

# Sunoco, Inc - Marcus Hook Refinery

Marcus Hook, Pennsylvania



## The Road to Reuse...

In Marcus Hook, Pennsylvania, the oil refinery operations continue on 767 acres of the Sunoco Marcus Hook Refinery site. The facility is located on approximately 788 acres along the Delaware River in Marcus Hook, Pennsylvania. The refinery is generally divided into two types of areas: refining and processing activities and crude oil and product storage. Utilization of the refinery has a long history of petroleum transportation, storage, and processing.

The facility holds an EPA RCRA operating permit for a hazardous waste storage area. A non-aqueous phase liquid (NAPL) was confirmed in the groundwater at the facility. A Comprehensive Remedial Plan (CRP) was prepared in response to a request by the Pennsylvania Department of Environmental Protection (PADEP). The goals of the CRP were: (1) to fully

Approximate total acres and current use

*Approximate Acres in Reuse:*  
21

*Current Use:*  
Co-generation power plant

identify the extent of the NAPL plume, and (2) to prevent the NAPL plume migration beyond the property boundaries at the Facility by implementing hydraulic control of the water table aquifer and NAPL recovery.

The facility has implemented the corrective measures such as installation of additional monitoring wells and recovery system to prevent the migration of NAPL beyond the perimeter to the Delaware River. These remedial activities are classified by EPA as corrective action stabilization activities.

In 2000, Sunoco and Florida Power and Light negotiated the construction of a 744-megawatt combined-cycle, co-generation, natural gas fired power plant on the Phillips Island portion of the facility (about 21 acres). The co-generation plant uses natural gas as a fuel source. This reduces the number of boilers in use at the refinery and reduces the overall nitrogen oxide (NOx) and sulfur oxide (SOx) emissions. Sunoco performed a site characterization, remedial investigation and risk assessment and developed a cleanup plan for the Phillips Island site at the facility. The co-generation plant construction was completed and ready for use in November 2004.



[www.epa.gov/reg3wcmd/correctiveaction.htm](http://www.epa.gov/reg3wcmd/correctiveaction.htm)

*For More Information*

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