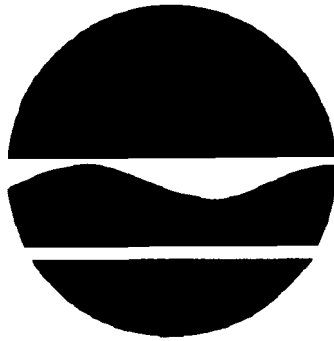


SUMMARY REPORT ON  
NEW CASSEL INDUSTRIAL AREA

Site ID #130043

February 22, 1995



Prepared by:

New York State  
Department of Environmental Conservation  
Division of Hazardous Waste Remediation  
Bureau of Hazardous Site Control  
50 Wolf Road, Albany, New York 12233-7010  
Langdon Marsh, *Commissioner*

## BACKGROUND

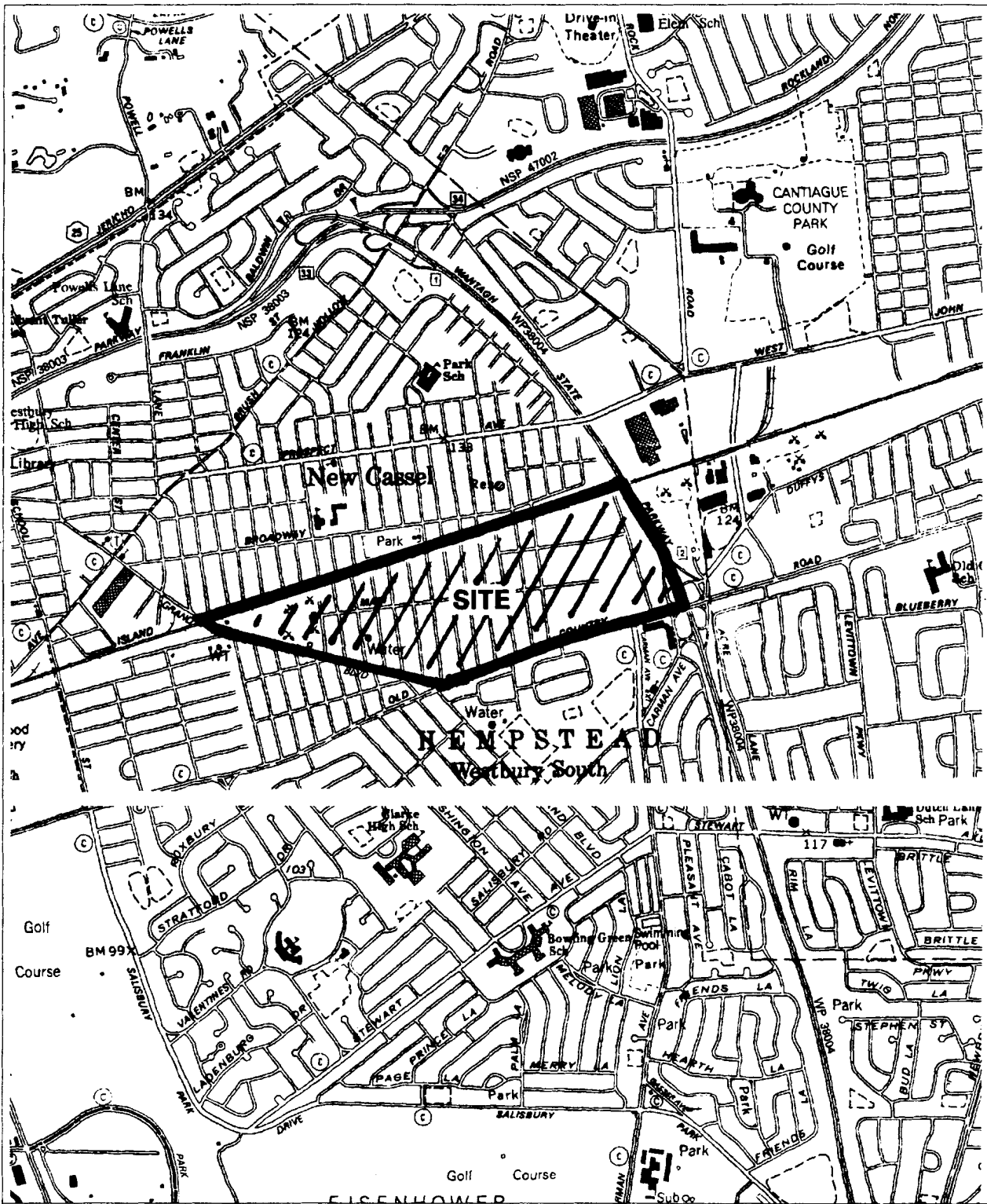
The New Cassel Industrial Area (NCIA) was first recognized as an area with a groundwater contamination problem in 1986 as a result of an investigation conducted by the Nassau County Department of Health (NCDOH). The purpose of this initial investigation was to identify areas having groundwater contaminated with synthetic organic chemicals. Due to the nature of the chemicals found in previous NCDOH investigations, several industrial parks were targeted for sampling, NCIA being one of them. The NCIA is located in Nassau County at the southeast corner of the Town of North Hempstead (see Site Location Map). It is bounded by Old Country Road on the south, the Long Island Railroad on the north, the Wantagh State Parkway on the east, and Grand Boulevard on the west (see Site Boundaries map).

As part of the investigation, 35 groundwater monitoring wells were installed and sampled for volatile organic compounds (VOCs) between 1984 and 1986. The results showed 17 of the 35 wells exceeded New York State standards for VOCs in groundwater, with total VOC concentrations ranging from 2 to 9,800 parts per billion (ppb). The principal contaminants found were tetrachloroethylene (PCE), trichloroethylene (TCE), 1,2 dichloroethylene (DCE), and 1,1,1 trichloroethane (TCA). Based on these findings, the NCDOH recommended the NCIA for listing in the New York State Registry of Inactive Hazardous Waste Disposal Sites (Registry). The site was listed in the Registry as a Class 2 site in August of 1988. (A classification of 2 indicates that the site poses a significant threat to the public health or the environment, and action to remediate the site is required.)

Unfortunately, due to the complexity of the industrial area, the information provided by the NCDOH investigation could not identify the sources of the groundwater contamination. There are many active and inactive industries in the area that use or have used the chemicals of concern (VOCs), so pinpointing the **sources** would require a more in-depth search. The sources of contamination need to be identified in order to pursue the responsible parties for cost recovery, determine the extent of contamination, select the proper permanent remedy, and undertake remediation. In order for this to be accomplished, the New York State Department of Environmental Conservation (NYSDEC) reopened the investigation to identify the sources of contamination from past or present operations in the NCIA. In the meantime, *in order to ensure that the public water entering the resident's homes meets all Federal, State, and local drinking water standards, the Westbury Water District and NCDOH are closely monitoring the drinking water.* It should be noted that any groundwater found to be unsafe is not utilized for public consumption.

## INVESTIGATION

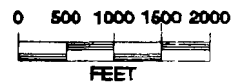
NYSDEC assigned this investigation to Lawler, Matusky and Skelly Engineers (LMS), one of the State's Standby Consultants, in 1992 at an estimated cost of \$447,000. In order to prepare for the large sampling effort required, LMS first collected and reviewed existing data and information from NYSDEC, Nassau County and the NYSDOH. This information consisted of ownership records, past/present site uses and operations, chemical usage/disposal practices, violations of permits, spills or leaks of chemicals, previous sampling data and information from other investigations, and any



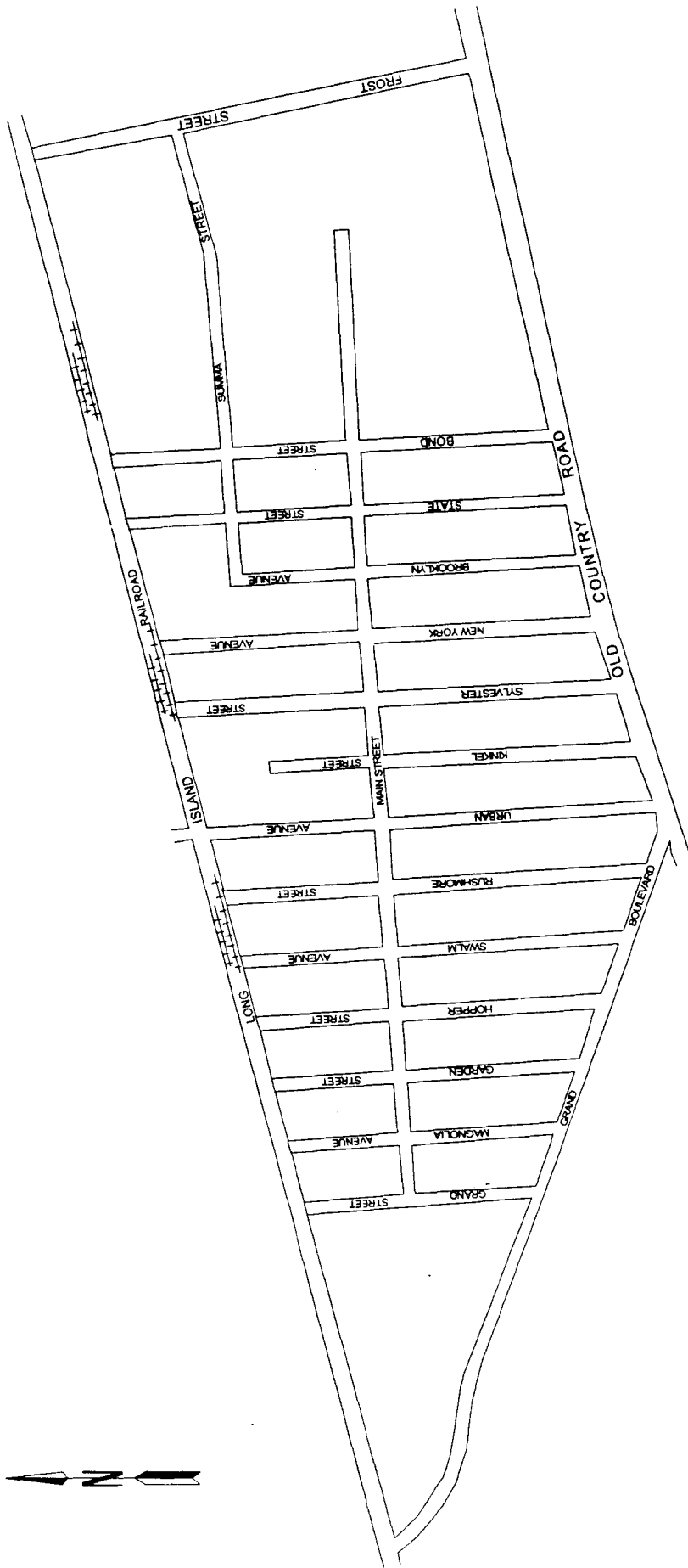
## Site Location Map

130043 New Cassel Industrial Area

NYSDOT Planimetric Quadrangle(s):  
HICKSVILLE, FREEPORT



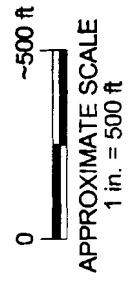
Scale 1:24,000  
December 15, 1994



# **SITE BOUNDARIES**

NEW CASSEL INDUSTRIAL AREA  
 NYSDEC I.D. No. 130043

LAWLER, MATUSKY & SKELLY ENGINEERS  
 Pearl River, New York

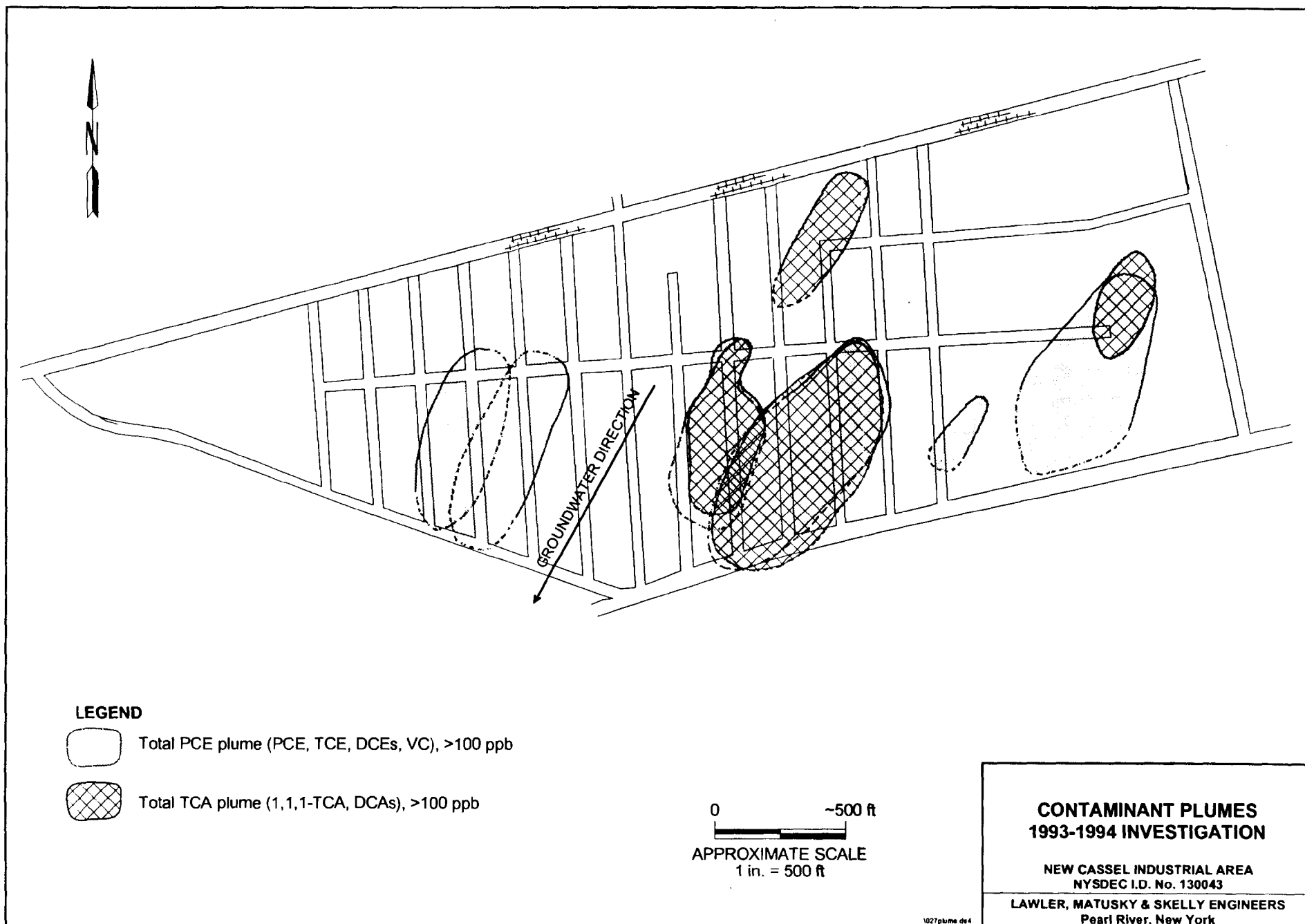


other information that would help determine the areas that required sampling. Once this task was completed, LMS then sampled 56 existing groundwater monitoring wells in the industrial area to get updated groundwater information (ie. contaminants of concern and their approximate location beneath the site, groundwater flow direction and elevation, etc.). This was completed in August /September 1993. During November 1993, LMS installed 41 probes to collect soil and groundwater samples at locations where monitoring wells were not already present in order to get a better picture of the groundwater contamination. Preliminary results from these rounds of sampling indicated that there were several plumes of contaminated groundwater emanating from different locations at the industrial park, and that two contaminants (with their associated break-down products) were of primary concern: PCE and TCA. After evaluating the sampling results, and in consultation with NYSDEC, LMS installed an additional 85 groundwater probes and conducted 32 facility inspections during June-August 1994. This was done to more fully delineate the plume locations, and to identify the sources of the contamination and Potentially Responsible Parties (PRPs). The data from all the rounds of sampling was compiled and placed on maps to show their location. The maps indicated that there are seven distinct plumes at this site, containing PCE and its associated breakdown products, TCA and its associated breakdown products, or both (see Contaminant Plumes map). A draft report documenting the entire investigation and presenting the study's findings was completed in October 1994 by LMS, and was reviewed by the NYSDEC, NYS Department of Health, and NCDOH. After making some minor revisions, the final report was submitted to DEC in February 1995.

The findings of the report indicate that there will be seven sites proposed for listing in the Registry \*\*:

| Site ID # | Site Name           | Address  | Classification |
|-----------|---------------------|--|----------------|
| 130043A   | IMC Magnetics       | 570 Main Street  | 2              |
| 130043B   | Atlas Graphics      | 567 Main Street  | 2              |
| 130043C   | Tishcon Corporation | 125 State Street   | 2              |
| 130043D   | Arkwin Industries   | 66 Brooklyn Avenue,<br>648-656, 662-670<br>Main Street   | 2              |
| 130043E   | Tishcon Corporation | 31-33 Brooklyn<br>Avenue, 29 and 30-<br>36 New York Ave. | 2              |
| 130043F   | Former Tishcon Corp | 68 Kinkel Street   | 2              |
| 130043G   | Metpar Steel        | 95, 97, 99 State St.                                     | 2              |

\*\* In addition to the above, there are 4 other potential areas of contamination that require more work before a determination can be made as to whether hazardous waste disposal has occurred.



## **NEXT STEP**

The Site Investigation report for the NCIA is finalized and ready for public release. A public meeting will be held to provide residents and other interested parties a chance to ask questions about the investigation, and to provide the public a concise description of the study conducted by NYSDEC. The source areas will be listed individually in the Registry, suspected areas will be investigated further, and both source areas and contaminated groundwater will be considered for remediation. All property not specifically listed on the Registry as a source area will be delisted from the Registry.

## **ADDITIONAL INFORMATION**

For additional information regarding the NCIA Site Investigation, please contact:

David Harrington  
Project Manager, NYSDEC  
50 Wolf Road, Room 220  
Albany, NY 12233-7010  
(518) 457-0639

For information on the public meeting and other upcoming activities, please contact:

Joshua Epstein, Ph.D.  
Citizen Participation Specialist, NYSDEC  
Region 1, SUNY-Stony Brook  
Loop Road, Bldg. 40  
Stony Brook, NY 11790-2356  
(516) 444-0249

For information on health-related issues, please contact:

Maureen Schuck  
NYS Department of Health  
Bureau of Environmental Exposure Investigation  
2 University Place, Room 205  
Albany, NY 12203-3313  
(518) 458-6305  
(800) 458-1158

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