



Maryland Department of the  
Environment

## FACTS ABOUT: KANE AND LOMBARD SITE National Priorities List Site

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### **Site Location**

The Kane and Lombard site is located in Baltimore City at the intersection of Kane and Lombard Streets. The site consists of approximately 8 acres south of Lombard Street and approximately 17 acres north of Lombard Street. The 8-acre portion, which is adjacent to Patterson High School, is currently a golf driving range and parking lot. The 17-acre portion includes several commercial properties, most notably PICORP Inc., which stores shipping containers.

### **Site History**

Between 1962 and 1964, excavation and dumping occurred on the 17-acre portion. These disposal practices proceeded further south, past the line that would later become Lombard Street, between 1964 and 1966. By 1971, much of the disturbed area had been filled and construction of Interstate 95 was underway. Fill materials may have included construction debris, domestic wastes, and industrial materials. Between 1971 and 1982, the excavated areas west, north, and east of the 8-acre portion had been filled and developed. In December 1980, PICORP acquired approximately 17 acres of the former landfill area north of Lombard Street. This land is currently used by PICORP and other businesses.

On September 19, 1996, ownership of the 8-acre portion was transferred to Someday, Inc. On February 18, 1998, pursuant to a prospective purchaser agreement with EPA, Double Eagle Enterprises acquired the property from Someday, Inc. and subsequently constructed a golf driving range on the property. Bayview Golf Center, Inc. currently operates the driving range.

### **Environmental Investigations And Actions**

In 1980, several hundred drums were discovered on the 8-acre parcel. After several unsuccessful attempts to compel action by the site owners, the State requested assistance from the U.S. Environmental Protection Agency (EPA). In 1984, EPA removed 1,163 drums and the upper six inches of soil beneath the drums and transported these wastes to permitted disposal facilities. Approximately 800 drums were classified as empty, while the contents of the other drums included aromatic compounds, polycyclic aromatic hydrocarbons, phthalates, polychlorinated biphenyl compounds (PCBs), cyanide and metals. Following the removal action, a compacted clay layer was installed in the base of the excavation where the drums and soils had been removed.



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The site was included on the EPA's National Priorities List (NPL) in June 1986. In order to facilitate the investigation and cleanup process, the site was divided into two operable units. Operable Unit 1 (OU1) addresses contamination in soils and shallow groundwater beneath the site's 8-acre portion. OU2 addresses the remainder of the former landfill and the groundwater impacted by the wastes disposed in OU1 and OU2.

EPA completed a Remedial Investigation/Feasibility Study (RI/FS) for OU1 in 1987. Based upon the RI/FS findings, EPA signed a Record of Decision (ROD) for OU1 on September 30, 1987. The selected remedy was a multi-layer cap and slurry wall around the site, combined with dewatering of the first water-bearing zone contained within the wall. Construction of the remedy was completed in August of 1990. The remediation was also to include removal of drums and hot spots identified during the OU1 RI; however, the drums and hot spots were not located during construction activities and were therefore not removed. Operations and maintenance activities are ongoing for OU1. Any water withdrawn from the extraction wells is discharged to the City of Baltimore sanitary sewer system following pre-treatment.

Investigation of OU2 began in 1985 with a preliminary assessment of the PICORP property by the Maryland Waste Management Administration. During this investigation, miscellaneous debris, including wood, tires, construction debris and crushed, empty 55-gallon drums were identified. In addition, fourteen intact 55-gallon drums were identified; nine were empty and the remaining five reportedly contained waste oil. In 1990, the Maryland Department of the Environment commenced an RI/FS at OU2. This study was discontinued in 1993, when EPA and several potentially responsible parties (PRPs) associated with the Kane and Lombard site entered into a Consent Order to perform the RI/FS at OU2. The OU2 RI/FS was completed in July 2002.

The main contaminants of concern, chlorinated organic compounds, were detected in the subsurface soils and in the groundwater in the Upper Patuxent aquifer. EPA issued the OU2 ROD in September 2003. This ROD specified Enhanced Reductive Dechlorination (ERD) for the contaminated groundwater plume. The contaminated groundwater was to be recirculated in wells with a carbon nutrient source periodically added to promote the growth of indigenous microbes to enhance the dechlorination process. The specified remedy also includes a soil management plan, institutional controls and groundwater use restrictions.

A pilot test of the ERD was conducted which concluded that the ERD is not sufficient to meet the cleanup objectives. Accordingly, EPA has re-evaluated the alternative remedial options to select a more effective action for the groundwater. This requires the EPA to stop the Remedial Design and re-open the RI/FS phase.

## **Current Status**

A Pilot Study is planned to determine whether ozone treatment is viable to treat the chlorinated hydrocarbons in the groundwater. The schedule calls for construction of the Pilot Study system by 2015.



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## **Planned Future Actions**

The results of the current pilot study will be incorporated into a revised FS, which will evaluate alternative cleanup strategies for the groundwater.



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