

# NEW YORK STATE DEPARTMENT OF



## ENVIRONMENTAL CONSERVATION

### Document Repository:

To better understand the site, the public is encouraged to review the project documents at the following repository:

Kirkwood Town Clerk's Office  
70 Crescent Drive  
Kirkwood, NY 13795-9654  
Phone: (607) 775-1966  
Attn: Ms. Gayle Diffendorf, Town Clerk

### Hours:

M-F: 9 am to 1 pm and  
2 pm to 4 pm

### Project Contacts:

#### Environmental Concerns:

John Durmin  
NYSDEC, Division of Environmental  
Remediation  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7016  
(518) 402-9774; (1888) 212-9586

#### Site Related Health Concerns:

Melissa Menetti  
Public Health Specialist  
NYSDOH  
Bureau of Environmental Exposure  
Investigation  
Room 300, Flanigan Square  
547 River Street, Troy, NY 12180-  
2216  
1-800-458-1158 ext. 27860



The documents in the repository have been reviewed and approved by the New York State Department of Environmental Conservation (NYSDEC), and the New York State Department of Health (NYSDOH).



*NYSDEC encourages your participation in this project. Your understanding and involvement can help ensure a cleanup program that effectively protects public health and the environment.*

# FACT SHEET

Former TNT Red Star Express Site

97 Industrial Park Road, Kirkwood, Broome  
County, New York  
NYSDEC, Region 7, Site No. 7-04-028

October 2007

**Former TNT Red Star Express Site  
97 Industrial Park Drive  
Kirkwood, NY**

## Consent Order Agreement Signed

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## A Change in the Selected Clean-Up Method Available for Review

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## Groundwater Clean-Up Design Underway

\* \* \*

### **Consent Order Agreement Signed:**

YRC Worldwide Enterprise Services (YRC) has assumed the responsibility for the clean-up of the tetrachloroethylene (PCE) contamination at the Site and has been progressing toward a site cleanup since early 2005. In August 2007 the responsible party signed a Consent Order Agreement with the New York State Department of Environmental Conservation (NYSDEC) to design and implement the clean-up at the Site.

### **Change in the Selected Clean-Up Method:**

In 2001, the NYSDEC issued a decision document or Record of Decision (ROD) which selected a method to clean up the site. The method calls for pumping the contaminated groundwater through a treatment system. Also, the clean-up includes treating the contaminated groundwater water using a biological method called bioremediation.

**New Information:** Since the ROD was issued, the concentration of the chlorinated solvent, tetrachloroethylene (PCE), in the groundwater has decreased. In addition, the science of bioremediation of chlorinated solvents has improved. Based on a July 2006 Bioremediation Bench Test Study at the site and the results of the February 2007 Bioremediation Pilot Field Study, the groundwater pumping and treatment system called for in the ROD no longer appears to be the best clean-up method, or remedy, for this site.

Based on these recent studies, the change to the selected ROD remedy that the NYSDEC is making is to biologically treat the contaminated groundwater in-place with no pumping. All the other elements of the ROD remedy (see page two) will remain the same and will be implemented. An explanation of this significant difference is available for review in the document repository listed above.

### **Highlights of the Clean-up Design:**

The bioremediation clean-up design will inject the groundwater with a treatment of a Hydrogen Release Compound (HRC). This promotes the breakdown or biological destruction of the contaminants in the groundwater. The design will include details of the number of HRC injection points, their locations, spacing and depth. This design will be reviewed for approval by NYSDEC and the New York State Department of Health (NYSDOH). A long-term groundwater monitoring program will also be required to monitor the effectiveness of the HRC injections. An approved schedule will be included and reporting to NYSDEC will be part of that schedule.

(see map of site on pages 2 of this Fact Sheet)



# Fact Sheet

## Site Location and Description

The TNT Red Star Express Site is located at 97 Industrial Park Road in the Town of Kirkwood within an industrial park area owned by the Broome County Industrial Development Agency. The industrial park is located adjacent to County Route 181(perimeter road), south of US I81 and north of Route 11. The site occupies approximately five acres and consists of a single story truck terminal and a maintenance garage. The site is currently used as a trucking terminal where goods are transferred between trucks for distribution. The Susquehanna River is approximately one-half mile south of the site. Park Creek, a small tributary to the River, is less than 500 feet east of the site. Public water and sewage utilities serve the area.

## Site Background

In January of 1991, approximately 100 gallons of tetrachloroethylene (PCE) were accidentally spilled at the loading dock. The PCE soaked into the adjacent soils. Prompt clean-up work involved the removal of approximately 120 tons of contaminated soil. Three monitoring wells were installed on the property, and a soil vapor extraction system was constructed. Groundwater sampling has confirmed that PCE impacted the aquifer and migrated in a southwesterly direction under a portion of the neighboring Harris Industrial Building. The closest major water supply well, Conklin Town Well No. 2, is located on the other side of the Susquehanna River. The next closest public water supply well serves the Town of Kirkwood.

## Elements of the Record of Decision

In February 2001 a final selection of the clean-up method was made and documented in the Record of Decision (ROD). The elements of the ROD are as follows:

- Installation of a groundwater extraction and treatment system.
- Installation of injection wells around the source areas to introduce nutrients and/or microbes into the groundwater to enhance the biodegradation of the contaminants.
- Implementation of a treatability study to effectively design the bio-remediation system.
- Implementation of a long-term monitoring program to evaluate the effectiveness of the remedy.

## Future Site-Related Activities

- Once the bioremediation design is approved by NYSDEC and NYSDOH, the field work will begin with the HRC injections.
- A Fact Sheet will be mailed to everyone on the Citizens Participation Mailing List when the design is approved and the field work begins.
- As part of the clean up process, the groundwater will be monitored to determine the effectiveness of the HRC injections. The results of the groundwater sampling will be reported to NYSDEC and NYSDOH.
- A Final Engineer's Report will be submitted to NYSDEC after the Site has been remediated or cleaned up.
- In March 2006 YRC implemented a soil vapor gas sampling program at the TNT Red Star Express Site. Several rounds of sampling have been done inside and below the terminal building and outdoors. One remaining round of indoor air sampling will be conducted during the Fall 2007 heating season.

