



Maryland Department
of the Environment

FACTS ABOUT: Chevron U.S.A. Inc., Former Operating Yard Baltimore Asphalt Terminal (VOLUNTARY CLEANUP PROGRAM)

Site Location

This active 23.98-acre property, located at 1955 and 1950 Chesapeake Avenue, Baltimore, Maryland, is in the industrialized Fairfield District of Baltimore City. Petroleum refining related businesses and terminal activities for staging imported vehicles surround the property. Storm water runoff from the property flows towards the storm water system that discharges to the Patapsco River, located east of the property. Groundwater beneath the property also flows towards the Patapsco River. The property and vicinity are served by municipal water and sewer systems.

Site History

The property was undeveloped until approximately 1902. A petroleum refinery owned and operated by Prudential Oil, followed by Continental Oil Company (Conoco) was located on the southern part of the property from 1912 to 1946. American Bitumuls Company used the southern part of the property for asphalt production and petroleum refining operations until 1957 when Chevron took ownership of the property and continued the asphalt production and petroleum refining operations. A fertilizer plant was located on the northern part of the property until 1973, when Chevron bought this part of the property from Royster Company to expand its operations. In 1983, Chevron suspended all crude oil refining operations but continued to use the western part of the property as an asphalt terminal. A number of operating office buildings, in-use and formerly used aboveground storage tanks (ASTs) and associated pipe racks, and an asphalt truck loading rack are located on the western part of the property. Asphalt cement products are received from barge or ships, stored in four ASTs, and are loaded to customers' trucks via the loading racks. The eastern part of the property is paved and leased for staging of imported vehicles.

Environmental Investigations And Actions

During numerous environmental site investigations between 1983 and 2008 at the entire Chevron facility (including the separated West Yard and Excess East Yard properties located west and south of the Operating Yard), contamination was detected in soil and groundwater above the Department's cleanup standards at the property. In 1988, soil impacted by a benzene release from an aboveground pipeline in the southern part of the property was remediated on-site.

Chevron completed a Phase I and Phase II Environmental Site Assessment in March 2009 for the Voluntary Cleanup Program (VCP) application. The principal contaminants identified in soil and/or groundwater were volatile organic compounds, semi-volatile organic compounds,



total petroleum hydrocarbons, polychlorinated biphenyls, and metals. Light non-aqueous phase liquids (LNAPLs) are present in the groundwater at the southern boundary of the property.

Current Status

In March 2009, the Chevron Environmental Management Company submitted a VCP application for the property seeking a Certificate of Completion as a responsible person. A Phase I and Phase II Environmental Site Assessment report was submitted with the VCP application. The Department issued comments on the VCP application in April 2009. The property was accepted into the VCP in April 2010 with the requirement that a response action plan (RAP) be developed. Targa purchased the property from Chevron in September 2011. In January 2012, Targa Terminals LLC (Targa), submitted a second VCP application package seeking a Certificate of Completion as an inculpable party. The Department accepted the Targa application and confirmed the inculpable person status of the second applicant. The proposed RAP was submitted to the VCP in July 2013 by Chevron. The RAP proposes possible remediation activities: LNAPL recovery, soil vapor extraction (SVE), soil excavation, in-situ stabilization, installation of remediation cap, substrate introduction via mixing and injection and/or permeable reactive barriers. An SVE remediation system for LNAPL recovery is active at the property since October 2012. Additional data must be collected to develop the final remedial design at the property. Additional environmental site assessments, remediation work plans, and the results of the work performed at the property are being presented in RAP addendums. Quarterly groundwater monitoring reports are being submitted to the VCP for the property. The CHS Enforcement Program oversees the off-site investigation activities. Future use for the property will continue as industrial.

The adjacent Chevron West Yard and Excess East Yard properties were accepted into the VCP in 2003 and 2006, respectively, with the requirement that RAPs be developed. The RAP for Chevron West Yard property was approved in August 2009 and is being implemented. The RAP for the Chevron Excess East Yard property was approved by the Department in July, 2012, the remedial action was completed, and the Department's Certification of Completion letter was issued on August 27, 2013.

