			
	MD-014	OLIN CORP CURTIS BAY	BALTIMORE
	MD-019	BROWNING FERRIS IND	BALTIMORE
	MD-020	REEDBIRD LANDFILL	BALTIMORE
	MD-021	KOPPERS CO BALTIMORE	BALTIMORE
	MD-055	PEMCO CORP	BALTIMORE
	MD-092	MONUMENT ST LANDFILL	BALTIMORE
	MD-105	AMOCO OIL CO	BALTIMORE
	MD-106	ARMCO BALTIMORE WKS	BALTIMORE
	MD-109	CONOCO CHEMICAL CO	BALTIMORE
	MD-110	CONOCO INC BALTIMORE	BALTIMORE
	MD-112	CROWN CENTRAL	BALTIMORE
	MD-113	CROWN CENTRAL	BALTIMORE
	MD-114	ESTECH GENERAL CHEM	BALTIMORE
	MD-118	M & T CHEM INC	BALTIMORE
	MD-119	MRI CORPORATION	BALTIMORE
	MD-131	TEXACO INC	BALTIMORE
	MD-140	ANCHOR HOCKING CORP	BALTIMORE
	MD-143	CHEVRON USA/ BALTIMORE	BALTIMORE
	MD-154	BOWLEY'S LANE LANDFILL	BALTIMORE
	MD-233	HIGHLAND TOWN GAS	BALTIMORE

	MD-244	SMITH F BOWIE & SON INC	BALTIMORE
	MD-312	STIEGAL SUPPLY &	BALTIMORE
<i>BALTIMORE</i>	MD-431	KOPPER CO INC - METAL	BALTIMORE
	MD-069	BALTIMORE GALVANIZING	ROSEDALE
	MD-080	SMUCK DUMP	HALETHORPE
	MD-157	U S ARMY PHOENIX -	JACKSONVILLE
	MD-172	MARTIN MARIETTA CORP	RELAY
	MD-175	BATAVIA LANDFILL	ROSEDALE
	MD-181	SAUER DUMP	NORTH POINT
	MD-280	J AND L INDUSTRIES INC	CHASE
	MD-297	BAUER FARM	EDGEMERE
	MD-304	MARTIN'S STATE AIRPORT	MIDDLE RIVER
	MD-316	GIBSON HOMANS	ROSEDALE
	MD-380	CUTRONICS	TIMONIUM
	MD-463	NATIONAL CIRCUITS INC -	TOWSON
	MD-464	NATIONAL CIRCUITS INC -	TIMONIUM
	MD-471	MORGAN STATE	BALTIMORE
<i>CAROLINE</i>			
	MD-240	RELIANCE WOOD	FEDERALSBURG
<i>CARROLL</i>	MD-438	OLD WEST DENTON DUMP	DENTON
	MD-167	POWRMATIC INC	FINKSBURG
	MD-190	CRANBERRY RUN SUB	WESTMINSTER
	MD-307	WOLF HILL	HAMPSTEAD
	MD-332	MIL SPEC FASTENERS	HAMPSTEAD
	MD-333	BACHMANS VALLEY	MANCHESTER
	MD-345	3M NATIONAL ADVER -	WESTMINSTER
	MD-371	LANG'S JUNKYARD	HAMPSTEAD
	MD-467	BACHMAN VALLEY	MANCHESTER
<i>CECIL</i>			
	MD-074	OLD ELKTON DUMP	ELKTON
	MD-099	STAUFFER CHEM CO	ELKTON
	MD-137	MONTGOMERY BROTHERS	NORTHEAST
	MD-189	MALMO FARMS	CHESAPEAKE CITY
	MD-254	IRON HILL ROAD DRUM SITE	ELKTON
	MD-259	LOUISA LANE DUMPSITE	CHARLESTOWN
	MD-313	DWYER PROPERTY	ELKTON
	MD-314	CROUSE BROTHERS	ELKTON
	MD-318	CHILDS PROPERTY	CHILDS
	MD-325	CENTRAL CHEMICAL	ELKTON
	MD-366	VICON PROPERTY	ELKTON
	MD-369	REEVES SITE	ELKTON
	MD-372	IP INC	ELKTON
	MD-385	BIG ELK CHAPEL ROAD	PROVIDENCE
	MD-433	ELKTON FARM	ELKTON
	MD-451	STEMMERS RUN	EARLEVILLE
<i>CHARLES</i>			
	MD-261	CHARLES COUNTY	PISGAH
<i>DORCHESTER</i>			
	MD-025	CAMBRIDGE SITE	CAMBRIDGE
<i>FREDERICK</i>			
	MD-356	FREDERICK TOOL AND DIE	FREDERICK
<i>GARRETT</i>			
	MD-239	WOOD PRODUCTS	OAKLAND
	MD-441	UMBELL PROPERTY	FRIENDSVILLE
<i>HARFORD</i>			
	MD-001	ABERDEEN DUMP	ABERDEEN
	MD-037	HAVRE DE GRACE DUMP	HAVRE DE GRACE
	MD-038	MULLINS LANDFILL	HAVRE DE GRACE
	MD-162	HAVRE DE GRACE PLANT	HAVRE DE GRACE
	MD-301	ABINGDON LANDFILL	ABINGDON
	MD-363	LONGS SEPTIC	HAVRE DE GRACE
<i>HOWARD</i>			
	MD-262	SCOVITCH PROPERTY	LAUREL
	MD-305	CEMETARY LANE	ELKRIDGE
	MD-326	WESTVACO CORPORATION	LAUREL
	MD-373	TATE ACCESS FLOORS INC	JESSUP
	MD-465	MAYFIELD REPAIR FACILITY	ELKRIDGE
<i>KENT</i>			
	MD-029	CHESTERTOWN MUN DUMP	CHESTERTOWN

	MD-138	LAURENCE J NICHOLSON	CHESTERTOWN
	MD-198	CHESTERTOWN GAS CO	CHESTERTOWN
<i>MONTGOMERY</i>			
	MD-144	MARYLAND WOOD	ROCKVILLE
	MD-306	KENNETH SHUMAKER DUMP	BARNESVILLE
	MD-360	VECTROL INC	ROCKVILLE
	MD-361	MICRODYNE CORP	ROCKVILLE
<i>PRINCE GEORGE'S</i>			
	MD-024	ANACOSTIA RIVER PARK	BLADENSBURG
	MD-040	KOPPERS CO DUMPSITE	LAUREL
	MD-108	CAPITOL WIRE & FENCE	HYATTSVILLE
	MD-171	OLD FORT ROAD SITE	FORT WASHINGTON
	MD-182	CONTEE SAND & GRAVEL	BELTSVILLE
	MD-183	LAUREL CITY LANDFILL	LAUREL
	MD-200	HYATTSVILLE GAS &	EDMONSTON
	MD-248	UNITED RIGGING & HAULING	BELTSVILLE
	MD-251	COLUMBIA PARK DRUM SITE	COLUMBIA PARK
	MD-291	J L CLARK MFG CO STONE	COLLEGE PARK
	MD-295	CELIA LUST	BELTSVILLE
	MD-311	LONDON HILLS	CAPITOL HEIGHTS
	MD-355	NELSON PERRIE DUMP	BALD EAGLE
	MD-470	PAINT BRUSH LF AREA #3	COLLEGE PARK
<i>SOMESET</i>			
	MD-111	CRISFIELD CITY DUMP	CRISFIELD
	MD-129	RING LANDFILL	WESTOVER
	MD-130	WESTOVER LANDFILL	WESTOVER
	MD-193	CRISFIELD LIGHT & POWER	CRISFIELD
<i>ST. MARY'S</i>			
	MD-101	THIOKOL CORP	MECHANICSVILLE
	MD-185	CALIFORNIA DRUM SITE	CALIFORNIA
	MD-252	ST MARY'S SALVAGE	HOLLYWOOD
<i>TALBOT</i>			
	MD-125	NOBLE MOTOR REBUILDERS	EASTON
<i>WASHINGTON</i>			
	MD-036	KOPPERS CO	HAGERSTOWN
	MD-194	HAGERSTOWN - AMERICAN	HAGERSTOWN
	MD-329	NEWELL ENTERPRISES INC	HAGERSTOWN
	MD-418	WEST MANUFACTURING	HAGERSTOWN
	MD-475	FRANKLIN SPICKLER	MAUGANSVILLE
<i>WICOMICO</i>			
	MD-093	CHEVRON CHEM CO -	SALISBURY
	MD-275	DRESSER INDUSTRIES	SALISBURY
	MD-300	BLACKWATER SOLID	SALISBURY
	MD-327	SALISBURY MARKETING INC	SALISBURY
<i>WORCESTER</i>			
	MD-083	BISHOP PROCESSING CO	BISHOP



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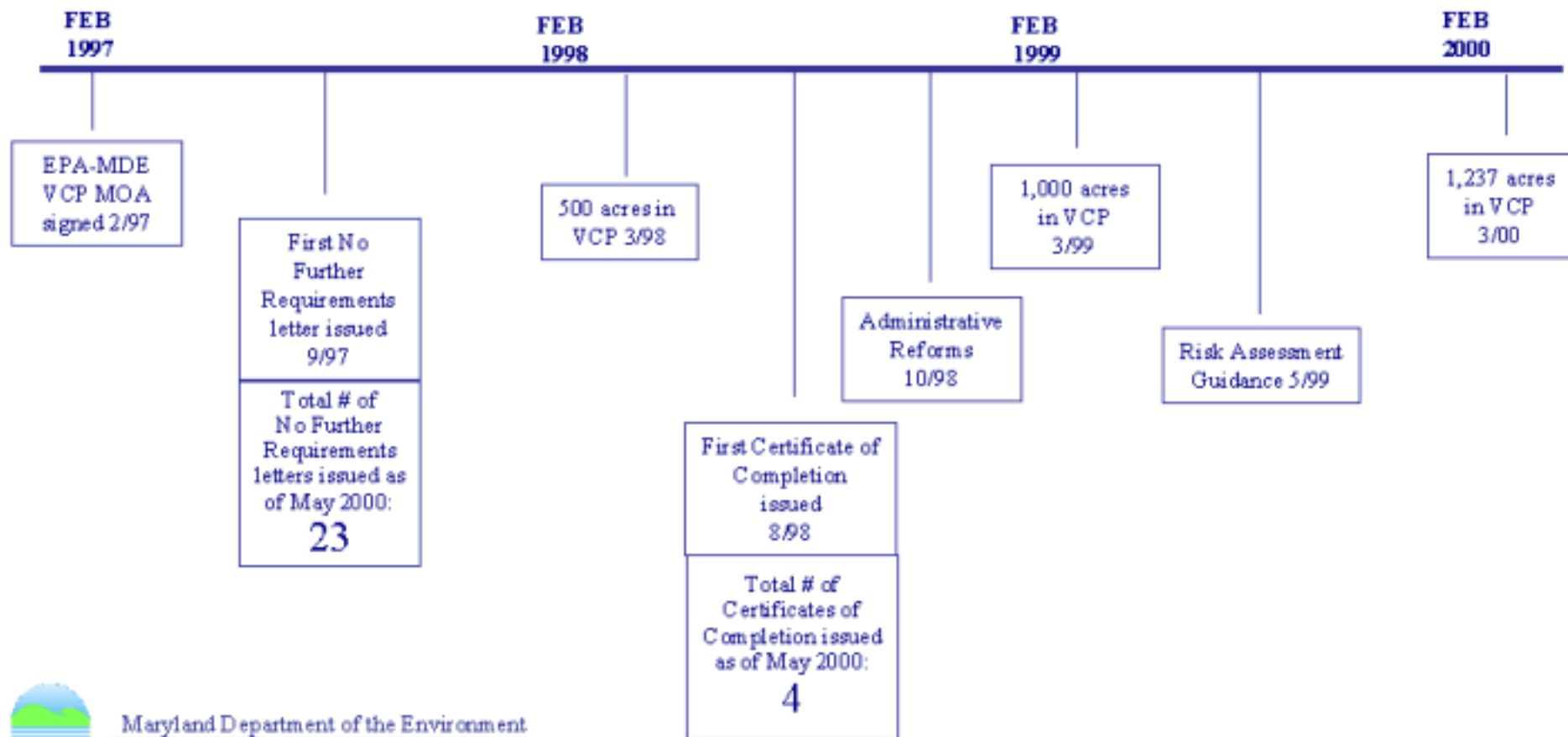
Appendix 2

Voluntary Cleanup Program Information Document

Karl Kalbacher, Administrator
Environmental Restoration and
Redevelopment Program

May 12, 2000

VCP MILESTONES



Maryland Department of the Environment

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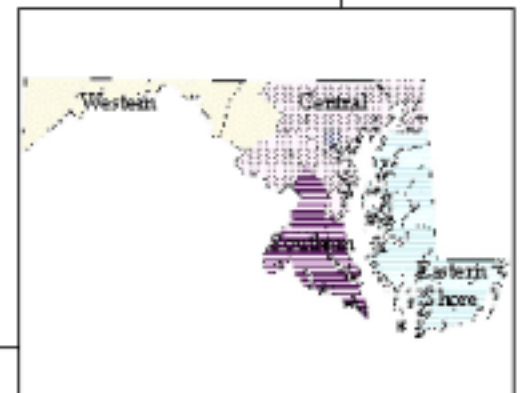
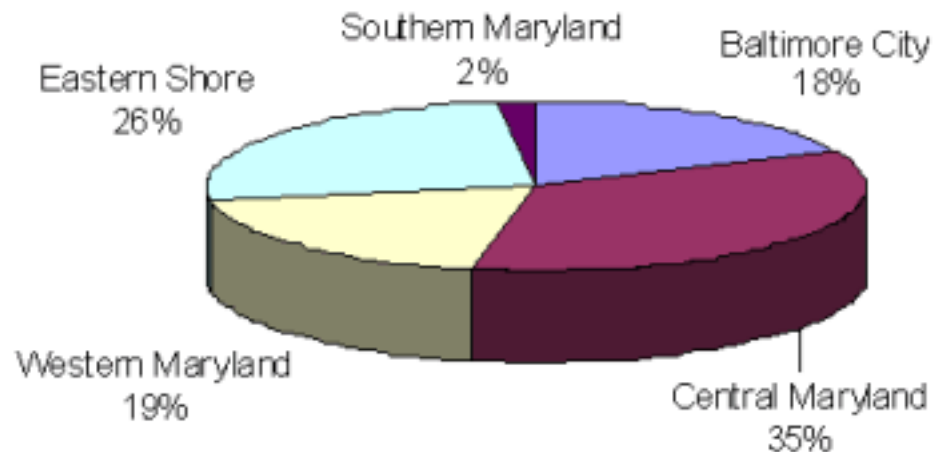


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Voluntary Cleanup Program

Distribution of Acreage Across Maryland

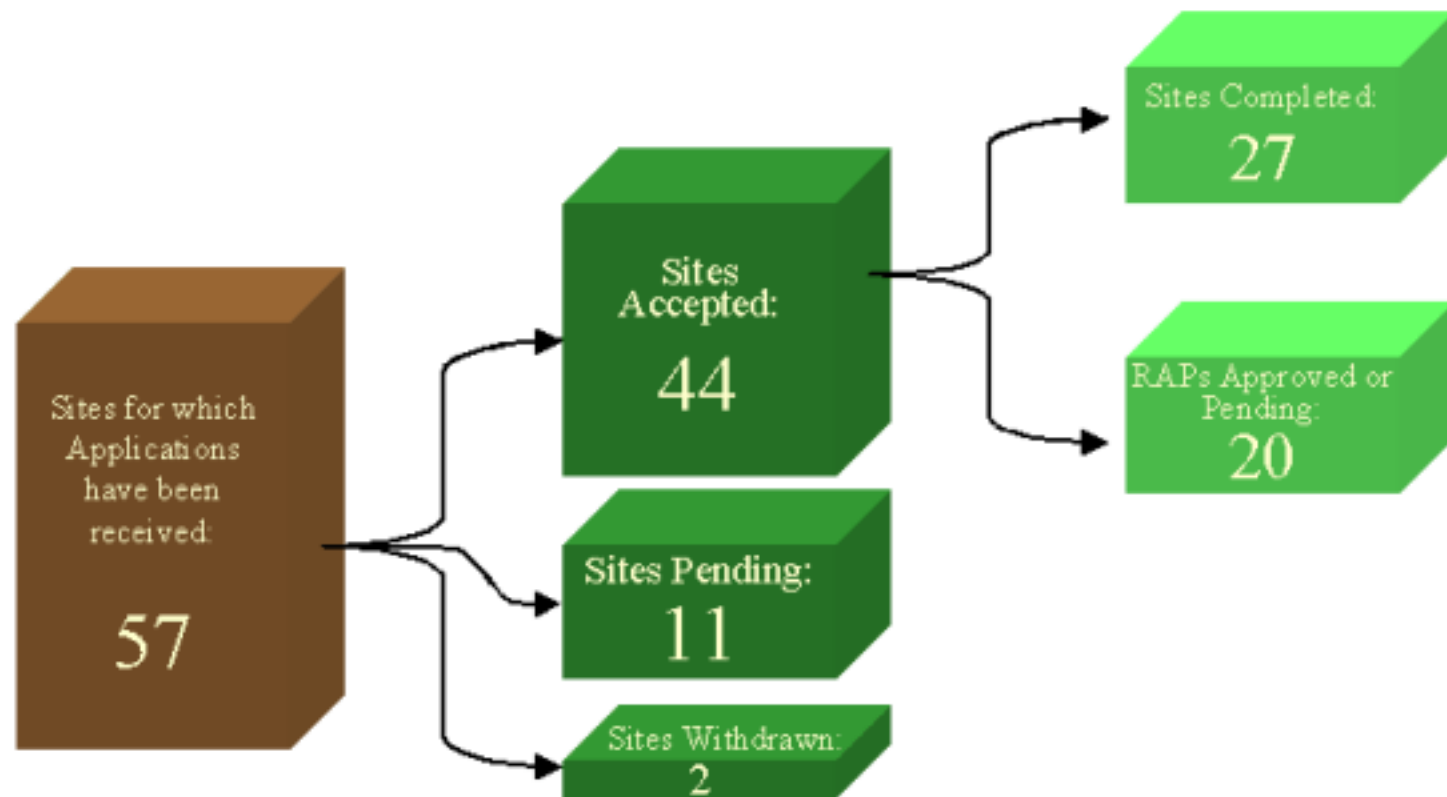


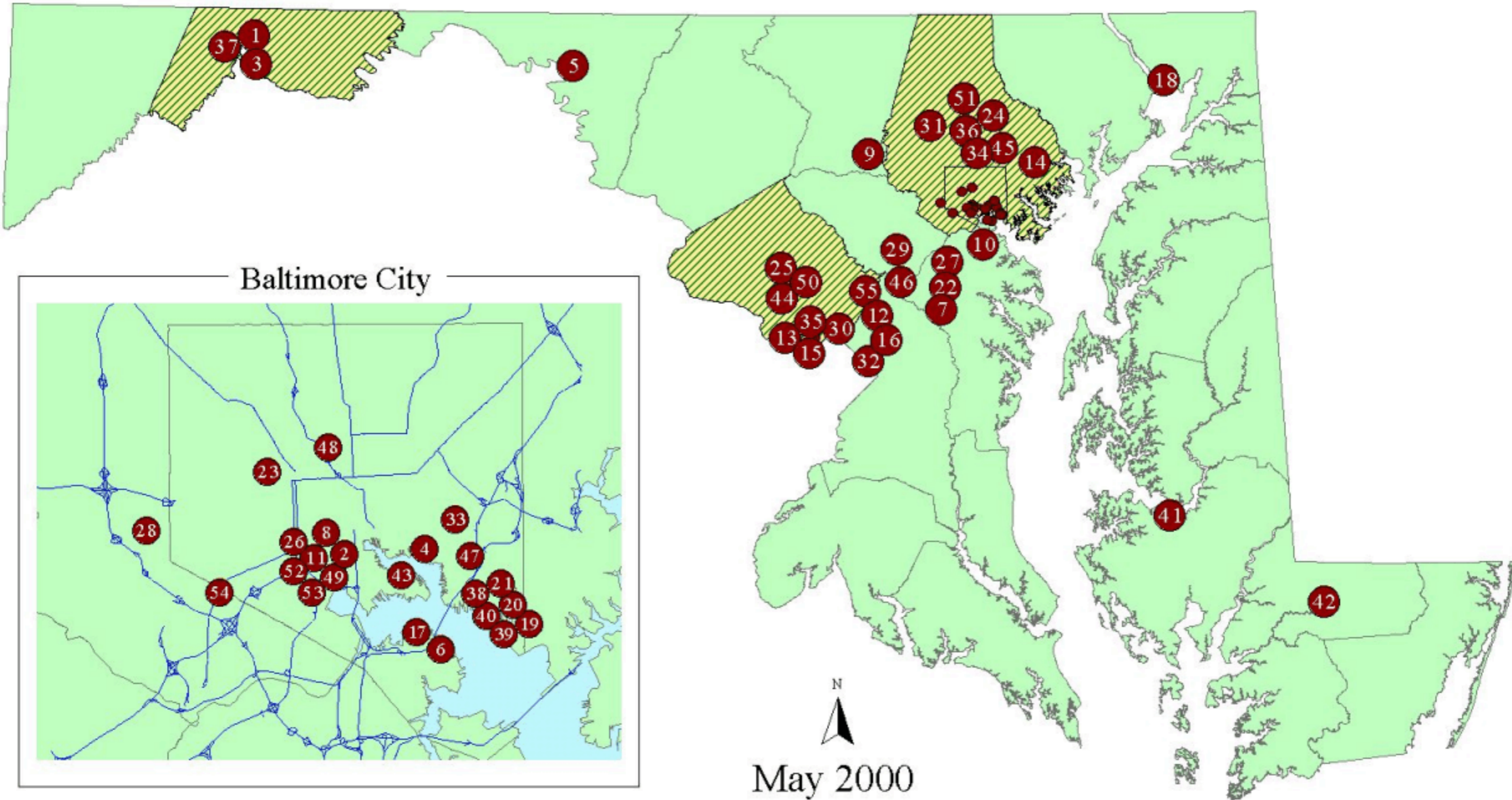


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Jurisdictions that have adopted legislation necessary to participate in the Brownfields Revitalization Incentive Program

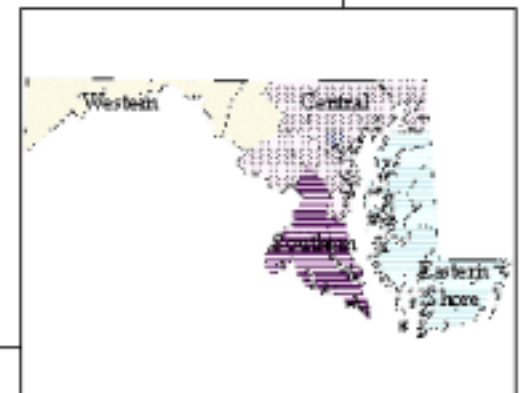
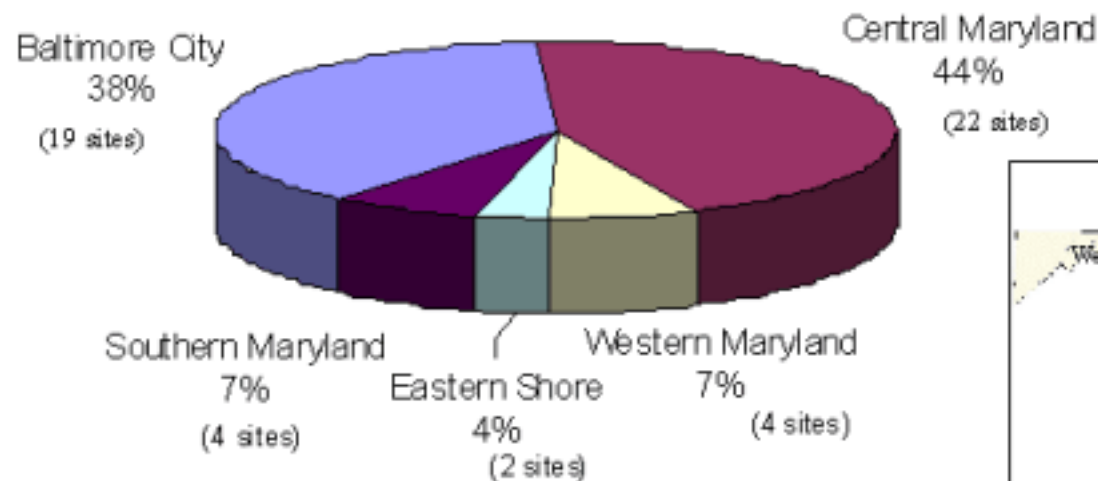


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Voluntary Cleanup Program

Distribution of VCP Sites Across Maryland



NEXT STEPS

- **DEVELOP** soil and groundwater cleanup standards
- **INCREASE** marketing and outreach
- **PILOT** MDE funding (\$150K) for environmental assessments at VCP sites
- **EXPAND** use of field screening sample testing technologies
- **ADDITIONAL** toxicologist



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