

US EPA ARCHIVE DOCUMENT

**RCRA Showcase Pilot  
Region 2**

**Chevron Products Company  
(a Division of Chevron USA, Inc.)  
1200 State Street  
Perth Amboy, Middlesex County, New Jersey 08861  
EPA I.D. NJD081982902**

**Innovative Pilot Background**

- The Chevron Products Company, a division of Chevron USA Inc., site has been used for petroleum refining and for the storage, blending and shipping of asphalt, light oils and heavy oil. Since 1983, Chevron has reduced its operations at the site and currently receives heavy crude oil from tankers and refines it into asphalt and by-products. The site comprises 368 acres in the City of Perth Amboy and Woodbridge Township. It is bounded to the north and south by industrial properties. The site is bounded to the west by commercial and residential properties along Convery Boulevard (State Highway 35). The site is bounded to the east by the Arthur Kill, which provides the Refinery with docking berths for tanker ships. Woodbridge Creek flows from the northwest to southeast through the northern portion of the site. Spa Spring Creek flows along the north property boundary and discharges into Woodbridge Creek.
- The refinery operations and waste management at the site resulted in the contamination of both the soil and groundwater. Preliminary data show that the soil and groundwater are contaminated mainly with benzene, xylenes, polyaromatic hydrocarbons, arsenic, lead, beryllium and tetra ethyl lead. In addition, light oily substances (such as crude oil and refined products) have been found to be floating on the groundwater at a number of locations.
- The New Jersey Department of Environmental Protection (NJDEP) issued a RCRA (Post-Closure) permit to Chevron to monitor the closed landfarm of the facility. In addition, Chevron is currently closing the three RCRA surface impoundments, attempting clean closure for one and closure with waste or contaminated residue in place for the other two. NJDEP is scheduled to issue a RCRA (Post-Closure) permit for the two closed-in-place units by 2003.
- EPA issued a RCRA (Hazardous and Solid Waste Amendments (HSWA)) permit in 1994 to Chevron to clean up the entire site. Chevron has been implementing sitewide investigations and interim remedial measures.
- In early 1998, Chevron and the City of Perth Amboy reached an agreement that two parcels (West Yard and Amboy Field) at the western part of the Chevron property were to be designated for redevelopment. They targeted the redevelopment to be completed by the early 2000s. Prior to the transfer of the property however, the parcels needed to be investigated and cleaned up to the extent required by the EPA RCRA HSWA Permit. In order to

accommodate the requirements of this transaction, it was necessary to expedite cleanup of the West Yard and Amboy Field. Chevron therefore, agreed to enter into a state voluntary clean-up program by signing a Memorandum of Agreement (MOA) with NJDEP in May 1998 for these two parcels. Chevron has been complying with the MOA while continuing to implement the site-wide cleanup under the EPA RCRA HSWA Permit.

- Chevron purchased the portion (North Field Extension (NFE)) of the site, situated on the north bank of Woodbridge Creek, in 1958. However, they never used the area. After completing the initial phase of investigation on the area, Chevron brought suit against previous owners/responsible parties for the contamination in the area. A final settlement between Chevron and responsible parties is expected soon. Upon settlement, Chevron will proceed with further investigation and cleanup required of the area.

### **Summary of Innovative Approach**

- The corrective action approach resulted from a unique partnership among EPA, NJDEP, Chevron, and the City of Perth Amboy. While performing the sitewide investigation, Chevron and the City of Perth Amboy agreed to designate the two parcels of the site as a redevelopment zone. In order to satisfy the expedited schedule and also meet all federal and State statutory and regulatory requirements, Chevron and NJDEP entered into an MOA for only the parcels.
- The NJDEP MOA process is a protective and accountable state non-RCRA cleanup program. Use of this State program at the Chevron site is expected to achieve RCRA Program goals. The MOA innovative approach has been applied to other similar development sites in New Jersey.
- Chevron is one of 61 New Jersey sites that is on the RCRA GPRA baseline of facilities that are subject to the 2005 deadline for achieving the Environmental Indicators of Migration of Contaminated Groundwater Under Control and Current Human Exposures Under Control. EPA will continue to monitor the progress of corrective action work at the site to evaluate the progress in meeting the Environmental Indicators.

### **Project Milestones**

#### *Entire Sitewide (except West Yard, Amboy Field, and North Field Extension)*

- November 2001- Full RCRA Facility Investigation Work Plan.
- March 2002 - Agencies' review on the November 2001 Full RFI Work Plan.
- July 2002- Chevron's response to the March 2002 review.

#### *West Yard and Amboy Field*

- January 1999: West Yard Investigation Report.
- December 2000: West Yard Remedial Investigation Report.

- March 2001: West Yard Groundwater Remedial Action Work Plan.
- June 2001: West Yard Remedial Action Report.
- July 2001: West Yard Sewer System Investigation Report.
- November 2001: NJDEP's review comments on the March 2001 West Yard Groundwater Remedial Action Work Plan.
- November 2001: NJDEP's review comments on the June 2001 West Yard Remedial Action Report.
- November 2001: NJDEP's review comments on the July 2001 West Yard Sewer System Investigation Report.
- November 2001: West Yard Sewer System Investigation Report Addendum.
- February 2002: NJDEP's review comments on the November 2001 West Yard Sewer System Investigation Report Addendum.
- May 2002: West Yard Remedial Investigation/Remedial Action Work Plan Addendum.
- NJDEP is currently reviewing the May 2002 Remedial Investigation/Remedial Action Work Plan Addendum.

#### *North Field Extension*

- **Settlement between Chevron and Responsible Parties expected soon.**

#### **Photographs, Graphics or Map**

See attached map.

#### **EPA and NJDEP Contacts**

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