



FACT SHEET Voluntary Cleanup Program

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Site Name: Steel Treaters, Inc.
DEC Site #: V00578
Address: 520 Campbell Avenue
Troy, NY 12180

Have questions? See "Who to Contact" Below

Cleanup Action to Begin at Voluntary Cleanup Site

Action is about to begin that will address the contamination related to the Steel Treaters, Inc., site, ("site") located at 520 Campbell Avenue, Troy, Rensselaer County, under New York State's Voluntary Cleanup Program. Please see the map for the site location.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

The cleanup activities will be performed by ESCO Corporation ("volunteer(s)") with oversight provided by the New York State Department of Environmental Conservation (NYSDEC).

Highlights of the Upcoming Cleanup Activities

The goal of the cleanup action for the site is to achieve cleanup levels of contamination resulting from the past industrial use of this site that protect public health and the environment. The cleanup action for the site includes:

- 1. Installation of site cover to allow for commercial or industrial use of the site in areas where the upper one foot of exposed surface soil exceeds the commercial use soil cleanup objectives (SCOs).
2. Installation of two Permeable Reactive Barrier (PRB) treatment walls to reduce elevated concentrations of chlorinated solvents in groundwater and mitigate off-site migration of impacted groundwater.
3. Installation of sealed sheet pile shoring to direct groundwater towards the PRB installed along the northern property line.
4. Importation of clean material meeting the commercial use or protection of groundwater SCOs for use as backfill;
5. Adoption of administrative controls including a site management plan and environmental easement to ensure proper use of the site, as well as long-term monitoring and maintenance measures to ensure effectiveness and protectiveness of the remedy; and
6. Evaluation of the potential for soil vapor intrusion on off-site properties to determine whether an action is required (e.g., sub slab depressurization system).

Summary of Past Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document. IRMs have been conducted at this site during the Remedial Investigation (RI).

The IRMs outlined below have been completed based on conditions observed during the RI. Initial investigation results identified significantly elevated chlorinated volatile organic compounds (VOCs) in soil and groundwater in the vicinity of the former degreasing pit/source area within the building footprint. However, interim remedial actions significantly reduced chlorinated solvent concentrations in soil and groundwater in the source area.

In-Situ (In-Place) Chemical Oxidation IRM

Approximately 13,000 pounds of a proprietary chemical oxidant was injected into three subsurface zones in the vicinity of the former degreasing pit/source area. The oxidant was injected into the subsurface to destroy the contaminants in the source area.

Soil Vapor Extraction (SVE) IRM

A SVE system was installed to remove VOCs from the subsurface in the vicinity of the former degreasing pit/source area. VOCs were physically removed from the soil by applying a vacuum to extraction wells that were installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells was then treated by passing it through activated carbon to absorb contamination in the extracted vapor prior to discharge to the atmosphere.

Soil Excavation IRM

Soils from beneath the base of the degreasing pit/source area were excavated to a depth of 8 feet. The excavation was backfilled with clean fill. Excavated soil was shipped to a permitted off-site disposal facility. A total of 17 tons of contaminated soil was delivered to the disposal facility.

The cleanup action (PRB) will address remaining contamination below the water table and mitigate off-site migration of impacted groundwater.

Next Steps

After completion of the cleanup activities by the volunteer, the volunteer will prepare a Final Engineering Report and submit it to NYSDEC. This document will describe the cleanup activities completed and certify that cleanup requirements have been achieved or will be achieved.

When NYSDEC is satisfied that cleanup requirements have been achieved or will be achieved for the site, it will approve the Final Engineering Report. NYSDEC will then issue the volunteer a release letter that provides a release from liability. This release letter would declare that the volunteer has met its obligations and that NYSDEC would not require the volunteer to perform additional investigation or cleanup at the site, subject to certain conditions. The release letter would allow for the redevelopment of the site.

Background

Location: The site is approximately 1.1 acres located at 520 Campbell Avenue in a suburban area of the City of Troy. The site is bounded by Campbell Avenue to the north, beyond which are commercial properties, a strip mall to the west, a wooded, steeply sloping lot to the east and a residential property to the south.

Site Features: The subject site formerly consisted of an 8,400-square foot building and associated paved parking and landscaping areas. The southern portion of the site remains wooded and undeveloped. The building, which was heavily damaged in a fire, was located approximately 20 feet from the eastern property boundary. A former pad mount transformer was located on the eastern portion of the parcel. The building has been demolished, but the concrete slab remains. The area is served by municipal water.

Current Zoning/Use(s): The subject site is zoned for industrial use and is located within an industrial district. The immediate neighborhood is comprised of a mixture of uses including commercial, industrial, and residential. The site has been vacant since a 2005 fire.

Past Use of the Site: Steel Treaters was a steel heat treating facility that began operations in 1966 as a manufacturer of a variety of specialty steel products. For a limited time, the company used chlorinated solvents for degreasing in a small part of its manufacturing process. The former degreasing pit was the source of the contamination found at the site.

Site Geology and Hydrogeology: Overburden at the site consists of several feet of granular fill material overlying silty and clayey lacustrine deposits. Shale bedrock at the site occurs at depths ranging from 4.5 to 25.8 feet below ground surface. The water table is in the overburden and ranges from just below ground surface to 6 feet below grade. The groundwater flow direction is northward, towards Campbell Avenue and Wynants Kill (creek).

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

<http://www.dec.ny.gov/cfm/external/derexternal/haz/details.cfm?pageid=3&progno=V00578>

Voluntary Cleanup Program: New York's Voluntary Cleanup Program (VCP) was developed to encourage private sector volunteers to investigate and clean up contaminated properties and return these sites to productive use. Once cleaned up, the properties may be redeveloped for commercial, industrial, residential or public use.

For more information about the VCP, visit: <http://www.dec.ny.gov/chemical/8442.html>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Troy Public Library
100 Second Street
Troy, NY 12180
phone: 518-274-7071

NYSDEC
Attn: Javier Perez-Maldonado
625 Broadway
Albany, NY 12233
phone: 518-402-9768
(javier.perez-maldonado@dec.ny.gov)

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

Javier Perez-Maldonado
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7016
518-402-8172
javier.perez-maldonado@dec.ny.gov

Site-Related Health Questions

Arunesh Ghosh
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza, Corning Tower, Room 1787
Albany, NY 12237
518-486-7860
BEEI@health.ny.gov

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: <http://www.dec.ny.gov/chemical/61092.html>. It's quick, it's free, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Site Location Map

