

NEW YORK STATE
DEPARTMENT OF



ENVIRONMENTAL
CONSERVATION

**Pre-Design
Investigation Phase
Work Plans and
Reports Available For
Review**

The pre-design investigation phase is part of the clean-up design. Information from this phase is combined with the Remedial Investigation/Feasibility Study and Record of Decision to prepare the design to clean up the site.



To make the work plans and reports available to the public, a document repository has been established at the Kirkwood Town Clerk's Office, 70 Crescent Drive, Kirkwood, NY (see details on reverse side).

These documents 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

November 2006

Pre-design Investigation Phase Underway at the Former TNT Red Star Express Site



Work Plans and Reports Available for Review



YRC Worldwide Enterprise Services (YRC) has assumed the responsibility for the clean-up of the tetrachloroethylene (PCE) contamination at the TNT Red Star Express Site. Leader Professional Services (Leader) has been hired by YRC to conduct the Pre-Design Investigation work.

Highlights of the Pre-Design Investigation Include:

- The environmental consultant inspected, evaluated and sampled the monitoring wells at the site between March 2005 and September 2005. The groundwater sample results indicated the groundwater contamination had decreased since 1999, but the site groundwater still needs a clean-up design.
- In September 2005, at the request of NYSDEC, YRC volunteered to conduct a soil vapor intrusion evaluation of the site.
- Soil vapor, indoor air and outdoor ambient air samples were collected at the site in March 2006 and reported to NYSDEC in May 2006. As a result, indoor and outdoor air monitoring will continue in the terminal building this heating season.
- A Bench Test Study was performed during March and April 2006 to determine if the native soil contains enough bacteria suitable to clean up the tetrachloroethylene (PCE) contamination. The results were favorable for the bacteria to clean up the PCE.
- A 90 day Bioremediation Pilot Field Study began in September 2006. Nutrients and a hydrogen releasing compound were injected into the soil and groundwater to see if bacteria can clean up the PCE contamination.
- Four off-site soil vapor samples were collected on September 27, 2006, as part of the approved Off-Site Soil Vapor Sampling Work Plan. Elevated levels of PCE were detected.

(see maps of site on pages 3 and 4 of this Fact Sheet)

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

NYSDEC Central Office
625 Broadway, 12th Floor
Albany, NY 12233-7016
Contact :Mr .John Durnin, Project
Manager (518) 402-9774
M-F: 7:30 am to 4 pm
Please call for an appointment.

**NYSDEC
Region 7 Headquarters**
615 Eric Boulevard West
Syracuse, NY 13204
Telephone: 315-426-7400
M-F: 8:30 am to 4:45 pm
Attention: James Burke
Please call for an appointment.

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

For More Information: Call or write
the following staff for more information about:

Environmental Concerns:

John Durnin
NYSDEC, Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7016
(518) 402-9774; 1(888) 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

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 181 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 (SVE) system was constructed. Groundwater sampling has confirmed that PCE has impacted the aquifer and has migrated in a southwesterly direction. 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. The Town currently operates an air stripper on these wells because of prior contamination from other sources.

Elements of the Record of Decision

In February 2001 a final selection of the remedial action for the clean-up 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.

Health and Safety Plan and QA/QC Plans

The environmental consultant has provided and implemented a site-specific Health and Safety Plan which includes a community air monitoring plan. In addition, there is a Quality Assurance/Quality Control Plan for Soil and Groundwater Sampling Activities and a Quality Assurance/Quality Control Plan for Air and Soil Vapor Sampling Activities.

Future TNT Red Star Express Activities

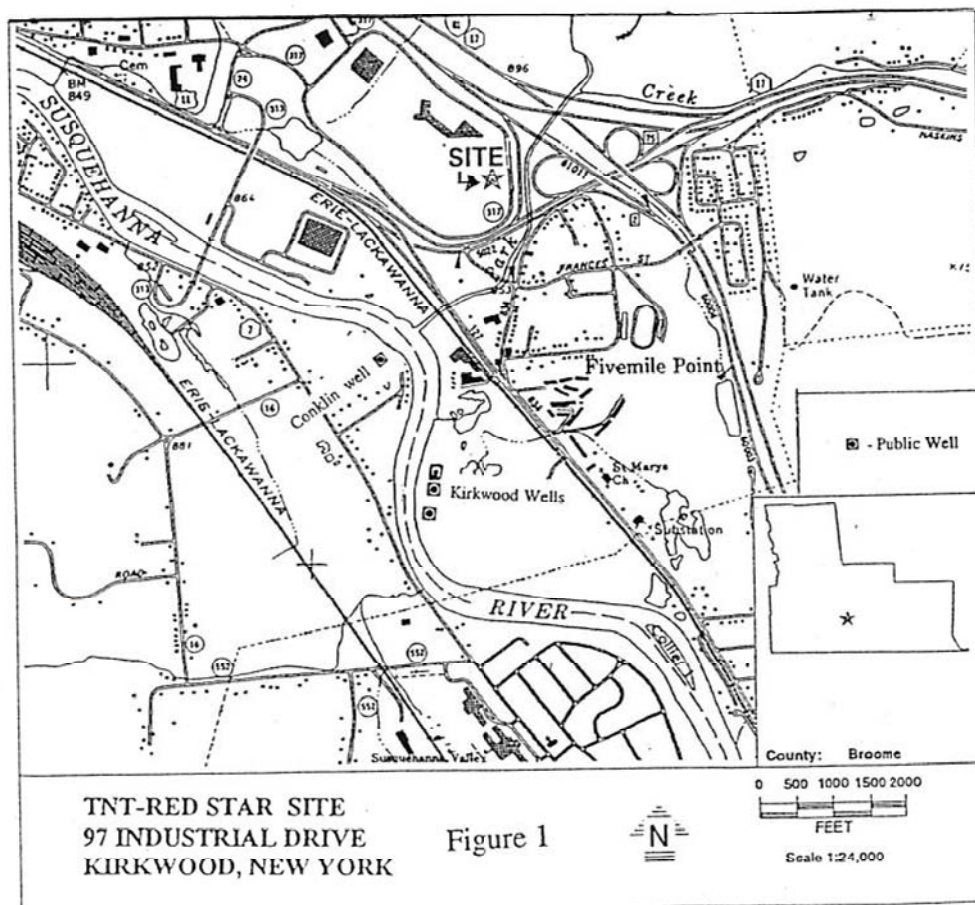
- Collect additional indoor air samples in the terminal building plus one outdoor ambient air sample. Sampling will be conducted during this heating season.
- Complete the 90 day Bioremediation Pilot Field Study; evaluate the effectiveness of the bacteria in the soil and groundwater to clean up the PCE contamination .
- Evaluate the results of the off-site soil vapor samples.
- Design a clean-up approach for the TNT Red Star Express Site based on the results of the pre-design investigations.

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Recent Documents in the Repositories:

- *Groundwater Sampling and Analytical Results*, dated October 19, 2005
- *Bioremediation Bench Study Work Plan*, dated February 2006. This includes the *Quality Assurance/Quality Control Plan for Soil and Groundwater Sampling Activities*, dated February 2006, and the *Health and Safety Plan* dated February 2006.
- *Soil Vapor and Indoor Air Sampling Work Plan*, dated March 2006. This includes the *Quality Assurance/Quality Control Plan for Air and Soil Vapor Sampling Activities*, dated March 2006.
- The results of the soil vapor and indoor air sampling study were reported in the *Vapor Intrusion Study Report*, dated May 2006.
- *Bioremediation Bench Study Report*, dated July 2006
- *Bioremediation Pilot Field Study Work Plan*, dated August 2006
- *Off-Site Soil Vapor Sampling Work Plan*, dated August 2006
- An addendum to the March 2006 Work Plan entitled "*Seasonal Ambient and Indoor Air Sampling Work Plan, Addendum*", dated September 20, 2006
- *Off-Site Soil Vapor Sampling Report*, dated October 18, 2006

Your Opportunities to be Informed and Involved: The Citizen Participation Plan describes activities to keep you informed and involved during the design and cleanup of the site. You are encouraged to review the Citizen Participation Plan available at the document repositories. *Your comments and suggestions about the Citizen Participation program for the Former TNT Red Star Express Site are always welcome.*



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