



Maryland Department of the
Environment

FACTS ABOUT: ENERGY PARKWAY PROPERTY (Voluntary Cleanup Program)

Site Location

The Energy Parkway property consists of one land parcel (Parcel 19) totaling 12.14-acres and is located at 7621 Energy Parkway, Curtis Bay, Anne Arundel County, Maryland 21226. The property is situated in a mixed use industrial, commercial and residential area and is bounded to the north by Energy Parkway, wooded land and Fort Smallwood Road, to the northeast by the Brandon Shores Power Generating Facility, to the southeast by undeveloped land and a storm water management basin used for the Brandon Woods Business Park (BWBP), commercial offices and residential homes beyond, to the southwest by Gambrills Cove Road followed by light industrial facilities.

The site is located approximately 50 feet above mean sea level and has been graded flat. The site is situated above the Patapsco aquifer where shallow unconfined groundwater is expected at approximately 5 feet below ground surface (bgs). The deeper semi-confined Patapsco aquifer is presumed to be located approximately 40 bgs. The nearest surface water body is the south adjacent storm water management pond that collects water from a majority of the BWBP and discharges into Cox Creek via box culvert and eventually discharges via pipe flow to the Patapsco River.

Site History

The property was undeveloped wooded land until Baltimore Gas and Electric Company (BGE) utilized the property to deposit fly ash coal combustion byproduct (CCBP) between November 1982 and 1993. Approximately 35 million tons of CCBP was deposited at the now developed 200-acre BWBP. CCBP is believed to be approximately 5 feet thick beneath the site. In 1997, the property was improved with one 222,000 SF slab on grade industrial warehouse structure. Site cover consists of concrete, asphalt and landscape areas. In February 2000, a Memorandum of Agreement was written between BGE and the MDE Water Management Administration detailing best management practices during development; however, the document was never ratified. The site landscape areas were presumed developed with six inches of low permeability cover material (1x10⁻⁶ cm/s) and six inches of topsoil. Sloped landscape areas apparently received twelve inches of low permeability material and twelve inches of topsoil. Asphalt pavement and the concrete building foundation were constructed directly above the CCBP. Seventy percent (70%) of surface area was estimated to be impervious caps.



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Environmental Investigations and Actions

In 1981, the Department issued a 397 permit for the site. As part of the permit process, nine ground water monitoring wells were installed at the BWBP to characterize groundwater conditions in the shallow and deep Patapsco aquifer prior to fly ash deposition. Prior to site development, 21 ground water monitoring wells were installed across the site. Apparently, the lower aquifer did not identify any increasing metals concentrations from pre-deposition of fly ash up to 1997. The background wells located in the upper shallow aquifer identified increasing metals concentrations, but was assumed attributed by road salt; although sulfates had also increased in all three wells. In 1988, the Department issued a pozzolan exemption for fly ash.

Multiple reports were completed prior to, during and after the 397 permit process in order to evaluate the site for deposition of CCBP (Combustion Ash Disposal Feasibility Study-1980, Foundation Engineering Guidelines-1982 and Environmental Aspects of the Brandon Woods Coal Ash Site-1994). Two Phase I Environmental Site Assessments were independently performed on the property in July 2010 and July 2012. Conclusions of these reports identified the deposition of CCBP as a recognized environmental condition. On June 27, 2013, a Phase II ESA was drafted, but never implemented.

Current Status

On December 28, 2012, a VCP application was submitted by IIT Brandon Woods DC II, LLC seeking a No Further Requirements Determination as an inculpable person with future restricted commercial use identified for the property. On December 11, 2013, IIT Brandon Woods DC II, LLC submitted a request to withdrawal their application from the VCP program and subsequently, on March 21, 2014, the Department officially withdrew the application.



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