

# Cytec Engineered Materials Inc.

1300 Revolution Street  
Havre de Grace, MD 21078  
Congressional District 2  
EPA ID #: MDD003075942  
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## Current Progress at the Site

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In 1991, the U.S. Environmental Protection Agency (EPA) issued a RCRA Corrective Action Permit to Cytec to address any contamination present at the facility. Between 1991 and 2002 Cytec conducted several investigations to delineate ground water and soil contamination.



Onsite soil and onsite and offsite ground water were found to be contaminated with volatile organic contaminants (VOCs). In order to address the most immediate concerns and to prevent further spread of the ground water contaminant plume, Cytec implemented an interim clean-up measure to contain and treat contaminated groundwater at the facility. The ground water extraction system was started on April 29, 2002 and continues to operate. Highlights of the extraction system are described below.

- Groundwater is extracted from monitoring well 10D (MW-10D). This well is located near the eastern perimeter of the facility. Based on investigations at the site, this well appears to be located in a preferential pathway for groundwater flow.
- Two 1-inch pipes (one active and one backup) transport extracted water to the Havre de Grace Wastewater Treatment Plant. Both pipes are contained in a 2-inch pipe to provide secondary containment. The water is initially pumped to a pretreatment tank containing food wastes from a local processor. The active biological systems in the pretreatment tank helps to breakdown contaminants in the water before moving through the rest of the treatment plant.
- The extraction system is equipped with many safety features. The instrumentation is remotely accessible for monitoring system operation and reporting purposes. Also, in the event of a problem, there is an automated system shutoff and voice notification to ensure prompt attention.
- The system has been designed to pump groundwater at a rate of 7.5 gallons per minute, with an approximate sphere of influence of 800 to 1000 feet. Pumping of this well results in hydraulic control of local groundwater in the area of MW-10D and helps to prevent some of the contamination from flowing offsite. In the original source area, the concentrations of VOCs in ground water have decreased considerably.



Shed containing instrument panel and piping.



View of piping system inside instrument building.



Manhole showing monitoring well MW-10D

- Cytec has coordinated with the City of Havre de Grace officials to obtain all the necessary permitting and operating requirements to ensure compliance with federal, state, and local regulations.

Cytec regularly samples groundwater wells installed onsite and offsite to assess the effectiveness of the extraction system in containing the plume. The results of the monitoring program are reported to EPA and MDE for review annually.

In 2006 and 2007 Cytec conducted further ground water and soil investigations at the facility to better characterize areas that may be continuing sources of contamination to the ground water and to better understand ground water flow in the area. Once source areas and flow are better understood, Cytec will evaluate cleanup alternatives to address both soil and ground water contamination on a comprehensive site-wide basis.

## Site Description

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Located in Havre de Grace, Maryland, Cytec Engineered Materials currently produces specialty bonding adhesives and composite materials for a variety of industrial applications.

## Site Responsibility

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RCRA Corrective Action activities at this facility are being conducted under the direction of EPA Region 3 with assistance from the Maryland Department of the Environment.

## Contaminants

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The contaminants in the groundwater are organic solvents, most likely the result of a former leaking underground product storage tanks. 1,2-Dichloroethane (1,2-DCA) is the primary contaminant of concern.

## **Community Interaction**

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Cytec is located within 0.75 miles of the Chesapeake Bay and the area surrounding the facility can be characterized as light industrial and residential. The facility maintains contact with the nearby residents in the community by issuing fact sheets describing progress on the corrective action activities.

## **Institutional Controls**

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No institutional controls are currently in place.

## **Government Contacts**

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For more information about EPA's corrective action program, including Environmental Indicators, please visit our site at: [www.epa.gov/reg3wcmd/correctiveaction.htm](http://www.epa.gov/reg3wcmd/correctiveaction.htm)

## **Facility Contact**

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