



FACT SHEET - MARCH 2002

Soil Remediation Program Work Plan, March 2002

Former Sylvania Electric Products Facility

Voluntary Cleanup Program Site No. V00089-1
Town of Oyster Bay, Nassau County

PUBLIC MEETING ANNOUNCEMENT

The New York State Department of Environmental Conservation (NYSDEC), working cooperatively with the New York State Department of Health (NYSDOH) and the Nassau County Department of Health (NCDOH), invites interested citizens to attend a public meeting to discuss the proposed soil remediation for the Former Sylvania Electric Products Facility site located at 70, 100, & 140 Cantiague Rock Road in Hicksville. This fact sheet is also intended to notify the public of the availability of the Soil Remediation Program Work Plan, March 2002 and about a 30-day public comment period on the proposed remedy for the soil contamination.

Public Meeting: April 9, 2002, 7:00 PM

Meeting Location:

Burns Avenue Elementary School
Burns Avenue, Hicksville, NY
(From Cantiague Park, go ½ mile east on West John Street, turn left on Burns Avenue.)

Document Repositories:

- 1) Hicksville Public Library
169 Jerusalem Avenue
Hicksville, NY
Phone: (516) 931-1417
Hours: Mon - Thurs 9 AM - 9 PM, Fri 9 AM - 7 PM,
Sat 9 AM - 5 PM, Sun 1 PM - 5 PM
- 2) NYS Department of Environmental Conservation
Region 1 Office, SUNY Campus
Loop Road, Building 40
Stony Brook, NY 11790-2356
Phone: (631) 444-0244
Hours: Monday - Friday, 8:30 AM - 4:45 PM

Public Comment Period: March 27 - April 27, 2002

For Additional Information:

- 1) Robert Stewart, NYSDEC, Region 1 Office
SUNY Campus, Loop Road, Bldg. 40
Stony Brook, NY 11790-2356
Phone: (631) 444-0244
- 2) For Radiation Issues:
Barbara Youngberg, NYSDEC, Central Office
625 Broadway - 8th Floor
Albany, NY 12233-7355
Phone: (518) 402-8579
- 3) For Citizen Participation Issues:
Mark Lowery, NYSDEC - Region 1 Office
SUNY Campus, Loop Road, Bldg. 40
Stony Brook, NY 11790-2356
Phone: (631) 444-0350
- 4) For Health Related Issues:
William Gilday, NYSDOH
547 River St. - Room 300
Troy, NY 12180-2216
Phone: (800) 458-1158 ext. 27880

INTRODUCTION

This fact sheet is part of the continuing efforts of the New York State Department of Environmental Conservation to keep the public aware of the latest developments occurring at the Former Sylvania Electric Products Facility (FSEPF) site located at 70, 100, and 140 Cantiague Rock Road in Hicksville. This is a follow up to the previous fact sheets dated May 2001 and October 2001.

This particular fact sheet is intended to notify the public of a public meeting to discuss the proposed soil remediation for this site, as presented in more detail in the Draft Soil Remediation Program Work Plan, March 2002. Due to time limitations, the agencies involved in the review of this project have not yet completed their review of the March, 2002 version of the work plan.

This fact sheet is also intended to notify the public of a 30-day public comment period on the proposed soil cleanup alternative, which is excavation and off-site disposal of all impacted soils with levels of contamination above the proposed cleanup objectives.

The volunteer for this site, GTE Operations Support Incorporated (GTEOSI), is the corporate successor to the former owners of the facilities which operated the FSEPF site in the 1950s and 1960s. In an April 1999 voluntary cleanup agreement and in a new, more inclusive agreement, which is currently being processed by the Department, GTEOSI has agreed to investigate and remediate the site to allow unrestricted use of the site. In other words, after remediation, the site could eventually be used for any purpose.

The proposed remedy discussed in this fact sheet does not include the remediation of the groundwater contamination which may be attributable to this site. Groundwater cleanup options will be evaluated after the completion of the groundwater investigation.

SITE BACKGROUND

The site is located in the westernmost portion of Hicksville. Industrial and commercial properties are located directly west, north and south of the site. The golf driving range for Cantiague Park borders the site on the east. Figure 1 shows the site location.

The FSEPF site was primarily utilized for the manufacture of nuclear fuel elements for reactors used in research and electric power generation between 1952 and 1967. The radioactive elements uranium and thorium

were used to construct these fuel elements. Some of the fuel elements were coated with nickel to improve corrosion resistance. Process wastes, which included tetrachloroethene (PCE) and trichloroethene (TCE), were discharged to on-site recharge basins and leaching pools. PCE and TCE are common industrial solvents used for the degreasing of manufactured parts.

In 1966 and 1967, when fuel element manufacturing ended, the FSEPF site was partially remediated of the radiological contamination as part of the demolition of most of the site buildings. Also, buried drums and some contaminated soils were excavated in 1987 from the southernmost parcel.

The extent of the residual soil contamination was defined during the 1999/2000 voluntary investigation and the 2000/2001 supplemental voluntary investigation. The results of these investigations were discussed in more detail at the May 2001 public meeting and in the previous two fact sheets. The voluntary investigation and supplemental investigation reports are available at the public repositories listed on the cover page.

The primary contaminants are uranium, thorium, tetrachloroethene, trichloroethene and nickel. Most of the contamination is located in the eastern portion of the 140 Cantiague Rock Road parcel and in the south central portion of the 100 Cantiague Rock Road parcel. To a lesser extent, there is also some limited soil contamination in the eastern portion of the 100 Cantiague Rock Road parcel and in the northern portion of the 70 Cantiague Road parcel. Additionally, two small areas on the adjacent golf driving range, just outside the eastern site border, have minimally impacted soils. All of the soil contamination that exceeds proposed cleanup objectives is currently covered by asphalt or concrete. This surface cover is preventing direct human contact with the contaminated soils and shields site workers from exposure to radiative materials in the underlying soils. Under the current site conditions, no appreciable exposures have been identified for site workers or the general public based on the data obtained during the soil investigations.

PROPOSED SOIL REMEDIATION

The volunteer's proposed soil remediation consists of excavation of all the impacted soil with levels of contamination above the proposed cleanup goals for this site. These cleanup goals have been prepared to allow unrestricted future use of the site.

The planned extent of the initial soil removal has been

determined by numerous soil samples which were collected during the voluntary investigations. Please see the figure on the back page which illustrates the areas which are impacted. The excavation may be expanded based on the results of additional sampling from the sides and bottoms of the excavation. Field screening instruments, on-site analysis of soil samples, and analysis of soil samples at an approved off-site laboratory will all be used to establish the extent of the excavation necessary to remove the contamination.

One bay in the extreme eastern portion of the building at 140 Cantiague Rock Road will be altered to remediate impacted soil beneath the building.

Various forms of security measures will be employed on the site to ensure that workers, the general public and the environment are adequately protected during remedial activities. These protective measures will include security personnel as well as engineering controls to limit site access and routes of potential exposure.

All of the large areas proposed for excavation will be covered with a temporary enclosure to prevent dust and vapor migration. The air inside this structure will be treated, as necessary, to remove air contaminants. A community air monitoring plan will be used to monitor air emissions and prevent exposures to the public. Continuous monitoring for both chemical and radiological contaminants will be performed during all excavation activities. Both dusts and volatile organic vapors will be monitored.

At the completion of the excavation, a series of confirmation and verification sampling will be performed to ensure that the cleanup objectives have been met. The NYSDEC will split samples with the volunteer's consultants on some of the soil samples as a control on the validity of the closure sampling.

The impacted soils will be stored in special large bags. These bags will be stored at the site until a sufficient number (approximately 24) are ready for shipment in accordance with all applicable USDOT and NYSDEC regulations to an approved off-site treatment, storage and disposal facility in Utah. At this juncture, these bags will then be taken to a nearby railroad siding on the south side of West John Street, which is approximately 1/2 mile from the site. The bags will be immediately loaded on railroad cars. There will be no waste storage on the railroad siding.

A report will be prepared to document the soil removal. All waste disposal certificates for the soils will be

included in the report. The report will include the final extent of the excavation and the results of all the closure and verification sampling. When available, this report will be placed in the public repositories, and a fact sheet will be prepared to update the public.

The excavation has tentatively been scheduled to start in June 2002 and is expected to be completed by November 2002. A report on the soil remediation should be available in spring 2003.

CITIZEN PARTICIPATION

A public meeting to present the soil remediation program has been scheduled for April 9 starting at 7:00 P.M. at the Burns Avenue Elementary School, which is approximately 1/2 mile east of the site. A question and answer session will be held after the presentations to answer any questions. Further details on the public meeting location are on the front page.

The proposed soil removal will probably be the only remedy needed for the soil contamination portion of the site remediation. Post remediation testing will be used to evaluate the sufficiency of the on-site soil remedy. In the NYSDEC's voluntary cleanup program, public input on the proposed remedy for a site must be considered before final approval can be granted to the volunteer. A 30-day public comment period has been established for this site and advertised in the Environmental Notice Bulletin (ENB). This fact sheet has also been prepared and distributed to the public contact list for the site for the purpose of soliciting public comments on the proposed remedy. The proposed remedy may be changed to address relevant public comments. If comments or additional information are received which necessitate a change in the proposed remedy, another fact sheet will be prepared to report the changes which will be implemented.

The March 27 ENB Notice which has been prepared for this site can be viewed at the following website:
www.dec.state.ny.us/website/enb

The public comment period is:
March 27, 2002 to April 27, 2002

Please send written comments to:

Robert Stewart
NYS Dept of Environmental Conservation
SUNY Campus, Loop Road, Building 40
Stony Brook, NY 11790-2356

Verbal comments will also be accepted by Robert

Stewart, NYSDOH at the telephone number listed on the cover page. Comments can also be given verbally during the question and answer period at the April 9 public meeting. Staff are also available to answer any questions you may have about this site. A list of contacts and their telephone numbers has been placed on the front page.

The NYSDEC will continue to update the public about the latest developments at this site by the distribution of fact sheets to the public contact list. As the reports and work plans for this site become available, they will be added to the two public repositories.

ADDITIONAL DEVELOPMENTS:

Groundwater Investigation for FSEPF

The underlying groundwater at the former Sylvania facility is impacted with tetrachloroethene (PCE) and, to a lesser extent, with trichloroethene. The extent of this groundwater contamination has not been determined yet. An off-site PCE groundwater plume is present downgradient of the site as demonstrated by groundwater data collected for a listed class 2 inactive hazardous waste disposal site (General Instruments) which is immediately adjacent on the downgradient, south side of the FSEPF site. The chlorinated solvent plumes from each site apparently commingle to some degree. The exact contribution from each site to this groundwater plume has not been established yet. The underlying groundwater at the FSEPF site is also impacted with nickel and radiological contamination, but this portion of the groundwater contamination appears to be localized and probably does not extend beyond the boundaries of the site.

The results of the supplemental groundwater investigation were discussed in more detail in the October 2001 fact sheet. The following reports related to this effort have now been finalized and placed in the public document repositories:

- 1) Monitoring Well Installation and Ground Water Investigation Report, February 2002
- 2) August 2001 Ground Water Sampling Report, September, 2001
- 3) Data Validation Report, October 2001

Another supplemental groundwater investigation is planned for this summer to further investigate the on-site and off-site groundwater contamination. A supplemental groundwater investigation work plan should be available by June, 2002. This work plan will be placed into the document repositories, when available. When appropriate, another fact sheet will be prepared to discuss

groundwater issues.

Groundwater Investigation for the Adjacent General Instruments Site

A supplemental groundwater investigation is also planned for this summer at the adjacent General Instruments (GI) site. Sample results for the GI investigation are expected to help clarify the relative contribution from the GI and FSEPF sites to the chlorinated solvent plume.

As an interim remedial measure (IRM), a groundwater treatment system to treat a portion of the off-site groundwater contamination is expected to be installed this summer. This IRM can be designed using the existing sampling data and will provide timely remediation for the known portion of the off-site groundwater contamination which is attributable to the GI site. The treatment system is currently proposed for installation at a location west of Charlotte Street and just north of the east-west railroad tracks which are south of West John Street. Based on the results of the supplemental groundwater investigation, the groundwater treatment system may be expanded later.

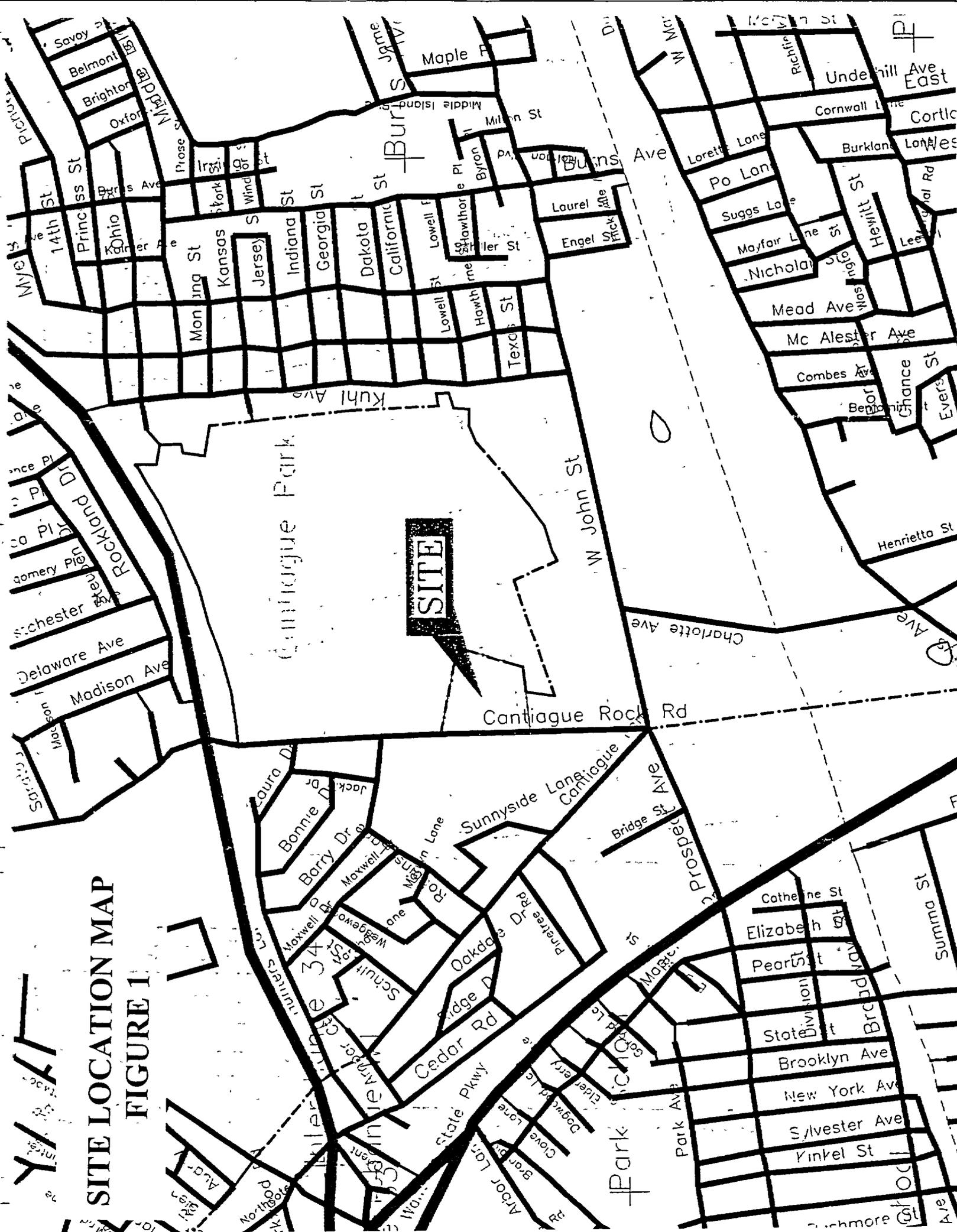
The chosen groundwater treatment alternative for the IRM is in-situ chemical oxidation via ozone sparging. Micro bubbles, consisting of a mixture of air and ozone, are injected into the contaminated groundwater. The ozone reacts with dissolved organic contaminants to break them down into harmless by-products.

The public will be made aware of these developments by citizen participation activities for the GI site.

All public water supply wells in the vicinity of these sites are routinely monitored and treated, if necessary, to ensure that drinking water distributed to the public meets federal, state and county requirements.

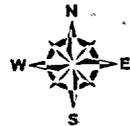
Supplemental Soil Sampling on the Golf Driving Range for Cantiague Park:

At the request of the NYSDOH, additional surface soil samples were collected on the adjacent golf driving range located immediately east of the site. On November 7, 2001, ten samples were collected at evenly spaced intervals through the driving range to evaluate the entire range. One background sample was collected. All detections were below proposed cleanup objectives. A copy of the November, 2001 soil sampling results has been placed in the document repositories.

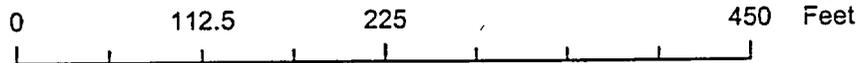
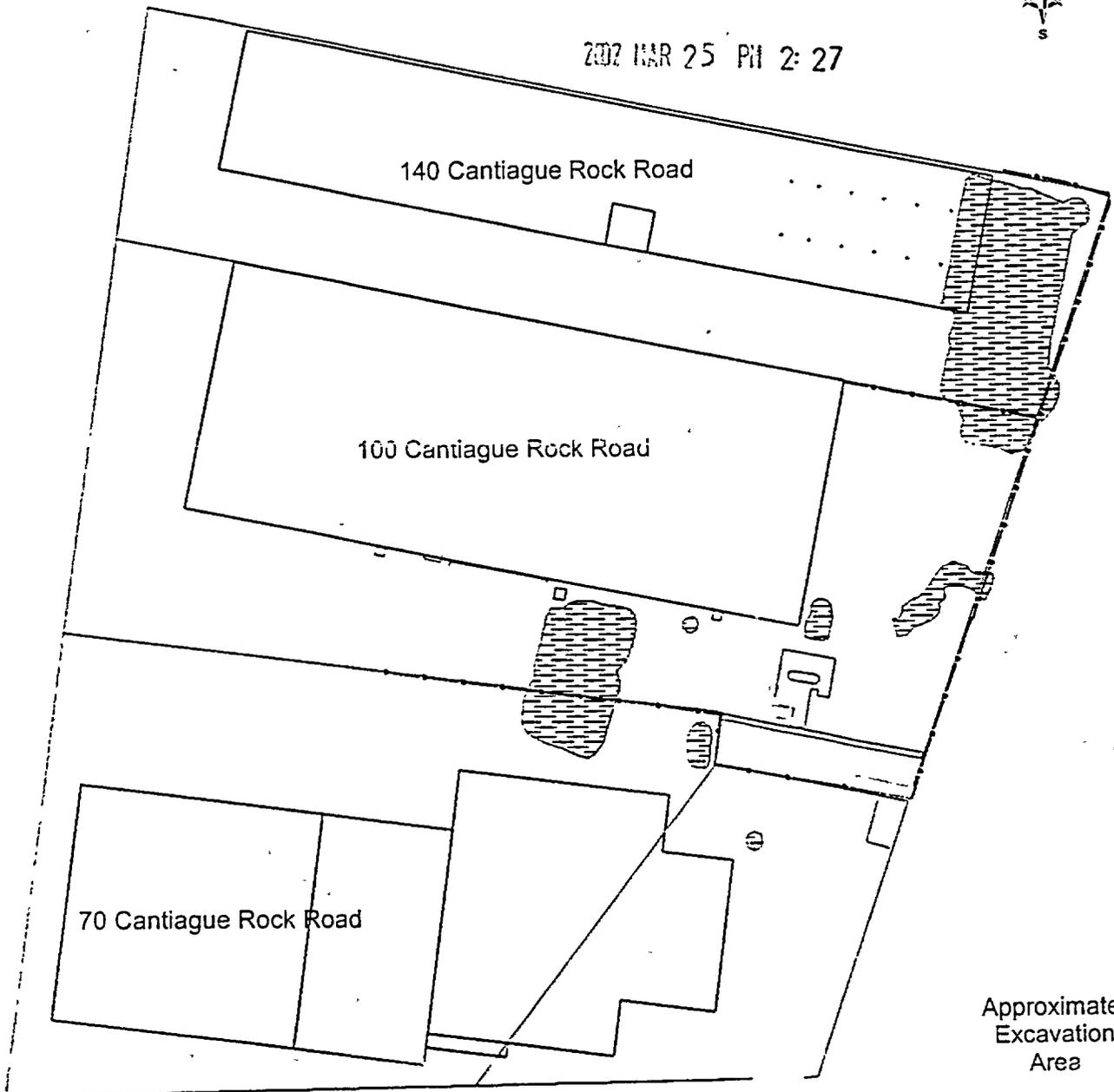


SITE LOCATION MAP
FIGURE 1

RECEIVED
REGION 1



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GTE OPERATIONS SUPPORT INCORPORATED
HICKSVILLE, NEW YORK

APPROXIMATE SOIL
EXCAVATION AREAS

DATE 03/19/02
JOB NO 27010-039 007
SCALE AS SHOWN

URS
1701 GOLF ROAD SUITE 1000
ROLLING MEADOWS ILLINOIS 60008-4227
PHONE 847 228 0707
FAX 847 228 1115