



ENVIRONMENTAL
CONSERVATION

**PROPOSED REMEDIAL ACTION PLAN
PUBLIC MEETING / COMMENT PERIOD
ANNOUNCED
January 2003**

**F&T DARRIGO
SITE
PROPOSED
REMEDIAL ACTION
PLAN**

**F&T Darrigo Site
Town of Newburgh, Orange County, NY
Site No. 3-36-002**

The community is invited to attend a public meeting on **January 28 at 7:00 pm** in the **Newburgh Town Hall** to discuss the proposed remediation of soil contamination at the F&T Darrigo site located on Lakeside Drive in Newburgh, New York. This meeting is sponsored by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). The NYSDEC will present several alternatives which were evaluated to address this contamination, along with the rationale for recommending the Proposed Remedial Action Plan (PRAP).

Meeting Date and Location:

**January 28, 2003, 7:00 pm
Newburgh Town Hall
1496 Route 300
Newburgh, NY 12550**

During the meeting, the NYSDEC will accept verbal and written comments on the proposed plan. The NYSDEC will also accept written comments on the plan through February 13, 2003. After considering both verbal and written comments on the proposed plan, the NYSDEC will select the remedy for the site and issue a Record of Decision (ROD).

SITE LOCATION

Public Comment Period

**January 15, 2003 through
February 13, 2003**

The F&T Darrigo Site is located on Lakeside Road, immediately north of Interstate I-84, in the Town of Newburgh, Orange County (Figure 1). The site is currently owned by Mr. Frank Darrigo and is operated as a lumber and landscaping materials yard.

Send Written Comments to:

**Gianna Aiezza
NYSDEC-DER
21 South Putt Corners Road
New Paltz, NY 12561-1696**

The site occupies approximately 8 acres of the 59 acres owned by Mr. Darrigo. The site was used for septage disposal and consists of two abandoned lagoons, a former soil pile area, and a land spreading area. Residential properties are located to the north, east and west of the site and Route 84 is located to the south. The residential properties are supplied by both municipal and private water.

SITE DESCRIPTION AND HISTORY

The F&T Darrigo site began operation as a land spreading area for the spreading of sewage sludge in 1948 and continued until 1985. Previous reports and studies indicate that the site received an estimated 800,000 gallons per year of liquid wastes. It is suspected that hazardous wastes, including spent cleaning solution from metal finishing, furniture stripper, and battery waste containing lead were disposed of in the on-site lagoons and land spread with the septage waste.

The site is divided into three areas, described as follows (see Figure 2):

Lagoons: The East Lagoon (1.33 acres) and the West Lagoon (0.67 acres) comprise a total area of approximately 2.0 acres. The lagoon areas were previously used for the storage of septic waste to be land spread in the area south of the West Lagoon. The lagoons are densely vegetated with shrub and thistle.

Former Soil Piles: A series of soil piles were previously located adjacent to the dirt access road, northeast of the lagoons. The soil piles were associated with historic sludge disposal activities and consisted of soil with blue-green coloring. The soil piles and a contaminated area of the access road were excavated during the Focused Remedial Investigation (FRI) and are staged on site waiting for disposal.

Land Spreading Area: The land spreading area is located south of the West Lagoon, directly north of Interstate 84. The area occupies approximately one half acre and was historically used for the land spreading of septic waste.

In 1983, the NYSDEC placed the F&T Darrigo site on the NYS Registry of Inactive Hazardous Waste Disposal Sites as a Class 2a site. This is a temporary classification assigned to sites where there is confirmed disposal of hazardous waste but there is inadequate data on hazardous waste impact to the environment and human health to assign them to the five classifications specified by law.

In March 1984, the NYSDEC collected samples of on-site soils that revealed elevated concentrations of metals. In 1986, a state-funded Phase I Investigation was conducted that confirmed the presence of elevated concentrations of a variety of metals in on-site soils.

In 1989 and 1990, a state-funded Phase II Investigation was conducted. A Phase II Investigation Report was submitted to the NYSDEC in January 1991 that confirmed the presence of metals at hazardous levels and concluded that further investigation was necessary to determine both the extent of the contamination at the site and an appropriate remedial measure.

In 1991, as a result of the Phase II Investigation, the NYSDEC reclassified the F&T Darrigo site from a Class 2a to a Class 2 on the NYS Registry of Inactive Hazardous Waste Disposal Sites. Sites with this classification pose a significant threat to public health or the environment and action is required.

In March 1999, an Order on Consent requiring a Focused Remedial Investigation / Focused Feasibility Study (FRI/FFS) for the site was executed by Mr. Frank Darrigo and the NYSDEC.

SITE INVESTIGATION

The Consent Order required a FRI/FFS in order to define the nature and extent of any contamination resulting from previous activities at the site. The field investigations associated with the FRI/FFS were conducted from 1999 through 2001. A June 2002 report entitled "Focused Remedial Investigation Report" and a August 2002 report entitled "Focused Feasibility Study" describe the field activities and findings of the FRI/FFS in detail.

The FRI/FFS included the following activities:

- Survey of site features, including the lagoons, access road and soil piles;
- Installation of four monitoring wells and the collection of 108 soil samples for chemical analysis of soils and groundwater as well as physical properties of soil and hydrogeologic conditions;

- Excavation of the soil piles consisting of sewage and industrial waste sludge, and of an adjacent portion of the access road that had high concentrations of contaminants.

As described in the FRI/FFS, the nature and extent of contamination at the site were characterized by groundwater and soil samples collected throughout the FRI.

Groundwater sampling revealed no metals of concern above Standards, Criteria, and Guidance values (SCGs) in the groundwater.

Soil samples defined the extent of the soil contamination in the lagoons, land spreading area and former soil piles. The primary metals of concern are chromium, copper, lead, nickel and zinc.

Based on the FRI/FFS results, and in light of relevant NYSDEC SCGs and potential public health and environmental exposure routes, NYSDEC has determined that the soil at the F&T Darrigo site requires remediation.

THE PROPOSED REMEDY

Six remedial alternatives were evaluated to address the soil contamination at the site.

Based upon the results of the FRI/FFS, and an evaluation of these alternatives, the NYSDEC is proposing the following:

1. Excavation and off-site disposal of soil in the lagoons and land spreading area with chromium concentrations greater than 1000 parts per million (ppm).
2. Excavation of remaining contaminated soils located south of the lagoons in the former land spreading area, and placement of the soils on the lagoons.
3. Placement of caution tape over the lagoons followed by 2 feet of soil cover and the planting of poplar trees in the lagoon area for phytoremediation of metals present in on-site soil. Phytoremediation uses plants to clean up pollutants in the environment. Poplar trees have been shown to be effective for the clean up of soils containing elevated levels of metals. Sampling of the soil will be completed every two years to monitor the effectiveness of the remedy. A 6-foot chain link fence will be installed around the perimeter of the lagoons.
4. Off-site disposal of the staged soil from the former soil piles and access road.
5. Annual inspection and maintenance of the lagoon area including mowing of the lawn and inspection and maintenance of the soil cover and chain link fence. The soil cover would be inspected for any exposure of the caution tape and would be repaired and maintained as necessary.
6. Institutional controls consisting of deed restrictions for the site.

CITIZEN PARTICIPATION

The NYSDEC, in conjunction with the NYSDOH, is committed to establishing effective two-way communication with the public. The public is encouraged to make use of the Document Repositories and to comment on the PRAP, either during the January 28, 2003 public meeting, or during the January 15, 2003 through February 13, 2003 public comment period. Documents currently in the repositories include past work plans and reports, the 1999 Order on Consent, the FRI/FFS, and the PRAP.

Written comments (postmarked on or before February 13, 2003) should be sent to:

**Gianna Aiezza
NYSDEC-DER
21 South Putt Corners Road
New Paltz, NY 12561-1696**

After considering comments on the PRAP, the NYSDEC will select the remedy for the site and issue the Record of Decision (ROD). The ROD will contain a "Responsiveness Summary", which will address the questions and concerns raised during the comment period. A copy of the ROD will be placed in the Document Repositories and a "Notice of ROD Availability" will be mailed to the site's contact list.

Contacts for Additional Information:

The Site Investigation

Gianna Aiezza
NYSDEC Region 3 Office
Project Manager
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3153

Site-Related Health Concerns

Bridget Callaghan
NYSDOH Project Manager
547 River Street
Troy, NY 12180
1-800-458-1158 ext.27880

Citizen Participation

Michael Knipping
NYSDEC Region 3 Office
Citizen Participation Specialist
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3154

Document Repositories:

Town Clerk

Town of Newburgh
1496 Route 300
Newburgh, NY 12550
(845) 564-4554
Hours: Mon - Fri 8:30 am - 4:30 pm

Newburgh Free Library

124 Grand Street
Newburgh, NY 12550
(845) 561-1985
Hours: Mon - Thurs 9 am - 9 pm
Fri, Sat 9 am - 5 pm
Sun 1 pm - 5 pm

NYSDEC Region 3

21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3154
Hours: M-F: 8:30 am - 4:45 pm

PLEASE NOTE: In the event of severe weather conditions on January 28, 2003, the meeting will be rescheduled to January 30, 2003 at 7:00 pm.