



### Public Meeting Invitation

**March 6<sup>th</sup>  
7:00 - 9:00 PM**

Poughkeepsie Town Hall  
One Overocker Road  
Poughkeepsie, NY 12601

The New York State Departments of Environmental Conservation and Health (NYSDEC and NYSDOH) will discuss the proposed remedy for the Former Duso Chemical Site. At the meeting, representatives from the NYSDEC and NYSDOH will:

- Describe results of the site investigations;
- Explain the proposed remedy;
- Answer your questions about the remedy;
- Receive your verbal or written comments about the proposal.

### PUBLIC COMMENT PERIOD

**From:** February 19, 2008  
**To:** March 19, 2008

# FACT SHEET

February 2008

Former Duso Chemical Site  
SITE No. 3-14-103  
33 Fulton St.  
Poughkeepsie, New York 12601

## Remedy Proposed for the Former Duso Chemical Site

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### Public Meeting, Comment Period Announced

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The New York State Department of Environmental Conservation (NYSDEC), working cooperatively with the New York State Department of Health (NYSDOH), has proposed a remedy designed to address contamination identified at the Former Duso Chemical Site in Poughkeepsie, New York (*see location map on page 4*).

**The Proposed Action:** The proposed remedy includes a combination of In-Situ (or in place) Thermal Desorption and Enhanced In-Situ Bioremediation. Details of the proposed remedy are provided below. A Site Management Plan would be developed to address the operation, maintenance and monitoring of the remedial systems, and an environmental easement placed on the property to ensure the effectiveness of the proposed remedy. This proposal is described in the site's Proposed Remedial Action Plan (PRAP). The PRAP was developed following a detailed investigation of the site. The PRAP evaluates different options to clean up the site, and presents the alternative preferred by the NYSDEC and NYSDOH.

*See pages 2 and 3 of this fact sheet for a summary of the PRAP, site background, and summary of the site investigation. The full PRAP is available for your review at the document repositories listed on page 3.*

**Your Opportunities to Comment on the Proposed Remedy:** Release of the PRAP begins a process to finalize selection of the remedy for the site. Your comment and input about the proposed remedy are important and encouraged.

Your oral and written comments about the PRAP are welcome at the **public meeting** (see sidebar) and during a **public comment period** which runs until March 19, 2008. Written comments also may be mailed until the end of the comment period to:

John Miller  
NYSDEC, Division of Environmental Remediation  
625 Broadway  
Albany, NY 12233-7014

**What Happens Next:** All comments received during the public comment period will be considered as the remedy for the Former Duso Chemical site is finalized. Public input will be factored into the Record of Decision (ROD) which will describe the remedy selected and why it was chosen. NYSDEC will respond to comments in a responsiveness summary included in the ROD.

## Site Background and History

Duso Chemical is the site of a former chemical storage and distribution facility located at 33 Fulton Street in the Town of Poughkeepsie, Dutchess County, NY. The site is located in a mixed residential and commercial area and is approximately three acres in size (See **Figure 1**). A propane distributor currently occupies the property. This site, and all nearby properties are served by public water.

In the mid 1990s, an adjacent property on North Road, the Mid-Hudson Business Park (MHBP) was the subject of several environmental investigations. A Phase I Environmental Site Assessment found high levels of chlorinated volatile organic compounds (VOCs) in the groundwater of the MHBP. Based on this information, a Phase II investigation and a Remedial Investigation were conducted. These studies discovered an area of concern in the southeastern section of the MHBP and data suggested the likely source of the contamination was the adjacent former Duso Chemical property. Historical records show that there was a chemical fire at the Duso Chemical Plant in the early 1960's, which is suspected to have released a large quantity of unknown materials. This may have been a contributing factor to the contamination.

Based on these findings, the NYSDEC listed the former Duso Chemical site on the state's Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site. A Class 2 site is defined as having hazardous wastes present at concentrations representing a significant threat to human health and/or the environment, and requires remedial action.

## Site Investigation

In May of 2005, a state funded Remedial Investigation (RI) began at the site. The goal was to obtain additional soil and groundwater data to delineate the nature and extent of the site's contamination. Other objectives included the identification of source areas, contaminant transport mechanisms and potential human or ecological resource receptors.

To meet these objectives, the following activities have been completed:

- The installation of soil borings and analysis of numerous soil samples to obtain subsurface data
- The installation of monitoring wells and collection of water samples to obtain groundwater data
- A vapor intrusion program to evaluate indoor air quality of buildings on and near the site

The activities completed under the RI have confirmed the presence of significant concentrations of VOCs in the site's soil and groundwater. Much of the contamination has migrated and settled in the saturated subsurface soils and groundwater on the adjacent former MHBP property. Data shows that the contamination appears to be relatively isolated and is not present in the underlying bedrock.

Soil vapor sampling determined that vapor intrusion is an issue of concern on the site. As a result, an Interim Remedial Measure was completed to mitigate vapor exposures in the on-site building. Additional soil vapor sampling determined that vapor intrusion was not a problem elsewhere.

## Summary of Proposed Remedial Action

The PRAP identifies the remedy preferred by the NYSDEC and NYSDOH to remediate the on-site and off-site soil and groundwater and to address any potential exposures to contaminated environmental media. The proposed alternative is the result of an evaluation of several alternatives, as presented in the Site's Feasibility Study Report. The proposed remedy would utilize Enhanced In-Situ Biological (EISB) Treatment in combination with In-Situ Thermal Desorption (ISTD) to address the contamination associated with the site.

The main elements of the proposed remedy include:

- An on-site remedial component for the Former Duso property consisting of EISB in groundwater using targeted injections of electron donor material designed to increase the natural degradation rate of contaminants;
- An off-site remedial component to remove and treat source areas present on the adjacent MHBP by ISTD. ISTD would

utilize conductive heating wells designed to volatilize contaminants for collection and treatment;

- Development of a site management plan and imposition of institutional controls to ensure the effectiveness of the proposed remedy; and
- Periodic certification that the institutional controls and engineering controls are still in place and effective.

## **Costs and Funding for the Site Remedy**

The total present worth to construct and implement the proposed remedy is estimated at \$ 2,500,000. The proposed remedial program would not affect current site operations.

### ***Document Repositories:*** *To review the complete PRAP and other site documents:*

Adriance Memorial Library  
93 Market Street  
Poughkeepsie, NY 12601  
(845) 485-3445  
Hrs: M-Th 9am-9pm;  
F-S 9am- 5pm; Su 1pm-5pm

NYSDEC Region 3  
21 South Putt Corners Road  
New Paltz, New York 12561  
(845) 256-3154  
Hours: Mon-Fri 8:30 am - 4:45 pm

NYSDEC, Remedial Bureau C  
625 Broadway, 11<sup>th</sup> Floor  
Albany, New York 12233-7014  
Contact: John Miller  
Phone: (518) 402-9564  
Hours: Mon-Fri 7:30 am - 3:45 pm

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

#### **Meeting/Comment Period/**

#### **Technical Information:**

John Miller  
NYSDEC, Remedial Bureau C  
625 Broadway, 11<sup>th</sup> Floor  
Albany, New York 12233-7014  
Phone: (518) 402-9564  
E-mail: [jymiller@gw.dec.state.ny.us](mailto:jymiller@gw.dec.state.ny.us)

#### **Health-Related Information:**

Nathan Walz  
Public Health Specialist  
NYS Department of Health  
547 River Street  
Troy, NY 12180  
(518) 402-7880

#### **Citizen Participation:**

Michael Knipfing  
NYSDEC Region 3  
21 South Putt Corners Road  
New Paltz, New York 12561  
Phone: (845) 256-3154

**PLEASE NOTE: In the event of severe weather conditions on March 6, 2008, the meeting will be rescheduled to March 11, 2008 from 7:00-9:00 PM, at the same venue**

Figure 1

