

NEW YORK STATE SUPERFUND CONTRACT

SITE INVESTIGATION REPORT

New Cassel Industrial Area Site
North Hempstead, Nassau County

Site No. 130043

Work Assignment No. D002676-2.2

DATE: February 1995



Prepared for:

**New York State
Department of
Environmental Conservation**

50 Wolf Road, Albany, New York 12233
Langdon Marsh, Commissioner

Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., P.E., Director

By:
Lawler, Matusky & Skelly Engineers

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FINAL

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50 Wolf Road
Albany, New York 12233**



February 1995



Prepared By:

**LAWLER, MATUSKY & SKELLY ENGINEERS
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, New York 10965**

File No. 650-028

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CHAPTER 1

EXECUTIVE SUMMARY

The New Cassel Industrial Area (NCIA) is located in the unincorporated village of Westbury, in the Town of North Hempstead, Nassau County, New York. Approximately 200 industrial or commercial businesses occupy this 170-acre site. The Nassau County Department of Health (NCDOH), in conjunction with a private consulting firm, conducted a subsurface investigation of the NCIA in 1985 to evaluate groundwater quality in the vicinity of this and several other sites in the county found to possess groundwater contamination problems. The investigation identified fairly extensive halogenated volatile organic contamination of groundwater beneath the site, and recommended further study. NCDOH also petitioned the New York State Department of Environmental Conservation (NYSDEC) to classify the site as a hazardous waste site, which it did (Class 2) in 1988.

Subsequently, numerous owners of property within the site have petitioned NYSDEC to isolate and remove their properties from the Class 2 list. NYSDEC has delisted many of the properties for which it received delist petitions with the qualification that if the pending site investigation showed these properties to be the source of the contamination, they would be relisted.

Lawler, Matusky & Skelly Engineers (LMS) was contracted by NYSDEC to conduct a site investigation for the NCIA. This report presents the findings of this investigation. Task 1 consisted of a file review of information pertinent to the site from various town, county, and state agencies. During Task 2 a comprehensive database summarizing the information gathered in Task 1 was compiled. During Task 3 groundwater samples were collected for analysis from 56 monitoring wells already located at the site. Samples collected from 40 groundwater probes located strategically throughout the site were analyzed in Task 4. The Geoprobe locations were sampled from multiple depths to provide vertical contaminant distribution information. This task also included preparation of a draft report presenting the results of Tasks 1 through 4 along with LMS' recommendations for additional work. Task 5 consisted of a second phase of groundwater probes and suspected source area sampling along with selected facility inspections. Tasks 6 and 7 constitute preparation of this report and additional file investigations.

The data generated from the sampling have been analyzed and used to generate contaminant plume maps. Several groundwater volatile organic compound (VOC) contaminant plumes were delineated during the assessment, and the properties potentially contributing to these plumes have been identified. The contaminant plume distributions have been analyzed with respect to

current and previous property usage for the entire site, incorporating chemical use and spill information gathered from extensive file review.

The investigation has identified several areas exhibiting significant groundwater contamination within the NCIA. The bulk of the contamination is centered in three areas within the site: one in each of the western, central, and eastern sections. In each of these contaminated areas separate plumes based on the contaminants, concentrations, and sources can be subdivided. LMS has detected two plumes in the western section, three in the central section, and two in the eastern section. Beyond these plume areas, the remaining area of the NCIA appears to be relatively uncontaminated.

Following the objectives stated in Chapter 2, LMS recommends that the NCIA site be removed from the Registry of Inactive Hazardous Waste Sites and that individual sites with documented hazardous waste disposal be added to the registry. Other sites are recommended as suspected hazardous waste sites because the data suggest that they are potentially adding to the measured contaminant plumes but hazardous waste disposal has yet to be documented. The delisting of the whole site would delist or remove all sites in the NCIA that had no hazardous waste disposal and no significant groundwater contaminants. The tax blocks are listed in Chapter 7 by section.

LMS recommends that the following sites be restored to the registry. The documentation and data supporting these recommendations are presented in Chapter 7.

Western Section

- **Castle Collision** (IMC Magnetics), 570 Main Street (Tax Block 73, lots 1-12, 63-75)
- **Atlas Graphics**, 567 Main Street (Tax Block 164, lot 66)

Central Section

- **Tishcon Corporation**, 125 State Street (Tax Block 181, lot 84)
- **Arkwin Industries**, 648-656 Main Street (Tax Block 78, lots 1-8), 662-670 Main Street (Tax Block 79, lots 1-8), 66 Brooklyn Avenue (Tax Block 79, lots 266-270)
- **Tishcon Corporation**, 30-36 New York Avenue (Tax Block 78, lots 78, 19-21), 31-33 Brooklyn Avenue (Tax Block 79, lots 79 and 56-58), 29 New York Avenue (Tax Block 77, lots 47-50)

- **Industrial Mets** (Tishcon), 68 Kinkel Street (Tax Block 76, lots 9-12)
- **Metpar Steel Products**, 95 and 97-99 State Street (Tax Block 161, lots 41, 42, and 5-8)

It is recommended that the following sites be considered suspected hazardous waste sites. They will require additional investigation to determine whether hazardous waste was disposed of on-site and impacted the groundwater:

Western Section

- **Flexitherm Corporation**, 110 Hopper Street (Tax Block 145, lots 31-37)
- **IET Labs**, 534 Main street (Tax Block 71, lots 1-4)
- **Al's Tool and Die**, 542 Main Street (Tax Block 71, lots 5-8)
- **Harmon Associates**, 86 Garden Street (Tax Block 71, lots 16-17)
- **Bilt-Rite Steel-Buck**, 95 Hopper Street (Tax Block 71, lots 9-15 and 50-58), and **Bilt Rite Elevator**, 90 Hopper Street (Tax Block 72, lots 14-17 and 59-62)

Central Section

- **Glassblock Warehouse**, 38 Kinkel Street (Tax Block 76, lots 22-29)
- **Micro-Ray Corporation**, 49 Sylvester Street (Tax Block 76, lots 66-68)
- **Doak Dermatologies**, 62 Kinkel Street and 67 Sylvester Street (Tax Block 76, lots 13-15 and 69-72)
- **Arkwin Industries**, 33 Sylvester Street (Tax Block 76, lots 57-65)

Eastern Section

- **Nationwide Paint** (?¹), 750 Main Street (Tax Block 328, lot 178)
- **Eastern Main Street**
- **Utility Manufacturing Company**, 700 Main Street (Tax Block 320, lot 176), list as 2a
- **Former Wonder King Chemical**, 710-712 Main Street (Tax Block 328, lot 188), list as 2a

¹Reported former use of this address; the exact name, however, could not be verified.

CHAPTER 2

OBJECTIVES

The overall objectives of the site investigation at the New Cassel Industrial Area were to:

- **Delineate the contaminant plumes under the site.** It has been documented that the groundwater under the site is contaminated with VOCs; however, whether there were a number of plumes, whether the plumes were connected, and/or whether there were areas with no contamination was not known.
- **Locate the source of the contaminants.** The whole site was listed as a Class 2 site, meaning that all of the property owners were potentially responsible parties (PRPs), even though many site operations may never have released any contaminants. The purpose of this investigation was to document the use, release, or spillage of contaminants and as best as possible correlate the resultant contamination with delineated plumes, i.e., find the most likely PRPs.
- **Redefine the site according to measured contamination.** The investigation and remediation of a 170-acre site with 200 PRPs is difficult. Results of the site investigation narrowed the site to measured and documented plumes with known or recorded sources. Sites documented as plume sources can remain on the Registry of Inactive Hazardous Waste Sites, and be scheduled for remedial investigations and feasibility studies (RI/FS) and/or remedial measures. The uncontaminated areas of NCIA can be delisted.

CHAPTER 3

FILE REVIEW AND COMPILATION

3.1 TASK 1 - AGENCY SEARCH/FILE PROCUREMENT

Various town, county, and state offices were visited to gain access to files concerning the history of the site. The Town of North Hempstead Tax Assessor's Office was visited to gather tax block and lot information for each property within the site. All files pertinent to spills and/or fires at the site were copied from the office of the town fire marshal. All files pertinent to the site were also copied from the Nassau County Department of Health. The NCDOH files included the hazardous waste, spills, Article XI, State Pollutant Discharge Elimination System (SPDES), and industrial chemical survey files. In addition, the following databases were reviewed: chemical waste storage locations, air pollution source management system, current application data list, emission point selection, and facility process emissions. The annual Cole's directories for Nassau County dating back to 1971 were reviewed at the Nassau Public Library and the pertinent sections were copied. Water usage records for many of the properties at the site were obtained from the Westbury Water District. Sewerage records were obtained from the Town of North Hempstead Department of Public Works.

3.2 TASK 2 - DATABASE COMPILATION

The file material gathered during Task 1 was reviewed and summarized in a comprehensive database created using the commercial spreadsheet software program Excel (Version 4.0) for Windows. For convenience, separate spreadsheets were created for each of the three sections of the site, i.e., the western, central, and eastern portions. The spreadsheets contain tax section, block, and lot numbers for each property in the respective section; the address of each property; the business name of the current occupant (verified via current telephone book business listings); the wastewater discharge history for each property if available; the business names of previous occupants at each address from the present back to 1971; spills recorded for each site; summaries of sample analyses performed at each site; summaries of NCDOH chemical storage/waste inventories for all properties for which the office held records; and a contaminant source potential ranking (high, medium, or low). This last category was not obtained from the files procured during Task 1, but through analysis of the information contained in the other categories. The spreadsheets are presented at the back of this report as Appendix A. ●

CHAPTER 4

FIELD INVESTIGATION

4.1 TASK 3 - MONITORING WELL SAMPLING

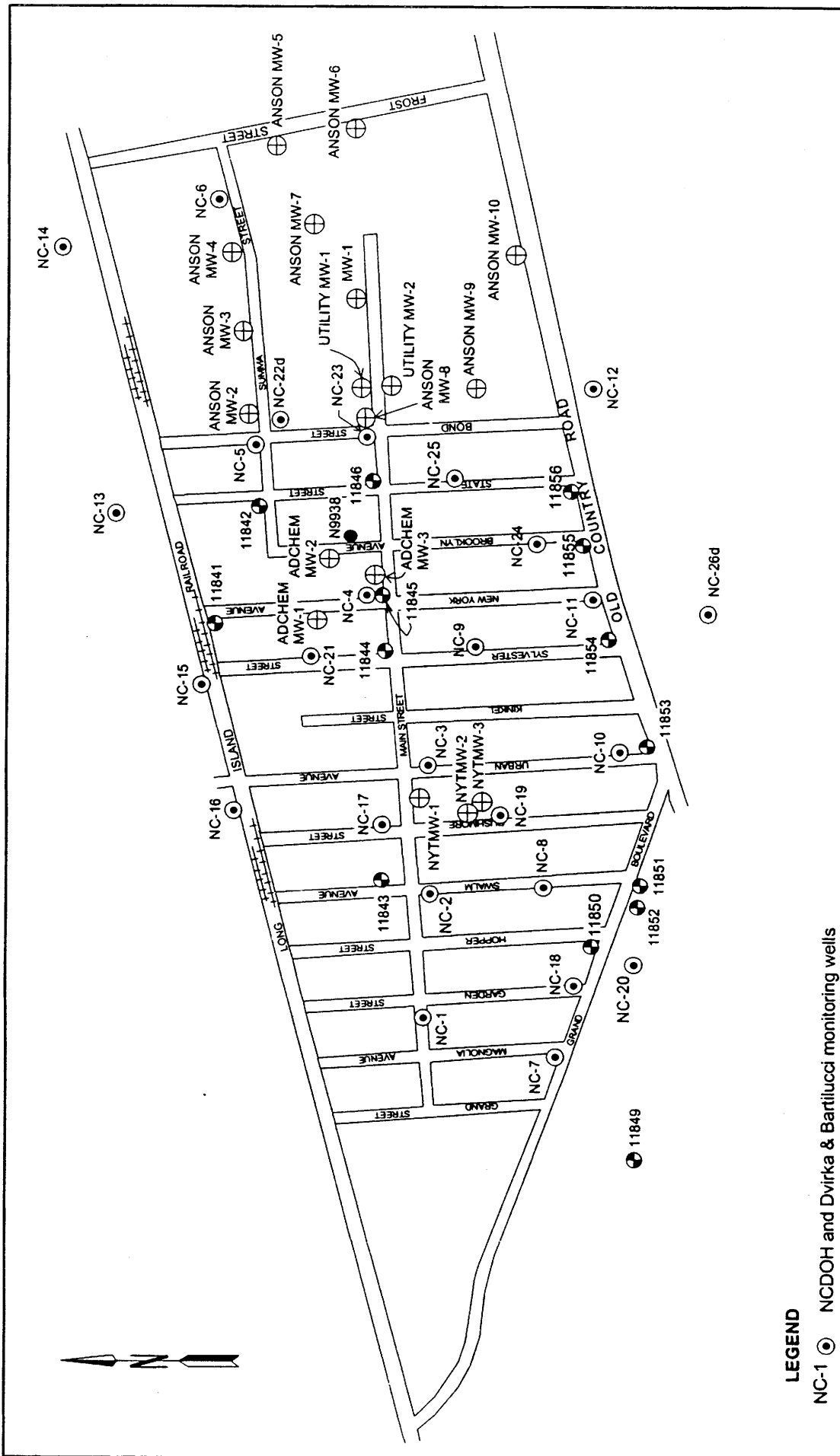
4.1.1 Sampling Procedures

LMS sampled 56 monitoring wells in the New Cassel Industrial Area between 24 August and 7 September 1993. The well locations are shown on Figure 4-1. The work scope estimated that approximately 70 wells would be sampled during the survey; some wells were inaccessible or could not be located, however, so samples could not be collected. Specifically, three wells were inaccessible (NC-2S and -2D, N-7732), six wells were not found (ANSON MW-1, HARCO MW-1, and N-11853, -11856, -8472, -11857), and four wells were not sampled for various technical reasons (ANSON MW-5 and -9, E-Z-EM MW-1, HARCO MW-2).

NC-2S and -2D, located on the southwest corner of Swalm and Main streets, were located beneath several stacks of junked automobiles apparently stored by the adjacent property owner. N-7732, owned by Autronic Plastics Inc. (18 Sylvester Street), is an out-of-service production well in which the piping is still in place, making it impossible to lower a pump or bailer to the water table. The pump has reportedly not been used in a number of years. The electricity has been disconnected.

N-11853, -11856, and -11857 were not found at the locations indicated on the sketches provided to LMS by the U.S. Geological Survey (USGS). The general areas indicated were scanned with a Schonstedt magnetic locator, but the wells could not be found. N-8472 was reportedly owned by a company called Advanced Food Service Products Inc., formerly located at 776 Summa Avenue. File review and field reconnaissance failed to locate this well.

ANSON MW-5 was in poor condition; the well screen is apparently broken. Attempts to purge the well with a 2-in. submersible pump prior to sampling were unsuccessful due to excessive sand entering the pump. During a subsequent attempt, using a 4-in. submersible pump, the pump became stuck in the well, probably caught on a portion of the broken screen. Attempts to remove the pump at the time were unsuccessful, and the well was not sampled. An obstruction in the lower 7 ft of ANSON MW-9 prevented the submersible pump or bailer from being lowered past that point. The well had a very low yield. After the upper 10 ft of the water column was bailed for 1 hr, only 4 gal of water was removed. Since the purge estimate was 62 gal, it was impractical to continue purging, and the well was not sampled.



LEGEND

- NC-1 ● NCDOH and Dvirka & Bartilucci monitoring wells
- 11849 ● USGS monitoring wells
- N9938 ● NCDPW monitoring well
- ⊕ Privately owned monitoring wells

FIGURE 4-1

MONITORING WELLS SAMPLED
24 August - 7 September 1993

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

LAWLER, MATUSKY & SKELLY ENGINEERS
 Pearl River, New York

1024WELLS.dwg
 16 January 1995

E-Z-EM MW-1 was located 10 ft north of UTILITY MW-1, in the front parking lot, and was approximately the same depth. Since the latter had already been sampled, E-Z-EM MW-1 was not sampled. HARCO MW-2 was 10 ft northwest of NC-1 and was dry. HARCO MW-1 was not located.

In general, the wells had low to medium yields, generally less than 2 gal per minute. Purged water was typically tan in color due to suspended silt. Most wells seemed to have quite a bit of silt on the bottom. No attempts were made to remove the silt through pumping as it tends to jam the 2-in. submersible pumps. The pump was typically positioned a few feet above the silt. The static water level indicator sensor was attached to the tubing immediately above the pump so the operator would know to slow the pumping rate if the pumping water level drew down too close to the pump.

As the survey proceeded, it was decided to purge two wells simultaneously when practical, in the interests of time. Typically, one well was purged with a submersible pump while another was purged with a PVC bailer. PVC bailers were field decontaminated using a detergent (Liquinox) solution, followed by a potable water rinse. This was followed by a methanol rinse, a deionized water rinse, a 10% nitric acid rinse, and a final deionized water rinse. The bailers were allowed to air-dry, then placed in plastic bags until the next use.

The submersible pumps were decontaminated upon arrival at the site and after use in each well by submerging the pump first in 5 gal of potable water containerized in a capped section of 6-in. PVC tubing. After the pump discharged this water to the ground, it was submerged in a similar container filled with 5 gal of deionized water that was also discharged to the ground. One container was dedicated to potable water rinsing, the other to deionized water rinsing of the pumps.

Polyethylene tubing was used to convey purge water from the pump to the surface. A new 12-ft section was attached to the pump at each well. Purge water was thus conveyed a few feet above the water table through this section of tubing, which was coupled to a 50-ft piece of tubing. The same 50-ft piece was used throughout the day to convey water from above the water table to the surface, then discarded at the end of the day.

Purge water remaining in the tubing after pump shutdown was prevented from reentering the well by a one-way check-valve located at the top of the pump. In this manner cross-contamination of monitoring wells was avoided. Also, as required by the provisions of the work plan, the tubing was replaced entirely after every sixth well sampled.

The static water level indicator was fully decontaminated between uses at each well by cleaning with methanol and then with deionized water. The nylon bailer and/or the sampling bailer was discarded after use at each well.

Purge water was collected at each well and placed in a 500-gal polyethylene tank mounted on a utility truck. At the end of each day the purge water was discharged to the area's industrial sewer by arrangement with the Nassau County Department of Public Works (NCDPW). The amount typically discharged each day was approximately 200 gal.

Samples were collected using disposable Teflon bailers lowered to the approximate mid-depth of each water column. Three 40-ml vials were filled for each sample. One field blank was collected during the survey by pouring deionized water through one of the disposable Teflon bailers and collecting the water in the appropriate sample containers. Seven trip blanks were submitted over the course of the survey. The samples were submitted under chain-of-custody protocol to Industrial and Environmental Analysts, Inc. (IEA), of Monroe, Connecticut.

4.1.2 Static Water Level Measurements

Two rounds of static water level measurements were recorded during the field investigation: one set at the start of the monitoring well survey (23 August 1993), the other near the end of the Geoprobe survey (8-9 November 1993). The first round recorded water levels from 36 monitoring wells located throughout the site. The second round recorded water levels from 19 wells, selected based on their fairly even spatial distribution. Duplicate readings were recorded for a few wells during the second round to confirm that excessive fluctuation of the water table had not occurred over the two-day period (Table 4-1). The water table contour is shown in Figure 4-2.

The water table as measured at ANSON MW-9, in the southeast quadrant of the site, was anomalously high during both rounds. It was determined during the Geoprobe survey that groundwater is perched on a clayey silt deposit that underlies this area, first encountered at a depth of 45 ft in GP-1 (located 50 ft west of ANSON MW-9). This unit persisted to a depth of approximately 60 ft, then graded downward to a fine sand by 70 ft. As such, the unit is at least 15 ft thick; no soil samples were retrieved from above the 45-47 ft interval.

No such perched water conditions were observed for the rest of the site. The water table slopes gently to the southwest at a gradient of 0.0015. Water table elevations were approximately 1 ft lower in November compared to those measured in August.



Michael D. Zagata
Commissioner

MEMORANDUM

TO: All Employees on Time & Attendance
FROM: Mary E. Kelly, Fiscal Management
SUBJECT: Year End Adjustments to Time & Activity Record and Maximum Vacation Accruals
DATE: November 14, 1995

Employees are to make the following year end adjustment(s) to their time and activity records for the period ending December 13, 1995 as follows:

Vacation - All Bargaining Units

If you regularly earn 11:30* add an additional 30 minutes for year end adjustment.

If you regularly earn 12:00* add an additional 4 hours for year end adjustment.

If you regularly earn 7:30 or 8:00 there is no adjustment.

Sick Leave - PS&T - Only employees Hired On or After 4/1/82

If you regularly earn 5:30* add an additional 3:30 for year end adjustment.

*If you are currently part-time, please call the Time Records Unit (457-5586) for correct adjustment(s) to be added.

Reminder for Maximum Vacation Accruals

CSEA Units - cannot exceed the 40 day maximum unless a written denial is attached to the time record. Employees with a written denial must be at 40 days* or less by 3/31/96 COB.

PS&T - must be at 40 days* or less by 3/31/96 COB.

MC - must be at 40 days* or less by 12/31/95 COB.

Security & Security Supervisors - cannot exceed the 40 days maximum unless a written denial is attached to the time record. Employees with a written denial must be at 40 days* or less by 9/30/96 COB.

*If an employee is part-time the 40 day maximum when converted into hours is pro-rated, for example:

Full-Time = 40 days @ 7½ hours = 300 hours max

80% Part-time = 40 days @ 6 hours = 240 hours max

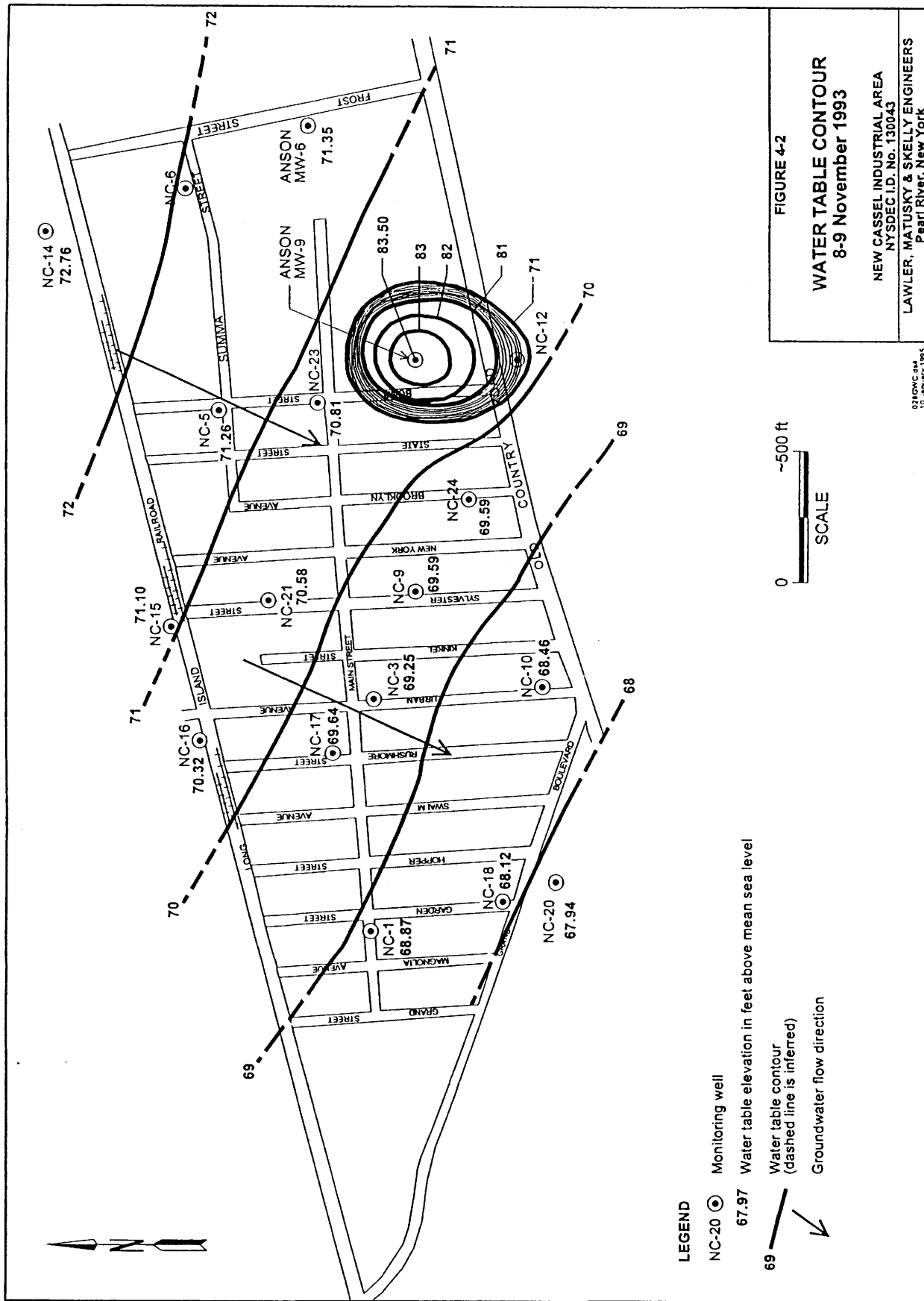
50% Part-time = 40 days @ 3-¾ hours = 150 hours max

Mary E Kelly
Division of Fiscal Management

TABLE 4-1

WATER TABLE ELEVATION DATA

WELL I.D.	ELEVATION TOP OF PVC (ft above MSL)	TOTAL DEPTH OF WELL	DEPTH TO WATER (ft) 23 Aug 1993	WATER TABLE ELEVATION (ft above MSL) 23 Aug 1993	DEPTH TO WATER (ft) 8-9 Nov 1993	WATER TABLE ELEVATION (ft above MSL) 8-9 Nov 1993
NC-1	119.38	57.71	49.50	69.88	50.51	68.87
NC-3	122.02	57.53	51.78	70.24	52.77	69.25
NC-5	126.04	64.5	53.87	72.17	54.78	71.26
NC-7	117.41	53.46	48.27	69.14	--	--
NC-6	126.63	-	--	--	54.70	71.93
NC-8	118.77	54.99	49.59	69.18	--	--
NC-9	121.55	56.09	51.0	70.55	51.96	69.59
NC-10	119.28	55.6	49.95	69.33	50.83	68.46
NC-11	118.23	54.05	48.16	70.07	--	--
NC-14	130.90	67.29	57.27	73.63	58.14	72.76
NC-15	125.22	66.8	53.09	72.13	54.12	71.10
NC-16	123.27	63.20	51.89	71.38	52.95	70.32
NC-17	122.12	61.47	51.47	70.65	52.48	69.64
NC-18	117.11	57.9	48.00	69.11	48.99	68.12
NC-19	120.65	59.81	50.85	69.86	--	--
NC-20	117.68	56.0	48.81	68.87	49.74	67.84
NC-21	125.17	57.95	53.61	71.56	54.59	70.58
NC-23	122.84	62.33	51.17	71.67	52.03	70.81
NC-24	119.99	63.88	--	--	50.40	69.59
NC-25	118.94	57.49	48.00	70.94	--	--
N-11842	126.68	-	54.56	72.12	--	--
N-11843	121.53	-	51.16	70.37	--	--
N-11844	123.05	-	52.21	70.84	--	--
N-11845	123.60	-	52.45	71.15	--	--
N-11846	123.21	-	51.59	71.62	--	--
N-11849	115.61	-	46.77	68.84	--	--
N-11850	118.31	-	49.28	69.03	--	--
N-11854	119.60	59.39	49.20	70.40	--	--
N-11855	117.56	60.11	47.33	70.23	--	--
ANSON MW-3	127.95	-	54.92	73.03	--	--
ANSON MW-4	128.44	69.15	55.42	73.02	56.25	72.19
ANSON MW-6	124.68	-	52.20	72.48	53.33	71.35
ANSON MW-7	128.00	-	55.72	72.28	--	--
ANSON MW-8	122.58	-	51.05	71.53	--	--
ANSON MW-9	121.76	64.13	45.37	76.39	38.26	83.50
ANSON MW-10	120.18	56.2	49.10	71.08	--	--
ANSON MW-5	126.82	-	52.70	74.12	--	--



Published average hydraulic conductivity values for the sediments typically screened by site wells (silty sands) range from 5×10^{-4} to 5×10^{-5} cm/sec (Fetter 1993). Assuming a porosity of 25%, the average linear velocity of groundwater movement can be calculated using a derivation of Darcy's Law. The calculated flow velocities range from 9.4×10^{-1} to 9.4×10^{-2} m per year.

4.2 TASK 4 - GROUNDWATER PROBE INVESTIGATION

4.2.1 Geoprobe Soil and Groundwater Sampling

A groundwater probe investigation was conducted from 18 October to 12 November 1993. A truck-mounted Geoprobe unit operated by Zebra Environmental Corp. of Cedarhurst, New York, was used to obtain soil and groundwater samples from selected locations across the site. Sample locations were based on information collected during the file review and selected to provide general coverage of the entire industrial area. The samples were analyzed by a mobile laboratory located on-site and operated by Tetra•K Testing of Westfield, Massachusetts. The analytical instrumentation consisted of a Hewlett-Packard Model 5890 gas chromatograph (GC) equipped with an electrolytic conductivity detector (ELCD) and a photoionization detector (PID). Groundwater samples were collected from 41 Geoprobe locations; typically, three water samples were collected from each location at various depth intervals. Soil samples were collected from 17 of the Geoprobe locations as shown on Table 5-19. Typically, these soil samples were taken from a few feet above the water table.

After a check for underground utility clearance at each Geoprobe location, a soil sampler or groundwater sampling point was driven to the selected depth. Soil samples (where indicated) were collected at each hole from above the water table. The water sampler was then driven to the maximum probe-hole depth (usually 90 ft) to collect a water sample. Water samples were collected using 5/16-in. polyethylene tubing equipped with a ball-check foot valve. After the groundwater was purged for a short period of time, the tubing (full of groundwater) was withdrawn from the hole. The samples were collected by removing the foot valve and allowing the water to drain into sample containers.

Typically, the groundwater sample point would be raised 10 ft through the water column and a second groundwater sample would be collected, then raised another 10 ft for a third sample for a total of three water samples per location. At some locations subsurface conditions precluded collection of three water samples at 10-ft intervals. In some cases probe refusal occurred before the 90-ft depth could be reached. In a few instances samples could not be collected because the foot valve malfunctioned (excessive sand passed the sample-point screen).

One field blank sample was collected each week by pouring deionized water through the decontaminated groundwater sample point and collecting the water in the appropriate sample containers. All samples were immediately delivered to the on-site mobile laboratory for analysis. Sample results are presented in Section 5.1.2.

4.2.2 Additional Monitoring Well Sampling

Seven of the nine groundwater monitoring wells sampled during the Geoprobe investigation (18 October to 12 November 1993) were not sampled during the monitoring well survey because their location was unknown or the owner had not given permission. The other two (wells N-9938 and NC-24) were resampled during the Geoprobe survey as part of the sample split program (see Section 4.2.4). The nine wells are listed below:

GRAYCO MW-1
LONI-JO MW-1
AIMW-70STATE-D
AIMW-656MAIN-U
AIMW-656MAIN-D
AIMW-670MAIN-D
ANSON MW-9
N-9938
NC-24

Each well was purged of three well volumes before being sampled using a field-decontaminated PVC bailer. Decontamination consisted of a nonphosphate detergent wash, tap water rinse, 10% nitric acid rinse, deionized water rinse, methanol wash, deionized water rinse, and air drying, in that order. Samples were collected using dedicated disposable Teflon bailers and dedicated nylon cord. All samples were immediately delivered to the on-site mobile laboratory for analysis.

4.2.3 Mobile Laboratory Analysis

All soil and groundwater samples collected during the groundwater probe investigation were analyzed by Tetra•K Testing, which operated a mobile GC laboratory on-site for the duration of the survey. Samples were delivered to the mobile laboratory as they were collected, then analyzed for VOCs as listed in EPA Methods 8010 and 8020. Purge-and-trap sample extraction methods were used for both soil and groundwater samples.

A Hewlett-Packard Model 5890 GC equipped with ELCD and PID was used to analyze the samples. The GC was calibrated daily using approved standards. Duplicate, matrix spike, and method blank analyses were performed daily to provide quality control (QC). Any samples possessing analyte concentrations significantly higher than the upper end of the calibration curve were diluted and reanalyzed until the detected concentrations were within the instrument's calibration range. In this manner both the low-level and the high-level concentrations were accurately quantified. The analyte concentrations detected in the groundwater probe sample are presented in summary tables in Chapter 5.

4.2.4 Sample Splits

Six of the samples submitted to the mobile laboratory for analysis were submitted as splits, i.e., additional sample vials were filled simultaneously with samples collected at each location and submitted under chain-of-custody protocol to IEA, a NYSDOH-certified lab. This measure was instituted to provide external quality assurance (QA) regarding the mobile laboratory's performance. Four of the samples were collected from groundwater probes; two were collected from monitoring wells. The six split samples are listed below:

GP-16 75-77 ft	GP-38 76-78 ft
GP-17 72-74 ft	N-9938
GP-2 68-70 ft	NC-24

Only groundwaters, not soils, were submitted for sample splits. Soil samples were generally of limited volume, and concentrations were detected at very low levels or not detected.

Results of the mobile and base laboratory analyses are compared in Section 5.1.3.

4.3 TASK 5 - PHASE II GROUNDWATER PROBE INVESTIGATION

4.3.1 Geoprobe Soil and Groundwater Sampling

Based on LMS' recommendations from the first phase of the groundwater probe investigation, a Phase II groundwater probe investigation was conducted from 28 June to 28 July 1994. Probe locations were selected based on apparent data gaps in the Phase I locations or because downgradient or upgradient data were required for a suspect property. In addition to the supplemental Geoprobe locations sampled during the second phase of the groundwater investigation, facility inspections were carried out at 33 properties. The inspections were conducted from 28 June to 11 July 1994. The properties inspected are listed on Table 4-2.

TABLE 4-2 (Page 1 of 3)

LIST OF PROPERTIES WHICH RECEIVED SITE INSPECTIONS
New Cassel Industrial Area

BLOCK & LOT NUMBERS	ADDRESS	OWNER	OCCUPANT	SECTION
180, 36-37	625 Main St.	A. Berti and T. Tabone 629 Main St. Westbury, NY 11590	J&B Tool and Die	Central
76, 57-65	33 Sylvester St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
78, 1-8	648 Main St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
78, 1-8, 64-6	656 Main St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
79, 1-3	662 Main St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
79, 1-8, 265-	670 Main St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
80, 192-19	686 Main St.	Arkwin Industries, Inc. 686 Main St. Westbury, NY 11590	Arkwin Industries, Inc.	Central
76, 5-8	71 Sylvester St.	Attonito Corp. 524 Whitter Street Westbury, NY 11590	Vacant - Formerly Van Son Holland Ink	Central
181, 84	125 State St.	CO Realty Co. 50 Urban Ave. Westbury, NY 11590	Tischon Corp.	Central
180, 29-35	84 Sylvester St.	DDS Co. P.O. Box 6 Hicksville, NY 11801	Superior Auto Restyling	Central
76, 13-15	62 Kinkel St.	Dermkraft Inc. 62 Kinkel St. Westbury, NY 11590	Doak Dermatologies	Central
76, 66-68	49 Sylvester St.	Forty-Nine Sylvester Co. 49 Sylvester St. Westbury, NY 11590	Micro-Ray Corporation	Central
76, 22-29	38 Kinkel St.	Kinkel Corp. 38 Kinkel St. Westbury, NY 11590	Glass Block Warehouse & ABC Stone Trading	Central

TABLE 4-2 (Page 2 of 3)

LIST OF PROPERTIES WHICH RECEIVED SITE INSPECTIONS
New Cassel Industrial Area

BLOCK & LOT NUMBERS	ADDRESS	OWNER	OCCUPANT	SECTION
79, 314	54 Brooklyn Ave.	Kwik Ezee Inc. 54 Booklyn Ave. Westbury, NY 11590	Kwik Ezee Inc.	Central
76, 1-4	70 Kinkel St.	Loni-Jo Metals Industries, Inc. 70 Kinkel Street Westbury, NY 11590	Loni-Jo Metals Industries, Inc.	Central
78, 19-21, 72-73	36 New York Ave.	Patel Trust 1356 Blamoral Dr. Glendale, CA 912	Eckhart Corporation	Central
161, 19-26	675 Main St.	Permafuse Properties 675 Main St. Westbury, NY 11590	Vacant - Formerly Permafuse	Central
161, 41, 5-8	95, 97-99 State St.	Raylene Holding Corp. 95 State St. Westbury, NY 11590	Metpar Steel Products	Central
76, 9-12	68 Kinkel St.	Thomas Garguilo Jr. 65 Kinkel St. Westbury, NY 11590	Industrial Mets Inc.	Central
78, 78-79	30 New York Ave.	Tishcon Corporation 29 New York Ave. Westbury, NY 11590	Tishcon Corporation	Central
76, 69-72	67 Sylvester St.	Unknown	Doak Dermatologies	Central
77, 25-28, 50-55	29 New York Ave.	Unknown	Nationwide Warehouse	Central
328, 135	115 Frost St.	Frost Street Assoc., Inc. 1025 Old Country Road Westbury, NY 11590	Encore Promotions EBC Inc. Shore Park Pharmacy US Polymers Landscaping Contractors	Eastern
328, 171	89 Frost St.	Jerry Speigel 270 North Broadway Hickville, NY 11801	Korg Inc.	Eastern
328, 164	101 Frost St.	K.B. Co. 270 North Broadway Hickville, NY 11801	Distribution Systems of America, Inc.	Eastern
328, 141, 150, 151	776-790 Summa Ave.	M.I.S. Realty Co. 776 Summa Ave. Westbury, NY 11590	NYCE Tempus Liberty	Eastern

TABLE 4-2 (Page 3 of 3)

LIST OF PROPERTIES WHICH RECEIVED SITE INSPECTIONS
New Cassel Industrial Area

BLOCK & LOT NUMBERS	ADDRESS	OWNER	OCCUPANT	SECTION
70, 16-17, 54-55	80-86 Magnolia Ave.	80 Magnolia Avenue Co. 80 Magnolia Ave. Westbury, NY 11590	Alltec Inc.	Western
70, 40-42	81 Garden St.	Eighty-1 Garden St. Rlty 390 Willis Avenue Roslyn Hieghts, NY 11577	Warehouse ?	Western
144, 31-50	299 Main St.	F. Scappatura 1015 Old Country Road Westbury, NY 11590	One Stop Auto and Truck Center	Western
73, 1-12, 63-75	570 Main St.	Foray Construction Co. 570 Main St. Westbury, NY 11590	Castle Collision and Vacant - Formerly IMC Magnetics	Western
70, 43-44	87-89 Garden St.	Frank A. Miceli 1159 Fernwood Dr. Valley Stream , NY 11580	Rapid Rivet and Fastener Corp.	Western
70, 35-39	75 Garden St.	Grimace Realty Corp. 514 Grand Blvd. Westbury, NY 11590	Island Poly Bag and Supply	Western
71, 5-8	542 Main St.	H. Greenberg 155 Argyle Rd. Brooklyn, NY 11218	Al's Tool and Die	Western

As in the first phase of the groundwater probe investigation, a truck-mounted Geoprobe unit operated by Zebra Environmental was used to obtain soil and groundwater samples. The samples were analyzed by the on-site mobile laboratory operated by Tetra•K Testing. Groundwater samples were collected from 85 Geoprobe locations (GP-43 to -127). Typically, two water samples were collected from each location at depths of 63-65 and 83-85 ft. Soil samples were collected from certain Geoprobe locations, as shown on Table 5-20. These locations were identified during the site inspections as suspected source areas. Exact sample locations and depths were selected based on information collected during site inspections and direct visual observations.

Sample collection methods remained essentially the same as those used in Phase I except that sampling depths for groundwater were typically 63-65 and 83-85 ft and soil samples were collected from above the water table or at depths less than 30 ft depending on the sampling locations. In the event that a sample was retrieved from a catch basin or drywell, a 3-in. galvanized pipe was first used to span the open space between the ground surface and basin bottom to provide stability to the Geoprobe rods, thus ensuring adequate sample recovery.

4.3.2 Site Inspections

The site inspections were conducted from 28 June to 11 July 1994. Thirty-three brief facility inspections were completed to collect the following information concerning:

- Work areas
- Manufacturing processes
- Number of years at each location
- Potential discharge points inside or outside the building
- Chemical storage locations, including underground storage tanks (USTs)
- Location of any abandoned septic tank/leach pool systems

The overall goal of the site inspections was to collect the necessary information and site history to identify potential source areas on the property. Once identified, the appropriate groundwater, surface water, and soil samples could be collected. Originally, the scope of work called for inspections at some 34 properties located across the industrial area. At several of the properties access could not be gained as the properties appeared abandoned or were deserted warehouses. The properties inspected, with the tax block, address, owner/occupant, and section, are listed

on Table 4-2. Of the 33 properties inspected, 22 are in the central section, seven in the western section, and four in the eastern section. The site inspections did not include every industrial facility in the industrial area. The 33 were selected based on the file review and Phase I Geoprobe results.

4.3.3 Monitoring Well Sampling

Three existing on-site monitoring wells, NC-24 and DOAK-MW-1 and -MW-2, were sampled during the Phase II groundwater probe investigation (Figure 4-3). NC-24 was sampled for comparison purposes as it had the highest concentration during the Phase I investigation. The DOAK wells (67 Sylvester Street) were selected as they were newly installed and were very near proposed sampling locations.

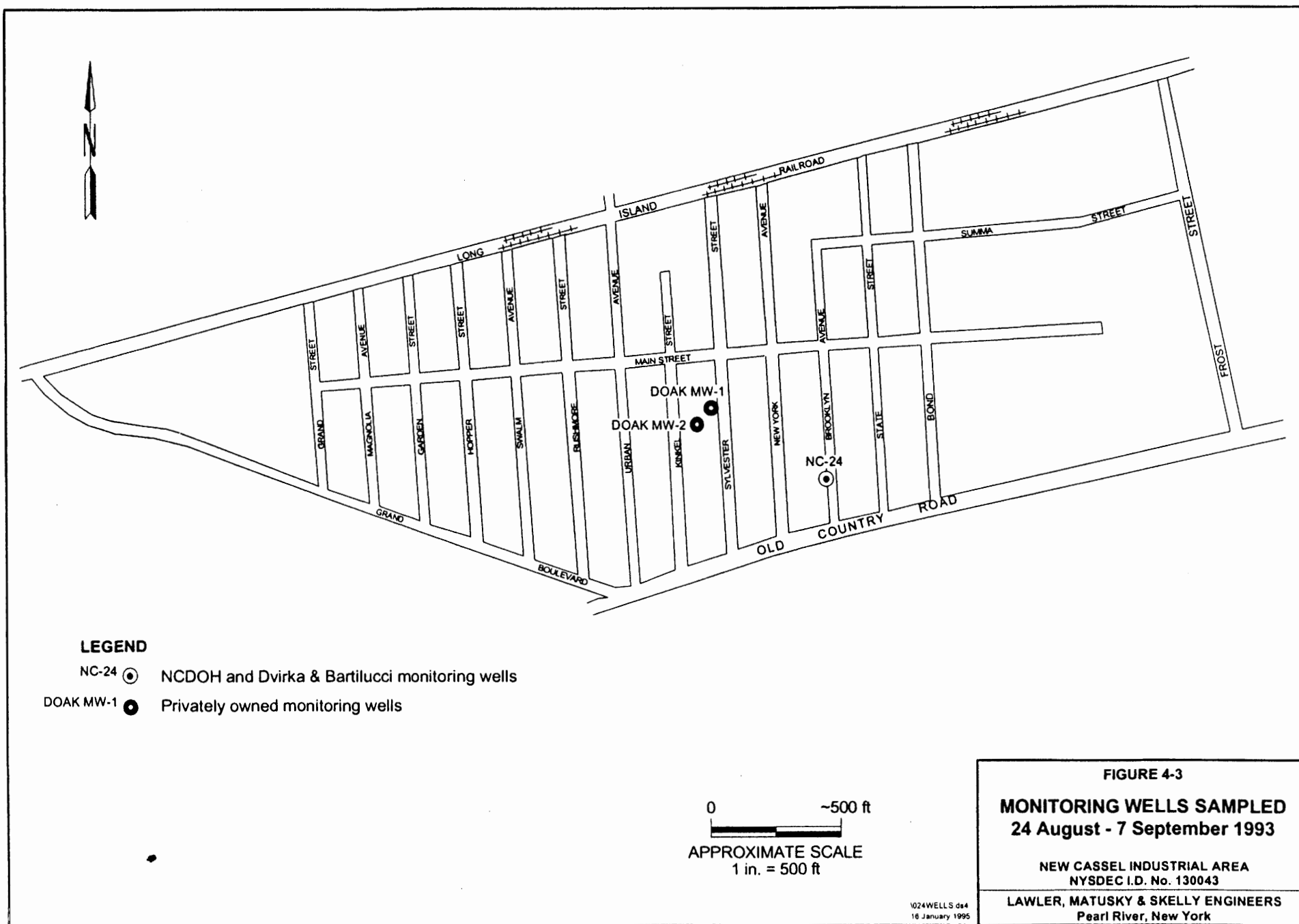
Each well was purged of at least three well volumes before being sampled, using a laboratory-decontaminated PVC bailer or field-decontaminated 2-in. submersible Grundfos pump. Samples were collected using dedicated disposable Teflon bailers and dedicated nylon cord. All samples were immediately delivered to the on-site mobile laboratory for analysis.

4.3.4 Suspected Source Sampling

Many of the documented contaminant releases at the NCIA site involve discharges to drywells and leachfield systems. As existing drywells were identified by the site inspections, they were opened and inspected. If the drywell contained standing surface water, it was sampled using a dedicated disposable Teflon bailer lowered into the drywell with a dedicated nylon cord. Six drywell surface water samples were collected. Sediment and drywell bottom soil samples were collected using the Geoprobe, as previously described. All surface water samples were immediately delivered to the on-site mobile laboratory for analysis.

4.3.5 Mobile Laboratory Analysis

All soil, groundwater, surface water, and drywell bottom samples collected during the Phase II groundwater probe investigation were analyzed by Tetra•K Testing. Samples were delivered to the mobile laboratory as they were collected, then analyzed for VOCs as listed in EPA Methods 8010 and 8020. Purge-and-trap sample extraction methods were used for both soil and groundwater samples. Similar equipment and the same QA/QC and dilution methods were used during the investigation.



The analyte concentrations detected in the soil, groundwater, and surface water are presented in summary tables in Chapter 5.

4.3.6 Sample Splits

Four of the samples submitted to the mobile laboratory for analysis were submitted as splits, i.e., additional sample vials were filled simultaneously with samples collected at each location and submitted under chain-of-custody protocol to IEA. The sample splits were taken from GP-97, 63-65 and 83-85 ft, and GP-114, 83-85 ft; surface water was taken from GP-111. This measure was instituted to provide external QA regarding the mobile laboratory's performance.

Results of the mobile and base laboratory analyses for both phases of the groundwater probe investigations are compared in Section 5.1.3.

CHAPTER 5

RESULTS OF FIELD INVESTIGATION

5.1 VOC RESULTS

5.1.1 Monitoring Well Sampling Results

Table 5-1 presents the results of the VOC analyses performed on the samples collected during the monitoring well sampling survey. The chlorinated compounds were detected much more frequently than the aromatic benzene, toluene, ethylbenzene, and xylene (BTEX) compounds.

5.1.2 Phase I and II Sampling Results

Tables 5-2 through 5-25 present the results of analyses performed on the samples collected during the first and second phases of the Geoprobe investigation. Tables 5-2 through 5-16 present the VOC data for the groundwater probes. The tables are broken into four depth ranges consisting of 55-65 ft samples, 65-75 ft samples, 75-85 ft samples, and 85-95 ft samples. Table 5-17 presents the VOC data for additional wells that were sampled during the first phase of the Geoprobe sampling. Table 5-18 presents the VOC data for the three monitoring wells sampled during the second phase of the Geoprobe sampling. Tables 5-19 to 5-22 present the VOC data for the soil samples collected during the first and second phases of the Geoprobe investigation. Tables 5-23 and 5-24 present the VOC data for the surface water samples collected from on-site drywells during the second phase. Tables 5-25 and 5-26 summarize the analyses of chromium and lead.

Note that in both Phase I and Phase II the Geoprobe locations were consecutively numbered in the field. Since every location did not have the same number of samples, number gaps may appear in the data tables for a particular sample medium. All groundwater samples are denoted by "GP" followed by the sample number and sample depth. Soil samples are denoted by "SGP" followed by the sample number and depth, and surface waters are denoted by "GP" and sample number designation (no sample depth designation).

5.1.3 Results of Sample Splits and Trip Blanks

Duplicates of six groundwater samples collected during Phase I of the Geoprobe investigation were sent to IEA as a quality control measure. Results of the base laboratory analyses were in close agreement with those furnished by the mobile laboratory, as shown in Table 5-27,

TABLE 5-1 (Page 1 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER	ADCHEM MW-1	ADCHEM MW-2	ADCHEM MW-3	ANSON MW-2	ANSON MW-3	ANSON MW-4	ANSON MW-6	ANSON MW-7	ANSON MW-8	ANSON MW-10	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)											
Acetone	ND	ND	ND	5 j	ND	ND	5 j	4 j	ND	ND	NC
1,1-Dichloroethylene	ND	ND	8	ND	ND	1 j	ND	3 j	ND	ND	5.0
1,1-Dichloroethane	12	ND	3 j	ND	ND	ND	ND	26	ND	ND	5.0
1,2-Dichloroethylene (total)	10	ND	6	ND	ND	ND	ND	ND	ND	ND	5.0 E
1,1,1-Trichloroethane	47	9	51	ND	ND	ND	ND	270 e	ND	ND	5.0
Trichloroethylene	19	ND	19	ND	ND	ND	ND	15	ND	1 j	5.0
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 j	0.7
Tetrachloroethylene	36	11	23	ND	ND	ND	ND	11	ND	120	5.0
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	0.8 j	ND	ND	5.0

- E - Standard is for trans species only.
 e - Estimated concentration; exceeds GC/MS calibration range.
 j - Estimated concentration; compound present below quantitation limit.
 NC - No criteria.
 ND - Not detected at analytical detection limit.

5-1A1

TABLE 5-1 (Page 2 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER	E-Z-EM MW-2	HARMON MW-1	UTILITY MW-1	UTILITY MW-2	N-9938	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)						
Acetone	ND	ND	6 j	ND	ND	NC
1,1-Dichloroethylene	ND	ND	4 j	ND	76	5.0
1,1-Dichloroethane	2 j	ND	1 j	14	19	5.0
1,2-Dichloroethane	ND	ND	ND	ND	10	5.0
1,2-Dichloroethylene (total)	ND	2,300 e	11	21	ND	5.0 E
2-Butanone	ND	ND	2 j	ND	ND	NC
1,1,1-Trichloroethane	7	10	29	29	410 e	5.0
Trichloroethylene	ND	660 e	9	20	39	5.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3 j	5.0
Tetrachloroethylene	62	9 j	3 j	30	46	5.0
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	5.0

- E - Standard is for trans species only.
 e - Estimated concentration; exceeds GC/MS calibration range.
 j - Estimated concentration; compound present below quantitation limit.
 NC - No criteria.
 ND - Not detected at analytical detection limit.

S-1A2

TABLE 5-1 (Page 3 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130042

PARAMETER	N-11841	N-11842	N-11843	N-11844	N-11845	N-11846	N-11847	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)								
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	1 j	5.0
1,2-Dichloroethylene (total)	ND	ND	2 j	ND	ND	ND	ND	5.0 £
1,1,1-Trichloroethane	ND	54	5 j	5 j	21	4 j	ND	5.0
Trichloroethylene	9 j	18	38	ND	ND	ND	16	5.0
Tetrachloroethylene	ND	ND	12	3 j	ND	ND	84	5.0
1,1,1,2-Tetrachloroethane	ND	1 j	ND	ND	ND	ND	ND	5.0

- £ - Standard is for trans species only.
 j - Estimated concentration; compound present below quantitation limit.
 ND - Not detected at analytical detection limit.

S-1A3

TABLE 5-1 (Page 4 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER	N-11849	N-11850	N-11851	N-11852	N-11854	N-11855	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)							
1,2-Dichloroethylene (total)	ND	ND	ND	9 j	ND	ND	5.0 £
1,1,1-Trichloroethane	ND	2 j	ND	ND	ND	ND	5.0
Trichloroethylene	ND	44	10	69	ND	ND	5.0
Benzene	ND	23	ND	ND	ND	ND	0.7
Tetrachloroethylene	ND	110	2 j	6 j	ND	ND	5.0

£ - Standard is for trans species only.

j - Estimated concentration; compound present below quantitation limit.

ND - Not detected at analytical detection limit.

S-1A4

TABLE 5-1 (Page 5 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130042

PARAMETER	NC-1	NC-3	NC-4	NC-5	NC-6	NC-7	NC-8	NC-9	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)									
Acetone	ND	ND	ND	ND	9 j	ND	ND	ND	NC
1,1-Dichloroethylene	ND	ND	2 j	1 j	ND	19	ND	12	5.0
1,1-Dichloroethane	ND	ND	ND	ND	ND	8 j	ND	6 j	5.0
1,2-Dichloroethylene (total)	ND	ND	ND	ND	ND	ND	9 j	15	5.0 £
Chloroform	ND	ND	ND	ND	ND	ND	ND	39 b	7.0
1,1,1-Trichloroethane	ND	ND	26	8	ND	350 e	2 j	110	5.0
Trichloroethylene	ND	ND	ND	3 j	2 j	36	33	13	5.0
Benzene	ND	ND	3 j	ND	ND	ND	ND	ND	0.7
Tetrachloroethylene	0.6 j	2 j	3 j	5	ND	29	51	89	5.0
Xylene (total)	ND	ND	ND	ND	3 j	ND	ND	ND	5.0

- £ - Standard is for trans species only.
 e - Estimated concentration; exceeds GC/MS calibration range.
 j - Estimated concentration; compound present below quantitation limit.
 NC - No criteria.
 ND - Not detected at analytical detection limit.

5-1A5

TABLE 5-1 (Page 6 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130042

PARAMETER	NC-10	NC-11	NC-12	NC-13	NC-14	NC-15	NC-16	NC-17	NC-18	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)										
Acetone	ND	ND	ND	12	ND	ND	ND	ND	ND	NC
1,1,1-Trichloroethane	ND	4 j	ND	ND	ND	ND	ND	ND	ND	5.0
Trichloroethylene	ND	2 j	ND	ND	ND	ND	ND	ND	ND	5.0
Benzene	ND	ND	ND	2 j	ND	ND	ND	ND	ND	0.7
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	61	ND	2 j	5.0
Xylene (total)	ND	ND	ND	ND	0.8 j	ND	ND	ND	ND	5.0

j - Estimated concentration; compound present below quantitation limit.
 NC - No criteria.
 ND - Not detected at analytical detection limit.

5-1A6

TABLE 5-1 (Page 7 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS

New Cassel Industrial Area
 NYSDEC I.D. No. 130042

PARAMETER	NC-19	NC-20	NC-21	NC-22D	NC-23	NC-24	NC-25	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)								
Acetone	ND	ND	ND	ND	ND	7 j	ND	NC
1,1-Dichloroethylene	ND	ND	ND	ND	ND	70	8 j	5.0
1,1-Dichloroethane	ND	ND	ND	ND	ND	280	26	5.0
1,2-Dichloroethylene (total)	ND	ND	9 j	ND	ND	ND	19	5.0 £
1,1,1-Trichloroethane	ND	3 j	5 j	ND	ND	4,100 e	66	5.0
Trichloroethylene	ND	11	18	ND	17	3 j	12	5.0
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	5.0
Benzene	ND	ND	ND	ND	3 j	ND	ND	0.7
Tetrachloroethylene	6 j	14	130	0.8 j	ND	57	76	5.0
Xylene (total)	5 j	ND	ND	ND	ND	ND	ND	5.0

- £ - Standard is for trans species only.
 e - Estimated concentration; exceeds GC/MS calibration range.
 j - Estimated concentration; compound present below quantitation limit.
 NC - No criteria.
 ND - Not detected at analytical detection limit.

5-1A7

TABLE 5-1 (Page 8 of 9)

**GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS**

New Cassel Industrial Area
NYSDEC I.D. No. 130042

PARAMETER	NC-26D	NYT MW-1	NYT MW-2	NYT MW-3	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)					
1,1-Dichloroethane	ND	ND	6 j	ND	5.0
1,2-Dichloroethylene (total)	ND	ND	5 j	ND	5.0 E
Chloroform	ND	ND	19	ND	7.0
1,1,1-Trichloroethane	6 j	ND	4 j	ND	5.0
Trichloroethylene	ND	4 j	ND	ND	5.0
2-Hexanone	ND	ND	8 j	ND	50 GV
Tetrachloroethylene	ND	15	ND	2 j	5.0

- E - Standard is for trans species only.
j - Estimated concentration; compound present below quantitation limit.
GV - Guidance value.
ND - Not detected at analytical detection limit.

5-1A8

TABLE 5-1 (Page 9 of 9)

GROUNDWATER DATA SUMMARY (AUGUST 93)
PHASE I MONITORING WELL SAMPLING RESULTS
 New Cassel Industrial Area
 NYSDEC I.D. No. 130042

PARAMETER	FIELD BLANK 8/24/93	TRIP BLANK 8/24/93	TRIP BLANK 8/25/93	TRIP BLANK 8/26/93	TRIP BLANK 8/27/93	TRIP BLANK 8/30/93	TRIP BLANK 8/31/93	TRIP BLANK 9/2/93	TRIP BLANK 9/3/93	NYSDEC CLASS GA STANDARDS
VOLATILE ORGANICS (µg/l)										
Methylene chloride	ND	1 j b	1 j b	ND	ND	ND	ND	ND	ND	5.0
Acetone	ND	ND	12	20	ND	ND	ND	ND	ND	5.0

b - Found in associated blanks.
 j - Estimated concentration; compound present below quantitation limit.
 ND - Not detected at analytical detection limit.

S-1A9

TABLE 5-2

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)

55 - 65 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-1-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCF
GP-3	60-62	ND	14.0	1.5	ND	7.1	6.8	ND	79.0	ND
GP-4	63-65	ND	ND	ND	7.9	ND	100.0	1.6	3.3	2.5
GP-5	60-62	ND	1.2	ND	1.0	ND	ND	ND	ND	1.2
GP-6	62-64	ND	190.0	ND	180.0	13.0	1,260	ND	5.6	88.0
GP-7	62-64	ND	ND	ND	ND	ND	8.9	ND	4.3	5.4
GP-8	59-61	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-12	58-60	ND	32.0	ND	62.0	2.9	100.0	ND	31.0	9.4
GP-13	60-62	ND	ND	ND	1.3	3.0	2.7	ND	8.6	45.0
GP-14	56-58	ND	30.0	1.3	39.0	340.0	450.0	ND	93.0	15.0
GP-27	58-60	ND	ND	ND	ND	1.5	4.2	ND	13.0	14.0
GP-35	58-60	ND	6.0	ND	4.8	3.5	41.0	ND	7.4	6.8
GP-38	56-58	ND	ND	ND	4.9	3.1	26.0	ND	5.7	7.9
GP-39	55-57	ND	ND	ND	13.0	33.0	37.0	ND	22.0	42.0
GP-41	58-61	ND	ND	ND	ND	ND	2.0	ND	ND	ND

All data in µg/l.
 ND - Not detected.

TABLE 5-3 (Page 1 of 3)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range
New Cassel Industrial Area

S-ICI	Sample Point I.D.	Actual Sample Depth	Methylene chloride							Carbon tetrachloride		
			Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA		1,2-DCA	TCE	PCE
GP-44	63-65	ND	10.0	ND	ND	7.4	4.9	22.0	ND	ND	7.3	9.9
GP-45	63-65	ND	3.9	ND	ND	6.4	2.0	8.0	ND	ND	3.5	3.2
GP-50	63-65	ND	8.3	ND	ND	1.3	1.1	6.4	ND	ND	8.2	1.2
GP-51	63-65	ND	160	ND	ND	18	73	120	ND	ND	2,200	130
GP-53	63-65	ND	ND	ND	ND	12	BQL	37	ND	ND	BQL	15
GP-55	63-65	ND	1,100 E	ND	ND	320	39	2,900 E	ND	15	670 E	280
GP-59	63-65	ND	ND	ND	ND	10	BQL	46	ND	ND	BQL	13
GP-61	63-65	ND	BQL	ND	ND	14	BQL	75	ND	ND	25	15
GP-62	63-65	ND	ND	ND	ND	ND	BQL	1.1	ND	ND	67.0	230.0
GP-63	63-65	ND	ND	ND	ND	ND	25.0	ND	ND	ND	1.1	1.3
GP-64	63-65	ND	ND	ND	ND	1.6	7.1	13.0	ND	ND	8.3	2.7
GP-65	63-65	ND	2.7	ND	ND	6.0	1.2	23.0	ND	ND	1.6	19.0
GP-66	63-65	ND	ND	ND	ND	2.0	2.4	6.4	ND	ND	BQL	1.2
GP-68	63-65	ND	ND	ND	ND	ND	ND	0.6	ND	ND	1.1	0.3
GP-69	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-70	63-65	ND	ND	ND	BQL	2.4	10.0	4.4	ND	ND	7.5	3.7
GP-72	63-65	ND	ND	ND	ND	ND	19	ND	ND	ND	71	1,300 E
GP-73	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7
GP-74	63-65	ND	ND	ND	ND	ND	17	7	ND	ND	69	10,000 E

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DA rA.XLS 55-65 10/10/94 3:31:25 PM

TABLE 5-3 (Page 2 of 3)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
GP-75	63-65	ND	BQL	ND	ND	39	BQL	350	ND	ND	45	1,600 E
GP-78	63-65	ND	ND	23	ND	500 E	ND	280	ND	ND	BQL	15
GP-80	63-65	ND	100	ND	ND	7,900	ND	9,800	ND	12	BQL	65
GP-81	63-65	ND	95	ND	ND	120	BQL	1,400	ND	ND	11	120
GP-82	63-65	ND	140	ND	ND	35	ND	1,600	ND	ND	53	82
GP-83	63-65	ND	330	ND	ND	150	14	2,500	ND	ND	260	60
GP-84	63-65	ND	3.0	ND	ND	4.9	BQL	8.5	ND	ND	23.0	2.2
GP-85	63-65	ND	ND	ND	ND	1.3	ND	5.5	ND	ND	BQL	0.6
GP-86	63-65	ND	BQL	ND	ND	ND	ND	ND	ND	ND	ND	2.4
GP-87	63-65	ND	BQL	ND	ND	18	ND	46	ND	ND	BQL	57
GP-88	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8
GP-90	63-65	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND
GP-91	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-92	63-65	ND	ND	ND	ND	ND	BQL	1.2	ND	ND	5.9	12.0
GP-93	63-65	ND	ND	ND	ND	1.8	5.3	1.0	ND	ND	14.0	11.0
GP-94	63-65	ND	ND	ND	ND	ND	45	ND	ND	ND	BQL	33
GP-95	63-65	ND	ND	ND	ND	ND	140	ND	ND	ND	89	170
GP-96	63-65	ND	ND	ND	ND	1.2	15.0	23.0	ND	ND	7.2	3.2
GP-97	63-65	ND	ND	ND	ND	ND	3,600	57	ND	ND	3,700	46,000 E
GP-98	63-65	ND	ND	ND	ND	ND	ND	16.0	ND	ND	BQL	4.0

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS 55-65 10/10/94 3:31:25 PM

TABLE 5-3 (Page 3 of 3)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
GP-99	63-65	ND	ND	ND	ND	ND	BQL	ND	ND	ND	320	10
GP-102	63-65	ND	10.0	ND	ND	19.0	1.9	48 E	ND	ND	7.2	9.7
GP-105	63-65	ND	ND	ND	ND	ND	250	6	ND	ND	160	42
GP-106	63-65	ND	ND	ND	ND	ND	200	5	ND	ND	180	58
GP-110	63-65	ND	46	ND	ND	22	14	300	ND	ND	12	80
GP-113	63-65	ND	36	ND	ND	14	ND	230	ND	ND	47	10
GP-114	63-65	ND	54	ND	ND	14	BQL	160	ND	ND	BQL	58
GP-115	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-116	63-65	ND	ND	ND	ND	ND	ND	72	ND	ND	ND	ND
GP-117	63-65	ND	15	ND	ND	14	BQL	94	ND	ND	95	9
GP-120	63-65	ND	ND	ND	ND	ND	9.3	1.5	ND	ND	5.5	3.6
GP-121	63-65	ND	ND	ND	ND	ND	ND	5.8	ND	ND	15.0	0.7
GP-122	63-65	ND	ND	ND	ND	ND	ND	6.6	ND	ND	BQL	3.2
GP-124	63-65	ND	BQL	ND	ND	ND	ND	31	ND	ND	14	5

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS 55-65 10/10/94 3:31:25 PM

5-1-C3

TABLE 5-4 (Page 1 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-44	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-45	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-50	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-51	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-53	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-55	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-59	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-61	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-62	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-63	63-65	2.4	ND	ND	ND	ND	ND	.	.	.
GP-64	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-65	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-66	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-68	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-69	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-70	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-72	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-73	63-65	BQL	7.3	ND	ND	9.6	3.6	ND	ND	ND
GP-74	63-65	ND	ND	ND	ND	ND	ND	.	.	.

All data in µg/l.

"." - Isomers of dichlorobenzene were not analyzed for due to absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

S-1D1

TABLE 5-4 (Page 2 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-75	63-65	ND	ND	ND	ND	BQL	ND	-	-	-
GP-78	63-65	ND	ND	ND	ND	29	BQL	-	-	-
GP-80	63-65	ND	ND	ND	ND	BQL	ND	-	-	-
GP-81	63-65	ND	ND	ND	ND	ND	ND	-	-	-
GP-82	63-65	ND	ND	ND	ND	ND	ND	-	-	-
GP-83	63-65	ND	ND	ND	ND	ND	ND	-	-	-
GP-84	63-65	BQL	8.4	ND	ND	10.0	3.8	ND	ND	ND
GP-85	63-65	ND	3.8	ND	ND	9.5	4.9	-	-	-
GP-86	63-65	ND	2.3	ND	ND	6.0	2.5	-	-	-
GP-87	63-65	ND	BQL	ND	ND	21	ND	-	-	-
GP-88	63-65	ND	2.7	ND	ND	4.1	BQL	-	-	-
GP-90	63-65	BQL	7.4	ND	BQL	17.0	6.0	ND	ND	ND
GP-91	63-65	ND	3.7	ND	ND	10.0	3.6	ND	ND	ND
GP-92	63-65	ND	2.4	ND	ND	7.0	2.5	ND	ND	ND
GP-93	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-94	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-95	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-96	63-65	ND	BQL	ND	ND	BQL	ND	ND	ND	ND
GP-97	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-98	63-65	ND	ND	ND	ND	BQL	ND	ND	ND	ND

All data in µg/l.

"-" - Isomers of dichlorobenzene were not analyzed for due to absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

TABLE 5-4 (Page 3 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

55 - 65 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-99	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-102	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-105	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-106	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-110	63-65	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-113	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-114	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-115	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-116	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-117	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-120	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-121	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-122	63-65	ND	ND	ND	ND	ND	ND	.	.	.
GP-124	63-65	ND	ND	ND	ND	ND	ND	.	.	.

All data in µg/l.

"." - Isomers of dichlorobenzene were not analyzed for due to absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

S-ID3

TABLE 5-5 (Page 1 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)

65 - 75 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
P-1	73-75	ND	ND	ND	ND	ND	ND	ND	ND	ND
P-2	73-75	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-1	68-70	ND	ND	ND	ND	380.0	5.7	ND	76.0	220.0
GP-2	66-68	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-3	70-72	ND	ND	ND	ND	ND	3.9	ND	16.0	1.0
GP-4	73-75	ND	ND	ND	1.1	2.7	50.0	ND	140.0	2.2
GP-5	68-70	ND	1.3	ND	1.2	ND	1.3	ND	ND	1.9
GP-6	72-74	ND	98.0	ND	90.0	8.9	800.0	ND	3.5	42.0
GP-7	72-74	ND	ND	ND	ND	ND	11.0	ND	5.6	7.6
GP-8	69-71	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-9	66-68	ND	ND	ND	ND	1.5	ND	ND	2.1	70.0
GP-10	65-67	ND	540.0	ND	150.0	20.0	3200.0	ND	92.0	84.0
GP-11	65-67	ND	100.0	ND	27.0	5.9	460.0	1.1	23.0	12.0
GP-12	68-70	ND	520.0	2.5	210.0	ND	1200.0	ND	440.0	62.0
GP-13	70-72	ND	ND	ND	ND	ND	ND	ND	ND	2.0
GP-14	66-68	ND	20.0	ND	150.0	76.0	360.0	ND	22.0	25.0
GP-15	68-70	ND	66.0	ND	27.0	44.0	93.0	ND	470.0	89.0
GP-16	65-67	ND	ND	ND	ND	ND	ND	ND	14.0	1.1
GP-17	72-74	ND	1.6	ND	4.1	20.0	2.1	ND	4.3	77.0
GP-18	68-70	ND	ND	ND	ND	ND	ND	ND	ND	92.0
GP-19	68-70	ND	ND	ND	ND	3.1	1.6	ND	ND	53.0
GP-20	68-70	ND	ND	ND	ND	7.3	2.8	ND	220.0	55.0
GP-21	68-70	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-22	68-70	ND	ND	ND	ND	13.0	ND	ND	11.0	50.0
GP-23	68-70	ND	21.0	ND	ND	4.8	130.0	ND	240.0	280.0

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 65-75 ft 10/12/94 10:57:51 AM

S-IEI

TABLE 5-5 (Page 2 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)

65 - 75 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
GP-24	68-70	200.0	ND	7.5	7.5	2300.0	ND	ND	170.0	2.2
GP-25	68-70	ND	ND	ND	ND	ND	ND	ND	28.0	31.0
GP-26	68-70	ND	ND	ND	ND	ND	ND	ND	3.9	9.3
GP-27	68-70	ND	ND	ND	ND	1.2	3.9	ND	19.0	29.0
GP-28	70-72	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-29	68-70	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-30	68-70	ND	ND	ND	400.0	ND	2300.0	ND	ND	ND
GP-31	68-70	ND	ND	ND	ND	ND	15.0	ND	10.0	300.0
GP-32	68-70	ND	ND	ND	32.0	48.0	220.0	ND	46.0	2200.0
GP-33	68-70	ND	ND	ND	ND	ND	ND	ND	ND	4.4
GP-35	68-70	ND	9.9	ND	7.2	5.8	67.0	ND	20.0	19.0
GP-36	68-70	ND	ND	ND	1.1	2.8	5.5	ND	7.8	ND
GP-37	68-70	ND	ND	ND	ND	2.0	ND	ND	6.3	4.4
GP-38	66-68	ND	22.0	ND	33.0	26.0	160.0	ND	43.0	65.0
GP-39	61-63	ND	7.8	ND	20.0	39.0	69.0	ND	32.0	85.0
GP-41	68-70	ND	ND	ND	ND	ND	2.2	ND	ND	ND
GP-42	65-67	ND	ND	ND	1.1	ND	3.0	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 65-75 ft 10/12/94 10:57:51 AM

S-IE2

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

5-1F

All data in µg/l.
 ND - Not detected.
 BQL - Below the quantitation limit.
 Disk No.: HS4948 NC-DATA XLS 65-75 10/10/94 4:10:38 PM

TABLE 5-7 (Page 1 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

65 - 75 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene
P-1	73-75	ND	ND	ND	ND	ND	ND
P-2	73-75	ND	ND	ND	ND	ND	ND
GP-1	68-70	ND	ND	ND	ND	ND	ND
GP-2	66-68	ND	ND	ND	ND	ND	ND
GP-3	70-72	ND	ND	ND	ND	ND	ND
GP-4	73-75	ND	ND	ND	ND	ND	ND
GP-5	68-70	ND	ND	ND	ND	ND	ND
GP-6	72-74	ND	ND	ND	ND	ND	ND
GP-7	72-74	ND	ND	ND	ND	ND	ND
GP-8	69-71	ND	ND	ND	ND	ND	ND
GP-9	66-68	ND	ND	ND	ND	ND	ND
GP-10	65-67	ND	ND	ND	ND	ND	ND
GP-11	65-67	ND	ND	ND	ND	1.6	ND
GP-12	68-70	ND	ND	ND	ND	ND	ND
GP-13	70-72	ND	ND	ND	ND	ND	ND
GP-14	66-68	ND	ND	ND	ND	ND	ND
GP-15	68-70	ND	ND	ND	ND	ND	ND
GP-16	65-67	ND	ND	ND	ND	ND	ND
GP-17	72-74	ND	4.5	ND	ND	ND	ND
GP-18	68-70	ND	ND	ND	ND	ND	ND
GP-19	68-70	ND	ND	ND	ND	ND	ND
GP-20	68-70	ND	ND	ND	ND	ND	ND
GP-21	68-70	ND	ND	ND	ND	ND	ND
GP-22	68-70	ND	11.0	ND	3.7	44.0	23.0
GP-23	68-70	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD:DATA.XLS Geoprobe 65-75 ft 10/12/94 10:57:51 AM

TABLE 5-7 (Page 2 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

65 - 75 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene
GP-24	68-70	19.0	ND	ND	ND	2.0	31.0
GP-25	68-70	ND	ND	ND	ND	ND	ND
GP-26	68-70	ND	ND	ND	ND	ND	ND
GP-27	68-70	ND	ND	ND	ND	ND	ND
GP-28	70-72	ND	ND	ND	ND	1.2	ND
GP-29	68-70	ND	ND	ND	ND	ND	ND
GP-30	68-70	ND	ND	ND	ND	ND	ND
GP-31	68-70	ND	ND	ND	ND	ND	ND
GP-32	68-70	ND	ND	ND	ND	ND	ND
GP-33	68-70	ND	ND	ND	ND	ND	ND
GP-35	68-70	ND	ND	ND	ND	ND	ND
GP-36	68-70	ND	ND	ND	ND	ND	ND
GP-37	68-70	2.5	ND	ND	ND	ND	ND
GP-38	66-68	ND	ND	ND	ND	ND	ND
GP-39	61-63	ND	ND	ND	ND	ND	ND
GP-41	68-70	ND	ND	ND	ND	ND	ND
GP-42	65-67	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 65-75 ft 10/12/94 10:57:51 AM

TABLE 5-8

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

65 - 75 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-43	65-67	ND	ND	ND	ND	ND	ND	-	-	-
GP-117	73-75	ND	ND	ND	ND	ND	ND	-	-	-

All data in µg/l.

"- " - Isomers of dichlorobenzene were not analyzed for due to the absence of chlorobenzene.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA XLS 65-75 10/10/94 4:14:37 PM

TABLE 5-9 (Page 1 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

75 - 85 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCF	PCF
GP-5	78-80	ND	8.7	ND	8.0	4.6	26.0	ND	6.6	34.0
GP-6	82-84	ND	92.0	ND	24.0	2.0	460.0	1.7	5.5	50.0
GP-7	82-84	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-8	79-81	ND	ND	ND	ND	ND	1.2	ND	ND	ND
GP-9	78-80	ND	ND	ND	ND	ND	ND	ND	1.4	40.0
GP-10	75-77	ND	770.0	ND	150.0	19.0	2700.0	9.6	110.0	110.0
GP-11	75-77	ND	66.0	ND	58.0	2.6	260.0	ND	48.0	12.6
GP-12	76-78	ND	990.0	4.8	380.0	130.0	2100.0	3.2	1100.0	140.0
GP-15	78-80	ND	290.0	1.9	16.0	72.0	140.0	3.5	1500.0	150.0
GP-16	75-77	ND	ND	ND	6.6	3.1	1.1	ND	35.0	3.6
GP-17	82-84	ND	2.9	ND	10.0	23.0	10.0	ND	5.0	54.0
GP-18	78-80	ND	ND	ND	ND	ND	1.9	ND	ND	20.0
GP-19	78-80	ND	ND	ND	ND	2.8	2.6	ND	1.5	29.0
GP-20	78-80	ND	ND	ND	ND	35.0	5.2	ND	330.0	49.0
GP-21	78-80	ND	ND	ND	ND	ND	ND	ND	ND	5.9
GP-22	78-80	ND	ND	ND	ND	20.0	ND	ND	130.0	530.0
GP-23	78-80	ND	13.0	ND	ND	ND	80.0	ND	35.0	74.0
GP-24	78-80	430.0	ND	ND	ND	1800.0	ND	ND	31.0	ND
GP-25	78-80	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-26	78-80	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-29	78-80	ND	ND	ND	11.0	ND	6.4	ND	ND	3.3
GP-30	78-80	ND	ND	ND	1300.0	ND	970.0	ND	ND	ND
GP-31	78-80	ND	ND	ND	ND	ND	12.0	ND	13.0	140.0

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 75-85 ft 10/10/94 4:19:32 PM

TABLE 5-9 (Page 2 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

75 - 85 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
GP-32	78-80	ND	ND	ND	110.0	ND	830.0	ND	13.0	2500
GP-33	78-80	ND	ND	ND	ND	ND	ND	ND	ND	3.6
GP-34	78-80	ND	ND	ND	ND	ND	ND	ND	ND	4.3
GP-36	78-80	ND	ND	ND	ND	ND	13.0	ND	8.2	ND
GP-37	78-80	ND	ND	ND	ND	6.3	ND	ND	2.3	ND
GP-38	76-78	ND	15.0	ND	29.0	24.0	140.0	ND	33.0	21.0
GP-41	78-80	ND	ND	ND	ND	ND	2.6	ND	ND	ND
GP-42	75-77	ND	ND	ND	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 75-85 ft 10/10/94 4:19:32 PM

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TABLE 5-10 (Page 1 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
GP-43	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-44	83-85	ND	15.0	ND	ND	7.0	4.8	17.0	ND	ND	9.7	14.0
GP-45	83-85	ND	3.9	ND	ND	7.6	2.2	11.0	ND	ND	6.2	14.0
GP-50	83-85	ND	2.5	ND	ND	1.5	1.4	3.1	ND	ND	14.0	4.2
GP-51	78-80	ND	160.0	ND	1.0	19.0	86.0	72.0	2.3	6.1	2600.0	100.0
GP-53	76-78	ND	ND	ND	ND	12	ND	34	ND	ND	13	25
GP-55	77-79	ND	760 E	ND	ND	110	13	2300 E	ND	ND	130	200
GP-59	83-85	ND	BQL	ND	ND	ND	1.3	1.5	ND	ND	15.0	19.0
GP-61	83-85	ND	49 E	ND	ND	23.0	11.0	200 E	ND	BQL	87 E	92 E
GP-61	83-85	ND	63	ND	ND	23	14	280	ND	ND	108	108
GP-62	83-85	ND	ND	ND	ND	ND	ND	8	ND	ND	310	1400 E
GP-63	83-85	ND	ND	ND	ND	BQL	BQL	ND	ND	ND	2.1	8.5
GP-64	78-80	ND	ND	ND	ND	1.6	BQL	32.0	ND	ND	1.2	0.8
GP-65	83-85	ND	10.0	ND	ND	13.0	BQL	38.0	ND	ND	1.5	5.9
GP-68	83-85	ND	ND	ND	ND	BQL	ND	0.5	ND	BQL	1.2	BQL
GP-69	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BQL
GP-70	83-85	ND	ND	ND	ND	2.3	1.6	1.4	ND	ND	1.1	4.9
GP-72	83-85	ND	ND	ND	27	ND	2400	11	ND	ND	5900	83000
GP-73	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	BQL	21.0
GP-74	83-85	ND	ND	ND	ND	ND	BQL	17.0	ND	ND	8.0	300.0
GP-75	83-85	ND	45	ND	ND	61	ND	470	ND	ND	63	49
GP-80	83-85	ND	ND	ND	ND	7900	ND	9800	ND	ND	ND	ND
GP-81	83-85	ND	320	ND	ND	230	10	3000	ND	ND	BQL	140
GP-82	83-85	ND	59	ND	ND	10	ND	200	ND	ND	86	32
GP-84	83-85	ND	ND	ND	ND	BQL	ND	10	ND	ND	BQL	12
GP-86	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS 75-85 10/10/94 4:22:15 PM

TABLE 5-10 (Page 2 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)
75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride				Methylene chloride				Carbon tetrachloride				1,2-DCA	TCF	PCE
		1,1-DCE	1,1-DCA	1,2-t-DCE	1,1,1-TCA	1,1-DCE	1,1-DCA	1,2-t-DCE	1,1,1-TCA	1,1-DCE	1,1-DCA	1,2-t-DCE	1,1,1-TCA			
GP-87	83-85	66 E	ND	ND	ND	25.0	1.7	48 E	ND	ND	ND	ND	ND	ND	14.0	ND
GP-88	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BQL	2.2
GP-90	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8
GP-91	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-92	83-85	4.1	ND	ND	ND	7.3	13.0	38.0	ND	ND	ND	ND	ND	ND	5.0	21.0
GP-93	83-85	ND	ND	ND	ND	1.7	2.4	0.8	ND	ND	ND	ND	ND	ND	19.0	11.0
GP-94	83-85	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	15	170
GP-95	83-85	ND	ND	ND	ND	ND	23	28	ND	ND	ND	ND	ND	ND	1900	12000
GP-96	83-85	ND	ND	ND	ND	ND	26.0	1.4	ND	ND	ND	ND	ND	ND	7.1	0.8
GP-97	83-85	ND	ND	ND	ND	ND	4100	82	BQL	ND	ND	ND	ND	ND	5000	92000
GP-98	83-85	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND	2.1
GP-99	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	79
GP-102	83-85	21.0	ND	ND	ND	48 E	BQL	21.0	ND	ND	ND	ND	ND	ND	3.6	2.2
GP-105	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280	460
GP-106	83-85	ND	ND	ND	ND	ND	74	16	ND	ND	ND	ND	ND	ND	2000	2200
GP-107	83-85	1100	ND	ND	ND	140	12	2800	ND	ND	ND	ND	ND	ND	180	180
GP-113	83-85	70	ND	ND	ND	21	ND	270	ND	ND	ND	ND	ND	ND	44	18
GP-114	83-85	ND	ND	ND	ND	BQL	BQL	28	ND	ND	ND	ND	ND	ND	47	ND
GP-115	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BQL	ND
GP-116	83-85	ND	ND	ND	ND	ND	ND	50	ND	ND	ND	ND	ND	ND	ND	ND
GP-120	83-85	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND	ND	ND	ND	ND
GP-121	83-85	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND
GP-122	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-124	83-85	22.0	ND	ND	ND	3.1	1.3	45.0	ND	ND	ND	ND	ND	ND	27.0	16.0

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA XLS 75-85 10/09/94 4:22:15 PM

TABLE 5-11 (Page 1 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)
75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene
GP-5	78-80	ND	ND	ND	ND	1.6	ND
GP-6	82-84	ND	ND	ND	ND	ND	ND
GP-7	82-84	ND	ND	ND	ND	ND	ND
GP-8	79-81	ND	ND	ND	ND	ND	ND
GP-9	78-80	ND	ND	ND	ND	ND	ND
GP-10	75-77	ND	ND	ND	ND	ND	ND
GP-11	75-77	ND	ND	ND	ND	ND	ND
GP-12	76-78	ND	ND	ND	ND	ND	ND
GP-15	78-80	ND	ND	ND	ND	ND	ND
GP-16	75-77	ND	35.0	ND	ND	2.7	2.1
GP-17	82-84	ND	ND	ND	ND	ND	ND
GP-18	78-80	ND	ND	ND	ND	ND	ND
GP-19	78-80	ND	ND	ND	ND	ND	ND
GP-20	78-80	ND	ND	ND	ND	ND	ND
GP-21	78-80	ND	ND	ND	ND	ND	ND
GP-22	78-80	ND	32.0	ND	ND	120.0	60.0
GP-23	78-80	ND	ND	ND	ND	ND	ND
GP-24	78-80	ND	ND	ND	ND	ND	ND
GP-25	78-80	ND	ND	ND	ND	ND	ND
GP-26	78-80	ND	ND	ND	ND	ND	ND
GP-29	78-80	ND	ND	ND	ND	ND	ND
GP-30	78-80	ND	ND	ND	ND	ND	ND
GP-31	78-80	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 75-85 ft 10/10/94 4:17:19 PM

TABLE 5-11 (Page 2 of 2)

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene
GP-32	78-80	ND	ND	ND	ND	ND	ND
GP-33	78-80	ND	ND	ND	ND	ND	ND
GP-34	78-80	7.8	ND	ND	6.0	15.0	44.0
GP-36	78-80	ND	ND	ND	ND	ND	ND
GP-37	78-80	6.3	ND	ND	ND	ND	ND
GP-38	76-78	ND	ND	ND	ND	ND	ND
GP-41	78-80	ND	ND	ND	ND	ND	ND
GP-42	75-77	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 75-85 ft 10/10/94 4:17:19 PM

S-1K2

TABLE 5-12 (Page 1 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)
75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-43	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-44	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-45	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-50	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-51	78-80	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-53	76-78	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-55	77-79	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-59	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-61	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-61	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-62	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-63	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-64	78-80	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-65	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-68	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-69	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-70	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-72	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-73	83-85	BQL	9.2	ND	BQL	21.0	7.3	ND	ND	ND
GP-74	83-85	ND	2.3	ND	ND	3.7	1.1	ND	ND	ND
GP-75	83-85	ND	ND	ND	ND	BQL	BQL	ND	ND	ND

All data in µg/l.

" - Isomers of dichlorobenzene were not analyzed for due to the absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

TABLE 5-12 (Page 2 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

75 - 85 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-80	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-81	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-82	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-84	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-86	83-85	ND	BQL	ND	ND	5.1	2.3	ND	ND	ND
GP-87	83-85	ND	2.0	ND	ND	3.5	BQL	ND	ND	ND
GP-88	83-85	ND	2.7	ND	ND	4.9	BQL	ND	ND	ND
GP-90	83-85	ND	2.6	ND	ND	8.3	2.9	ND	ND	ND
GP-91	83-85	ND	2.3	ND	ND	3.4	BQL	ND	ND	ND
GP-92	83-85	ND	2.9	ND	ND	2.9	ND	ND	ND	ND
GP-93	83-85	ND	2.0	ND	ND	2.2	BQL	ND	ND	ND
GP-94	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-95	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-96	83-85	ND	BQL	ND	ND	2.2	BQL	ND	ND	ND
GP-97	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-98	83-85	ND	ND	ND	ND	BQL	BQL	ND	ND	ND
GP-99	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-102	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-105	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-106	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-107	83-85	ND	ND	ND	ND	ND	ND	ND	ND	ND

All data in $\mu\text{g/l}$.

"-" - Isomers of dichlorobenzene were not analyzed for due to the absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

TABLE 5-12 (Page 3 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

75 - 85 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-113	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-114	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-115	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-116	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-120	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-121	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-122	83-85	ND	ND	ND	ND	ND	ND	.	.	.
GP-124	83-85	ND	ND	ND	ND	ND	ND	.	.	.

All data in µg/l.

"-." - Isomers of dichlorobenzene were not analyzed for due to the absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

TABLE 5-13

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)
85 - 95 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
GP-4	85-87	ND	ND	ND	7.1	ND	9.3	ND	4.2	7.4
GP-9	88-90	ND	ND	ND	ND	ND	ND	ND	1.3	65.0
GP-10	85-87	ND	280.0	ND	93.0	18.0	900.0	4.8	150.0	62.0
GP-11	85-87	ND	25.0	ND	98.0	1.7	146.0	ND	38.0	14.0
GP-13	87-89	ND	2.2	ND	5.1	ND	2.3	ND	2.2	7.8
GP-15	88-90	ND	4.0	ND	ND	ND	8.3	ND	10.0	11.0
GP-16	85-87	ND	ND	ND	ND	ND	5.1	ND	86.0	ND
GP-18	88-90	ND	ND	ND	ND	ND	2.0	ND	8.3	40.0
GP-19	88-90	ND	ND	ND	ND	4.8	3.1	ND	2000.0	150.0
GP-20	88-90	ND	ND	ND	ND	9.6	ND	ND	ND	1.2
GP-21	88-89	ND	ND	ND	ND	11.0	ND	ND	17.0	46.0
GP-22	88-90	ND	ND	ND	ND	1.3	3.6	ND	49.0	21.0
GP-23	88-90	ND	ND	ND	ND	700.0	ND	ND	ND	ND
GP-24	88-90	1000.0	ND	ND	ND	ND	ND	ND	ND	ND
GP-25	88-90	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-26	88-90	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-27	88-90	ND	ND	ND	ND	5.8	5.4	ND	26.0	28.0
GP-30	86-88	ND	14.0	ND	220.0	8.5	150.0	ND	3.4	25.0
GP-31	88-90	ND	ND	ND	ND	ND	15.0	ND	48.0	21.0
GP-32	88-90	ND	190.0	ND	180.0	4.6	2300.0	7.5	32.0	5300.0
GP-33	88-90	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-34	88-90	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-36	88-90	ND	ND	ND	ND	ND	1.1	ND	ND	2.2
GP-37	88-90	ND	ND	ND	1.1	ND	ND	ND	ND	1.4

5-1M

All data in µg/l.
 ND - Not detected.
 Disk No.: HS4846 OLD-ATA.XLS Geoprobe 85-95 ft 10/10/94 4:28:46 PM

TABLE 5-14

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

85 - 95 ft Range
New Cassel Industrial Area

NT-S	Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
	GP-107	90-92	ND	520	ND	ND	110	17	1300	ND	BQL	180	120

All data in µg/l.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS 85-95 10/11/94 7:57:02 AM

TABLE 5-15

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

85 - 95 ft Range

New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene
GP-4	85-87	ND	ND	ND	ND	ND	ND
GP-9	88-90	ND	ND	ND	ND	ND	ND
GP-10	85-87	ND	ND	ND	ND	ND	ND
GP-11	85-87	ND	ND	ND	ND	1.6	ND
GP-13	87-89	ND	ND	ND	ND	ND	ND
GP-15	88-90	ND	ND	ND	ND	ND	ND
GP-16	85-87	ND	ND	ND	ND	ND	ND
GP-18	88-90	ND	ND	ND	ND	ND	ND
GP-19	88-90	ND	ND	ND	ND	ND	ND
GP-20	88-90	ND	ND	ND	ND	1.1	ND
GP-21	88-89	ND	ND	ND	ND	ND	ND
GP-22	88-90	ND	35.0	ND	9.0	120.0	58.0
GP-23	88-90	ND	ND	ND	ND	ND	ND
GP-24	88-90	ND	ND	ND	ND	ND	ND
GP-25	88-90	ND	ND	ND	ND	ND	ND
GP-26	88-90	ND	ND	ND	ND	ND	ND
GP-27	88-90	ND	ND	ND	ND	ND	ND
GP-30	86-88	ND	ND	ND	ND	ND	ND
GP-31	88-90	ND	ND	ND	ND	ND	ND
GP-32	88-90	ND	ND	ND	ND	ND	ND
GP-33	88-90	ND	ND	ND	ND	ND	ND
GP-34	88-90	ND	ND	ND	ND	ND	1.1
GP-36	88-90	ND	ND	ND	ND	ND	ND
GP-37	88-90	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Geoprobe 85-95 ft 10/10/94 4:28:46 PM

TABLE 5-16

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)
85 - 95 ft Range
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-107	90-92	ND	ND	ND	ND	ND	ND	ND	ND	ND

All data in µg/l.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS 85-95 10/10/94 4:35:20 PM

TABLE 5-17

GEOPROBE DATA SUMMARY (OCTOBER 1993)

Additional Monitoring Well Data
New Cassel Industrial Area

Sample Point I.D.	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
GRAYCO MW-3	ND	ND	ND	ND	ND	10.4	ND	ND	1.6
LONI-JO MW-1	ND	ND	1.2	1.8	94.0	1.9	ND	17.0	86.0
AIMW-70 STATE-D	ND	10.0	ND	2.3	ND	11.0	ND	1.5	ND
AIMW-656 MAIN-U	ND	ND	ND	2.1	ND	23.0	ND	3.0	1.3
AIMW-656 MAIN-D	ND	48.0	ND	110.0	17.0	840.0	ND	20.0	32.0
AIMW-670 MAIN-D	ND	64.0	ND	45.0	35.0	720.0	40.0	56.0	360.0
ANSON MW-9	ND	ND	ND	ND	ND	7.6	ND	ND	ND
N-9938	ND	ND	ND	10.0	ND	210.0	ND	21.0	27.0
NC-24	ND	ND	ND	10,000.0	ND	79,000.0	ND	ND	ND

All data in $\mu\text{g/l}$.

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS Add'l Monitoring Well Data 10/11/94 7:59:11 AM

TABLE 5-18

GEOPROBE DATA SUMMARY (JUNE & JULY 1994)

Additional Monitoring Well Data

New Cassel Industrial Area

Sample Point I.D.	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
DOAK MW-1	ND	25.9	ND	ND	BQL	BQL	134	ND	ND	14	63.0
DOAK MW-2	ND	57.0	ND	ND	88	12	490	ND	ND	30	42
NC-24	ND	ND	ND	ND	14,000	ND	45,000 E	ND	ND	ND	ND

Sample Point I.D.	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
DOAK MW-1	ND	ND	ND	ND	ND	ND	.	.	.
DOAK MW-2	ND	ND	ND	ND	ND	ND	.	.	.
NC-24	ND	ND	ND	ND	ND	ND	.	.	.

All data in µg/l.

"." - Isomers of dichlorobenzene were not analyzed for due to absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

S-1R

TABLE 5-19

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)

Soil Sample Results
New Cassel Industrial Area

SI-5

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
SGP-1	53-55	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-1	60-62	ND	ND	ND	ND	ND	3.8	ND	ND	7.4
SGP-2	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-7	46-48	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-9	45-47	ND	ND	ND	ND	ND	ND	ND	ND	13.1
SGP-10	45-47	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-11	50-52	ND	16.8	ND	15.0	ND	110.2	ND	ND	ND
SGP-13	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-14	50-52	ND	ND	ND	ND	2.5	ND	ND	ND	ND
SGP-15	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-17	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-18	53-55	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-19	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-20	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-22	49-51	ND	ND	ND	ND	1100.0	92.0	ND	460.0	170.0
SGP-23	49-51	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-25	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-32	53-55	ND	ND	ND	ND	ND	ND	ND	ND	4.6

All data in µg/kg.

"S" Added to sample point I.D. for clarity, original lab data reports these as GP-# (depth).

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS GP Soil Sample Results 1/11/95 8:52:49 AM

TABLE 5-20 (Page 1 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-d-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
SGP-43	10-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-43	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-44	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-44	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-45	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-45	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-46	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-47	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-48	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
SGP-49	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-51	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-52	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-54	17-19	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	0.5
SGP-55	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-59	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3
SGP-60	10-21	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND
SGP-66	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-66	40-42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-66	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-67	16-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-67	24-26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	40-42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-71	15-17	ND	ND	19.0	ND	3.3	ND	9.2	ND	ND	1.0	19.0
SGP-71	20-22	ND	ND	12.0	ND	2.6	ND	3.4	ND	ND	1.4	32.0
SGP-76	17-19	ND	ND	1500 E	ND	350.0	ND	9.7	ND	ND	ND	ND
SGP-76	27-29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-77	17-19	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
SGP-77	27-29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-78	47-49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-79	17-19	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	BQL

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Soils 1/11/95 8:57:26 AM

TABLE 5-19

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (OCTOBER 1993)
Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Vinyl chloride	1,1-DCE	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	1,2-DCA	TCE	PCE
SGP-1	53-55	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-1	60-62	ND	ND	ND	ND	ND	3.8	ND	ND	7.4
SGP-2	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-7	46-48	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-9	45-47	ND	ND	ND	ND	ND	ND	ND	ND	13.1
SGP-10	45-47	ND	ND	ND	ND	ND	110.2	ND	ND	ND
SGP-11	50-52	ND	16.8	ND	15.0	ND	ND	ND	ND	ND
SGP-13	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-14	50-52	ND	ND	ND	ND	2.5	ND	ND	ND	ND
SGP-15	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-17	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-18	53-55	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-19	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-20	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-22	49-51	ND	ND	ND	ND	1100.0	92.0	ND	460.0	170.0
SGP-23	49-51	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-25	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-32	53-55	ND	ND	ND	ND	ND	ND	ND	ND	4.6

All data in µg/kg.

"S" Added to sample point I.D. for clarity, original lab data reports these as GP-# (depth).

ND - Not detected.

Disk No.: HS4948 OLD-DATA.XLS GP Soil Sample Results 1/11/95 8:52:49 AM

TABLE 5-20 (Page 1 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
SGP-43	10-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-43	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-44	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-44	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-45	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-45	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-46	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-47	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-48	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4
SGP-49	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-51	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-52	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-54	17-19	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	0.5
SGP-55	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-59	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3
SGP-60	10-21	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND
SGP-66	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-66	40-42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-66	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-67	16-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-67	24-26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	40-42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-68	55-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-71	15-17	ND	ND	19.0	ND	3.3	ND	9.2	ND	ND	1.0	19.0
SGP-71	20-22	ND	ND	12.0	ND	2.6	ND	3.4	ND	ND	1.4	32.0
SGP-76	17-19	ND	ND	1500 E	ND	350.0	ND	9.7	ND	ND	ND	ND
SGP-76	27-29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-77	17-19	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
SGP-77	27-29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-78	47-49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-79	17-19	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	BQL

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Soils 1/11/95 8:57:26 AM

TABLE 5-20 (Page 2 of 2)

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-d-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
SGP-79	27-29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-80	25-27	ND	ND	ND	ND	4.5	ND	1.6	ND	ND	ND	ND
SGP-80	50-52	ND	ND	ND	ND	7.6	ND	68 E	ND	ND	ND	ND
SGP-81	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-81	47-49	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND
SGP-82	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-83	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-86	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-86	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-88	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-88	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-89	19-21	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	0.8
SGP-90	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-91	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-93	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-94	24-26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-95	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-97	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-97	50-52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
SGP-100	17-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-101	17-19	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	0.6
SGP-101	25-27	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND
SGP-103	13-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
SGP-103	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-104	17-19	ND	ND	ND	ND	ND	ND	4.0	ND	ND	ND	37.0
SGP-104	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-108	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-109	20-22	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	0.7
SGP-118	3-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-119	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-123	17-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Date 1/11/95 8:57:28 AM

5-172

TABLE 5-21

GEOPROBE BTEX DATA SUMMARY (OCTOBER 1993)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth (ft)	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-p-Xylene	o-Xylene
SGP-1	53-55	ND	ND	ND	ND	ND	ND
SGP-1	60-62	ND	ND	ND	ND	ND	ND
SGP-2	55-57	ND	ND	ND	ND	ND	ND
SGP-7	46-48	ND	ND	ND	ND	ND	ND
SGP-9	45-47	ND	ND	ND	ND	ND	ND
SGP-10	45-47	ND	ND	ND	ND	ND	ND
SGP-11	50-52	ND	ND	ND	ND	ND	ND
SGP-13	50-52	ND	ND	ND	ND	ND	ND
SGP-14	50-52	ND	ND	ND	ND	ND	ND
SGP-15	50-52	ND	ND	ND	ND	ND	ND
SGP-17	50-52	ND	ND	ND	ND	ND	ND
SGP-18	53-55	ND	ND	ND	ND	ND	ND
SGP-19	50-52	ND	ND	ND	ND	ND	ND
SGP-20	50-52	ND	ND	ND	ND	ND	ND
SGP-22	49-51	ND	7000.0	230.0	1400.0	45,000.0	32,000.0
SGP-23	49-51	ND	ND	ND	ND	ND	ND
SGP-25	50-52	ND	ND	ND	ND	ND	ND
SGP-32	53-55	ND	ND	ND	ND	ND	ND

All data in µg/kg.

"S" Added to sample point I.D. for clarity; original lab data reports these as GP-# (depth).

ND - Not detected.

Disk No.: HS4946 OLD-DATA.XLS GP Soil Sample Results 1/11/95 8:52:49 AM

TABLE 5-22 (Page 1 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
SGP-43	10-12	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-43	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-44	14-16	ND	ND	ND	ND	ND	ND	.	.	.
SGP-44	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-45	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-45	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-46	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-47	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-48	8-10	ND	2.4	ND	ND	6.0	4.6	.	.	.
SGP-49	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-51	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-52	25-27	ND	ND	ND	ND	2.6	1.2	ND	ND	ND
SGP-54	17-19	ND	ND	ND	ND	3.3	11.0	.	.	.
SGP-55	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-59	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-60	10-21	ND	ND	ND	ND	2.2	1.3	.	.	.
SGP-66	20-22	ND	ND	ND	ND	ND	ND	.	.	.
SGP-66	40-42	ND	ND	ND	ND	ND	ND	.	.	.
SGP-66	55-57	ND	ND	ND	ND	ND	ND	.	.	.
SGP-67	16-18	ND	ND	ND	ND	ND	ND	.	.	.
SGP-67	24-26	ND	ND	ND	ND	ND	ND	.	.	.
SGP-68	20-22	ND	ND	ND	ND	ND	ND	.	.	.
SGP-68	40-42	ND	ND	ND	ND	ND	ND	.	.	.
SGP-68	55-57	ND	ND	ND	ND	ND	ND	.	.	.
SGP-71	15-17	ND	ND	ND	ND	11.0	5.9	.	.	.
SGP-71	20-22	ND	3.1	ND	2.4	31.0	17.0	.	.	.
SGP-76	17-19	ND	180.0	ND	470.0	4400 E	550 E	.	.	.
SGP-76	27-29	ND	BQL	ND	44.0	570 E	220.0	.	.	.

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Soils 1/11/95 8:57:26 AM

TABLE 5-22 (Page 2 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)
Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
SGP-77	17-19	ND	6.1	ND	ND	10.0	4.7	.	.	.
SGP-77	27-29	ND	ND	ND	ND	2.4	1.3	.	.	.
SGP-78	47-49	ND	ND	ND	ND	1.9	BQL	.	.	.
SGP-79	17-19	ND	10.0	ND	ND	6.6	2.9	.	.	.
SGP-79	27-29	ND	BQL	ND	ND	3.2	1.6	.	.	.
SGP-80	25-27	ND	ND	ND	ND	1.9	1.1	.	.	.
SGP-80	50-52	ND	ND	ND	ND	ND	ND	.	.	.
SGP-81	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-81	47-49	ND	ND	ND	ND	1.5	ND	.	.	.
SGP-82	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-83	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-86	25-27	ND	ND	ND	ND	2.9	1.7	.	.	.
SGP-86	50-52	ND	ND	ND	ND	ND	ND	.	.	.
SGP-88	25-27	ND	ND	ND	ND	ND	ND	.	.	.
SGP-88	50-52	ND	ND	ND	ND	ND	ND	.	.	.
SGP-89	19-21	ND	ND	ND	ND	2.7	ND	ND	ND	ND
SGP-90	25-27	ND	BQL	ND	ND	2.1	BQL	ND	ND	ND
SGP-91	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-93	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-94	24-26	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-95	25-27	ND	ND	ND	ND	2.1	BQL	ND	ND	ND
SGP-97	25-27	ND	BQL	ND	ND	3.7	BQL	ND	ND	ND
SGP-97	50-52	ND	ND	ND	ND	BQL	ND	ND	ND	ND
SGP-100	17-19	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-101	17-19	ND	ND	ND	ND	ND	ND	ND	BQL	ND
SGP-101	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-103	13-16	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-103	25-27	ND	ND	ND	ND	ND	ND	ND	ND	ND

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Soils 1/11/95 8:57:28 AM

TABLE 5-22 (Page 3 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

Soil Sample Results
New Cassel Industrial Area

Sample Point I.D.	Actual Sample Depth	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
SGP-104	17-19	ND	ND	ND	ND	5.2	2.7	ND	ND	ND
SGP-104	25-27	.	ND	ND	ND	ND	ND	ND	ND	ND
SGP-108	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-109	20-22	ND	ND	ND	ND	ND	ND	ND	ND	ND
SGP-118	3-4	ND	ND	ND	ND	ND	ND	.	.	.
SGP-119	12-14	ND	ND	ND	ND	ND	ND	.	.	.
SGP-123	17-19	ND	ND	ND	ND	ND	ND	.	.	.

S-1V3

All data in µg/kg

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: NC-DATA.XLS Soils 1/11/95 8:57:28 AM

TABLE 5-23

GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994)

Surface Water Sample Results

New Cassel Industrial Area

Sample Point I.D.	Methylene chloride							Carbon tetrachloride			
	Vinyl chloride	1,1-DCE	1,2-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA		1,2-DCA	TCE	PCE	
GP-60	ND	BQL	ND	ND	ND	ND	ND	ND	ND	ND	ND
GP-71 LONI JO	ND	ND	470	3.0	1.3	ND	1.4	ND	ND	2.0	1.8
GP-76	ND	ND	22	ND	380	ND	150	ND	ND	ND	5
GP-77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
GP-79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
GP-111	ND	ND	ND	ND	60	BQL	320	ND	ND	18	29

All data in µg/l.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4948 NC-DATA XLS Surface waters 10/11/94 8:29:33 AM

TABLE 5-24

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)

Surface Water Sample Results
New Cassel Industrial Area

Sample Point I.D.	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-p-Xylene	o-Xylene	m-Dichlorobenzene	p-Dichlorobenzene	o-Dichlorobenzene
GP-60	ND	ND	ND	ND	ND	ND	.	.	.
GP-71 LONI JO	ND	ND	ND	ND	230	200	.	.	.
GP-76	ND	28	ND	BQL	120	16	.	.	.
GP-77	ND	26	ND	ND	ND	ND	.	.	.
GP-79	ND	ND	ND	ND	ND	ND	.	.	.
GP-111	ND	ND	ND	ND	ND	ND	.	.	.

All data in µg/l.

"." - Isomers of dichlorobenzene were not analyzed for due to absence of chlorobenzene.

E - Estimated concentration; exceeds GC/MS calibration range.

ND - Not detected.

BQL - Below the quantitation limit.

TABLE 5-25 (Page 1 of 2)

TOTAL LEAD AND CHROMIUM RESULTS (OCTOBER 1993)¹

New Cassel Industrial Area

NYSDEC I.D. No. 130043

PARAMETER	GP-13 (70'-72')	GP-16 (65'-67')	GP-19 (78'-80')	GP-20 (78'-80')	GP-21 (80')	GP-22 (78'-80')	GP-23 (78'-80')	GP-25 (78'-80')	NYSDEC CLASS GA STANDARD
TAL METALS (ug/l)									
Chromium	275	2,900	406	305	123	371	84.9	87.9	50.0
Lead	9.20	58.0	43.4	30.6	19.5	28.5	19.4	21.0	25.0
TOTAL SUSPENDED SOLIDS (mg/l)	5,530	17,200	13,400	9,600	3,280	5,260	5,010	7,330	-

¹ - Analyses were performed on unfiltered samples.

5-1Y1

TABLE 5-25 (Page 2 of 2)

TOTAL LEAD AND CHROMIUM RESULTS (OCTOBER 1993)¹

New Cassel Industrial Area

NYSDEC I.D. No. 130043

PARAMETER	GP-29 (78'-80')	GP-33 (78'-80')	GP-36 (78'-80')	GP-37 (78'-80')	LONI-JO MW-1	ANSON MW-2	NC-14	N-9938	NYSDEC CLASS GA STANDARD
TAL METALS (ug/l)									
Chromium	402	1,630	269	4,190	12.0	<10.0	10.0	534	50.0
Lead	39.8	298	17.9	88.8	9.80	5.9	6.7	42.6	25.0
TOTAL SUSPENDED SOLIDS (mg/l)	13,900	30,800	7,100	12,800	1,020	552	1,280	144	-

¹ - Analyses were performed on unfiltered samples.

S-1Y2

TABLE 5-26

TOTAL CHROMIUM RESULTS (JULY 1994)¹

New Cassel Industrial Area
NYSDEC I.D. No. 130043

PARAMETER	GP-61 (83-85 ft)		GP-63 (83-85 ft)		GP-88 (83-85 ft)		GP-93 (83-85 ft)		GP-113 (63-65 ft)		NYSDEC CLASS GA STANDARD
	UNFILTERED	FILTERED	UNFILTERED	FILTERED	UNFILTERED	FILTERED	UNFILTERED	FILTERED	UNFILTERED	FILTERED	
TAL METALS (ug/l)											
Chromium	44.1	ND	444	ND	139	3.9 B	93.5	4.6 B	303.0	ND	50.0
TOTAL SUSPENDED SOLIDS (mg/l)	13,500*		4,040		1,990		9,060		4,800		-

* - Total suspended solids were measured at a depth of 78 to 80 ft.

1 - Analyses were performed on both filtered and unfiltered samples.

5-12

TABLE 5-27 (Page 1 of 2)

RESULTS OF SAMPLE SPLITS
PHASE I GROUNDWATER PROBE INVESTIGATION (18 OCT - 12 NOV 1993)
 New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER (µg/l)	GP-16 75'-77'		GP-17 72'-74'		GP-22 68'-70'	
	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB
1,1-DCA	5 j	6.6	4 j	4.1	0.7 j	ND
1,2-DCA	ND	ND	ND	ND	ND	ND
1,1-DCE	ND	ND	1 j	1.6	ND	ND
1,2-DCE	3 j	3.1	21	20.0	10	13.0
1,1,1-TCA	ND	1.1	2 j	2.1	ND	ND
TCE	44	35.0	4 j	4.3	10	11.0
PCE	3 j	3.6	57	77	36	50.0

PARAMETER (µg/l)	GP-38 76'-78'		N-9938		NC-24	
	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB
1,1-DCA	33	29.0	11	10.0	680 E	10,000.0
1,2-DCA	ND	ND	6 j	ND	ND	ND
1,1-DCE	20	15.0	30	ND	1,500 E	ND
1,2-DCE	25	24.0	1 j	ND	490 E	ND
1,1,1-TCA	130	140.0	180	210.0	2,700 E	79,000.0
TCE	46	33.0	20	21.0	2 j	ND
PCE	46	21.0	24	27.0	5 j	ND

j - Estimated concentration; compound present below quantitation limit.
 E - Value estimated due to interference.
 ND - Not detected at analytical detection limit.

TABLE 5-27 (Page 2 of 2)

RESULTS OF SAMPLE SPLITS
PHASE II GROUNDWATER PROBE INVESTIGATION (28 JUN - 28 JUL 1994)
 New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER (µg/l)	GP-97 63'-85'		GP-97 83'-85'		GP-114 83'-85'		GP-111 (SW)	
	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB	BASE LAB	MOBILE LAB
Methylene chloride	ND	ND	ND	ND	3 j	ND	ND	ND
1,1-DCA	ND	ND	ND	ND	7 j	BQL	64	60
1,2-DCA	ND	ND	ND	ND	ND	BQL	ND	ND
Chloroform	640 j	ND	560 j	ND	ND	ND	ND	ND
1,1-DCE	ND	ND	ND	ND	8 j	ND	5 j	ND
1,2-DCE (total)	4,800 j	3,600	4,500 j	4,100	6 j	ND	6 j	BQL
1,1,1-TCA	ND	57	ND	82	28	28	340	320
TCE	4,100	3,700	4,900	5,000	45	47	17 j	18
PCE	50,000	46,000 e	75,000	92,000	ND	ND	25	29

j - Estimated concentration; compound present below quantitation limit.
 e - Estimated concentration; exceeds GC/MS calibration range.
 ND - Not detected at analytical detection limit.

5-1AA2

TABLE 5-28

TRIP BLANK DATA SUMMARY (JUNE & JULY 1994)
New Cassel Industrial Area

Sample Point I.D.	Vinyl chloride	1,1-DCE	Methylene chloride	1,2-t-DCE	1,1-DCA	1,2-c-DCE	1,1,1-TCA	Carbon tetrachloride	1,2-DCA	TCE	PCE
Trip Blank 1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank 3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample Point I.D.	Benzene	Toluene	Chlorobenzene	Ethylbenzene	m-,p-Xylene	o-Xylene	m-Dichlorobenzene
Trip Blank 1	BQL	4.623	ND	ND	4.7902	2.9692	ND
Trip Blank 2	ND	4.2152	ND	ND	4.365	2.7512	ND
Trip Blank 3	ND	ND	ND	ND	ND	ND	ND

All Data in $\mu\text{g/l}$.

ND - Not detected.

BQL - Below the quantitation limit.

Disk No.: HS4946 NC-DATA.XLS Trip Blanks 1/11/95 9:04:32 AM

S-1BB

except for sample NC-24. Analytical results from both laboratories, however, indicate that the sample was extremely contaminated. The fairly high contaminant concentrations reported by the base laboratory for 1,1-dichloroethylene (DCE) and 1,2-DCE are possibly a result of overloading of the analytical instrument; no dilution of the sample was performed by the base lab. The mobile lab performed first a hundredfold dilution, then a thousandfold dilution of the sample before the results fell within the instrument's calibration range.

During the second phase of the Geoprobe investigation four groundwater samples were sent to IEA as a quality control measure. The results of the base laboratory analyses were in close agreement with those furnished by the mobile laboratory, as shown in Table 5-27.

Several trip blanks were taken during the second phase of the Geoprobe investigation. The results, presented in Table 5-28, indicate trace levels (several parts per billion) of xylenes had contaminated the sample vials or decontamination water. Low levels of xylenes in the actual samples are therefore suspect.

5.2 SITE INSPECTIONS

5.2.1 Eastern Section Property Inspections

The four properties inspected in the eastern section consisted of 89, 101, and 115 Frost Street and 776-790 Summa Avenue. All buildings and grounds at the Frost Street addresses were inspected; the 776-790 Summa Avenue inspection was limited to visual observations of the grounds as the current occupants refused access.

776-790 Summa Avenue. Three businesses occupy a single-story brick building that covers most of the property except a small fenced alley to the rear and sides of the building. The three businesses are NYCE, Tempus, and Liberty. What the companies do or how long they have been at this location was not provided by the current occupants; all questions asked were referred to their legal counsel. Although not confirmed, it appears one or more leach pools are located at the rear of the property.

115 Frost Street. A single-story brick building is occupied by five separate businesses (Appendix B, Photo 1). Except for a landscaping contractor who uses and stores petroleum products to fuel and maintain equipment, all are currently "dry" operations, i.e., use no chemicals. The building, originally constructed as an automobile service center, was reportedly never used for that purpose or used only for a short time. A leach pool or field noted under the pavement south of the building appears to receive roof runoff. GP-33, installed directly

downgradient of this location during the first phase of the Geoprobe investigation, was found to have only trace levels of chlorinated solvents. An UST was also found off the southwest corner of the building (Appendix B, Photo 2). Its capacity is unknown and the tank is empty, although it appears to have contained gasoline or a waste oil/gasoline mix.

101 Frost Street. Distribution Systems of America, Inc. (DSA), a dry operation that distributes and assembles newspaper inserts, occupies this property (Appendix B, Photo 3). The company has been on-site for at least two years and the occupants have no knowledge of former uses of the property. No floor drains were noted inside the building. Because of flooding problems in the parking lot to the rear of the building, DSA recently installed a series of stormwater drains and repaved the rear lot. These activities may have covered over evidence of old leach pools and destroyed ANSON-MW-7 as well, as it could not be located.

89 Frost Street. This property is occupied by Korg, Inc., a musical instrument supplier and distributor (Appendix B, Photo 3). Korg has been at its present location for approximately 12 years. The site was formerly a fabric manufacturing company that was destroyed by fire over 12 years ago. Korg does not use or store any chemicals, and no manufacturing is done at the site. A suspected leach pool was found in the alley between Korg and DSA along with a number of stormwater drains to the rear of the Korg building. No floor drains were noted in the Korg facility.

5.2.2 Central Section Properties

Site inspections were conducted at 22 properties in the central section of the industrial area (between Bond and Urban streets). This section has the largest concentration of what would be considered "traditional" manufacturing, in which a number of processes or operations are conducted to produce a product. Many of the processes or operations use or have historically used target compounds.

125 State Street. The property at 125 State Street is occupied by Tishcon Corporation, which leases the site (Appendix B, Photos 5 and 6). Most of the property is covered by a brick warehouse-type building in which Tishcon manufactures tablets used as dietary supplements and conducts a tablet-coating operation and warehousing. The Tishcon quality assurance officer reported that three leach pools noted near the southern property boundary had received process waters and the westernmost pool was currently being remediated with county assistance. Soils near the pools were stained by red and orange food coloring and had a strong sewage odor. Based on this information, several sampling locations were selected at 125 State Street.

95 and 97-99 State Street. Metpar Steel Products occupies this property (Appendix B, Photo 7). Metpar began production at 97 State Street in 1954 and added 99 State Street in 1961 followed by 95 State Street in 1977. The site has been hooked up to the county sewer since 1987. The site includes office space and sales, receiving, production, and shipping facilities. Metpar manufactures steel and formica metal partitions and doors. Production activities include fabrication, woodworking, assembly, finishing, and shipping. No degreasing or metal plating occurs at the site. Large volumes of adhesives, paints, and paint solvents are used as part of the process. Use of 1,1,1-trichlorethane (TCA) as a lubricant/cleaner on one of the machines was discontinued a year ago after three years of use in favor of an environmentally safe compound. There are no active leach pools at the site. Several suspected pools along the front of the building (State Street) were reported to be abandoned septic pools (Appendix B, Photo 8).

The main office of Arkwin Industries is located at 686 Main Street, between State Street and Brooklyn Avenue. Six of the eight buildings Arkwin owns in the industrial area were inspected as part of the property inspections: 686, 670, 662, 656, and 648 Main Street and 33 Sylvester Street.

686 Main Street. Arkwin uses the front of the building as office space; piston manufacturing, machining, degreasing and nondestructive testing are conducted to the rear. 1,1,1-TCA was used as part of the latter two operations. Large amounts of hydraulic oils and lubricants are also used and stored. No floor drains were noted. Two leach pools were found to the rear of this property. The covers of these pools were pulled, revealing what appeared to be old pools of brick construction that had been filled with gravel and abandoned.

670 Main Street. Arkwin acquired this property in the late 1970s. Current operations include honing and grinding. Large quantities of petroleum-based lubricants and hydraulic oils are used and stored. Several leach pools were found to the rear of 670 Main, including two open-grate pools that appeared to be connected to roof drainage. A third, older, pool (square cover and brick construction) was also located to the rear of 670 Main, near the alley between 66 Brooklyn Avenue (Arkwin) and 75 State Street (Huron Tool). This pool was later opened and sampled. A large area of settled pavement in the alley between 670 Main Street and 75 State Street (Huron Tool) may have been a leachfield.

662 Main Street. This Arkwin property is used entirely as office space. A sewer vent was noted just off the southwest corner of the building, but there was no direct evidence of a leach pool in this area.

656 Main Street. This Arkwin property is used for heavy machining and numerically controlled computer machining. Various petroleum-based oils and lubricants are used in the machining. A leach pool found to the rear of this building appeared to be receiving a small, continuous flow from somewhere on the roof. This location was later sampled.

648 Main Street. This Arkwin property is used primarily as a storage and parts area. Some machine tooling work is also conducted. Hazardous waste is stored to the rear of the building in a locked, sheltered enclosure with a fence around it. Arkwin also stores empty drums and the metal cuttings and chips in the rear. No evidence of former leach pools was found at the rear of 648 Main, although the pool at 656 Main Street is only several feet off the southeast corner of this address.

33 Sylvester Street. Arkwin has used this property as a storage and maintenance area since the early 1980s. Arkwin has no record of former uses at this address. Several leach pools were identified at this location along the northern, western and southern alleys. All appeared to be tied to the roof drainage system. Whether they are tied to the interior of the building is unknown.

675 Main Street. This address, formerly the property of Permafuse Inc., is vacant. It appears that most of the process equipment, tanks, raw materials, and wastes are still on-site. The current owner could not be contacted and only the grounds and outside of the building were inspected. Several tanks with unknown contents appear to be located on this property. Permafuse has a NYSDEC-approved RCRA closure plan and is in the process of site closure.

54 Brooklyn Avenue. This property has been occupied by Kwik Ezee Inc. since 1955. The company is a light machine shop that also has some parts cleaning and occasional spray painting. The only chemicals used are cutting oils, paints, and minor amounts (several pint cans) of 1,1,1-TCA. No floor drains were noted inside the building. The building has been connected to the county sewers for 15 years. An abandoned sanitary leach pool is believed to exist off the northeast corner of the building. No other evidence of leach pools was found. A 550-gal underground fuel oil tank is located to the rear of the building.

29 New York Avenue. This address is currently in use by Nationwide Warehouse, which sells furniture. The store manager had no information on how long Nationwide has been on-site or any former uses. The file review information indicates Tishcon formerly occupied this address and it was used for production. The site inspection verified this, as there is evidence of several production areas in the building. Several leach pools are suspected in the parking area south

of the building. Based on a number of wall penetrations on the north side of the building, leach pools or former tanks are suspected in the north alley.

30 to 36 New York Avenue. These addresses occupy the area between New York Avenue and Brooklyn Avenue (Appendix B, Photo 9). The buildings also have frontage on Brooklyn Avenue (31 and 33 Brooklyn Avenue) (Appendix B, Photo B). The block is currently occupied by several associated business. The largest is Tishcon Corporation, which manufactures dietary supplements such as vitamins. Currently, 30 New York Avenue is used in the manufacture of soft gelatin capsules. One of the final steps in this process is a 1,1,1-TCA dip to remove mineral oil from the capsules. Approximately four drums of TCA are used each week. Spent solvents are reclaimed and the site is a RCRA generator. No floor drains were noted within the buildings. The buildings are attached to the county sewer but formerly discharged wastes to on-site leach pools. No historical building plans are available. The presence of one leach pool (Appendix B, Photos 12, 14, and 17) was confirmed and it is suspected that four to eight additional pools are located on these properties (Appendix B, Photos 11,13,15, and 16).

629 Main Street. J&B Tool and Die has been located at this address since the 1950s. They manufacture machine parts for the aerospace industry. All of the work is machining of aluminum and steel. They do not plate, clean, degrease, heat treat, or paint on-site. They do use large quantities of cutting oils and water-based lubricants. This address has been hooked to the county sewers for 10 years. The former leach pool was found just off the eastern wall of the building. A stormwater basin was also noted off the northeast corner of the building. Several drums and drum rings were found on the pavement near the northeast corner of the building. An abandoned production well was found on the Sylvester Street (west) side of the building below a metal plate. The depth and condition of this well is unknown; apparently it has not been used since public water was provided in the industrial area.

49 Sylvester Street. Micro-Ray Corporation has occupied this address for five years (Appendix B, Photo 19). A manufacturer of small electromechanical parts, its only operation is light machining. The only chemicals used are cutting oils. The space is leased and the company president had no knowledge of past uses or the presence of leach pools. Several leach pools were noted to the rear of the building (Appendix B, Photo 20). Several drum rings were noted on the pavement to the rear of the building. NCDOH records indicate International Ribbon & Carbon, a former occupant, used approximately 500 gal/year of 1,1,1-TCA.

67 Sylvester Street. Doak Dermatologies, a cosmetics manufacturer, occupies this address and 62 Kinkel Street. The building houses manufacturing, storage, shipping, and warehouse areas. Doak was recently purchased by another company, so past-use history is limited. Overall, the

operation was very clean and no floor drains were noted. A number of leach pools were found in the southern parking lot along with three recently installed monitoring wells. A large number (20+) of drums (marked as nonregulated waste) initially observed on-site had been removed by the time a follow-up visit was made. The new wells and drummed wastes were apparently associated with cleanup efforts directed by Anson Environmental. Details are not currently available. At NYSDEC's request, Doak granted permission to sample the upgradient and downgradient wells and the pool bottoms. The samples were collected by LMS and split with Anson.

71 Sylvester Street. This address is currently vacant and the owner could not be contacted regarding access to the interior. The site was formerly in use as Van Son Holland Ink, a printing and ink supplier. A single leach pool for this building was found in the open lot east of the existing building. This location was later sampled (GP-71).

84 Sylvester Street. Superior Auto Restyling has operated at this location since 1990. Previous occupants were an undercoating company and prior to that a gear manufacturer. Superior Auto Restyling installs custom sunroofs. It is a dry operation and no chemicals or petroleum products are stored. Several stormwater basins were found at the north end of the building and along the back alley. The back alley is approximately 20 ft wide and abuts the Adchem building, which fronts on Main Street. The back alley is the most likely area for a leach pool or leachfield. A discharge pipe from the roof of the Adchem building enters the pavement at the north end of this alley. Where this discharge pipe goes could not be verified.

38 Kinkel Street. Glassblock Warehouse and ABC Stone Trading have been on-site for approximately one year. They supply glass blocks, specialty cement blocks, and stone products. Both are dry operations that use no solvents or cleaners. The building was hooked into the county sewer at some unknown prior date. The building and stone yard cover almost the entire property. No direct evidence of former leach pools could be found.

68 Kinkel Street. Industrial Mets Inc. has been on-site for 20 years. Prior to that the site was reportedly occupied by Benjamin Aircraft. Note that NCDOH file review data indicate that Excel Coatings (Tishcon) occupied the site in the 1980s. Industrial Mets, a roll-off service and scrap metals dealer, has a Part 360 permit to sort construction and demolition (C&D) waste, metal, and paper. Overall, the operation appeared clean, with no chemical use. There were no floor drains inside the building. The building has reportedly been attached to the county sewer system for 15 years. No direct evidence of leach pools could be found, but it is likely that there is an abandoned pool near the northwest corner of the building in the alleyway.

Several 55-gal drums of oil or waste oil were stored indoors, and a 550-gal diesel tank is located to the rear of the building.

62 Kinkel Street. This property is occupied by Doak Dermatologies, which also occupies 67 Sylvester Street. The Doak main office is located at 67 Sylvester; additional information relating to 62 Kinkel Street can be found with the information on 67 Sylvester.

70 Kinkel Street. Loni-Jo Metals Inc. is a scrap metal operation that buys and sells all types of scrap metals. The metal is delivered to the site, sorted, mechanically cut, then bound into bundles. How long the company has occupied this address or been hooked up to county sewers is unknown. No obvious leach pools or floor drains were noted. One stormwater basin was found between the building and Kinkel Street. Although no direct evidence of dumping into the drain was observed, the drain did appear to receive an oily runoff from the parking lot, where numerous oil-soaked parts and chips were stored. This basin was later opened and sampled.

5.2.3 Western Section Property Inspections

Seven properties were inspected in the western section, four in the Magnolia/Garden Street block, the remainder along Main Street.

75 Garden Street. Island Poly Bag and Supply occupies this address (Appendix B, Photos 25 and 26). The property is adjacent and attached to Poly Bag's main office at 514 Grand Boulevard. No manufacturing is conducted on the property; the company is strictly a warehouser and distributor of plastic and paper goods. Originally they operated solely out of 514 Grand Boulevard; 75 Garden Street was purchased and added to the operation in the early 1980s. The owner was unsure of past uses of the property, but believed some type of machine repair was conducted at 75 Garden Street. He also mentioned that several tanks were closed and removed when 75 Garden Street was purchased. The property was hooked up to the county sewer in 1986 or 1987. Locations of the old leach pools could not be determined. Two leach pools and a stormwater drain found in the parking lot on the north half of 75 Garden Street were opened and inspected and found to be of recent construction with a dry, clean, sand bottom. It is believed they never received discharges from within the building and were installed to handle runoff from the roof and parking lot.

81 Garden Street. The property at 81 Garden Street was inspected visually from the outside (Appendix B, Photo 27). Attempts to inspect the interior failed as the building is not occupied during the day. The property appears to be some type of warehouse for storage and is visited infrequently. The building directly abuts the southern property boundary; alleys are located

along the northern and western property boundary. Several drums of what appeared to be waste oil or diesel were noted to the rear of the property. Although not verified, one or more leach pools is believed to exist in the western (rear) alley.

87-89 Garden Street. Rapid Rivet and Fastener Corporation has been on-site for seven years (Appendix B, Photo 28). The company, which ships and distributes specialty rivets and fasteners, is a dry operation and does not use or store any chemicals. The space is leased and information on past uses and disposal histories is limited. A single floor drain noted inside the building was reportedly installed to accept storm water that occasionally seeps into the building. Other than toward the front or inside the building, there are no areas where a leach pool could be located. The building covers most of the lot and there are no alleys.

80-86 Magnolia Avenue. Alltec Inc., which sells and services power washers, has been on-site for three years (Appendix B, Photo 30). The occupants are unaware of past uses: the building had apparently been vacant for some time. NCDH records indicate that Impetus Industries (AEC Corporation) was formerly located at this address. Soaps and cleaners are stored but no solvent-based cleaners. Alltec had no knowledge of any leach pools on-site. Several suspected pools were identified to the rear and front of the building, but the owner objected to any sampling so the presence of former leach pools could not be verified.

299 Main Street. One Stop Auto and Truck Centers has occupied this address since April 1994 (Appendix B, Photos 21 and 22). A full-service auto and truck garage, the firm currently has no underground storage. There were no floor drains within the garage, although there was a grated drain along the garage doors. Where this drain discharges is unknown as the rear lot has been recently paved, covering over signs of old leach pools (Appendix B, Photo 23). The site was formerly a junkyard (Sam-Ton Salvage) for approximately 20 years. Several features at the site suggest that there once was underground storage at the site (Appendix B, Photo 24). Heavy BTEX contamination was noted in a soil sample just above the water table in GP-22 located near this address. NCDOH records indicate Island Transport formerly occupied the site and reportedly used 80 gal/year of trichloroethylene (TCE).

570 Main Street. Castle Collision is located in the southern portion of the building at this address; the northern portion is vacant. Castle Collision is a full-service autobody repair and painting garage. The site was formerly in use by IMC Magnetics, which manufactured precision pumps for the aircraft industry. When IMC Magnetic moved to Hauppaug, New York, a number of leaching pools, septic tanks, and floor drains were abandoned. NCDOH

records indicate IMC Magnetics used 600 gal/year of tetrachloroethylene (PCE) and 360 gal/year of freon.

Apparently these disposal locations were in use until 1990 when the site was hooked into the county sewer system. The site is currently under closure; IMC's environmental consultant, Anson Environmental, during its closure investigation, identified three source areas on-site that are contaminated with VOCs and metals. These source areas remain in place awaiting NYSDEC approval of an interim remedial measure (IRM) proposed by Anson Environmental. Area 1 consisted of two leach pools and a septic tank located near the corner of Main and Rushmore streets. Laboratory testing of the septic tank showed concentrations of PCE at 94,300 ppb and chromium at 27,000 ppb. Area 2, located near the corner of Swalm and Main streets, consists of two connected leach pools believed to have received discharges from the floor drains. Laboratory sampling of these two leach pools showed high concentrations of toluene, xylene, methyl chloride, PCE, TCE, TCA, cadmium, chromium, and lead. In leach pool 2B PCE concentrations were 13.9% (1.39×10^8 ppb), indicating the presence of dense, nonaqueous phase liquid (DNAPL) in the pores of the sediments located within this pool. Area 3, located in an alley between the building and the southern property boundary, consists of a septic tank and two leach pools. Elevated levels of chromium were found in the septic tank (ST3, 50,000 ppb) and both leach pools (LP3A, 27,000 ppb; LP3B, 14,000 ppb) while elevated levels of toluene and PCE were found in the septic tank (ST3: toluene, 60,200 ppb; PCE, 112,000 ppb).

Four of the six floor drains in the building were sampled. All were found to be contaminated with VOCs and metals. The most heavily contaminated were floor drain 2, which showed BTEX, dichlorobenzene, chlorobenzene, methyl chloride, methylene chloride, PCE, TCA, TCE, mercury, barium, cadmium, chromium, and lead above NYSDEC standards.

File review information also indicates that a 1000-gal fuel oil tank failed tank testing and that a spill (Spill No. 88-018166) at this address was reported to NYSDEC in 1988. This spill file was closed in 1989 with NYSDEC approval.

542 Main Street. This building has been occupied by Al's Tool and Die for 27 years. The company also rents portions of 534 Main Street; the two buildings are connected by an addition. Currently they manufacture metal parts for the U.S. Postal Service. For the most part the process involves stamping and assembly. No plating, finishing, or degreasing is done on-site. The site has been hooked into the county sewers for 10 years. A former leach pool was found indoors in the addition that connects the two buildings. ■

5.3 TOTAL LEAD AND CHROMIUM ANALYSES

5.3.1 Phase I Groundwater Probe Investigation

Sixteen groundwater samples from selected locations downgradient of suspect properties were analyzed for lead and chromium. Total suspended solids (TSS) analyses were also performed for each sample. The results are summarized in Table 5-25. As the samples were not filtered, the TSS concentrations were fairly high for most of the samples, making it difficult to assess whether the high lead and chromium concentrations detected are reflective of dissolved lead and chromium or are associated to a large degree with the suspended solids.

GP-37 contained 12,800 mg/l TSS, which is comparable to the TSS values for GP-19 (13,400 mg/l) and GP-29 (13,900 mg/l). The detected chromium concentrations for GP-19 and -29 were 406 and 402 ppb, respectively. The lead concentrations were 43.4 and 39.9 ppb, respectively.

In comparison, the chromium concentration detected in the GP-37 sample was 4190 ppb, an order of magnitude greater than in the GP-19 and -29 samples. This appears to indicate that the chromium concentrations detected in the GP-37 sample are artificially elevated. The lead result for the GP-37 sample was 88.8 ppb, approximately twice that for the GP-19 and -29 samples.

Similarly, the chromium concentration detected in the GP-16 sample (2900 ppb) was elevated compared to those for GP-19 and -29. The TSS result for the GP-16 sample was 17,200 mg/l, roughly 50% higher than those for the GP-19 and -29 samples; the chromium result was over seven times higher than those for GP-19 and -29. This appears to indicate artificially elevated chromium levels at GP-16.

The chromium concentration detected in the N-9938 sample (534 ppb) is quite elevated in light of the relatively low TSS result (144 mg/l). The relatively high chromium and lead concentrations detected in the GP-33 sample also appear artificially elevated, although the TSS result for this sample was also extremely high (30,800 mg/l).

The eastern United States background soil concentration for chromium ranges between 1.5 and 40 ppm (NYSDEC 1992). Assuming that the soil beneath the site, at depths screened by the respective Geoprobe sample points, possesses chromium concentrations within this range, the proportion of chromium in each sample that is associated with suspended solids as compared to that actually dissolved in groundwater can be calculated.

Using the chromium range of 1.5 to 40 ppm for the silt that comprises the suspended solids in each sample, multiplied by the fraction of the total sample that is suspended silt, produces an estimated range of chromium that is associated with the silt in the sample. Table 5-29 presents the results of this calculation for the collected samples.

After accounting for the chromium associated with the suspended silt, only samples GP-16 and -37 and N-9938 show significantly elevated levels; the concentrations for samples GP-22 and -33 are slightly elevated. Samples GP-16, -22, -23, and -37 were collected from locations in the middle of the site that may have been impacted by releases from facilities on site; GP-33 was collected from a location essentially upgradient of the entire site.

Similarly, the eastern United States background soil concentrations for lead range between 4.0 and 61 ppm (NYSDEC 1992). Table 5-29 shows that only in one sample, N-9938, is the lead value elevated compared to the calculated natural TSS-associated lead concentration.

The data appear to indicate that certain facilities on site have contributed to elevated chromium and to a lesser degree lead concentrations in groundwater. However, because of the number of samples analyzed and the effect of TSS, no distinct plumes are observable.

5.3.2 Phase II Groundwater Probe Investigation

To verify the results and resolve the issues regarding elevated metals concentrations associated with TSS in the first round of lead and chromium sampling, five additional samples were collected for chromium analysis. Each sample was analyzed for filtered and total chromium. In addition, the unfiltered fraction was analyzed for TSS. The results are summarized in Table 5-26. The results indicate that, to a large degree, the elevated chromium concentrations noted during the first sampling event were associated with suspended solids.

TABLE 5-29 (Page 1 of 2)

TSS vs TOTAL LEAD AND CHROMIUM CONCENTRATION ANALYSIS
 New Cassel Industrial Area
 NYSDEC I.D. No. 130043

PARAMETER	GP-13	GP-16	GP-19	GP-20	GP-21	GP-22	GP-23	GP-25
TSS (mg/l)	5,530	17,200	13,400	9,600	3,280	5,260	5,010	7,330
TSS conc. expressed as a fraction	0.0055	0.0172	0.0134	0.0096	0.0033	0.0053	0.0050	0.0073
Chromium fraction of TSS (assumed 1.5-40 ppm)			<-----1.5 * 10 ⁻⁶ to 4.0 * 10 ⁻⁵ ----->					
TSS-associated chromium, expressed in ppb (line 2 x line 3)	8.3-220	26-688	20-536	14.4-384	4.8-128	8-212	7.5-200	11-292
Total chromium (ppb)	275	2900	406	305	123	371	84.9	87.9
Lead fraction of TSS (assumed 4-61 ppm)			<-----4.0 * 10 ⁻⁶ to 6.0 * 10 ⁻⁵ ----->					
TSS-associated lead, expressed in ppb (line 2 x line 6)	22-330	68.8-1032	53.6-800	38.4-576	13.2-198	21.2-318	20-300	29.2-438
Total Lead (ppb)	9.2	58.0	43.4	30.6	19.5	28.5	19.4	21.0

TABLE 5-29 (Page 2 of 2)

TSS vs TOTAL LEAD AND CHROMIUM CONCENTRATION ANALYSIS

New Cassel Industrial Area

NYSDEC I.D. No. 130043

PARAMETER	GP-29	GP-33	GP-36	GP-37	LONI-JO MW-1	ANSON MW-2	NC-14	N-9938
TSS (mg/l)	13,900	30,800	7,100	12,800	1,020	552	1,280	144
TSS conc. expressed as a fraction	0.0139	0.0308	0.0071	0.0128	0.0010	0.0005	0.0013	0.0001
Chromium fraction of TSS (assumed 1.5-40 ppm)	<-----1.5 * 10 ⁻⁶ to 4.0 * 10 ⁻⁵ ----->							
TSS-associated chromium, expressed in ppb (line 2 x line 3)	20.8-556	46.2-1230	10.6-284	19.2-512	1.5-40	0.5-20	2-52	0.1-4
Total Chromium (ppb)	402	1630	269	4190	12	<10	10	534
Lead fraction of TSS (assumed 4-61 ppm)	<-----4.0 * 10 ⁻⁶ to 6.0 * 10 ⁻⁵ ----->							
TSS-associated Lead, expressed in ppb (line 2 x line 6)	55.6-830	123-1840	28.4-420	51.2-760	4.0-60	2.0-30	5.2-78	0.4-6
Total Lead (ppb)	39.8	298	17.9	88.8	9.80	5.9	6.7	42.6

5-12A2

CHAPTER 6

CONCLUSIONS

6.1 OVERVIEW

The presence of halogenated aliphatic compounds, such as TCE, PCE, and TCA, in groundwater are typically the result of direct discharges of industrial wastes (e.g., degreasers and cleaning solvents) to the ground surface and not the result of biochemical degradation. This is the most probable source of these contaminants detected in groundwater samples collected from the site. When TCE, PCE, and TCA are present significant products of degradation can be cis-1,2-dichloroethylene (cis-DCE) and 1,1-dichloroethane (1,1-DCA). It has been found that halogenated aliphatic compounds, which include chlorinated solvents, can be degraded to varying degrees through both biotic (hydrogenolysis) and abiotic (dehydrohalogenation) processes.

PCE will undergo hydrogenolysis to produce TCE; however, TCE will more rapidly degrade into cis-DCE. Because the transformation rates for TCE to degrade to cis-DCE are much faster than the rates for cis-DCE to degrade, it is more likely that cis-DCE will be detected in the environment rather than TCE, as a result of biochemical degradation. This would probably account for the cis-DCE detected at the site. cis-DCE has been shown to degrade to vinyl chloride (VC) and/or chloroethane (CA); however, the transformation rates are very slow and these compounds are typically not detected in the environment as a result of biochemical degradation.

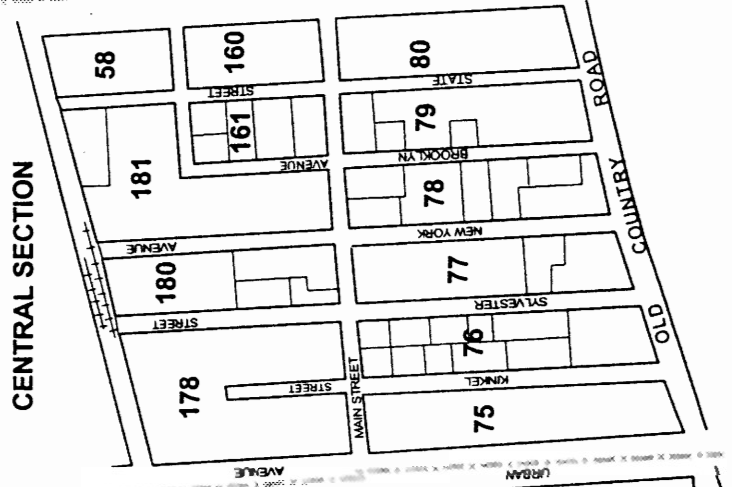
TCA normally undergoes hydrogenolysis to produce 1,1-DCA and would appear to account for the presence of this compound in samples collected from the site. 1,1-DCA has also been found to degrade to VC and/or CA; however, it is unlikely they would be detected because of the very slow transformation rates discussed earlier. There is no evidence that TCA will degrade to 1,2-dichloroethane (1,2-DCA), and the presence of 1,2-DCA in samples collected from the site may be indicative of impurities that exist in many of the commercial solvents used. This is also true of the breakdown products discussed earlier, many of which can be found in varying quantities as impurities in the solvents purchased by commercial businesses.

Correlation of the soil and groundwater data with information assembled during Tasks 1 and 2 facilitated the preparation of integrated chemical use/spill and contamination maps. The site has been divided into three sections - western, central, and eastern - for convenience (Figure 6-1). The western section consists of all properties west of Urban Avenue, including those

EASTERN SECTION



CENTRAL SECTION



WESTERN SECTION

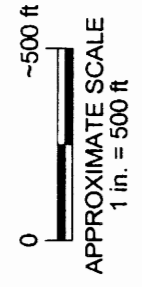
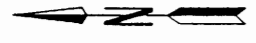
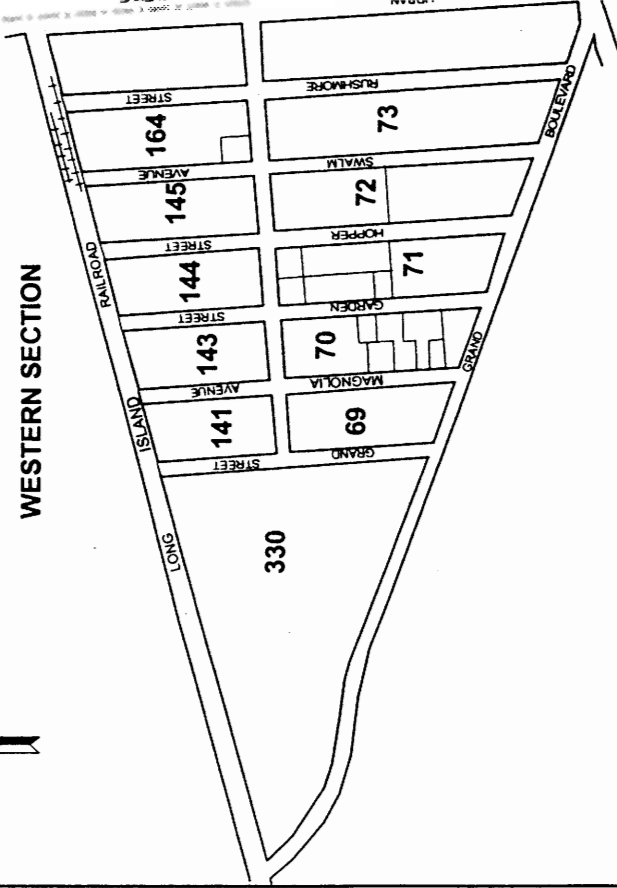


FIGURE 6-1

WESTERN, CENTRAL, AND EASTERN SECTIONS Tax Block Numbers

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

LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York

NOTE: The above tax blocks are in Nassau County Section 11.

along the west side of Urban Avenue. The central section consists of all properties east of Urban Avenue and west of Bond Street, including those along the east side of Urban Avenue and the west side of Bond Street, respectively. The eastern section consists of the properties east of Bond Street, including those along the east side of Bond Street.

The three maps prepared for each section show the contaminant distribution in groundwater for depth intervals at 55-75, 75-85, and 85-95 ft (Figures 6-2 through 6-27). The plumes are defined as area where the total PCEs, TCAs, and BTEX compounds exceeded 100 ppb. The legend for each of these maps (Figures 6-2 through 6-27) is found on Table 6-1. Note: The contaminant concentrations and plumes illustrated on these figures are total PCEs (PCE + TCE + DEC + VC), total TCAs (1,1,1-TCA + DCA), and total BTEXs (BTEX + chlorobenzene). The properties represented on the map are variously shaded to indicate recorded usage or spillage of the target compounds or, where applicable, suggested target compound usage based on known site operations (cases in which no chemical usage information was available for the property). Large-scale maps of each section have also been prepared. These plates are found in the supporting documentation.

6.2 WESTERN SECTION

The western section of the site is a triangular region bounded on the east by Urban Avenue, on the north by the Long Island Rail Road, and on the south by Grand Boulevard. Two apparently overlapping groundwater contaminant plumes were detected in the middle portion of this section; delineation of the two plumes is based on the data available. Other than the two plumes mentioned above, pronounced groundwater contamination beneath this portion of the site was not detected. Figures 6-2 through 6-7 present the plume maps.

6.2.1 Garden Street/Hopper Street Plume

A plume was detected starting at monitoring points GP-22 and -62 and extending downgradient past GP-105 and HARMON-MW-1 (Figure 6-2). The upgradient extent of this plume appears to be near 110 Hopper Street, but no monitoring points are located in this area to confirm this. In the two most upgradient points within this plume the total PCE concentrations increased with depth (Figures 6-2 and 6-3). In GP-22 total PCE increased from 74 to 680 ppb. In GP-62 total PCE increased from 297 to 1710 ppb. A similar trend was seen in GP-95, increasing in concentration from 399 to 13,923 ppb. The plume exhibits moderate to heavy TCE contamination in its mid-position (GP-105 and -106, HARMON-MW-1, and GP-24). At the water table (52 ft) concentrations of 1,2-DCE and TCE were 2300 and 660 ppb, respectively, in HARMON-MW-1. In GP-105 and -106 the shallow samples (taken from 63-65 ft) exhibited

TABLE 6-1
LEGEND AND NOTES FOR PLUME MAPS

LEGEND



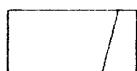
Proportional representation of total detected concentrations of PCE+TCE+DCEs+VC in micrograms per liter ($\mu\text{g/l}$)



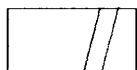
Proportional representation of total detected concentrations of 1,1,1-TCA+DCAs in micrograms per liter ($\mu\text{g/l}$)



Proportional representation of total detected concentrations of BTEX+chlorobenzene in micrograms per liter ($\mu\text{g/l}$)



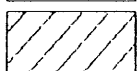
Known spill of PCE or TCE



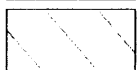
Known usage of PCE or TCE



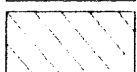
Known spill of 1,1,1-TCA or DCAs



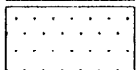
Known usage of 1,1,1-TCA or DCAs



Known spill of BTEX or chlorobenzene



Known usage of BTEX or chlorobenzene



No VOC information available; current or previous site usage suggests VOC usage



Geoprobe locations



Well locations

NOTES

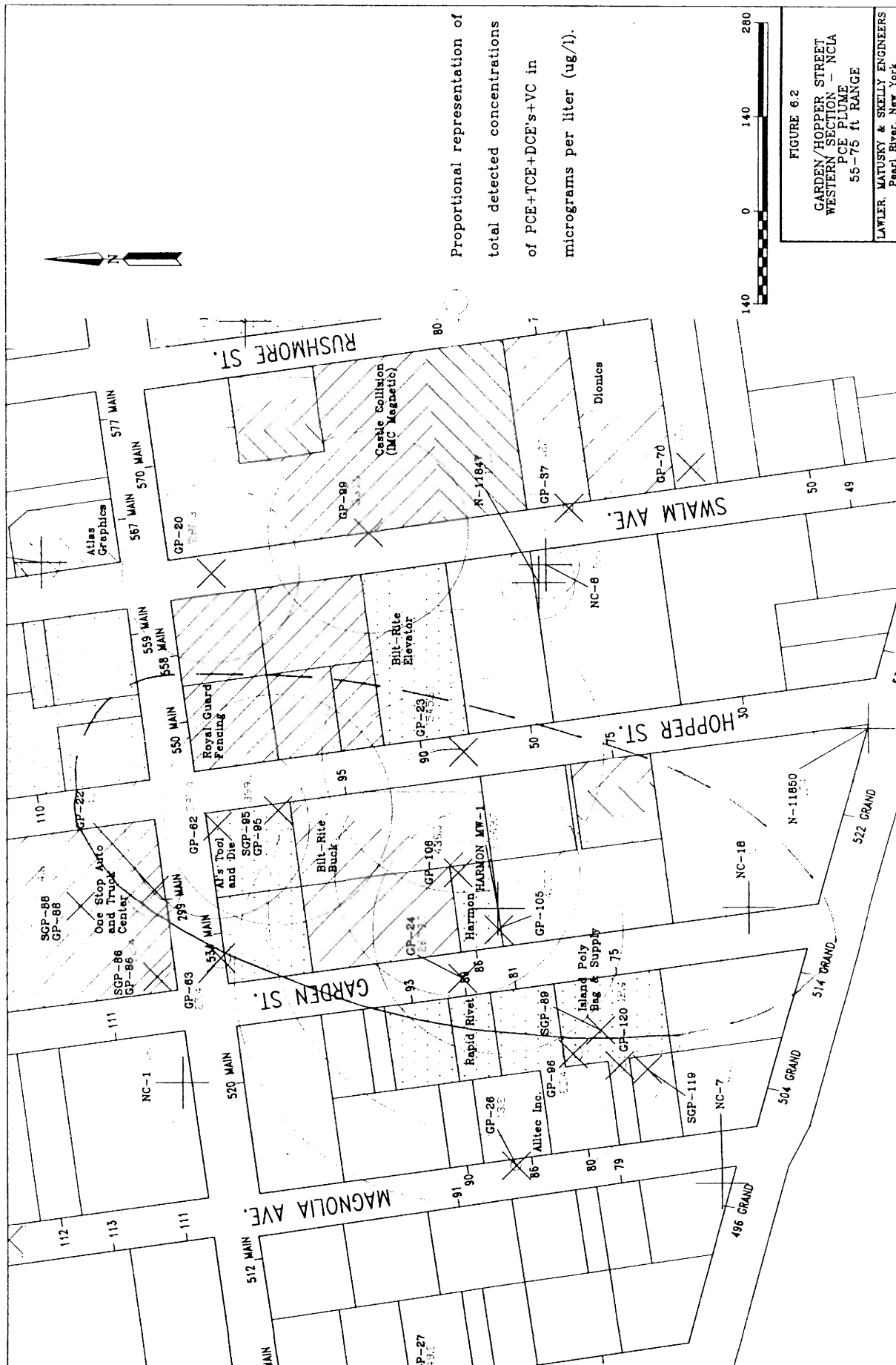
SGP-60 - Soil sampling locations; no data presented

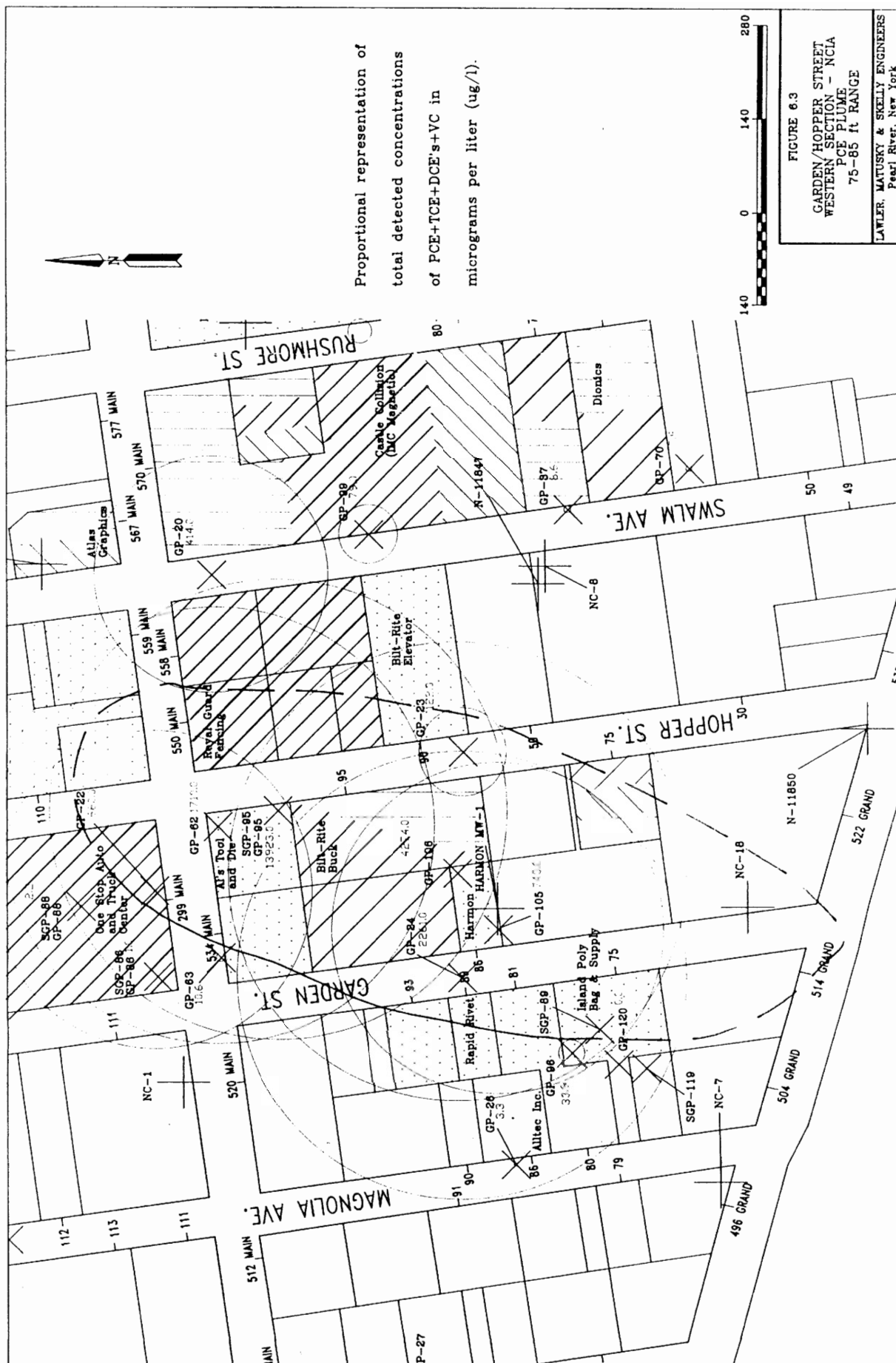
GP-60SW - Surface water (leach pool) sampling locations; no data presented

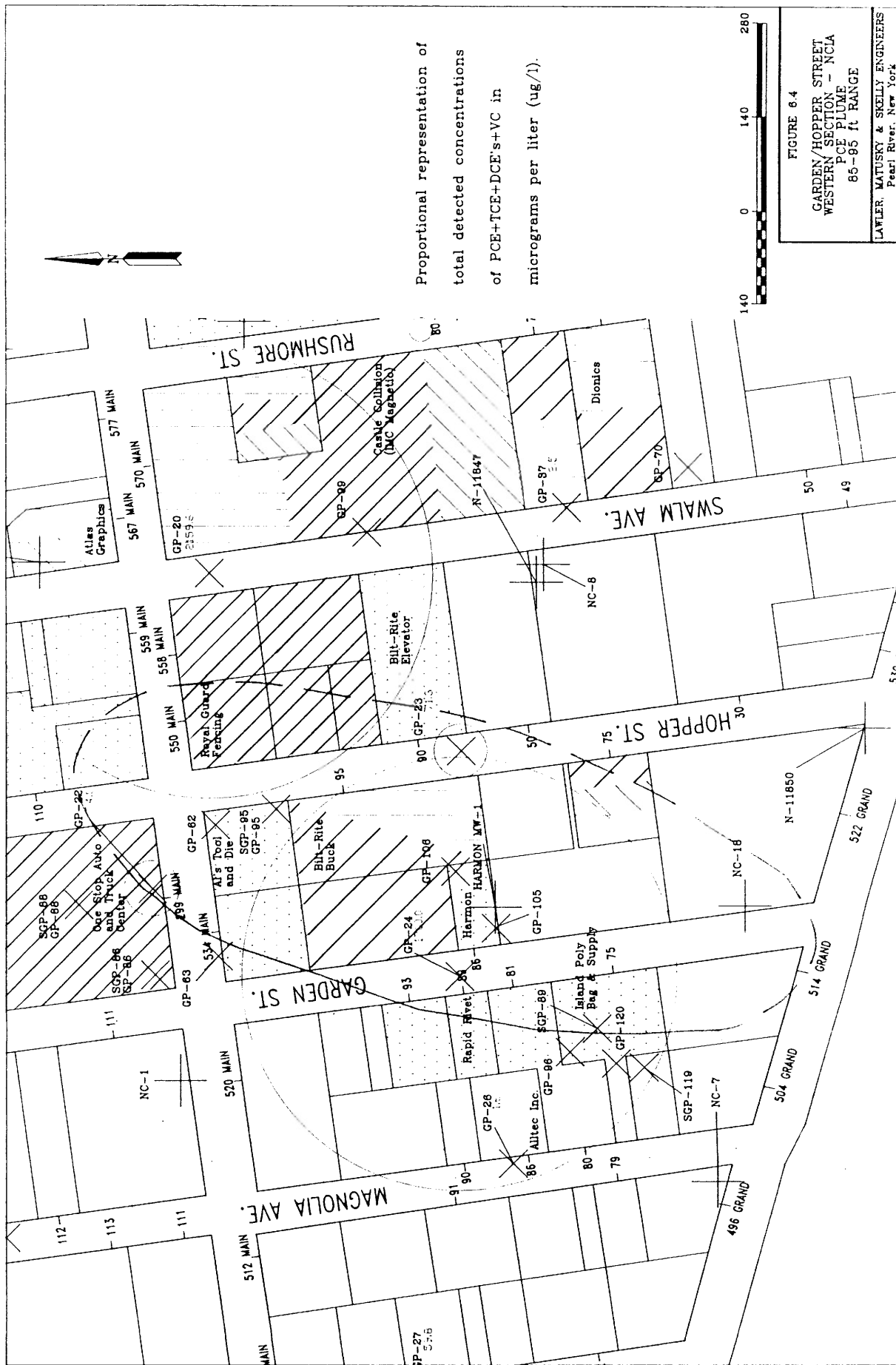
GP-107 - Geoprobe name with no data indicates no sample was collected at that depth

Arkwin Industries - Name of facility occupying site as of June/July 1994 or last known tenant

Nationwide Industries - () name of significant industry that operated on-site in past
(Tishcon)







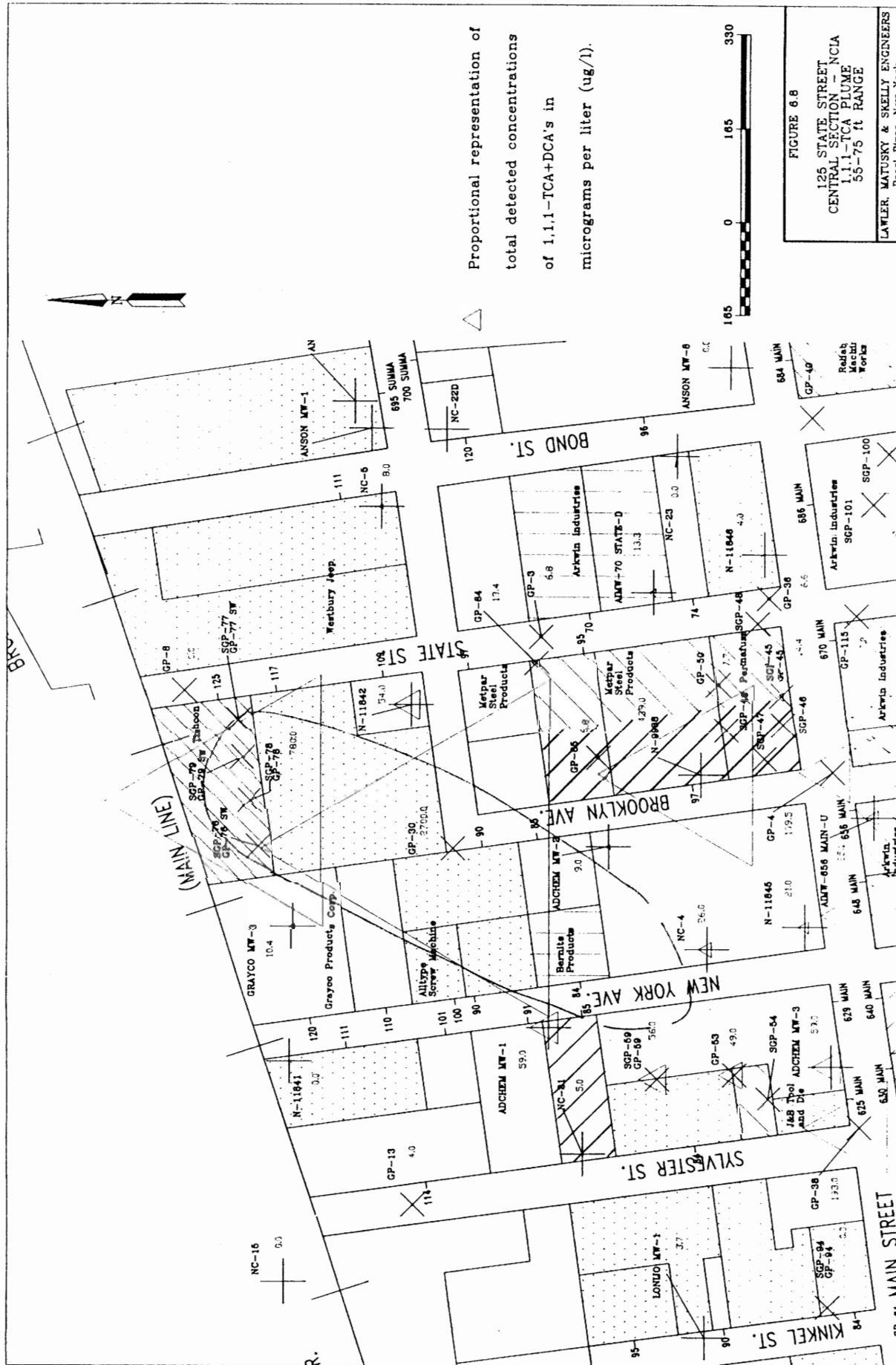


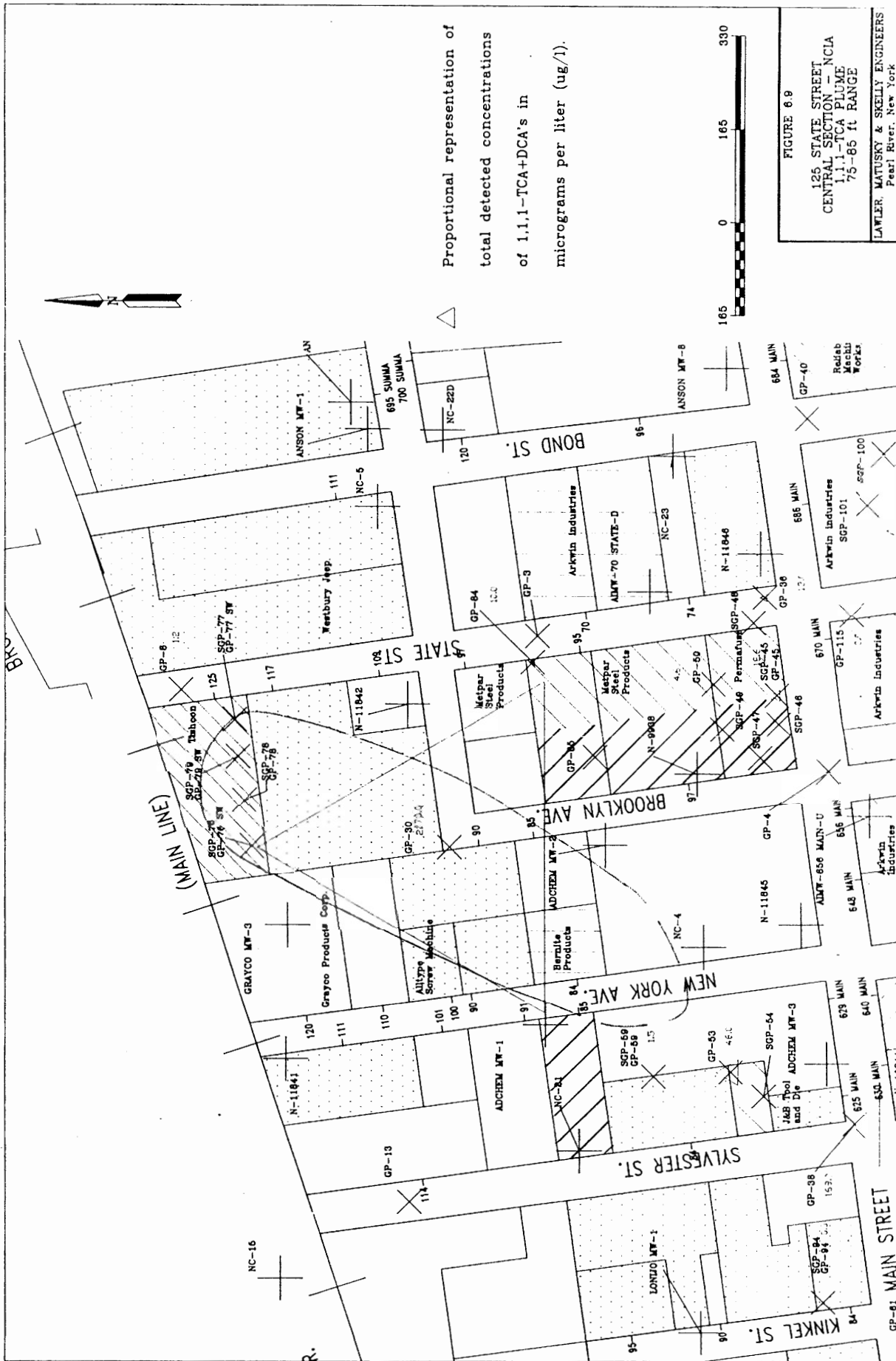
Proportional representation of
total detected concentrations
of PCE+TCE+DCE's+VC in
micrograms per liter (ug/l).

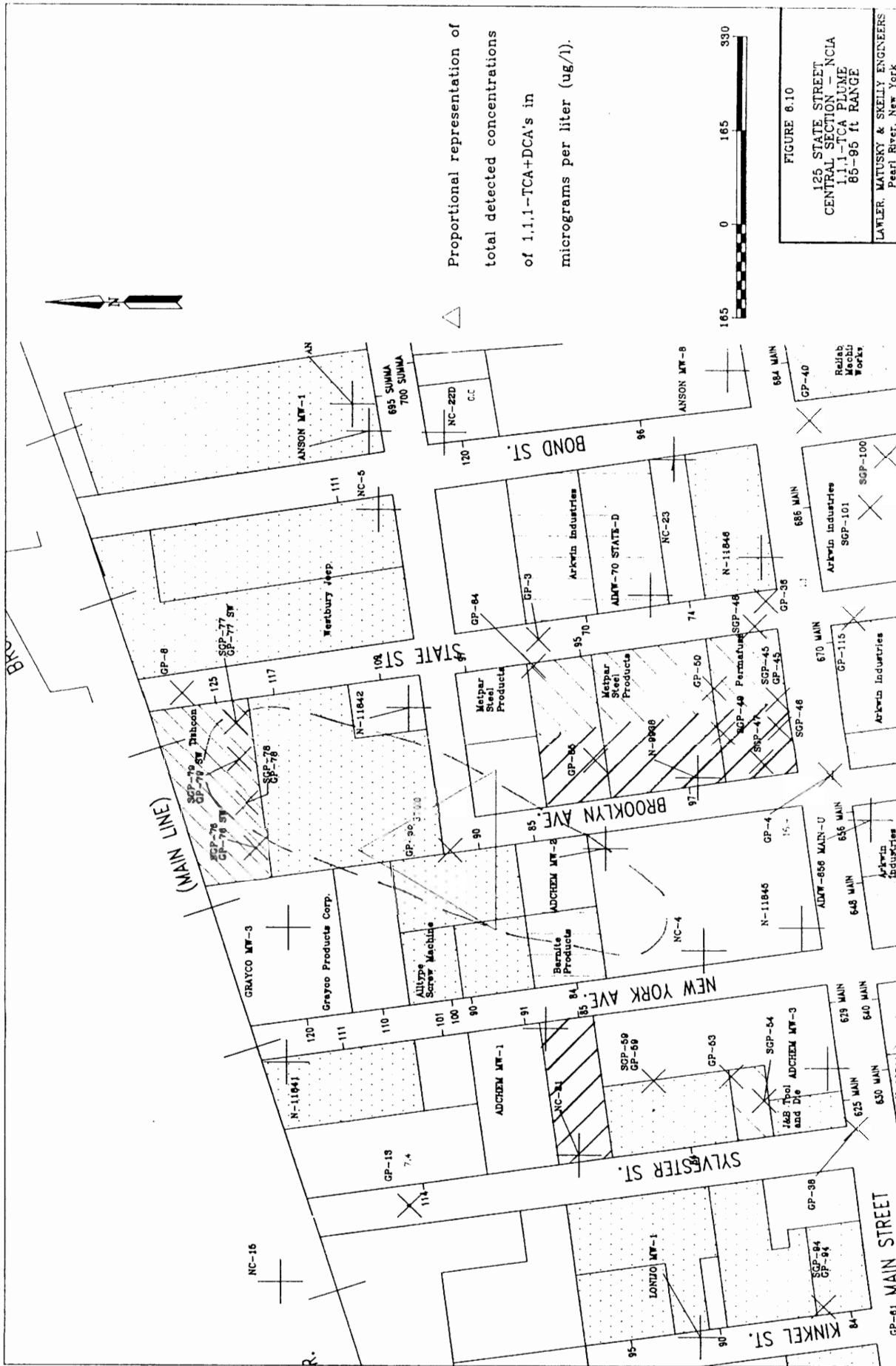
FIGURE 6.5
570 MAIN STREET
WESTERN SECTION - NCLA
PCE PLUME
55-75 ft RANGE
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York







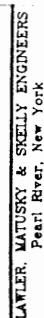




Proportional representation of
total detected concentrations
of 1,1,1-TCA+DCA's in
micrograms per liter (ug/l).

FIGURE 6.10

125 STATE STREET
CENTRAL SECTION, NCIA
1,1,1-TCA PLUME
85-95 ft RANGE
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York







Proportional representation of
total detected concentrations
of PCE+TCE+DCE's+VC in
micrograms per liter (ug/l).

FIGURE 6.17

SYLVESTER/KINKEL ST.
CENTRAL SECTION - NCIA
PCE PLUME
55-75 ft DEPTH

LAWLER, MATUSEY & SKELLY ENGINEERS
Pearl River, New York





Proportional representation of
total detected concentrations
of PCE+TCE+DCE's+VC in
micrograms per liter (ug/l).

FIGURE 6.19

SYLVESTER/KINKEL ST.
CENTRAL SECTION - NCIA
PCE PLUME
75-85 ft DEPTH

LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York



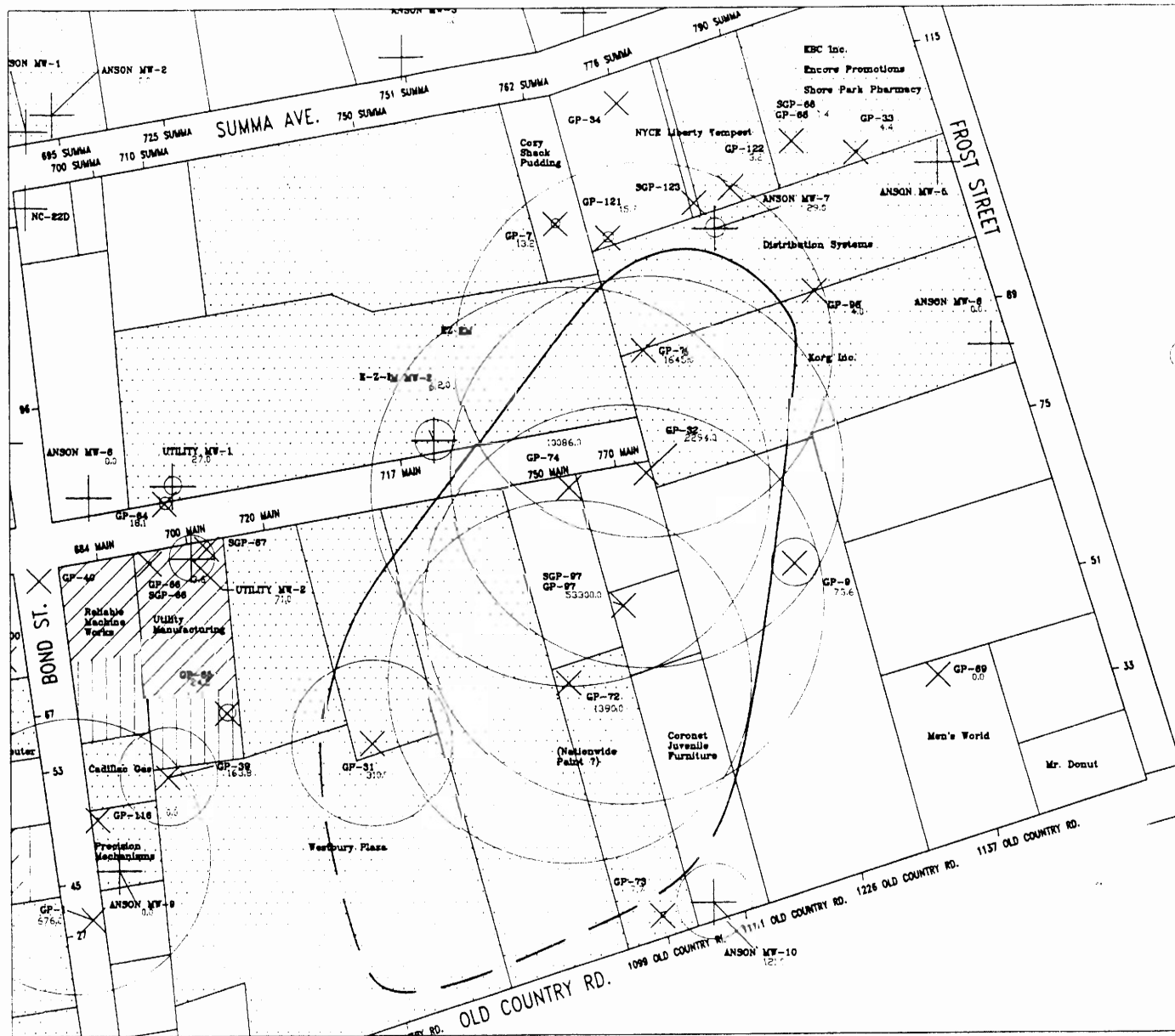
FIGURE 6.20

SYLVESTER/KINKEL ST.
CENTRAL SECTION - NCIA
1,1,1-TCA PLUME
75-85 ft DEPTH

LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York

Proportional representation of
total detected concentrations
of 1,1,1-TCA+DCA's in
micrograms per liter (ug/l).





○ Proportional representation of
total detected concentrations
of PCE+TCE+DCE's+VC in
micrograms per liter (ug/l).

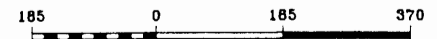
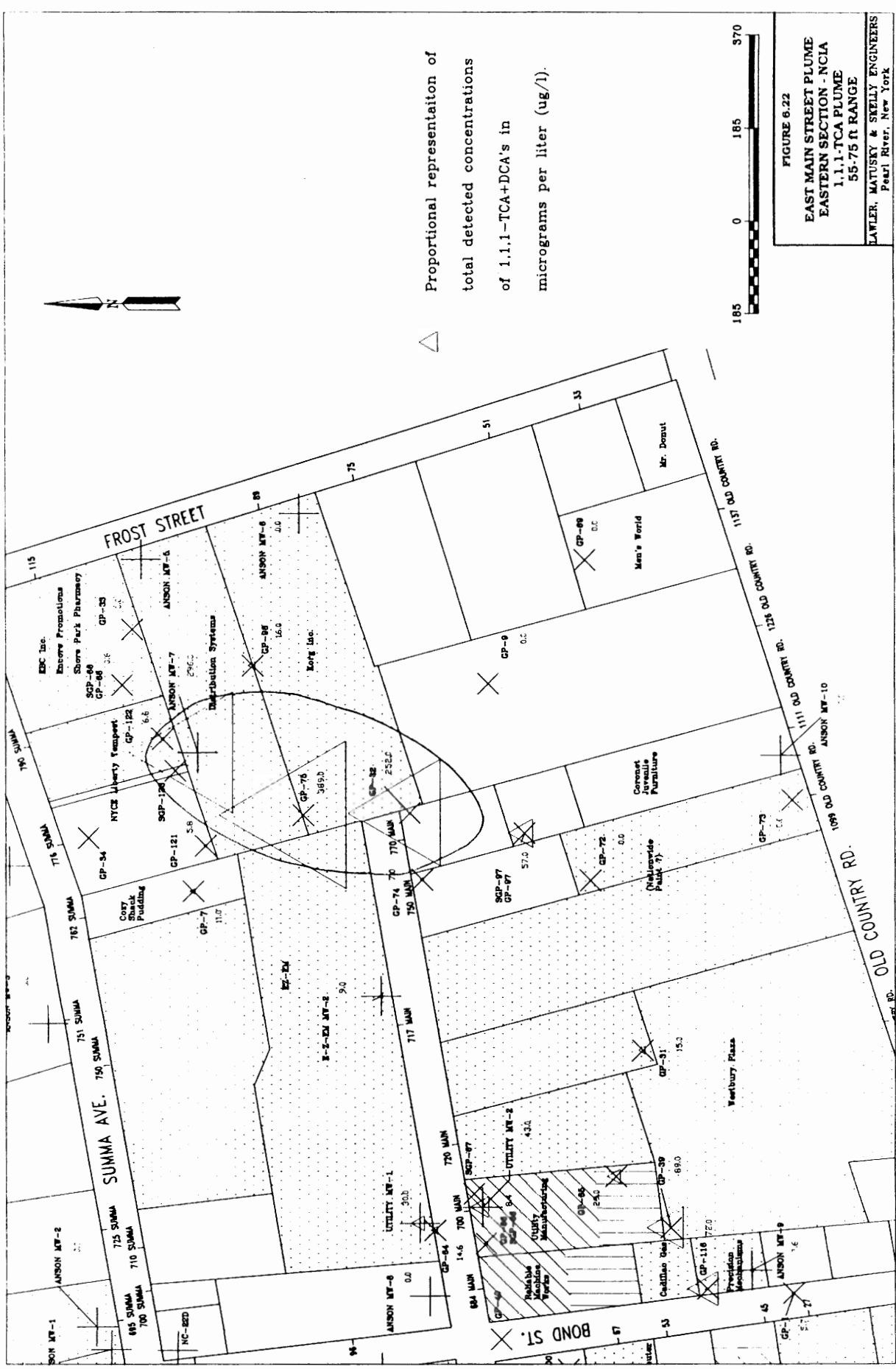


FIGURE 6.21

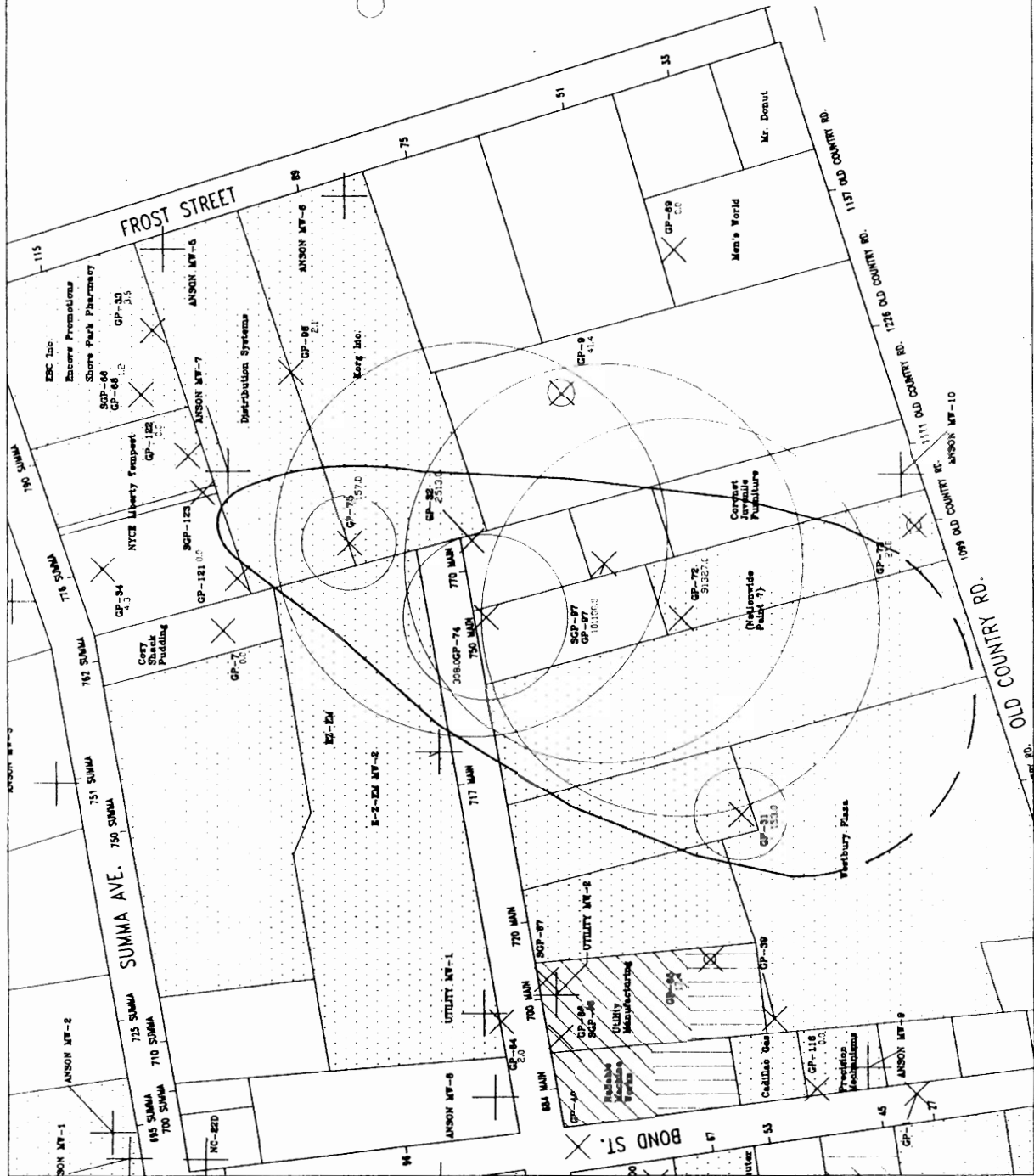
EAST MAIN STREET PLUME
EASTERN SECTION - NCLA
PCE PLUME
55-75 ft RANGE

LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York



Proportional representation of
total detected concentrations
of 1,1,1-TCA+DCA's in
micrograms per liter (ug/l).

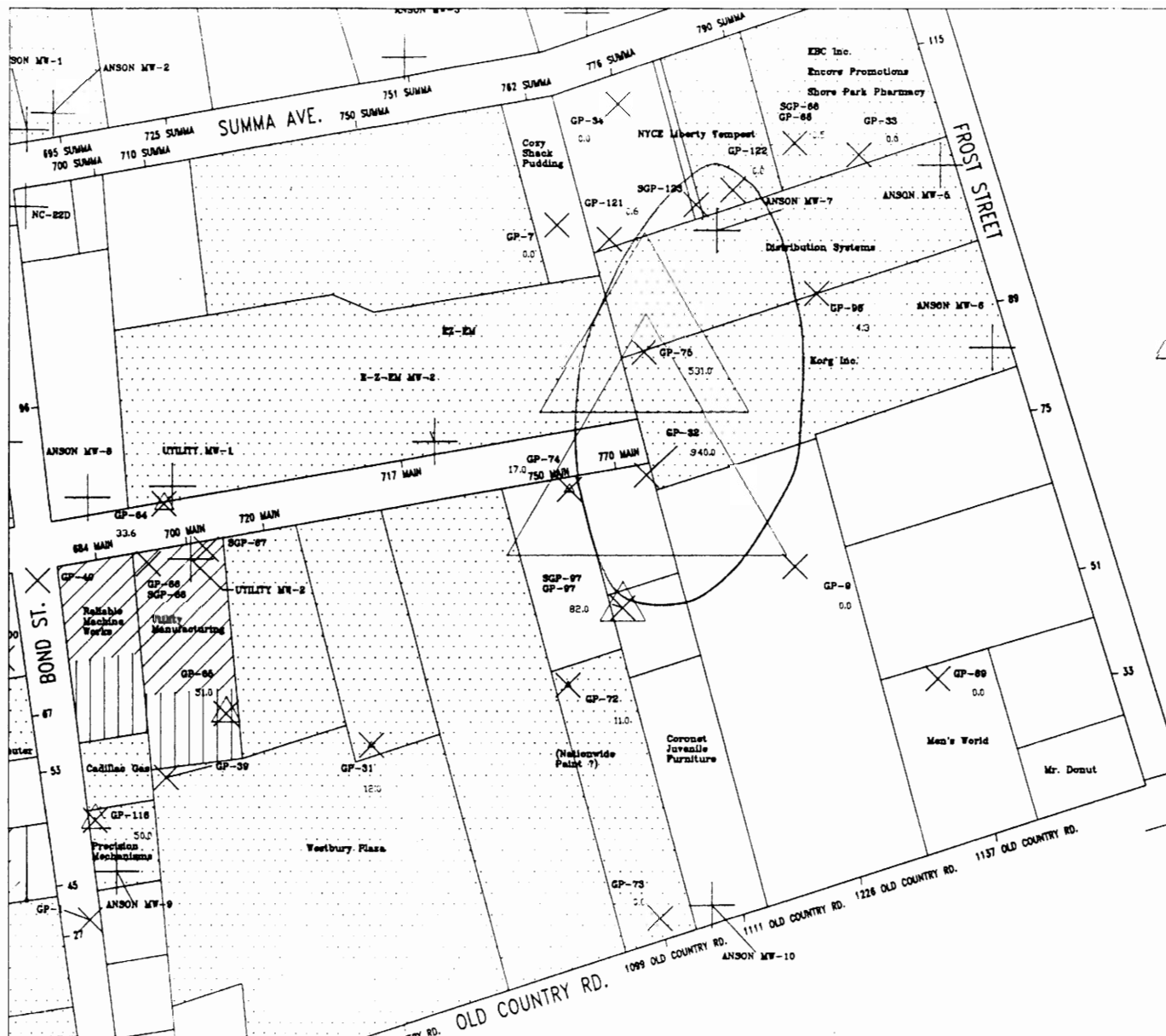
FIGURE 6.22
EAST MAIN STREET PLUME
EASTERN SECTION - NCIA
1,1,1-TCA PLUME
55-75 ft RANGE
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York



Proportional representation of
total detected concentrations
of PCE+TCE+DCE's+VC in
micrograms per liter (ug/l).

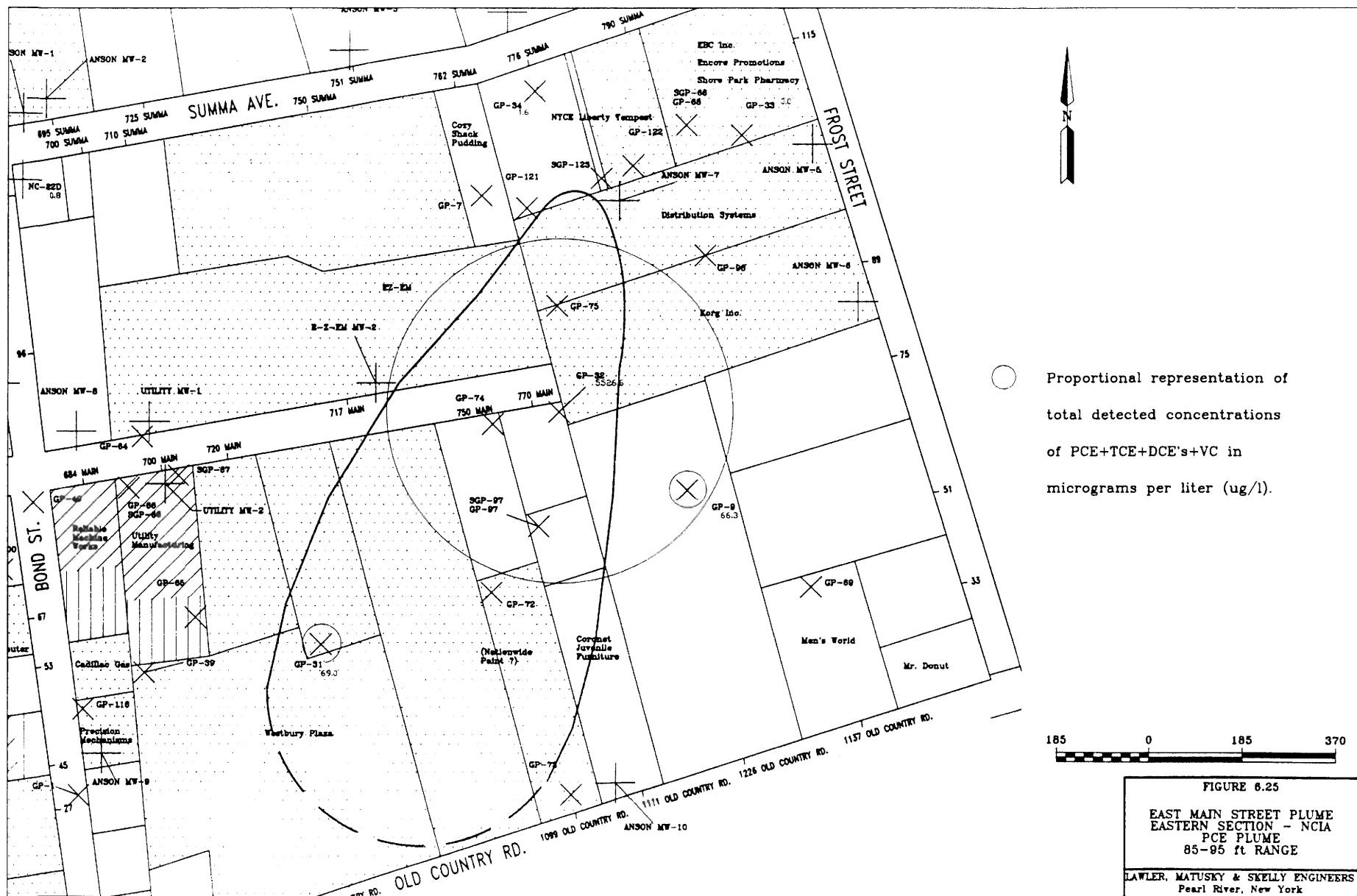


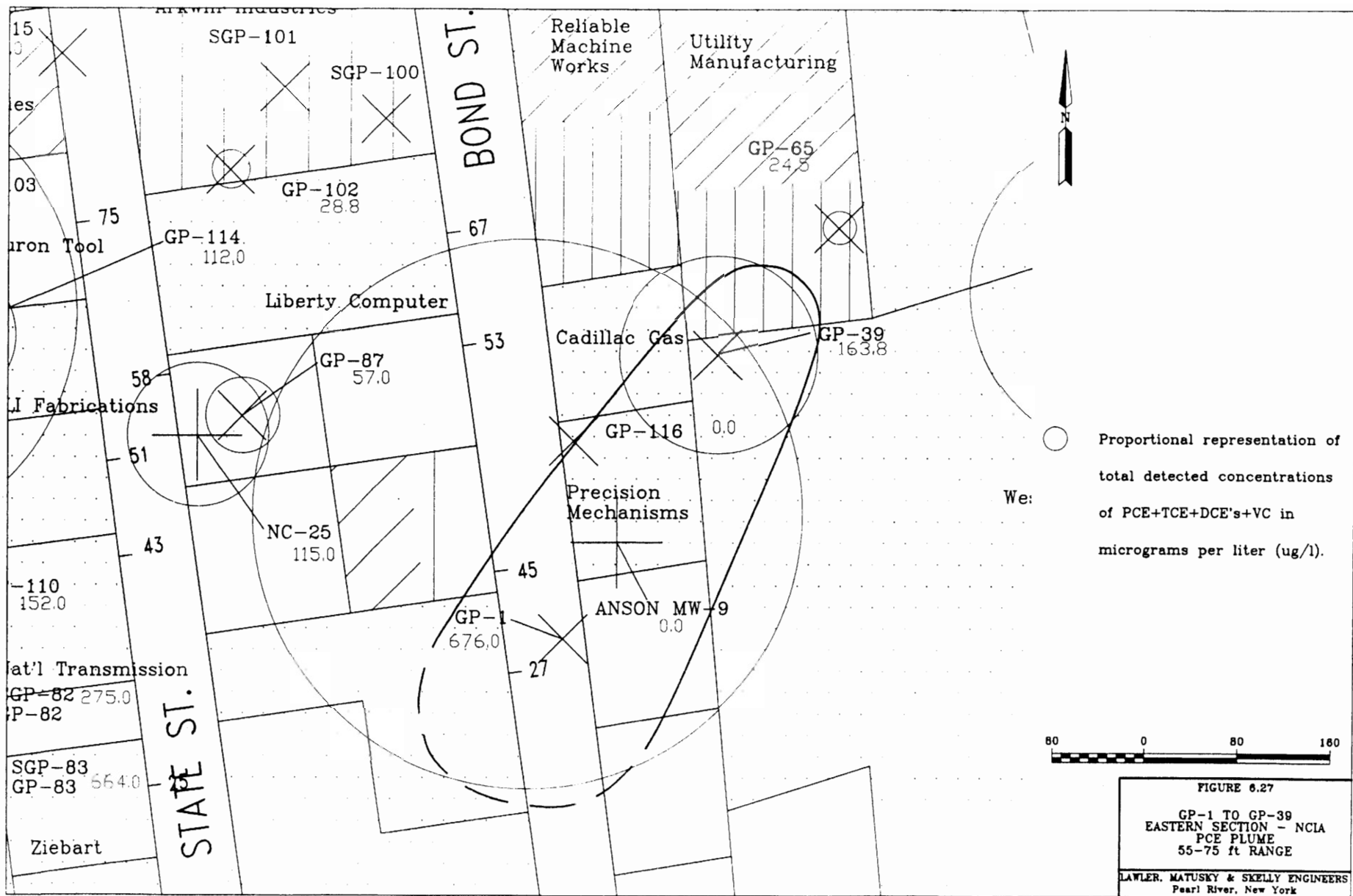
FIGURE 6.23
EAST MAIN STREET PLUME
EASTERN SECTION - NCL
PCE PLUME
75-85 ft RANGE
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York



Proportional representation of total detected concentrations of 1,1,1-TCA+DCA's in micrograms per liter (ug/l).

FIGURE 6.24
EAST MAIN STREET PLUME
EASTERN SECTION - NCIA
1,1,1-TCA PLUME
75-85 ft RANGE
LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York





much less DCE and TCE than HARMON-MW-1. However, with depth at GP-106 TCE (2000 ppb) and PCE (2200 ppb) were much greater than GP-105 or HARMON-MW-1. The inference is that the contaminant distribution in this area represents potentially overlapping plumes, with the appearance of PCE at depth being the marker compound. It is believed that the PCE may have originated from a newer spill of PCE associated with the 570 Main Street plume. This hypothesis is supported by the contaminant distribution in GP-24, which exhibits more PCE breakdown products, including VC.* GP-24 is believed to be more representative of an older historical spill within the plume area.

Heavy BTEX contamination was also detected in soil samples collected from the 10-ft interval just above the water table in GP-22. Groundwater was moderately contaminated with toluene and xylenes (approximately 200 ppb), with a slight increase in concentration with depth. Low levels of benzene and o-xylene (50 ppb total) were detected in the 68-70 ft sample from GP-24. The BTEX soil and groundwater contamination at GP-22 indicates some type of petroleum spill in the vicinity of GP-22. A low-level plume has migrated via groundwater at least as far as GP-24.

In summary, a release of PCE has occurred in the vicinity or upgradient of GP-62 and -95. The DCE contamination detected in GP-24, HARMON MW-1, and GP-105 and -106 may be related to this spill as it is a breakdown product of PCE. GP-22 is monitoring residual PCE that has not migrated downgradient and degraded to DCE. VC appears to be forming in the vicinity of GP-24 as a result of degradation of DCE. The elevated PCE found in GP-106 may indicate that this plume and the 570 Main Street plume overlap in this area.

Possible sources for the PCE spill include 110 Hopper Street. Although this address is not on record as using any of the chlorinated solvents, the operations at this site suggest that use of these materials is possible.

Alternatively, the chlorinated solvent contamination at GP-24 and HARMON-MW-1 may be the result of a source located between them and GP-22 (i.e., 534/542 Main Street/95 and 90 Hopper Street). Under this scenario GP-22 is monitoring an isolated (chlorinated solvent) spill

*It is theoretically possible for DCE to degrade to VC (Fetter 1993), although this process is not usually observed. The presence of VC in groundwater is usually better explained as the result of a direct discharge of VC, or as an impurity in discharged PCE or TCE solvent. However, industrial sources of VC are usually limited to plastics (PVC) manufacturing facilities (Howard 1990). Since there are no such facilities in the vicinity, and VC was not detected at GP-22 as an impurity in the PCE/TCE source, the most probable cause for the VC detected at GP-24 is degradation of the DCE present.

as well as a BTEX spill and the contamination detected at GP-24, HARMON-MW-1, and GP-105 and -106 is related to a separate spill of PCE or possibly DCE and VC. DCE is manufactured commercially, although its uses are not typically those found at the site, except possibly as an additive to lacquer-type paint (Verschueren 1983). The VC at GP-24 could be present as an impurity in discharged DCE or as a result of degradation of discharged DCE. The facility at 95 Hopper Street uses various paints, both lacquer and enamel, in the manufacturing process that takes place there.

6.2.2 570 Main Street Plume

A second plume was detected below this portion of the site, to the east of the plume described above (Figures 6-5 to 6-7). The source of this plume appears to be the former IMC Magnetics facility located just upgradient of GP-20. The eastern edge of this plume appears to proceed to the southwest from Main Street between NYT MW-2 and GP-99, then between N-11847 and GP-37. The downgradient edge of the plume appears to be between N-11850 and NC-20; this is tentative based on these two shallow monitoring points. The western extent of this plume is not as obvious as the plume appears to overlap with the plume to west.

PCE and TCE were detected in GP-20; both increased in concentration with depth. PCE, TCE, and 1,1,1-TCA were detected at moderate levels in GP-23; all decreased in concentration with depth. The typical breakdown products were not detected in appreciable concentrations.

Based on the vertical distribution of PCE and TCE in GP-20, it appears that this point, GP-23, and GP-99 are monitoring the same plume of total PCE. The hypothesis is that a "slug" of DNAPL has migrated downward through the groundwater near 570 Main Street. This accounts for the increasing concentrations with depth at GP-20. It is not known whether the DNAPL is PCE or TCE. Chemical usage and closure testing at 570 Main Street suggest it may be PCE and the noted TCE concentrations are the result of PCE breakdown or a separate upgradient TCE source. The measured concentrations in GP-23 and -99 would then be accounted for as lateral migration from the DNAPL.

In summary, a PCE or TCE spill has occurred in the vicinity or upgradient of GP-20. The most obvious source candidate is 570 Main Street, where there was a documented release of these compounds. Closure work at this site in 1993 identified several areas of apparently heavy contaminant discharge to on-site septic systems and floor drains. Extremely high concentrations of toluene, xylenes, 1,1,1-TCA, PCE, and methyl chloride as well as chromium and cadmium were detected in samples collected from septic systems and floor drains (see Section 5.2.3, 570 Main Street). A septic system and leach pool system located on the northeast (area 2) and

northwest (area 1) corners of the property, respectively, and another septic system (area 3) at the south end of the property were found to be heavily contaminated, as were samples collected from floor drains located within the building. An IRM for the site is awaiting NYSDEC approval.

This evidence appears to identify this property as a potential source of groundwater contamination. However, data also appear to indicate that this potential has not been realized to its fullest extent. During the study described above, several soil samples were also collected from below each septic or leach pool system, from depths of 30 to 50 ft. Analyses indicated that these samples were essentially uncontaminated. The conclusion drawn by the consultant was that the contamination had not migrated to these depths. The absence of significant groundwater contamination, as detected in analyses of samples collected from the GP-37 location immediately downgradient of the southern end of the property, appears to support this conclusion for the leach pool system located there. However, GP-20, located immediately adjacent to the northwest corner of the building, exhibited significant TCE contamination that increased with depth from 220 ppb at 68-70 ft to 2000 ppb at 88-90 ft.

It is important to note that the overall contaminant distribution may be controlled by geologic factors. The contaminants may be moving in the saturated and unsaturated zone with the dip of a relatively restrictive layer. For example, contaminants may be migrating laterally from the source areas along thin clay or hard sand layers, preventing contaminants from reaching deeper depths directly below the source.

1,1,1-TCA was detected in only a few points within the western plumes; at GP-23 1,1,1-TCA decreased with depth from 130 ppb in the 55-75 ft range to 80 ppb in the 75-85 ft range to 80 ppb in the 85-95 ft range. Total TCA was detected in NC-7 at 358 ppb. These two elevated monitoring points do not appear to be related as they are separated by several low total TCA concentration monitoring points (GP-96, -120, -105).

There is documentation of a spill of 1,1,1-TCA at 567 Main Street; it was not detected in samples collected from a monitoring point located immediately downgradient (GP-20), however. The 1,1,1-TCA detected in GP-23 apparently originates somewhere between GP-20 and -23, i.e., the north end of Block 72, and/or represents an older spill of this compound from farther upgradient. The 1,1,1-TCA detected in GP-23 may have originated from 567 Main Street, but at a time previous to the release of PCE and TCE, both of which were detected in GP-20, located immediately downgradient.

6.2.3 Clean Areas

Geoprobe and well sample results indicate that the (approximate) western half of the western section is free of significant (greater than 100 ppb total PCEs, TCAs, or BTEX) VOC groundwater contamination. This area consists of the four properties in Block 330 (460, 468, 474, and 482 Grand Boulevard), Blocks 69 and 141 (the two blocks located between Grand Street and Magnolia Avenue), Block 143 (located between Magnolia Avenue and Garden Street, north of Main Street), Block 144 north of 299 Main Street (between Garden and Hopper streets); Blocks 145, 164, 174, all north of the properties that front along the north side of Main Street; Block 74 between Rushmore and Urban Avenue; the southern half of Block 73; and finally the northern half of Tax Block 70. Several areas in the western section still have insufficient data to determine whether the property should be classified as a source or a clean area. These areas include the southern half of Blocks 71 and 72 and the southeast quadrant of Block 70. The property at 474 Grand Boulevard was subjected to an IRM in 1993 due to two leaking alcohol tanks located at the rear of the building. These tanks reportedly contained none of the VOCs tested for during this study. GP-28, located downgradient from this property, did not encounter any VOC contamination.

6.3 CENTRAL SECTION

The central section of the site is bounded on the west by Urban Avenue, on the east by Bond Street, on the north by the Long Island Rail Road, and on the south by Old Country Road. Extensive total TCA and moderately extensive total DCE contamination was detected in groundwater beneath this portion of the site; no BTEX contamination was detected beneath this section. It appears that there are three separate contaminant plumes in groundwater beneath this section and a single monitoring well (N-9938) that exhibits elevated concentrations of target compounds. Figures 6-8 through 6-20 present the plume maps.

6.3.1 125 State Street Plume

A total TCA plume detected in the vicinity of GP-30 exists below most of Block 181 and the northwest corner of Block 161 (Figures 6-8 through 6-10). The upgradient edge is coincident with 125 State Street. The downgradient edge is possibly in the vicinity of New York Avenue, although this boundary is tentative based on GP-59, -53, and -54 located cross-gradient in the Sylvester Street/New York Avenue block. The western edge is defined by wells GRAYCO MW-3 and ADCHEM-MW-1; the eastern edge is defined by wells N-11842, ADCHEM-MW-2 and NC-4, and GP-85.

Three depth intervals (68-70 ft, 78-80 ft, 86-88 ft) were sampled at the GP-30 location. 1,1,1-TCA and 1,1-DCA were detected in all three samples. 1,1,1-TCA concentrations decreased with depth from 2300 ppb in the upper sample interval to 150 ppb in the lower sample interval. 1,1-DCA, detected at a concentration of 400 ppb in the upper sample interval, increased to 1300 ppb in the middle interval, then decreased to 220 ppb in the lower interval. Low levels of PCE were detected in the lower two sample intervals; a diluted analysis alone was performed on the upper sample, possibly masking low-level total PCE contamination.

A number of soil, groundwater, and surface waters were collected at 125 State Street in an effort to identify a source area. Surface waters (GP-76 [SW], -77 [SW], and -79 [SW]) were retrieved from each of the three leach pools identified during the site inspections. Target compounds were detected in all three pools. The highest concentrations were noted in the westernmost pool (GP-76 [SW]), with 380 ppb 1,1-DCA, 150 ppb 1,1,1-TCA, 5 ppb PCE, 28 ppb toluene, and 136 ppb total xylenes. A single target compound (PCE, 80 ppb) was detected in the middle pool (GP-79 [SW]) while the easternmost pool exhibited 5 ppb of PCE and 26 ppb of toluene.

The soil samples at 125 State Street included a 17-19 ft sample and a 27-29 ft sample from each pool and a single sample at the water table (SGP-79 [47-49]). No target compounds were detected in the soils at the water table or in the 27-29 ft soil sample from each of the pools. Low concentrations of 1,1,1-TCA were detected in the middle and easternmost pool at the 17-19 ft range (SGP-77 [17-19] and SGP-79 [17-19]). High concentrations of methylene chloride (estimated at 1500 ppb) and 1,1-DCA (350 ppb) were detected in the westernmost pool (SGP-76) along with 9.7 ppb of 1,1,1-TCA.

Several monitoring points are located between 200 and 500 ft downgradient of this point; however, these are monitoring wells (ADCHEM MW-2 and -3, NC-4, and N-11845) that screen the 50- to 55-ft interval. 1,1,1-TCA, at concentrations of 9, 51, 26, and 21 ppb, respectively, was detected in samples collected from these wells.

GP-38 is located 500 ft downgradient from GP-30. 1,1,1-TCA and 1,1-DCA were detected at concentrations of 160 and 33 ppb, respectively, in the GP-38 (66-68 ft) sample. These two compounds were detected in the 76-78 ft sample at similar (140 and 29 ppb, respectively) concentrations. The 56-58 ft sample also contained these two compounds, but at very low concentrations, commensurate with those detected in the samples collected from the wells located between GP-30 and -38. The bulk of the contamination found at GP-30 may have sunk to the deeper depths and the downgradient-migrating plume may be predominantly at these depths. Under this assumption the monitoring wells screened across the water table intercept

very little of this contamination as it is migrating horizontally at deeper intervals. Therefore, GP-38 may monitor this deeper zone of contamination that is emanating from the vicinity of GP-30. GP-38 is slightly west of the groundwater flow direction as projected downgradient from GP-30 and could be monitoring the western edge of this (potential) plume. It is possible that high-level contamination exists beneath the area between GP-30 and -38, at intervals deeper than those screened by the monitoring wells in the area.

The source of the GP-30 plume appears to be limited to the property located at 125 State Street, which has a history of 1,1,1-TCA use. NCDOH files record the removal of 550 gal of waste 1,1,1-TCA sludge from the address (source unspecified) on 8 January 1992. Several other instances of 1,1,1-TCA sludge removal are documented during 1992, although the volumes are indeterminate. 1,1,1-TCA was used at this facility in the manufacture of vitamin pills.

The total PCE also detected at low levels (50-100 ppb) in samples collected from GP-38 and monitoring wells ADCHEM MW-1, -2, and -3 and NC-4 are possibly interpreted as being associated with the GP-30 plume, although data from GP-53 suggest a separate source downgradient of GP-53. The concentrations in GP-53 were 49 ppb total TCA and 15 ppb total PCE in the 55-65 ft range. For the 75-85 ft range total TCA was 46 ppb and total PCE was 38 ppb. These values are much lower than those found in GP-38.

6.3.2 Arkwin/Tishcon Plume

A high-concentration plume of total TCA and total PCE contamination was detected to the south of Main Street, between Sylvester and State Streets. The upgradient edge of the total TCA plume and the total PCE plumes appears to be located at Main Street; however, the total TCA plume may extend northward (well N-9938). The contamination at this well and GP-3 (101.6 ppb total PCE) may be from separate, small discharges in these areas north of Main Street. The eastern edge of the plume is estimated as there are few sampling locations between State Street and Brooklyn Avenue. The western edge overlaps the adjacent plume and any boundary is estimated. The exact location of the downgradient edge of the plume was not confirmed; although the well data (N-11854, NC-11, N-11855) indicate that the plumes end before Old Country Road, it is likely that plumes are beneath the bottom of the well screens and extend beyond Old Country Road. The high concentrations at GP-12 and -107 indicate the extent of this.

The history and configuration of this plume is extremely complex and probably the result of multiple releases that have occurred over a number of years. A number of properties appear

to contribute contamination based on upgradient and downgradient groundwater samples and samples collected from suspected sources.

The farthest upgradient points are GP-3, -85, and -84. All had low concentrations (lower than 100 ppb) of the target compounds. Only one depth was tested at GP-3 and -85; at GP-84 concentrations decreased with depth. Downgradient sampling locations at N-9938 (total TCA concentrations of 442 ppb and total PCE concentrations of 161 ppb) suggest a source at 97 State Street near the Brooklyn Avenue side, based on the low concentrations seen in GP-50.

A number of groundwater and soil samples collected at 675 Main Street (Permafuse) indicates that this facility may not be a source of contamination for the large plume to the south. The upgradient (GP-50) and downgradient (GP-47, -45, and -4) groundwater probes had similar concentrations and six soil samples taken at various depths (SGP-45 to -49) showed only low levels (1.4 ppb) of TCE in SGP-48 at 8 to 10 ft.

One of the sources of contaminants of the large plume to the south of Main Street appears to be a series of leach pools along the rear and sides of the Arkwin Industries buildings that run along Main Street. A soil sample (SGP-101) taken 124 ft from Bond Street in a leach pool showed low levels of 1,1,1-TCA (1.9 ppb) and a trace of PCE (0.55 ppb) at 17 to 19 ft. PCE was also detected (5.7 ppb) in an abandoned pool (SGP-103) to the rear of 670 Main Street. 1,1,1-TCA and PCE were also found in SGP-104 located in an abandoned pool off New York Avenue. In the 17-19 ft sample 1,1,1-TCA was found at 4.0 ppb, PCE at 37.0 ppb. The standing water in a leach pool to the rear of 656 Main Street showed 1,1-DCA at 60 ppb, 1,1,1-TCA at 320 ppb, and PCE at 29 ppb.

GP-10, -11, -80, -82, and -55 are all located in the middle of the detected plume. Contaminant concentrations at these locations increased from the upgradient points and decreased slightly with depth. A possible explanation for the higher concentrations downgradient from GP-113 is that there is another source in the middle of the plume. It should be noted that the properties located at 30 and 36 New York Avenue (Tishcon Corporation) immediately upgradient and adjacent to GP-11, -80, -82, and -55, respectively, also have a history of 1,1,1-TCA spills and large-volume 1,1,1-TCA usage associated with the manufacture of vitamin pills.

NC-24 may be located very near a source of this contamination. The extremely high concentration detected from samples collected from NC-24 suggests a rather recent discharge that has not had time to migrate to deeper intervals. The suspected source of this contamination is the former leach pool at 33 Brooklyn Avenue. Past testing of this pool by NCDOH showed 21,000 ppb of 1,1,1-TCA. It is probable that other abandoned leach pools exist at the buildings

currently and formerly occupied by Tishcon. Shallow soil probes were advanced in many of the alleys to locate any former pools. These locations are shown on the figures. If no data are reported, it indicates that no mobile laboratory analyses were conducted because the soils appeared clean and no positive PID/FID readings were noted.

The GP-10, -11, -12, and -15 locations exhibited moderate to high contamination in the deeper sample intervals (75-90 ft). The GP-10, -12, and -15 locations are near the downgradient edge of the plume, as detected in the samples collected and analyzed; monitoring wells N-11854 and -11855 and NC-11 are located slightly farther downgradient, and analysis of samples from these wells detected virtually no contamination. However, as is apparent from inspection of shallow-well and deeper Geoprobe sample results from elsewhere on-site, it is possible, even likely, that groundwater contamination exists at these well locations at intervals deeper than those screened by the wells. For example, the shallow sample from GP-12 exhibited contaminant concentrations at least half the levels of the deeper sample intervals. This suggests the possibility that higher concentrations exist below monitoring wells that screen the water table, but that these concentrations will go undetected.

6.3.3 Sylvester Street/Kinkel Street Plume

Moderately high total TCA and total PCE contamination was detected south of Main Street between Sylvester and Kinkel streets. The upgradient boundary is not clearly defined. As discussed above, GP-59 and -53 and ADCHEM-MW-3 appear to separate the plume south of Main Street from the plume north of Main Street. GP-38 (total PCE of 193 ppb and total TCA of 156 ppb at 55-75 ft) suggests that this is the upgradient extent of the plume; however, lower concentrations at GP-35 and -60 suggest either a separate source or that these points are on the edge of a narrower plume. A higher concentration at the southern end of the plume suggests a second source in this vicinity. The western edge of the plume is defined by GP-17 and NC-3. The eastern edge overlaps the adjacent plume. The downgradient edge is indeterminate, based on the lack of downgradient control.

Contamination decreases slightly with depth at GP-15 and increases moderately with depth at GP-14 between the 56-58 and 66-68 ft samples; the relatively low contaminant levels detected at this point appear to separate it from the GP-30 plume (see Section 6.3.1). Although no samples were collected below 68 ft at GP-14, it is likely that the contamination extends deeper. The GP-15 sample results indicate that contamination had not migrated below 88 ft at this location. The virtual lack of contamination in the GP-15 sample at 88-90 ft suggests a confining layer or lens at this location, between a depth of 80 and 88 ft.

In GP-51 the TCA and PCE concentrations were relatively constant with depth. In the 55-75 ft range total TCA was measured at 138 ppb and total PCE was 2563 ppb. This suggests a source upgradient of this location since the contaminants appear to have been in the groundwater long enough to disperse into a relatively uniform concentration plume with depth. The sampling data from DOAK-MW-1 and -MW-2 seem to suggest that this property (67 Sylvester Street) is contributing to the contamination. Both wells are water table wells: DOAK-MW-1 is the upgradient well; DOAK-MW-2 is the downgradient well. Total TCA was 134 ppb in DOAK-MW-1 and 578 ppb in DOAK-MW-2. The total PCE concentrations in DOAK-MW-1 and -2 were 103 and 141, respectively. Soil samples collected in two leach pools (SGP-108 and -109) found at 67 Sylvester Street showed only a trace of 1,1,1-TCA (1.61 ppb) and PCE (0.7 ppb) in the westernmost pool (SGP-109). However, these pools may have been cleaned out recently.

The contamination in GP-38 suggests that 625 Main Street (J.B. Tool and Die) may be contributing to the groundwater contamination found in this area. However, a source area could not be found at this address. A leach pool at the site contained only trace amounts of 1,1,1-TCA (0.36 ppb) and PCE (0.54 ppb) in a soil sample collected from 17 to 19 ft (SGP-54).

Possible sources for this plume of contamination include 625 Main Street (located immediately upgradient of GP-38), 49 Sylvester Street (which has a history of 1,1,1-TCA use by a previous occupant), 67 Sylvester Street (no records on file of any occupants or use of property until 1990; property is linked to 62 Kinkel Street, which has a history of TCE use by a former occupant), 68 or 70 Kinkel Street (metal recycling transfer stations), 69 Sylvester Street (salvage hauler), or 33 Sylvester Street (Arkwin Industries). Based on the limited data, the most likely sources contributing the most contamination are 67 Sylvester Street (Doak Dermatologies) and 49 Sylvester Street (Micro-Ray Corporation).

6.3.4 Monitoring Well N-9938

Although not defined as a distinct plume since it is a single isolated value, monitoring well N-9938 exhibits elevated levels of total TCA. In N-9938 total TCA was 439 ppb while two upgradient points, GP-84 and -3, exhibited total TCA concentrations of 13.4 and 6.8 ppb, respectively (Figure 6-8). Based on the cross-gradient points (GP-50 and -85) and downgradient points (GP-4, N-11845, and GP-4), it does not appear that this contamination is really extensive. The likely source for this contamination is 95 and 97-99 State Street, currently occupied by Metpar Steel Products. 1,1,1-TCA was used by Metpar Steel Products for three years starting in 1986.

6.3.5 Clean Areas

Geoprobe and well sample results indicate that several properties in the central section were free of subsurface VOC contamination. These properties include those at 96 and 100 Urban Avenue (Tax Block 178, western half), 1025 Old Country Road (Tax Block 80, lots 209-213, 236, 245, 248-251), 110 and 120 New York Avenue (Tax Block 181, lots 78 and 83), the southern portions of Tax Blocks 160 and 181, and the property on the corner of State and Summa (Tax Block 181, lot 76). Several other areas in the central section still have insufficient data to determine whether the property is a source or a clean area. These areas include Tax Blocks 161 and 58 and portions of Blocks 178, 180, 75, 76, 77, 78, 79, 80, 181, and 160.

6.4 EASTERN SECTION

The eastern section of the site is bounded on the south by Old Country Road, on the west by Bond Street, on the north by the Long Island Rail Road, and on the east by Frost Street. This entire region is also known as Tax Block 328. Two separate groundwater contamination plumes were detected beneath this section: one a high-concentration plume, the other a low-to-moderate concentration plume. Figures 6-21 through 6-27 present the plume maps.

6.4.1 East Main Street

The high-concentration plume was detected beneath the eastern-central portion of the eastern section of the site. Monitoring well ANSON-MW-7 demarcates the upgradient edge of the total TCA plume. GP-32 and -75 appear to be located near the middle of the total TCA plume, exhibiting high levels of both 1,1,1-TCA and breakdown products. The total TCA plume appears to increase in concentrations with depth at GP-97 and -32. The downgradient extent of the total TCA plume appears to be in the vicinity of GP-72, with levels of total TCA at 11 ppb in the 75-85 ft range. An 85-95 ft sample was not collected at GP-72 to confirm this, however. The data for the shallow depth range (55-75 ft range) suggest that the source of the total TCA plume is 776-790 Summa Avenue or 101 Frost Street. Shallow soil samples collected at 776-790 Summa Avenue did not indicate a source for the total TCA plume in the shallow soils.

The total PCE plume in the eastern section represents the highest contaminated groundwater in the NCIA. The upgradient extent of this plume is in the vicinity of GP-75 and extends downgradient of GP-73 and -31. Generally, concentrations increase with depth. The only point where samples were taken from all three depth zones was GP-32. At this location measured concentrations of total PCE increased from 2294 ppb at 55-75 ft to 2513 ppb at 75-85 ft to 5526

ppb at 85-95 ft. The extremely high concentration of PCE in GP-97 (75 to 85 ft range) at 92,000 ppb suggests a DNAPL is present near GP-97.

The source of the total PCE is not obvious. There are three possible explanations to explain the presence of this plume. First, a release from 101 Frost, 89 Frost, 717 Main, 770 Main or the rear of 1111 Old Country Road may account for the noted contamination. No releases of PCE, TCE, or DCE have been documented at these properties, however. Another possible explanation is that a former undocumented use of the area in the vicinity of the Tops parking lot accounts for the contamination. This explanation is supported by unsubstantiated reports that this area was formerly a paint manufacturing facility. The final possibility is that the contamination is the result of DNAPL movement along some restrictive geologic stratum. This explanation is supported by the perched groundwater mound centered around ANSON-MW-9, which indicates complex structures in the underlying material that may control the way water and/or a DNAPL would move.

6.4.2 GP-1/GP-39 Plume

A groundwater contamination plume was detected beneath the southwestern corner of the eastern section of the site, i.e., along the east side of Bond Street between Main Street and Old Country Road. GP-65 demarcates the upgradient edge of the plume and GP-1 is located at an indeterminate point in the body of the plume. The elevated concentrations measured in GP-31 in the 55-75 ft range (PCE 300 ppb, TCE 10, and 1,1,1-TCA 15 ppb) may also be part of this plume and caused by contaminant migration controlled by the silty confining layer in this area. It may also indicate that this plume is the western end of the larger plume to the east.

PCE, TCE, and 1,1- and 1,2-DCE were detected in the GP-39 (61-63 ft) sample at concentrations of 85, 32, 7.8, and 39 ppb, respectively. 1,1,1-TCA and 1,1-DCA were detected at concentrations of 69 and 20 ppb, respectively. The GP-39 (55-57 ft) sample (results not displayed on the figures or plates) exhibited slightly lower levels of these same compounds. No samples were collected below 63 ft at GP-39. GP-1 (68-70 ft) exhibited comparatively higher PCE and 1,2-DCE contamination but relatively little 1,1,1-TCA and no 1,1-DCE contamination. No samples were collected below the 68-70 ft interval at GP-1. As discussed in Section 4.1.2, a localized confining layer or lens exists at the GP-1 location as well as at the ANSON-MW-9 location. ANSON-MW-9 is screened in very tight clayey silt, which is why relatively little contamination was detected in a sample collected and analyzed from this well. The contamination appears to be migrating below the clayey silt lens (whose lower surface is at an elevation of approximately 65 ft, determined from soil samples retrieved at GP-1), and was detected in the GP-1 (68-70 ft) groundwater sample.

The most likely source for this plume is the property at 700-712 Main Street, which has a history of waste discharge to several on-site cesspools and drywells. NCDOH oversaw a removal action in late 1989 in which the cesspools and drywells were pumped and cleaned. Precleaning analyses of water and sludge from the cesspools and drywells indicated heavy dichlorobenzene, 1,1,1-TCA, PCE, TCE, 1,2-DCE, and toluene contamination. Several Geoprobe (GP-66, -67, and -65) completed in or near several leach pools on the property did not indicate that these areas continue to act as a source.

Owing to the complex geology below this part of the eastern section, a definitive conclusion as to the actual source of the observed contamination cannot be made. It is likely that the underlying geology controls contaminant migration and plume configuration in this area and, in addition to 700 and 50, 44, and 26 Bond Street, should be viewed as potential sources.

6.4.3 Clean Areas

Geoprobe and well sample results indicate several properties in the eastern section that are free of significant subsurface VOC contamination over the depth ranges investigated. These properties include those located along the north side of Summa Avenue (Tax Block 328, lots 144, 157, 160, 174, and 175); those properties in the southeast corner of the site (Tax Block 328, lots 170, 148, 150, 158, 152, and 124); and several properties near the corner of Summa Avenue and Bond Street (Tax Block 328, lots 173, 172, 23-29, 29-40, and 40-45).

In addition, several properties near the corner of Old Country Road and Bond Street (Tax Block 328, lots 183, 112, and 73-77) appear free of target compound contamination based on prior uses of these properties.

CHAPTER 7

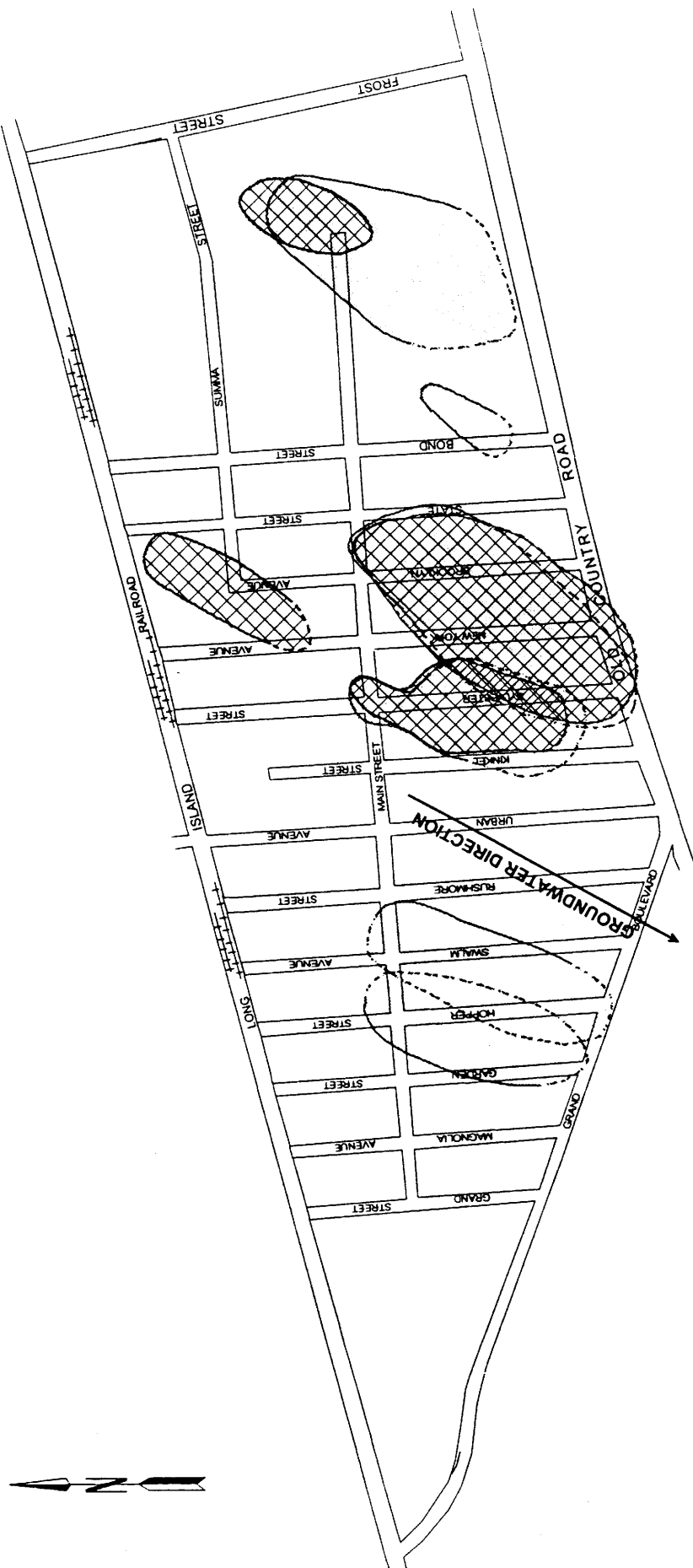
RECOMMENDATIONS

The site investigation results have identified several areas exhibiting significant groundwater contamination within the NCIA. As illustrated in Figure 7-1, the bulk of the contamination is centered in three areas within the site - one in each of the western, central, and eastern sections. In each of these contaminated areas separate plumes based on the contaminants, the concentrations, and sources can be subdivided. LMS has detected two plumes in the western section, three in the central section, and two in the eastern section. Beyond these plume areas, the remaining area of the NCIA appears to be relatively uncontaminated.

Following the objectives stated in Chapter 2, LMS recommends that the NCIA site be removed from the hazardous site listing and that individual properties that appear to be the sources of the contaminant plumes be relisted as individual sites. Delisting of the whole site would delist or remove the blocks/lots with little or no contamination; relisting of individual properties would put back specific, named sites that will require remediation or additional investigations. It should be noted that while no evidence of significant groundwater contamination was noted in many areas, some contamination may exist at greater depths within the aquifer. It is unlikely, however, that these areas are the source of the contamination.

According to Title 13, Article 27, of the State Environmental Conservation Law, the Registry of Inactive Hazardous Waste Sites must include all known hazardous waste sites. To be included in the registry, it must be confirmed that hazardous wastes were disposed of or are present on the site. Sites with confirmed hazardous wastes are then classified according to the effects of that contamination on the environment or human health. Classification 2 is for sites for which there is information sufficient to determine that they pose a significant threat to the public health or environment; Classification 2a is for sites with insignificant information to make a significant threat determination; Class 3 is for sites that do not pose a significant threat. Sites without documentation of hazardous waste disposal are not included on the registry; however, they may be investigated further if it is suspected that hazardous wastes were disposed of.

At the NCIA site past studies and this investigation have documented a significant impact to the environment and threat to the public health: measured contaminant concentrations in an aquifer connected to a drinking supply aquifer are orders of magnitude higher than drinking water standards. This investigation has narrowed the impacted area to seven major plumes and identified individual facilities/properties on-site within these areas that may be the source of the



LEGEND

 Total PCE plume (PCE, TCE, DCEs, VC), >100 ppb

 Total TCA plume (1,1,1-TCA, DCAs), >100 ppb

FIGURE 7-1

**CONTAMINANT PLUMES
1993-1994 INVESTIGATION**

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

LAWLER, MATUSKY & SKELLY ENGINEERS
Pearl River, New York

contamination. Documentation of hazardous waste disposal related to the contaminated plume at these sites was developed as follows:

- Suspected sites were identified either by existing or past site use, file data, or location within a highly contaminated plume area.
- Through additional file or report research or information obtained during site inspections and/or site sampling, documentation of chemical usage and source data was obtained. Chemical usage documents the chemical and amounts used currently or (more importantly) in the past at the sites. Past usage is particularly important because prior to the late 1970s and 1980s the entire NCIA used septic systems for waste disposal. Source data refer to sampling data that indicate the presence of contaminant chemicals on-site, usually in old seepage pits.
- The monitoring well and Geoprobe data were analyzed for each site to determine upgradient and downgradient contaminant concentrations. In general, if the downgradient concentrations were three times the upgradient concentrations of the same contaminant, then it would appear that the site was responsible for a release of that contaminant.
- If the chemical usage or source data correlate with the plume data, i.e., the same or related chemicals, then it is reported that hazardous waste disposal documentation exists for that site and the site should be relisted on the registry.

A summary of the analysis for each suspected site is presented on Table 7-1. Interpretation and recommendations for each site are presented below, grouped according to section and plume areas.

7.1 WESTERN SECTION

In this section of NCIA two apparently overlapping contaminant plumes were detected; for the most part they are south of Main Street and between Rushmore and Garden streets. One of the plumes (the 570 Main Street plume) appears to have a well-defined source property; the other (Garden Street/Hopper Street plume) may have several source properties.

TABLE 7-1 (Page 1 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
Garden Street/Hopper Street Plume:							
299 Main Street	One Stop Auto and Truck	SAM-TON Salvage Island Transport Crestwood Bus	GP-88/GP-22	TCE PCE 1,2-DCE	ND/11 4.8/50 ND/13	Island Transport TCE-80 gal	None
95 Hopper Street	Bilt-Rite Steel-Buck	Bilt Rite Steel IMC Management Corp. JGL Metal Door	GP-95/GP-24	1,2-DCE TCE PCE	140/2300 89/170 170/2.2	Paint Paint Thinners	None
90 Hopper Street	Bilt-Rite Elevator	Inter. Crbbn. Tishp&Singer Brdcst Contemporary Pack. Philamon Inc.	GP-20/GP-23	1,2-DCE 1,1,1-TCA TCE PCE	7.2/4.8 2.8/130 220/240 55/280	No usage history	None
86 Garden Street	Harmon Associates	Harco Trucking Island Transit	GP-106/Harmon MW-1	1,2-DCE 1,1,1-TCA TCE PCE	200/2300 5/10 180/660 9/58	No usage history	None

TABLE 7-1 (Page 2 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
110 Hopper Street	Flexitherm	Contemporary packing	GP-62/GP-95	1,2-DCE 1,1,1-TCA TCE PCE	BQL/140 1.1/ND 67/89 230/170	No usage history	None
534 Main Street	IET Labs	Numerous	GP-63/GP-24	1,2-DCE 1,1,1-TCA TCE PCE	25/2300 ND/ND 1.1/170 1.8/2.2	No usage history	None
542 Main Street	Al's Tool & Die	Not available	GP-62/GP-24	1,2-DCE 1,1,1-TCA TCE PCE	BQL/2300 1.1/ND 67/170 230/2.2	No usage history	None
570 Main Street Plume:							
567 Main Street	Atlas Graphics	Westbury Mill and Supp. Intra Street Electromatic Heating M. Saks Burton Building	N-11843/GP-20	TCE PCE	38/220 12/55	Atlas Graphics 312 gal/yr TCE	TCE 4500 ppb 32 ppm
570 Main Street	Vacant Castle Collision	IMC Magnetics	NC-17/GP-20	TCE PCE	ND/220 ND/55	IMC 810 gal/yr	TCA 668 ppb 14%

TABLE 7-1 (Page 3 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
125 State Street Plume:							
125 State Street	Tischon Corporation	Not available Tischon since 1986	GP-8/GP-30	1,1,1-TCA	ND/2300	TCA use reported during site inspection	TCA 285 ppb
Arkwin/Tischon Plume:							
648-656 Main Street	Arkwin Industries	None listed	AIMW-656MAIN-U AIMW-656MAIN-D	1,1-DCA 1,1,1-TCA TCE PCE	2.1/48 23/840 3.0/840 1.3/32	1,1,1-TCA 275 gal	None
662-670 Main Street 66 Brooklyn Ave.	Arkwin Industries	S.W. Anderson Sales	GP-115 Almw-670-M-D	1,1-DCA 1,1,1-TCA TCE PCE	ND/45 ND/720 ND/56 ND/360	1,1,1-TCA 275 gal	None
75 State Street	Huron Tool	Salem Company	GP-115/GP-114	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	ND/54 ND/14 ND/160 ND/58 ND/BQL	TCE-20 gal/yr	None

7-2A3

TABLE 7-1 (Page 4 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRAIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRAIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
54 Brooklyn Ave.	Kwik-Ezee Inc.	None listed	GP-44/GP-110	1,1-DCE 1,1-DCA 1,2-DCE 1,1,1-TCA TCE PCE	10/46 7.4/22 14/4.9 22/300 7.3/12 9.9/80	1,1,1-TCA 1 gal/yr	None
30 New York Ave. 36 New York Ave. Associated Brooklyn Ave. addresses	Tischon	Numerous	GP-110/GP-10	1,1-DCE 1,1-DCA 1,2-DCE 1,1,1-TCA TCE PCE	46/540 22/150 4.9/20 300/3200 12/92 80/84	1,1,1-TCA 16,000 gal/yr	TCA 21000 ppb
29 New York Ave.	Nationwide Warehouse	Tischon and others	Lacking GP-55	1,1-DCE 1,1-DCA 1,2-DCE 1,1,1-TCA TCE PCE	1,100 320 39 2,900 670 280	1,1,1-TCA	None

TABLE 7-1 (Page 5 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADE POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADE POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
Sylvester/Kinkel Street Plume:							
629 Main Street	J.B.Tool and Die	Micro-Slides Tool Specialists	GP-53/GP-38	1,1-DCA 1,1,1-TCA TCE PCE	12/4.9 37/26 5.7/BQL 15/7.9	None	TCA Trace PCE Trace
65 Kinkel Street	Parfuse	W.E. Gebert Inc. American TV Esmond Giftware Oliver Sound	GP-81/GP-17	TCE PCE	25/77 15/77	PCE 55 gal/yr	None
68 Kinkel Street	Industrial Mets	Tischon	GP-61/GP-14	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	BQL/30 14/39 75/450 25/93 15/15	Tischon 1,1,1-TCA 1650 gal/yr	None
38 Kinkel Street	Glassblock Warehouse	Bamkin Window Bamkin Lock Tempo Press	GP-51/GP-15	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	160/66 27/73 120/93 470/2200 130/89	Tempo unknown solvent used as rollerwash (MeCl?)	None

TABLE 7-1 (Page 6 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
49 Sylvester Street	Micro Ray	Int'l Ribbon Blake Construction Empire Machines	Doak MW-1/ GP-117	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	25.9/15 BQL/14 134/94 14/95 63/9	Int'l Ribbon TCA 500 gal/yr	None
62 Kinkel Street 67 Sylvester Street	Doak	LAKA Industries	GP-35/GP-14	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	9.9/20 7.2/150 67/360 20/22 19/25	LAKA TCE-55 gal/yr	None
33 Sylvester Street	Arkwin Industries	None reported	GP-117/GP-51	1,2-DCE 1,1-DCA 1,1,1-TCA TCE PCE	14/73 18/14 94/120 95/2200 9/99	No usage history	None
Monitoring Well N-9938:							
95 State Street 97-99 State Street	Metpar Steel Products	None	GP-84/N-9938	1,1,1-TCA	8.5/410	1,1,1-TCA	None

TABLE 7-1 (Page 7 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRAIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRAIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
Block 328 Plume:							
750 Main Street Old Country Road ?	Tops Parking	Nationwide Paint? Fortunoffs	GP-32/GP-97	1,2-DCE 1,1,1-TCA TCE PCE	48/3600 220/57 46/3700 2200/46000	None reported. Files do contain reference to the discovery and disposal of 37 drums of solvents from the site.	None DNAPL suspected.
GP-1/GP-39 Plume:							
700 Main Street	Utility Mfg. Co.	Wonder King Chemical	GP-65/GP-39	1,1-DCA 1,2-DCE 1,1,1-TCA TCE PCE	6/13 1.2/33 23/37 1.6/22 19/42	TCE 1500 gal/yr	DCE 36 ppm TCA 6 ppm TCE 7 ppm PCE 7 ppm

TABLE 7-1 (Page 8 of 8)

SUSPECT PROPERTIES WITHIN THE IDENTIFIED PLUME AREAS
New Cassel Industrial Area

PROPERTY ADDRESS	EXISTING USE	PAST USE	UPGRADIENT POINT/ DOWNGRADIENT POINT	CHEMICAL OF CONCERN	UPGRADIENT POINT/ DOWNGRADIENT POINT (ppb)	CHEMICAL USAGE	SOURCE DATA
710-712 Main Street	Utility Mfg. Co. ? Tops ?	Wonder King Chemical Utility Mfg. Co.	GP-65/GP-39	1,1-DCA 1,2-DCE 1,1,1-TCA TCE PCE	6/13 1.2/3.3 23/37 1.6/22 19/42	Wonder King 1,1,1-TCA 500 gal/yr TCE 1500 gal/yr	None
684 Main Street	Reliable Machine Works	None reported	GP-64/GP-116	1,1,1-TCA TCE PCE	13/72 8.3/ND 2.7/ND	No usage history	None
50 Bond Street	Precision Mechanisms	Double D Apparel T1 Knitting Mills Lasondra Ruffles Fashions Ilana Knitting Diegem Comate Corp./Cymann Designs A&M Rosenberg/Westbury Furn. Wrhse	GP-65/GP-116	1,1,1-TCA TCE PCE	23/72 1.6/ND 19/ND	No usage history	None
44 Bond Street	Robert Allen	Physio-Fitness	GP-39/GP-1	1,5-DCE 1,1,1-TCA TCE PCE	33/380 37/5.7 22/78 42/220	No usage history	None

7.1.1 Garden Street/Hopper Street Plume

This plume is primarily composed of TCE and its breakdown products. It was detected in GP-22, -62, and -105 and HARMON-MW-1. In general, it appears that concentrations increase with depth. PCE from a separate source or overlap from the 570 Main Street plume was also detected in several of the monitoring points. It appears that a release of target compounds has occurred in the vicinity or upgradient of GP-62. The properties that fall within this plume area and our recommendations are as follows:

- **One Stop Auto and Truck Center**, 299 Main Street (Tax Block 145, lots 37-44). This is the only address within this plume area that has a documented use of a target compound. A former use at the site, Island Transport, reportedly used 80 gal of TCE per year. Several groundwater (GP-86 and -88) and soil (SGP-86 and -88) samples did not identify a source of chlorinated compounds. BTEX compounds were found. The downgradient point (GP-22) was not significantly elevated in comparison to the upgradient point (GP-88). The data do not support a correlation with the major contaminant plume; therefore, it is recommended that this site not be included in the registry at this time.
- **Flexitherm Corporation**, 110 Hopper Street (Tax Block 145, lots 31-37). This address is located at the very upgradient edge of this plume. The chemical usage history indicates chemicals are used at the address, but they are not chlorinated compounds. This address should be considered a suspected hazardous waste site and additional investigation may be needed.
- **IET Labs**, 534 Main Street (Tax Block 71, lots 1-4). This address is located near the upgradient edge of this plume. The chemical usage history and past uses at this address do not indicate that this address is the source. The downgradient sampling point, GP-24, does, however, exhibit high concentrations. This address should be considered a suspected hazardous waste site and additional investigations may be needed.
- **Al's Tool and Die**, 542 Main Street (Tax Block 71, lots 5-8). This address is also located near the upgradient edge of the plume and is just east of 534 Main Street. Again, the chemical use history does not indicate that this address is the source, but the downgradient point (GP-24) does exhibit high concentrations. This address should be considered a suspected hazardous waste site and additional information may be needed.
- **Harmon Associates**, 86 Garden Street (Tax Block 71, lots 16-17). This address is currently used by Harmon Associates as office space. There is no documented chemical usage. The downgradient sample, HARMON MW-1, does exhibit elevated concentrations of DCE (2300 ppb) and TCE (660 ppb). This address should be considered a suspected hazardous waste site based on the high downgradient concentrations.

- **Bilt-Rite Steel-Buck**, 95 Hopper Street (Tax Block 71, lots 9-15 and 50-58), and **Bilt-Rite Elevator**, 90 Hopper Street (Tax Block 71, lots 14-17 and 59-62). These two addresses also exhibit high downgradient vs upgradient concentrations. Both use large quantities of paints and thinners, but the file review information does not specify types. These addresses should be considered as suspected hazardous waste sites based on high downgradient concentrations.

7.1.2 570 Main Street Plume

This total PCE plume falls roughly between NYT MW-2 and GP-99, then between N-11847 and GP-37. Along its western extent it likely overlaps with the Garden Street/Hopper Street plume. Two properties appear to be the source of this plume.

- **Former IMC Magnetics facility**, 570 Main Street (Tax Block 73, lots 1-12 and 63-75). This property, which currently houses **Castle Collision**, was used by IMC Magnetics for a number of years. IMC Magnetics reportedly used up to 810 gal of TCE per year. Three separate source areas and a number of floor drains have been observed at the site. These source areas contain elevated levels of target compounds and metals (TCA concentrations up to 668 ppb and PCE concentrations up to 14%). The upgradient sampling point (NC-17) for this property did not detect TCE or PCE, while the downgradient sample contained TCE at 220 ppb and PCE at 55 ppb. This address should be listed as a hazardous waste site. An IRM should also be conducted to remove the most heavily contaminated source areas that may be impacting the groundwater.
- **Atlas Graphics**, 567 Main Street (Tax Block 164, lot 66). This address has a reported use of 312 gal/year of TCE by Atlas Graphics and a documented discharge of TCE to a cesspool in 1977. The downgradient point (GP-20) showed elevated concentrations of TCE (220 ppb) and PCE (55 ppb), while the upgradient sample showed concentrations of TCE at 38 ppb and PCE at 12 ppb. This address is recommended to be listed as a hazardous waste site.

7.1.3 Clean Areas in Western Section

Based on data collected during the site investigation, a large portion of the western section can be delisted as these areas are free of significant VOC groundwater contamination. These areas include the addresses that fall within Block 330 (460, 468, and 482 Grand Boulevard); Blocks 69 and 141 (area between Grand Street and Magnolia Avenue); Block 143; Block 144 north of 299 Main Street; Blocks 145, 164 (except lot 66), 174, and 178 north of the properties along Main Street; Block 74, and Block 174.

7.2 CENTRAL SECTION

Three separate plumes of extensive total TCA and moderately extensive total PCE were detected in the groundwater beneath this portion of the site. One of the plumes (125 State Street plume) has a well-defined source property. Another appears to have multiple sources (Tishcon/Arkwin plume). The third also has multiple sources but documentation is weak.

7.2.1 125 State Street Plume

This plume of 1,1,1-TCA and 1,1-DCA was detected in a number of sampling points, including GP-30, -77, -78, and -79. Generally this plume contains moderate to high concentrations of TCA/DCA that tend to decrease with depth. The source of this plume appears to be isolated to a single property.

- **Tishcon Corporation**, 125 State Street (Tax Block 181, lot 84). This address has been in use since 1986 by Tishcon Corporation, which reportedly uses TCA. There is a documented release to a series of three leach pools located along the southern property boundary. Additional sampling conducted during the site investigation detected target compounds in the standing surface water of these pools, the soils around the pools, and the groundwater below the pools. The upgradient point (GP-8) did not contain 1,1,1-TCA, while the downgradient point (GP-30) showed 1,1,1-TCA at 2300 ppb. This address should be listed as a hazardous waste site.

7.2.2 Arkwin/Tishcon Plume

The configuration and chemical composition of this plume is extremely complex. Based on the data, a number of properties appear to have contributed to the contamination. Therefore, a number of sites will be recommended for listing. The range of contaminants detected in this plume includes all the target list compounds. Concentrations range from approximately 100 to almost 100,000 ppb (100 ppm) in NC-24. The major contributors to this plume include Arkwin Industries and Tishcon Corporation.

- **Arkwin Industries**, 648-656 Main Street (Tax Block 78, lots 1-8); 662-670 Main Street (Tax Block 79, lots 1-8), 66 Brooklyn Avenue (Tax Block 79, lots 266-270). These addresses currently occupied by Arkwin Industries front along the south side of Main Street between Bond Street and Brooklyn Avenue. Arkwin Industries has a reported use of 275 gal of 1,1,1-TCA/year. For each of the addresses the downgradient samples has significantly greater concentrations of 1,1,1-TCA, and 1,1,1-TCA was found (GP-111 SW, 1,1,1-TCA 320 ppb) in the

leach pool to the rear of 656 Main Street. These addresses should be listed as a single hazardous waste site based on usage and the available sampling data.

- **Tishcon Corporation**, 30-36 New York Avenue (Tax Block 18, lots 78 and 19-21), Brooklyn Avenue (Tax Block 78, lots 79 and 56-58), and 29 New York Avenue (Tax Block 77, lots 47-50). These active or former Tishcon facilities have usage histories of 1,1,1-TCA up to 16,000 gal/year. In all cases the downgradient samples contain extremely high concentrations of target compounds. In addition, a well-documented release to a leach pool along Brooklyn Avenue resulted in 1,1,1-TCA concentrations of 21,000 ppb in the pool. These addresses should be listed as a single hazardous waste site based on the extremely high usage and sampling data.
- **Huron Tool**, 75 State Street (Tax Block 79, lots 63, 64, 303, and 312) and **Kwik Ezee**, 54 Brooklyn Avenue (Tax Block 79, lot 314). These addresses may have also potentially contributed to this plume. However, based on the low chemical usage and lack of an uncontaminated upgradient sample, it is unlikely these addresses were major contributors. These addresses should not be listed as a hazardous waste site at this time.

7.2.3 Sylvester Street/Kinkel Street Plume

This plume contains moderately high total TCA and total PCE and appears to be another multiple source/multiple contaminant plume. Although several suspected source areas (leach pools) were sampled during the site investigation, only trace levels of target compounds were detected and no clearly defined source could be located. However, based on the chemical use and history, the following recommendations are made for the properties within this plume area.

- **Industrial Mets**, 68 Kinkel Street (Tax Block 76, lots 9-12). This address is currently occupied by Industrial Mets, a roll-off service, which does not use any chemicals. File review information indicates that Tishcon Corporation occupied the site and had a chemical usage of 1650 gal of 1,1,1-TCA. The upgradient monitoring point (GP-61) contained lower concentrations of all target compounds than the downgradient point (GP-14). Downgradient concentrations of 1,1,1-TCA were 450 ppb, while the upgradient concentration was 75 ppb. This site should be listed as a hazardous waste site.
- **J.B. Tool and Die**, 629 Main Street (Tax Block 180, lots 36-39). This address is currently occupied by J.B. Tool and Die. No references to chemical usage of target compounds were found for this address, and source samples showed only traces of TCA and PCE. This address should not be listed as a hazardous waste site.
- **Parfuse**, 65 Kinkel Street (Tax Block 75, lots 114 and 177). This address has been used by several different businesses over the years. Parfuse has a reported

use of 55 gal of PCE per year; however, the downgradient monitoring point (GP-17: TCE 77 ppb, PCE 77 ppb) is only slightly elevated over the upgradient point (GP-81: TCE 25 ppb, PCE 15 ppb). This site should not be listed as a hazardous waste site based on low usage and low downgradient concentrations.

- **38 Kinkel Street** (Tax Block 76, lots 22-29). **Glassblock Warehouse** currently occupies 38 Kinkel Street, formerly occupied by Tempo Press, which used an unknown type of solvent as part of a printing process. Since the data indicate that the site may be contributing to the contaminant plume and the potential chemical usage, it is recommended that this site be considered a suspected hazardous waste site.
- **49 Sylvester Street** (Tax Block 76, lots 66-68). This address is currently occupied by **Micro-Ray Corporation**. A past use of this site was by International Ribbon, which had a reported significant (500 gal/year) use of TCA. Although the immediate downgradient samples did not indicate that this site contributed to the TCA plume beneath the area, the past usage and possible movement of the plume over time does indicate that the site should be considered a suspected hazardous waste site that may require additional investigations.
- **62 Kinkel Street and 67 Sylvester Street** (Tax Block 76, lots 13-15 and 69-72). These addresses are currently occupied by Doak Dermatologies. A former use at the site by Laka Industries documents 55 gal/year of TCE usage; however, the upgradient and downgradient samples show similar levels of total PCE. Based on past usage and higher concentrations farther downgradient, it is recommended that the site be considered a suspected hazardous waste site.
- **33 Sylvester Street** (Tax Block 76, lots 57-65). This address is currently occupied by Arkwin Industries. Although no usage history is available, the downgradient sample exhibits high concentrations of TCE. This site should be considered a suspected hazardous waste site.

7.2.4 Monitoring Well N-9938

Although not defined as a distinct plume since it is a single, isolated high concentration, this well (N-9938) contains elevated levels of total TCA.

- **Metpar Steel Products**, 95 and 97-99 State Street (Tax Block 161, lots, 41, 42, and 5-8). Although the contaminant concentration in well N-9938 is not extremely elevated, it does appear to be several orders of magnitude greater than nearby samples (GP-3, -84). Well N-9938 is located directly downgradient of a known usage of 1,1,1-TCA by Metpar. This address should be listed as a hazardous waste site.

7.2.5 Clean Areas in Central Section

Areas in the central section that appear free of subsurface contamination include the western portion of Blocks 178 and 74, the southern portion of Blocks 181 and 160, the properties in Blocks 79 and 80 that front along Old Country Road, and the northern portion of Block 77.

7.3 EASTERN SECTION

Two separate groundwater contamination plumes were detected beneath this section of the site: one a fairly high-concentration plume, the other a low- to moderate-concentration plume.

7.3.1 East Main Street Plume

This high concentration total TCA, total PCE plume contained the highest single concentration of PCE (92,000 ppb) measured in the Geoprobe groundwater samples. The extremely high concentration of total PCE suggests that DNAPL may be present in this area; moderate to high concentrations of total TCA are also found. The source of these contaminants is not obvious, and possible explanations for the contaminants range from former site uses to undocumented former uses to geologic controls defining the contaminant migration.

- **Nationwide Paint (?)**, 750 Main Street (Tax Block 328, lot 178). This address no longer exists; however, file review information and undocumented reports indicate a paint factory may have been located here. Examination of an aerial photograph shows that a large building was formerly located in this area. The extremely high concentrations in this area warrant recommendation of this lot as a suspected hazardous waste site.
- **Summa Ave./Frost Street Properties**. The data collected to date for this high concentration plume do not warrant ruling out many of the Block 328 properties north of Main Street as potential source properties.

7.3.2 GP-1/GP-39 Plume

This total PCE plume contains low to moderate levels of most of the chlorinated solvents. Owing to the complex geology below this part of the eastern section, a definitive conclusion as to the source of the observed contamination cannot be made. The most likely source for this plume is the property at 700 Main Street.

- **Utility Manufacturing Company**, 700 Main Street (Tax Block 328, lot 176). This address is occupied by utility manufacturing and formerly was occupied by

Wonder King Chemical. Both businesses report using target compounds (TCE and 1,1,1-TCA). This property also has a history of waste discharge to several on-site cesspools and drywells. Elevated concentrations of DCE, TCA, TCE, and PCE were found. This site should be considered a suspected hazardous waste site.

- **Former Wonder King Chemical, 710-712 Main Street (Tax Block 328, lot 188).** This address no longer exists, but is believed to be the lot just east of 700 Main Street. This site was formerly occupied by Wonder King Chemical, which had high usage rates of 1,1,1-TCA and TCE. This site should be considered a suspected hazardous waste site.
- **684 Main Street, 50 Bond Street, 44 Bond Street, and 26 Bond Street.** These addresses also fall within the GP-11/GP-39 plume. These addresses, however, did not demonstrate a current or past use of target compounds. These addresses should not be listed as hazardous waste sites.

7.3.3 Clean Areas in Eastern Section

Several properties in the eastern section appear free of significant VOC contamination. These properties include those located along the north side of Summa Avenue (Tax Block 328, lots 144, 157, 160, 174, and 175), those properties in the southeast corner of the site (Tax Block 328, lots 170, 148, 150, 158, 152, and 124), and several properties near the corner of Summa Avenue and Bond Street (Tax Block 328, lots 173, 172, 23-29, 29-40, and 40-45). In addition, several properties near the corner of Old Country Road and Bond Street (Tax Block 328, lots 183, 112, and 73-77) appear free of VOCs based on prior uses of these properties.

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APPENDIX A

FILE REVIEW DATABASE

FILE REVIEW DATABASE

WESTERN SECTION
New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
	Town is Westbury ZIP is 11590		back to 1971 determined from review of Coles Directory 1972-1992		Information is from NCDOH BLR Hazardous Chemical/Waste Storage Locations databases run dates 3/87, 2/88, 6/88, 9/89 Note: these databases are not always current; see Island transport below Island moved out 1982, records do not reflect this	
BLOCK 144-- TWO SEPARATE PROPERTIES				no record		
11,144,27-54	299 Main St.	SAM-TON SALVAGE (USED CAR PARTS) since 1982 This property was observed to be vacant during October 1993. There had been a fire that destroyed the interior of the building. The business moved to 96 Urban Ave. The building is being repaired. -ALSO, Scibelli Automotive occupies a building in the NE corner of the property	Island Transportation and Asphalt Petroleum occupied between 1972 and 1982; as of 1971 Mid-Island Transit and Crestwood Bus Service occupied the property	During Geoprobe Investigation heavy BTEX contamination was discovered in soils just above the water table; moderate groundwater contamination	ISLAND TRANSPORTATION (1971-82) methanol-500 gal TCE -80 gal. mineral spirits-520 gal Waste Org.-non-halog. -3710gal	--HIGH-- (BTEX)
11,144,55-61	1 Hopper St.	Nassau-Suffolk Recycling	no record 1992; Occupied by Baldwin Collision 1989-1991; no record 1983-1988; Frank's Frgn Auto 1981-1982; Nassau Auto Wrckng 1971-1980.		lacquers, lacquer thinners Auto repainting observed during Geoprobe investigation	--MODERATE-- lacks downgradient monitoring point data
BLOCK 145 -- SEVEN SEPARATE PROPERTIES						
11,145,20-25	132 Hopper	Frank & Sons Auto Wrecking	A & F Auto Wrecking 1971-1992		no record in NCDOH chem invent	--LOW-- GP-21 is downgradient; ND
11,145,26-30	120 Hopper St.	EZ-EM Co & RAC Mechanical RAC since 1981	Occupied by Royal Athletic Supply between 1975 and 1980, no record prior to 1975.		ROYAL ATHLETIC paint-55000 gal	--LOW--
11,145,31-37, 41, 65	110 Hopper St.	Flexitherm Corp. since 1990	Occupied by Contemporary Packaging, 1972-1976. No record 1976-1989, and prior to 1972		CONTEMPORARY PCKGNG IPA-1300 gal ethanol-22000gal PA-1300 gal Waste Ink-24000 lbs Waste Non-halo solvents-2200 gal	--MODERATE ?-- prop. is upgrad. of GP-22 (heavy BTEX) a boring between the two would provide confirmation

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,145,38-45, 46, 38-40	559 Main St.	Andy's Auto, Cassel Auto Parts (used), Diner This property has multiple occupants	no record prior to 1972 Andy's Auto since 1989, Cassel Auto Parts since 1972 Heavenly Heros 1988-93 C & T Container Sales 1988-92		no record in NCDOH chem. inv.	--MODERATE ?-- (BTEX) lacks good downgrad. monitoring point data
11,145,57-63 11,145,64	117 Swalm	transformer yard (Lilco?) Harco Trucking	Occupied by: Spade Parts MFG Co.,Middlesex Paper,Near East Co.,Fimex Corp.,Nehoc Mnfrg., Faran Co., 1971-1972, no record 1973-1993.		no record in NCDOH chem. inv.	--LOW-- --LOW-- a downgradient soil and/or water sample would confirm
BLOCK 164 -- FIVE SEPARATE PROPERTIES						
11,164,68	567 Main St.	Atlas Graphic, Inc. since 1977	Westbury Mill & Supply Intra- St. Development Asc., Electromatic Heating M Saks Burton Constr. 1971-1976.	sewered 11.20.80 -3/20/79-- all liquid wastes to cesspool, neutralized with CaCO3 -1978-4500ppbTCE, 110 ppb 1,1,1-TCA in cess -1980-318760ppb TCE 240 ppb TOL from sample from inside building	ATLAS GRAPHIC Nitric acid-40300 lbs waste acid -110 gal photochemicals, (hypo)-150 gal/yr TCE -312 gal/ yr	--HIGH-- GP-20 is directly downgrad. -heavy TCE contam., increasing with depth
11,164,19-29, 58-65	118 Swalm	vacant	Occupied by Varitek Machine 1980-1992; Louis Jordan Labs 1978-1980; no record 1975-1978; All Record Dist 1971-1974.		LOUIS JORDAN LABS pharmaceuticals no record for Varitek in NCDOH chem. inv.	--MODERATE-- lacks good downgrad. monitoring point data
11,164,54-55, 66-67	115 Rushmore	Baer's Used Auto,PRCorp since 1984	no record 1971-1984		no record in NCDOH chem. inv.	--LOW--
11,164,47-53, 69	110 Swalm St.	Hasko Utilities(since 1985)	No record 1980-1984,Holland Assoc.,1977-1980,Vanburen Industry, Midway Beverage Corp,1971-1976.		no record in NCDOH chem inv.	--MODERATE-- N-11843 directly downgrad. =50 ppb PCE/TCE (50-60 ft screen) --LOW-- downgrad. water samples would confirm; location immed. adjacent to Atlas Graphics necessitates collection
11,164,42-46	577 Main St.	All Seasons Commercial Systems,Roofing (since 1982)	no record prior to 1982		ALL SEASONS petro. distillates silicones polyurethane	

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
BLOCK 174 --EIGHT SEPARATE PROPERTIES						
11,174,63-66	117 Urban St.	vacant For Sale By Owner	MTD Knits 1979-92 Warren Machine, Rockwin Mfg. Co., Aerosol Machinery Corp.- 1971-1979		WARREN MACHINE Naptha ,VM&P-55gal PCE-55 gal.MEK-25 gal.	--MODERATE-- GP-18 is downgrad.; 68-70 ft =92 ppb PCE
11,174,59-62	109 Urban Ave.	Goes King (printing supplies)	No record 1974-1989,Occupied by Policastro feed, 1974, no record 1971-1973 since 1971		no record NCDOH chem. inv.	--LOW--
11,174,16-32, 49-51,52-53,58	91 Urban Ave.	A. Lagrega Concrete, Ready- Mix, Nassau Mason Supply			A. LAGREGA CONCRETE grease-200 lbs motor oil-200 gal	--MODERATE-- GP-18 is downgrad.; 92 ppb PCE NC-17 also downgrad.; ND
11,174,37-44	589 Main St.	Freund Woodworking since 1987	sewered 3/25/90 Occupied by Nationwide Displays & Westly Displays 1978-1987, occupied by Miller Metal & Westly Displays 1971-1982.	as of 1977, laquers and water based paint discharged to cesspool	WESTLY DISPLAYS Adhesives, NOS-50 gal Lacquer Thinner-200 gal Lacquers 100 gal Paint-200gal Toluene-10gal.	--LOW-- lacks immediately downgrad. sample point data
11,174,33-36, 45-48	89 Urban Ave.	Bamboo Hut (Indian Grocery) Matty's Automotive	Occupied by Herbies Autobody 1992, Walter Barker Rfg 1985 to 1991, Dynamic Storage Sys 1983-1984;no record 1979-1982; A&F Autoworks 1976-1979, Westbury & Hicksville Auto Parts 1971-1975.		no record in NCDOH chem. inv.	--LOW-- lacks immed. downgrad. sample; could be coupled with 589 Main
11,174,33-36	104 Rushmore	Rothenberg Associates since 1981	Buckeye Eqp Co Inc 1972-1981, no record 1971.		no record in NCDOH chem. inv.	--LOW-- NC-17= ND
11,174,54-57	99 Urban Ave.	Aljo Precision Products, Profile Milling (1991-93)	Occupied by Aljo Mach Shop 1978-1990,Aljo Mach Shop & Linear Rotary Brng 1978, Aljo Mach Shop 1971-1978.		ALJO PRECISION lub. oil-55 gal cutting oil- 275 gal hydraulic oil- 55 gal	--MODERATE-- lacks good downgrad. monitoring point data

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
BLOCK 70 - TWELVE SEPARATE PROPERTIES						
11,70,1-8	520 Main		no listing 1991-1992 Alman Architectural 1989-1990 no listing 1988 A-1 Conduit Fittings 1979-1987 no listing 1977-1978 Countryside Tape 1976 no listing 1974-1975 K. Guggenheim Inc. 1971-1973		CONDUIT FITTINGS no chemicals	-LOW- based on usage history lack of good downgradient monitoring point.
11,70,9-13	98 Magnolia	Center Island Banana	Center Isl. Banana 1980-1994 Fdjm Leasing Corp. 1980 Artton Realty Corp. 1980 Hi Scor Food Mgmnt 1976-1977 Messina Banana Inc. 1975-1979 no listing 1971-1974		Center Island Banana Ethanol 60 gal/yr.	-LOW- based on usage history lack of good downgradient monitoring point.
11,70,16-17,55	86 Magnolia	Wise	no listing 1980-1992 Abern Mfg. Co. 1978 American Electric Cnsv 1978 Frank Steel Rule Die 1976-1977 Impetus Ind. IC 1975-1979 no listing 1974 Lily Popcorn Corp. 1973 Revontuli Inc. 1971-1972			-LOW- based on usage history adjacent to GP-26 (low TCE).
11,70,53	90 Magnolia	Fremont Industrial	Fremont Industrial Corp. 1989-1992 no listing 1988 Jonlyn Glass 1984-1987 Jonlyn Store Front 1981-1987 Eastlyn Chemical 1975 Avis Maintenance Corp. 1974-1980 Action Engineering 1971 Continental Specd Svcs 1971-1974 Sunset Equipment 1971			-LOW- based on usage history adjacent to GP-26 (low TCE).
11,70,23-24 ?		Stellato Bros.				-LOW-

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,70,25,30-34 also 35-39?	514 Grand Blvd.	Island Poly-Bag	Island Poly 1988-1994 Island Polyethylene Bag & Supply 1983-1994 Armac Ind. Ltd. 1976-1982 Sharpe Nutritionals 1973-1975 no listing 1971-1972		Armac Industries no chemicals	--LOW-- based on usage history lack of good downgradient monitoring point.
11,70,26-29	504 Grand Blvd.	Iglesias Pentecostal Elohim	no listing 1971-1992 (private?)			--LOW-- based on usage history lack of good downgradient monitoring point.
11,70,40-42	81 Garden St.	J. J. Matt Motorcar	J.J. Matt Motors 1990-1992 Jab Graphics 1988-1989 Budget Carpet Supply 1988 Gino's Farm Land 1985-1987 Drew-Mar Inc. 1984-1987 Jaymar Tool Co. 1983-1987 Drew-Mar Enterprises 1983-1987 no listing 1980-1982 Wysocki Auto Body 1978 Tri County Diesel Svc. 1978 no listing 1977 Arista Vitamin Corp. 1975 Van Buren Indstls 1974 Tower Ind. Supply 1971-1973 Assoc'd M&S Moving Co. 1971-1976		Drew- Mar, Inc. kerosene 10 gal/yr. Perma Shoe Corp. adhesives 5 gal/ yr.	--MODERATE-- based on usage history downgradient of GP-24 (high TCE)
11,70,43-44	89 Garden St.	Rapid Rivet	Rapid Rivet & Fastener 1988-1994 no listing 1971-1987		previously (?) 87 Garden-Filmon Process Corp., Lebco	--MODERATE-- based on usage history immediately adjacent to GP-24 (high TCE)
11,70,45-47	93 Garden St.	Center Co. Air Conditioner	Center Co. Air Cndtng 1981-1994 Coastal Heating Air 1991-1994 Cenco Air Cndtng 1982 Deb-Air Air Cndtng 1982-1983 Colton Company 1979-1980 no listing 1974-1978 Nangano Bros. 1971-1973			--MODERATE-- based on usage history upgradient of GP-26 (low TCE)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,70,35-39	75 Garden St.		no listing 1986-1992 Technol 1982-1985 Oil Technology 1982-1985 Elliott Kaye CPA 1976-1979 Microfilming Svcs 1971-1981 A W Microfilm Svc. 1971-1981 A W Fuel Oil Corp. 1971-1981		OIL TECHNOLOGY CORP. ketones, misc. - 40000 gal petro. distill. - 80000 gal A&W Fuel Oil Corp. no chemicals	—MODERATE— based on usage history lack of good downgradient monitoring point.
11,70,50						
11,70,51-52	101 Garden St.	Private Residence	Private Residence 1971-1992			—LOW— based on usage history upgradient of GP-26 (low TCE).
BLOCK 71 — EIGHT SEPARATE PROPERTIES						
11,71,1-4	534 Main	IET Labs, Inc since 1981	Occupied by IET Labs & A-1 Jarrio Lmo Svc 1986-1990; Grobs Mach Tool Co. Mach Tool Co. IET Labs 1982 to 1985; Aldoro Electric Corp & Grobs Mach Tool Co. 1981; Aldoro Electc Corp 1975 -1980; Aldoro Electc Corp & Space Savers Ind. 1973-1974; Aldoro Electc Corp. 1971-1972. since 1971		ALDORO ELECTRIC GROBS MACHINE TOOL cutting oil- 1 gal trade name organic-5 gal	—MODERATE— property is up- and slightly side-gradient to GP-24 (heavy DCE contam.) DCE contam. indicates TCE or PCE source in vicinity
11,71,5-8	542 Main	Al's Tool & Die			AL'S TOOL & DIE cutting oil-5 gal no record in NCDOH chem. inv.	—MODERATE— property is upgradient of GP-24 (heavy DCE contam.) DCE contam. indicates TCE or PCE source in vicinity
11,71,16-17	86 Garden St	Harmon Assoc., since 1981 Harco Trucking since 1972	Occupied by Harco Trckng, Harmon Assoc. Corp, Lowe Fibre Inc., 1982-1983; Harco Trckng Corp, Gemini Paper Fiber, Harmon Paper Stock, 1974-1981; Harco Trckng Corp 1973; Asphalt Petroleum & Island Transit Sys, 1971			—MODERATE— same as above

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,71,18-25	80 Garden	vacant lot	Vacant 1989-1993; Occupied by Ultramar Petro, 1984-1988, Pittston Petro. 1980-1983, Metro Petro. 1971-1979.			—LOW—
11,71,46-49	no address	Parking lot				
11,71,42,60	121 Hopper St.	Avanel Ind., Inc. manufactures degreasing machines; repackages solvents for resale	Occupied by Avanel Ind since 1980; California Petro. & Chevron Distributr 1971-1979.		AVANEL INDUSTRIES mineral spirits-110 gal cutting oil- 25 gal Organic -trade name- 550 gal -consists of 50% PCE, 50% nap 1,1,1- TCA -35 gal. toluol - 550 gal	—LOW— NC-18 is downgrad., 2 ppb TVOCs screen depth 55-60 ft. a single probe from deeper interval may be begging the question, but would confirm
11,71,9-15, 50-58	95 Hopper St.	Bilt-Rite Steel Buck Co.	Occupied by Bilt Rite Steel, Andre Hercz, IMC Mgmt Corp JGL Metal Door Corp, Spire Realty as of 1992; Bilt Rite Steel & JGL Metal Door Corp 1971-1991	sewered 4/22/81	JGL CUSTOM METAL DOORS paint thinner- 1100 gal paint -350 gal lacquer thinner-500 gal paint-5000 gal PETRO HEAT & POWER	—MODERATE— property is upgradient of GP-24 (heavy DCE contam.) DCE contam. indicates TCE or PCE source in vicinity
11,71,26-27, 30-41	522 Grand Blvd	Petroleum Heat & Power, Mid-Town Oil Corp, M Kavanaugh Oil Corp			fuel oil, no specified amt. Trade Name organic-350 gal.	—LOW— lacks downgrad. monitoring point sample data
BLOCK 72 — FOUR SEPARATE PROPERTIES						
11,72,1-3,5, 10-13, 63-68	550 Main St.	Royal Guard Fence Co. since 1971	Occupied by Royal Guard Fence 1985-1993; Royal Guard Fence & Typhoon Fence 1984; Royal Guard & Typhoon Fence 1983; Royal Guard Fence & Davcon Gen Cntrctr 1981-1982; Royal Guard Fence 1971-1981.	no record of sewering	ROYAL GUARD muriatic acid-2 gal cutting oil-15 gal paint thinner-5 gal paint- 12 gal xylene -1 gal 4000 UST-gasoline; installed 1978, failed test 1989	—MODERATE—

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WESTERN SECTION
New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,72,6-9,	558 Main St	This property is apparently occupied by a junked auto storage facility; many junked cars were observed on this property; owner's address is 95 Hopper (Blit-Rite Steel)	1988-1992 no record; Losito Insulin Sal & Cntr Corp 1981-1987; Losito Insulin Corp 1973-1980; Do-Well Ind & Research Instrmnt 1971-1972.			—MODERATE— GP-23 is downgradient; PCE, TCE, 1,1,1-TCA contam.
11,72,14-17, 59-62	90 Hopper St.	Blit-Rite Elevator	1986-1990 no record; Inter Crbnn Tishp & Singer Brcdst 1985; Contemporary Pckng 1977-1984; Philamon Inc. 1971-1976.	sewered 3/25/81	CONTEMPORARY PCKGNG Inks -500 lbs IPA -5000 gal PA -1000 gal Waste Inks-24000 lbs waste non-halog solvents-2200 ga BLIT-RITE ELEVATOR CO. PRIDE Cleaner # 40—100 gal. PRIDE laquer thinner-50 gal. primers and paints	—moderate— property is upgradient from GP-23 (moderate PCE, TCE, TCA contamination)
11,72,18-21, 55-58	50 Hopper St.	Skyline Merchandising	Occupied by Vigliotti Bro. Crtg 1983-1991; DJV Carling Corp & Vigliotti Bro. Crtg 1979-1982; Sexauer Metal Craft 1971-1978.		no chemicals	—LOW— no good down grad. monitoring point data
11,72,22-27, 49-54	70 Hopper St.	Continental Instrument			Continental Inst. denatured alcohol Steamliner Aluminum no chemicals no record in NCDOH chem. inv.	—MODERATE— 110 ppb PCE, 44ppb TCE 23ppb benz downgrad. (N-11850) —MODERATE— 110 ppb PCE, 44ppb TCE 23ppb benz downgrad. (N-11850) —LOW— lacks downgrad. monitoring point sample data —LOW—
11,72,28-32, 42-48	30 Hopper St	Al Home Health Care, Trailer Transport, Inc.				—LOW—
11,72,34-35	530 Grand Blvd	A-Line Break & Front			A-LINE Break & Front motor oil—200 gal safety-kleen-250 gal. no record in NCDOH chem. inv.	—LOW— lacks downgrad. monitoring point sample data —LOW—
11,72,36-37	538 Grand Blvd	Virgilio Trailer Corp since 1980				—LOW—
11,72,38-41	49 Swalm	A. Venditti building supplies				—LOW—

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WESTERN SECTION

New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
BLOCK 73 -- TWO SEPARATE PROPERTIES						
11,73,1-21, 63-75	570 Main St.	Currently vacant except for rear portion of building; Castle Collision and Eagle Auto Repair occupy	Occupied by IMC Magnetics Corp 1975-1992; IMC & County Data Center 1972-1974; IMC Magnetics Corp 1971.	sewered 6/4/80 1977 - 110 ppb TCE, 1000 ppb PCE, 22ppb 1,1,1-TCA in cesspool	IMC MAGNETICS freon-385 gal MEK -220 gal lacquer thinner-110 gal PCE - 810 gal Toluene-165 gal unspecified Organic-495 gal waste solvents- 450 gal 1000 gal #2 fuel oil UST leaks Dec-88	--HIGH-- NC-8 =55 ppb PCE, 32 ppb TCE also evidence of spill
March, 1993- 84.3 ppm PCE , 27 ppm Cr in septic tank sample (NE corner of prop.) May, 1993- soil samples from around septic tank, 30-40 ft BG, results are ND March, 1993- extremely high concentration of tol.(5090 ppm) xylenes(3000 ppm) chloromethane (362 ppm) PCE (2970 ppm to 139000ppm) 111-TCA (668ppm) 18 to 7500 ppm Cr, 21 ppb Cd ----leachpools at NW corner of property May 1993- soil sample from below leachpools- 30-50 ft- essentially clean March 1993- 60.2 ppm tol. and 112 ppm PCE in septic tank sample from southern end of prop. also high Cr 27-50 ppm in leachpool and septic May 1993- soil samples around septic and leachpools - 30-50 ft- results reportedly below cleanup guidance values March and May 1993- Multiple floor drain also heavily contaminated especially with metals						
11,73,22-28, 56-62	65 Rushmore	Dionics, Inc. It appeared that there were additional occupants at this address during the Geoprobe survey. (names unknown)	Occupied by Dionics, Inc. 1971-1992 mfrs. electronic components	no record 4/78- 850ppb TCE in cesspool; ultra-sonic cleaner tank drains to cesspool -1978	DIONICS IPA -109 gal methanol-234 gal var. acids-400 gal TCE-275 gal. XYL-145 gal. Waste-Org. non-hal-550 gal waste solv-220 gal 1977- 1000 gal TCE	lacks good downgrad. sample point data
11,73,29-30, 54-55	29 Rushmore St.(597)	Pete,s Towing, Body Shop,Custom Tires since 1980				
11,73,31-32, 52-53		parking lot				
11,73,33-40	50 Swalm	A Venditti, AMA Equip., A Venditti Sand				

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,73,41-45 11,73,46-51	.562 Grand Blvd 51 Rushmore St.	4-Shores Electrical Dynamic Medical Equipment	sewered 9/26/80 fixer, developer to cesspool	Howard Schubert Co. photo chemicals-25 gal blanket wash-200 gal		
BLOCK 74-NINE SEPARATE PROPERTIES						
11,74,1-16, 75-82	81 Urban Ave. 75 Urban Ave.	N.Y. Testing Laboratories, Inc. since at least 1971	also William Printz Co., Roger Harvey, Eng. Harvey-Westbury Co. since at least 1971	sewered 10/19/81 1977- discharging industrial wastewater to cesspool	N.Y. TESTING LABORATORY Acetone-144 liters methyl cyanide-112 liters benz-16 liters hexane -816 liters methylene chloride- 630 lbs. methylene chloride - 488 liters trichlorofluoromethane- 630 lbs freon-1380 lbs. waste solvents -770 gal inorganic wastewater-1279 gal	--MODERATE== downgrad wells essentially ND; one downgrad sample from a deeper interval would serve to confirm
11,74,17-21	80 Rushmore St.	vacant	Jern Custom Guitars 1990-? no record prior to 1990		no record in NCDOH chem. inv.	
11,74,22-23,68-69, 85-86	51 Urban Ave.	S & J Body and Fender,since1986 Mike's1-stop Auto since 1986	B & G Lighting '82-86 Spectrum Signs '84-'86 Federal Distbgt. since 1974 no record Prior to 1974	sewered 7/11/84	B&G Lighting 15 gal paint thinner, paint	--LOW-- PCE 77ppb, upgr., PCE 53 ppb dngr. --LOW-- PCE 77ppb, upgr., PCE 53 ppb dngr.
11,74,25-26,65-66, 83-84	45 Urban Ave	Efficiency Systems since 1984	Hirsch Optical 1981-84 Guillotine Splicer 1974-80? Int'l Optical 1971 records incomplete	sewered 7/22/83 discharging indust. waste to cesspool until this time	Hirsch Optical 1200 gal cutting oil Guillotine Splicer Co. 1,1,1-TCA -12 gal/yr	--LOW-- low-level PCE contam. upgrad., also side-grad. --LOW--
11,74,61-64	35 Urban	Production Packaging Equip. since 1976	Nuclear Assoc., Radiation Mdcal.1971-76		no record of chems NCDOH chem. inv.	
11,74,70-74	59 Urban	vacant	Nationwide Furniture & Mattress Warehouse 1989-92; IBEW 1971-81 no record '81-89			--LOW--

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,74,27-30	66 Rushmore St.	Jay-Rock Precision, Inc since 1971			Jay-Rock lub. oil, cutting oil-135 gal kerosene-35 gal.	lacks good downgrad. monitoring point data --LOW--
11,74,31-34,55-60	27 Urban	Old Country Ceramic Tile since 1978	Midtown Displays, Midtowns Sign Advts. 1971-74 no record '74-78			same as above
11,74,35-36	52 Rushmore St.		Westbury American Motors 1974-90 no record 1990-92			--LOW-- same as above
BLOCK 330- FOUR SEPARATE PROPERTIES						
11,	460 Grand Blvd	Five Towns Refrigeration Co.	10/31/1977- Bonded dumping used solvent to cesspool	Bonded Packaging Corp 15 gal/yr Stoddard solvent		
11, 330	468 Grand Blvd.	Eagle Home Products				
11,330,3	474 Grand Blvd.	Uniflex, Inc. -since 1969		UNIFLEX Alcohol-26400 gal inks-34700 gal waste ink -1930 gal waste non-hal solv.-1430 gal waste laquer thinner		
	10/93- IRM performed for alcohol USTs at rear of building					
11,	482 Grand Blvd.	Astro Ready-Mix, Elm Concrete				

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
	Town is Westbury ZIP is 11590		back to 1971 determined from review of Coles Directory 1972-1992		info is from NCDOH BLR Hazardous Chemical/Waste Storage Locations databases run dates 3/87, 2/88, 6/88, 9/89 Note: these databases are not always current; see	
11,58,151-172	110 State St.	Westbury Jeep -Eagle	Westbury Jeep-Eagle 19897-94 Molla Furniture 1971-1987	sewered 3/30/87	MOLLA, INC. -since 1966 (furniture mfg., painting) misc. oil- 50 gal misc. paint thinner-2000 gal Waste organic non-halog chemicals- 900 gal no record NCDOH files	-- MODERATE-- GP-3 is downgrad. (110 ppb tot. VOCs)
11,58,134-150	110 State	Rick James Limousine Service	Molla Furniture 1971-1987			-- MODERATE-- GP-3 is downgrad. (110 ppb tot. VOCs)
11,75,12,181	70 Urban	Advance Fasteners	Advance Fasteners 1972-1993? Deico Products 1974-1992 Cutler & Co. Inc. 1973-1987 Industrial Mets, Industrial Waste Removal, Continental Truck Maintenance 1971.	Advance - discharges to cesspool		--MODERATE-- GP-17 is downgrad. 108 ppb tot. VOCs.
11,75,18-22	50 Urban	B&R Machine and Tool	B&R Machine & Tool 1980-1994 Arlo Automotive Svc 1979 Cardinal Tool & Instruments 1971-1978	as of 2/ 83 on sewer	B&R Machine water-sol cutting oil-100 gal hyd oil-50 gal, EDTA -1gal lub. oil-20 gal var-sol-100 gal	--MODERATE--
11,75,29-32	32 Urban	no name	no listing 1987-1992 Nittsu Auto Svc 1986 JFJ Collision Ctr. Inc. 1985 North Shore Credit Corp. 1985 Un-Common Carrier 1985 Alch Instrument Co. 1971-1984		ALCH 100 gal cutting oil	--MODERATE-- no good downgrad. monitoring point
11,75,33-36	28 Urban	Anchor Fish Distributors MGA Plaza during site reconn.	no listing 1990-1992 MGA Plaza 1989-92? M. Greenfield Inc., MGA Advertising, MGA Graphic Art, MGA M. Greenfield, Martin & Assoc. 1985-1989 Gordon Connors Sls. 1978-1981 Alliance Mfg. & Supply 1971-1984		ALLIANCE MFG & SUPPLY mineral spirits- 10 gal cutting oil - 10 gal	--LOW-- NC-10 is directly downgrad. (ND)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,75,37-39,141	14 Urban	Westbury Car Wash	Westbury Car Wash 1992-1994 Urban Avenue Auto Wash 1991 J&L Car Wash 1986-1990 Mr. Gleams Car Wash 1989-1991 A&A Car Wash 1982-1985 Urban Car Wash 1980-1981 A C Car Wash 1976-1979 Westbury Kwik Kleen 1975 Westbury Car Wash 1973-1974 Twin Island Car Wash 1971-1972		during the field surveys it was observed that runoff from the car wash apparently containing grease or oil (heavy sheen) washes down the road to the stormdrain, also the NC-10 curb-box apparently receives runoff- the top had a black oil residue on it.	--MODERATE--
11,75,61-64 65-68	33 Kinkel	All-Write Typewriter Also Wheatley Hills Auto(lots65-68)	All-write Typewriter 1982-1994 Wheatley Hill Auto 1986-1994 no listing 1980-1981 Porcelain Repair Co. 1972-1979 Lik Nu Porcelain 1972-1979 REL Svc Corp. 1972-1975 Puritan Fuel Oil 1971-1972		ALL_WRITE TYPEWRITER safety-kleen - 60 gal	--MODERATE-- GP-15 is immediately adjacent -- (side-grad.) appreciable TCE,TCA contamination
11,75,69-71	51 Kinkel St.	Jovee Contracting	Jovee Contracting 1991-1994 no listing 1984-1990 Tiger Truck Rental 1974-1983 Frank Ruland 1971-1976 Bill Ruland 1971-1973			--LOW--
11,75,72-73	57 Kinkel St.	Marble-line, Inc.	Marble-line Inc. 1989-1994 no listing 1988 ABCO Print Equipment 1982-1987 ABCO Addressing 1971-1987	1977- on cess pool	ABCO ADDRESS MACHINE Trade name-organic- 50 gal	--MODERATE-- no good down-grad. monitoring point
11,75,116	64 Urban	private residence	private residence since 1971			-LOW--
11,75,184-185 also 51-57	939 Old Coun. Rd.	Westbury Nissan lots 51-57 are listed in tax records as 15 Kinkel St. lots 184-185 are owned by "15 Kinkel St. Realty"	no listing 1990-1992 A-1 Jarrio Limo Svc. 1986-1989 Sam-Ton Auto 1983-1985 Sam-Ton Auto Sales 1981-1982 Sam-Ton 1981-1983 no listing 1980 Andreas Modenos 1975-1979 no listing 1971-1974			--MODERATE-- no good down-grad. sample
11,75,51-57	15 Kinkel St.	Lots 51-54:Nissan Dealer building lots 55-57: Nissan parking lot	no listing 1974-1992 Samton Towing 1972-1973 Castle Adjustment 1972-1973 no listing 1971			--same as above--

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,75,186	608 Main St.	Lemon-X Corp.	Lemon-X Corp. 1978-1994 no listing 1977 Utility Mfg. Co. 1972-1976 Deerfield Ind. Inc. 1971			--MODERATE-- property is upgrad. of GP-14-- -appreciable TCA, DCE contamination
11,75,187	80 Urban St.	WBF, Upper Room Church Ministry	WBF Room Church Ministry 1991-1992 WBWF Church 1982-1990 WBF Medical Missionary Ctr. 1974-1990 Franklin Medical Lab 1973-1990 Fellowship Medical Lab 1973-1989 World Bible Way 1973, 1977 Fellowship Med. Center 1973 Peripheral Data Machines 1971-1974 Computer Management 1971-1972 Brogan Assoc. Inc. 1971-1972			--LOW--
11,75,114,177	65 Kinkel	Parfuse	Parfuse Corp. 1982-1994 no listing 1981 W.E. Gebert Inc. 1980 no listing 1979 American TV Co. 1978 no listing 1977- Detwiler Corp. -9/77 fr Esmond giftware Co. 1971-1976 Oliver Sound Co. 1971-1975	sewered 5/19/81	PARFUSE CORP. nitric acid-4930 gal nitric acid- 5270 lbs oakite#160-190 gallons oakite#160 -190 lbs. PARFUSE PCE 55 gal/yr.	--MODERATE-- GP-17 is downgrad. 100 ppb PCE/DCE
11,75,79-82	69 Kinkel St.	Ultimate Collision Express FX	Express FX Ltd. 1992-1994 Ultimate Collision 1990-1994 B&L Collision 1985-1991 Perry's Auto Body 1984 no listing 1983 Star Brite Auto 1981-1982 Precise Alloys Inc. 1975-1980 Ancon Mfg. Corp. 1971-1983 H. Schiber Warren 1971-1974	sewered 10/9/90	Ancon Mfg. Inc. no chemicals ? Precise Alloys-no chems. General Electric Equip no chemicals	--MODERATE-- GP-17 is downgrad. 100 ppb PCE/DCE

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,75,23-26	48 Urban	Tapemakers Sales	Tapemakers Inc. 1981-1994 Jedcom Communications 1981-1985 Ctr Jewish Media 1981-1985 Videotime Corp. 1981-1985 Altek Mfg. Corp. 1979-1980 Excell Equip. Corp. 1974-1977 Autopak Industries 1974-1977 Advanced Research 1972-1980 Vector Dynamics 1971-1975 Skinner Industries 1971-1975 Ovitron Corp. 1971-1974 ATA Div. Skinner 1971 Parzen Div. Inc. 1971	sewered 6/1/84	TAPEMAKER SALES MEK - 500 gal Propyl acetate- 500 gal waste ink -480 gal ADVANCED RESEARCH cutting oil-10 gal	--MODERATE-- no good downgrad monitoring point
11,75,58-60	25 Kinkel St.	Avon Press	Avon Press 1971-1994 Infant Mkt Svc 1971-1972	sewered 10/30/82	AVON 10-15 gal blanket wash 10-15 gal photochem.	--LOW-- NC-10 is downgrad. (ND)
11,76,1-4	70 Kinkel St.	Attonito Recycling, Loni Jo Metal	Attonito Recycling 1976-1994 Loni Jo Metal Corp. 1990-1994 Attonito Brothers 1976-1989 no listing 1971-1975			--MODERATE-- property is upgrad of GP-14 (high TCA, TCE)
11,76,5-8	71 Sylvester St.	Vacant	The Fulfillment Center 1991-1993 Bobby Publishing 1983-1991 no listing 1982 Kaf Kaf Inc. 1979-1981 M. Nichols Needlework 1972-1978 Marion Nichols 1972-1973 Eastern Printers Mrt. 1971-1972 Holland Inks 1971-1972 H. Vanson Ink Corp. 1971-1972 United Distributors Inc. 1971	moved to 69 Sylvester	Illustrated World Encyclo.-no che no record of these facilities NC.CDOH files	--LOW-- based on site usage although upgrad. of GP-14(High TCA, TCE)
11,76,16-21	54 Kinkel St.	The Karat Shop	The Karat Shop 1980-1994 Lawn-a-Mat Chm&Equip 1980-1983 World Jewelry Treasures 1979-1985 Jewels By Latron 1979-1985 no listing 1978 Multi-vac Vacuums 1975-1977 Multi-Vac Built-In 1971-1973 Dri Clave Corp. 1971-1977 A&J Associates Inc. 1971-1973		no record NCDOH Chem inventory files	--LOW-- based on site usage although upgrad. of GP-14(High TCA, TCE)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,76,30-35,51-56	24 Kinkel St.	Cancos Tile	Cancos Tile 1986-1994 no listing 1986 Mellas Auto Body 1983-1985 GM Equipment Co. 1982 Franco-Mo Industries 1982-1985 no listing 1971-1981		Franco-Mo Ind. mineral spirits - 700 gal	--MODERATE-- no good downgrad monitoring point
11,76,36-38,48-50	11 Sylvester St. 13 Sylvester	Liberty Glass, L.I.	11 Sylvester: Liberty Glass, L.I. 1985-1994 Bearings & Transmission 1981-1984 no listing 1976-1980 Wacker Corp. 1975 Mike's Circle Cycle 1973-1974 no listing 1971-1972 13 Sylvester: no listing 1990-1992 Optic Lite Inc. 1974-1989 Rota Master Sales 1973-1975 Ascot Tool & Instrument 1971-1978 Production Automation 1971-1977	1977 on cess pool 1988 -acetone waste- water intermittently dumped to cesspool small quantity DOH- no permit necessary, use scavenger	Optic Lite 1000 gal acetone/yr. Ascot Machine & Tool 6-8 gal cutting oil	--MODERATE-- no good downgrad monitoring point
11,76,39,79	947 Old Coun. Rd	Home Savings Bank (formerly Bowery Savings Bank)	Bowery Savings Bank 1975-1994 no listing 1973-1974 Fin&Als Svc. Center 1972 B&B Automotive 1971 A-Accredited Equipment 1971			--LOW no good downgrad monitoring point
11,76,57-65	33 Sylvester St.	Arkwin Industries	no listing 1980-1992 Tennis Only 1978-1979 no listing 1971-1977		Arkwin, #2 Fuel Oil, 0 gallons?	--HIGH-- GP-15 is downgrad.
11,76,68-72	67 Sylvester St.	Doak Pharmacal	Doak Pharmacal Inc. 1990-1994 Formula 405 1990-1994 no listing 1971-1989		no record NCDOH files	-- MODERATE-- GP-15 is downgrad. (high TCE, moderate TCA)
11,76,73-77	69 Sylvester St.	T. Sarro Salvage	T. Sarro Salvage 1981-1994 Long Island Csno School 1986 no listing 1980 Susanna Knitting Mills 1977-1979 Eastern Printers MT. 1973-1976 Holland Inks 1973-1976 Vanson Holland Ink 1973-1976 no listing 1971-1972		Suzanna Knitting Mills 40 gal lub. oil	-- MODERATE-- GP-14, -15 are downgrad. (TCE, TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,76,22-29	38 Kinkel St.	Glass Block Warehouse, Inc.	Bamkin Window & Door 1987-1992 Bamkin Lock Supply 1989 Tempo Press Inc. 1971-1986	sewered 9/29/89 TEMPO — 1977-140 gal fixer A & B to cesspool 1982 -30 gal developer to cess 15 gal fixer to cess 100 gal roller wash to cess 1981- 20 gal fixer, 40 gal developer to cess 1989 cesspool sample- ND	site delisted 2/5/92	—MODERATE— GP-15 is downgrad. (high TCE, moderate TCA)
11,76,9-12	68 Kinkel St.	Industrial Waste Removal Corp. no chems Industrial Mets Inc.	Industrial Waste Removal 1972-1994 Excel Coatings Inc. 1982-1983 Bds Industries Inc. 1979-1980 Fred-Vin Scrap Metals 1978 Queens Metal Corp. 1973-1977 Port-A-Table Saf-T 1973-1977 Industrial Mets. 1972-1977 Benjamin Aircraft 1971-1972	sewered 6/2/82	TISHCON CORP. (apparently Excel Coatings) NCDOH ind. chem. survey lists Tishcon-12/9/83 — vitamin coating facility Dye/pigments-1600 lbs. methylene chloride- 8000 gal shellac - 3000 gal 1,1,1-TCA- 1650 gal Fred Vin Scrap Metals 1000 batteries per yr. has permit (1978)	—HIGH— facility is immed upgrad, from GP-14 (fairly high TCA)
11,76,66-68	49 Sylvester St.	Micro-Ray	Micro-Ray Corp. 1991-1994 no listing 1986-1990 Molty Stryk Inc. 1982-1985 Int'l Ribbon & Carbon 1978-1981 no listing 1977 Blake Construction Corp. 1974-1976 Long Island Ventilation 1974-1976 Long Island Filter 1974-1976 Empire Machines 1973 L.I. Penny Saver Inc. 1971-1972	sewered 12/19/88 July '89- spill of various acids into dumpster (cleaned) , leach pool with black sludge discovered, no info on fate of sludge	INT'L Ribbon & Carbon 1,1,1-TCA —500 gal/yr. ethyl alcohol-5000 gal	— MODERATE— GP-15 is downgrad. (high TCE, moderate TCA)
11, 76,13-15	62 Kinkel St.	No Name	no listing 1985-1992 Laka Industries 1979-1984 Lake Tool & Stamping 1971-1978 Andrea Pen Corp. 1971-1979		LAKA (machine shop) TCE -55 gal /yr. LAKA INDUSTRIES lub. oil-20 gal. TCE 25 gal	—MODERATE— facility is immed upgrad, from GP-14 (fairly high TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,77,11-16	58 Sylvester	Vacant, for rent	L.I.Glass Block 1992 Meyer Equity Inc. 1990-1992 Accu-Speed Connectors 1989 Glass Block Warehouse 1989-1993 -moved to 38 Kinkel Metropolitan Glass Block 1989-1991 no listing 1974-1988 Moser Mfg. Corp. 1971-1973 Sol-Liq-Gas Systems 1971-1973		no record NCDOH Chem inventory files	--MODERATE-- facility is upgrad., from general area of TCE, TCA contam., lack use info for 14 yr time period
11,77,17-18	50 Sylvester	North Shore Child Guidance	North Shore Child Guidance 1990-1994 Molty Stryk 1986-1989 Salesmaster Assoc. 1977-1985 no listing 1976 Automatic Fastener 1973-1975 Bentley Boutiques 1972 no listing 1971		Salesmaster Associates-no chem	--LOW-- facility is upgrad., from general area of TCE, TCA contam. however use info appears to imply little to no chem use.
11,77,19-20 , 60-617	48 Sylvester also 41 New York (property runs through)	Harlen	no listing 1971-1992		Harlen Fabrics, Inc. no chemicals	--MODERATE-- facility is upgrad., from general area of TCE, TCA contam. however lack use info for 20- yr time period.
11,77,21-24,56-58	36 Sylvester	National Gear (vacant)	National Gear Prods 1980-1992 no listing 1977-1979 Warehouse 1975-1976 no listing 1971-1974		NATIONAL GEAR PRODS mineral spirits-550 gal various oils- 1300 gal.	--MODERATE-- facility is immed upgrad, from GP-12 (high TCA, TCE)
11,77,35-36,74	967 Old Count.	Tesoro Ristorante	Tesoro Ristorante 1982-1994 no listing 1971-1981-- Anson Report (5/93) indicates property was Pizza-Hut previously			--LOW-- N-11854 is downgrad. (ND)
11,77,45-46,75	corner New York 979 Old Cty. Rd.	Strip Mall (4 shops)	Dante Tuxedos 1986-1994 no listing 1971-1985			--LOW--
11,77,66-69	59 New York Ave.	Linear Rotary Bearing	Linear Rotary Bearing 1979-1994 General Graphics 1979-1991 Caddy-Rac Co. 1971-1978 Kleebar Tool Co. 1971-1978		LINEAR ROTARY BEARING Kerosene -5 gal oil- 10 gal stoddard solvent- 40 gal trade name organic- 10 gal.	--MODERATE-- facility is upgrad., from general area of TCE, TCA contam
11,77,62-65	47 New York Ave..	PV Tool Co.,ALM, Precision Rotary Bearing	PV Tool Co. 1976-1994 no listing 1972-1975 Amitool Co. 1971		PV TOOL cutting oil - 40 gal	--MODERATE-- facility is upgrad., from general area of TCE, TCA contam

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11,77,25-28, 50-55	29 New York Ave -National Warehouse & Storage just moved in during Geoprobe invest. 10-11/93	Eckhart Corp.	Eckhart Corp. 1990-1994 Tishcon Corp. 1979-86(NCDOH) Custom Coatings Inc. 1979-1980 Cooper Brothers Co. 1971-1984 Scientific Apparatus 1971-1973 Black Light Eastern 1971-1978 Spectronics Corp. 1971-1976 Money Scan System 1971-1984		Tishcon-main office/prod.(1986 vitamin ingredients, methanol	-- HIGH-- Tishcon has operated and still does operate at many addresses in the NCIA. Their process makes use of methylene chloride, 1,1,1-TCA, methanol, and shellac. This address was their mailing address, but production also took place here
11,77,32-34 29-31 47-49	18 Sylvester St. 26 Sylvester St. 4/25/78 shallow well sample -- TCE-3800 ppb, PCE- 600 ppb 1,1,1- TCA --5100 ppb this well water is used for non-contact cooling	Autronic Plastics	Autronic Plastics 1971-1994 Clear-Vu Products 1992-1994	sewered 8/20/84 two drywells receive non-contact cooling water	Autronic Plastics Toluene-120 gal/yr.	--HIGH-- GP-12 is directly downgrad. (high TCA, TCE)
11,77,1-4,9-10	630 Main	Bobley-Harmon	Bobley Publishing 1992-1994 Accrt. Alloys Corp. 1991-1992 Balan Development 1971-1974 Anthonson Metal 1971-1992	sewered 10/23/80 ?	ANTHONSEN ALL METAL lacquer thinner - 165 gal MEK - 1430 gal TOL- 220 gal waste inorg. chems-- 30 gals waste acids --30 gals	--MODERATE-- GP-35 is directly downgrad.
11,77,5-8,70-71	640 Main	R.K. Books	no listing 1971-1992 Anthonson Metal 1971-1992	sewered 11/21/80 1977- discharged neutralized caustic and acidic wash Oakite 160 and Alum. de-smut f-8	ANTHONSEN ALL METAL lacquer thinner - 165 gal MEK - 1430 gal TOL- 220 gal waste inorg. chems-- 30 gals waste acids --30 gals ANTHONSEN MEK --200 gal/yr.	--MODERATE-- GP-35 is directly downgrad.
11,78,1-8, 647-67, 9-117	648-656 Main St.	Arkwin Industries	No listing 1971-1992		ARKWIN INDUSTRIES cutting oil-400 gal 1,1,1-TCA --275 gal waste solvents-110 gal waste oils-220 gal	--HIGH-- upgrad wellis essentially clean downgrad: (high TCA)
11,78,27-34	28 New York	Kleeban Tool Co.	Kleeban Tool Co. 1979-1994 Caddy-Rac 1979-1980 No listing 1977-1978 Eve of Roma 1974-1976 No listing 1971-1973		Kleeban-no chemicals	--LOW

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,78,44-48,80	17 Brooklyn St.	All-County Flooring	All County Flooring Supply 1992-1994 no listing 1991 Tishcon 1989-1990 no listing 1984-1988 WL Rayne Publishing 1976 RPM Advertising Agency 1976-1983 Retail Prmtnl Mkt. 1975-1983 L.I. Pennysaver 1973-1983 Components Tech. Co. 1971 Autumn Engineering Dv. 1971-1972		1986-Tishcon raw materials warehouse 8/3/92- waste 1,1,1-TCA sludge removed -715 gal 10/21/1992- waste 1,1,1-TCA sludge removed- 1070 gal.	--MODERATE-- NC-11, n-11855 downgrad. (ND)
11,78,70	981 Old Coun. Rd.	Dr. Nick's Transmission	Dr. Nick's Transmission 1978-94 A&S Perfection Auto 1976-1978 no listing 1975 Carle Place Towing 1973-1974 Janlee Svc. Station 1971-1972			--MODERATE--
11,78,81	989 Old Coun. Rd.	Lisa's Sub Shop	Lisa's Hero Shop 1992-1994 no listing 1990-1991 Cozy Corner Restaurant 1985-1989 Star Diner 1980-1984 no listing 1976-1979 Cassel Diner 1972-1975 no listing 1971			--LOW-- based on site usage history
11,78,78-79	30 New York Ave. sample from dry well on 5/31/91 reveals: 1,1-DCE @ 280 ppb, meth. chlor. @ 60 ppb 1,1,1 TCA @ 21000 ppb	Tishcon, Inc.	Tishcon Corp. 1992-1994 no listing 1985-1991 Holiday Optics 1981-1984 Sigma Optical Collection 1980-1984 Coral Color Processing 1976-1978 Central Reproduction 1975-1983 Cee-Jay Graphics 1974 Wideband Communications 1973-1974 Aids Models 1973-1975 Detwiler Development 1971-1972	sewered 8/29/87 Coral, Central, as of late 70s- actively discharging photochemical wastes to cess pool	CENTRAL REPRODUCTION photochemicals NOS -390 gal waste photochem.- 130 gal Tishcon- production (1986) 1992: 385 -55gal drums MeCl 303 55-gal drums 1,1,1-TCA 138 55gal drums methanol	--HIGH-- GP-10 is directly downgrad, (high TCA)
11,78,18-21,72-73, 55-58	36 New York Ave.	Equivalent Pharm. Ind.	Eckhart Corp. 1992-1994 Time Cap Labs 1981-1994 L.I. Janitorial Svc. 1984-1991 Tishcon Corp. 1981-1983 Custom Coalings 1981-1990 no listing 1980 Step-A-Tronics Inc. 1974-1978 Detwiler Development Corp. 1973-1979 no listing 1972 Board of Education Tech. Trade 1971	no record of sewerage 1983 -sanoloc discharged to sewer 6/3/86- complaint from dismissed employee: 1,1,1-TCA, m methanol to floor drain no info on fate of these wastes	Custom Coatings, Inc. Methylene chloride-- 200 gal/yr. chloroethene- 2000 gal/yr. methyl alcohol-200 gal san-o-loc cleaner - 1000 gal.	--HIGH-- GP-10 is directly downgrad, (high TCA)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,78,12-16,60-63, 74-75	40 New York Ave.	Lin Industries, Inc.	no listing 1988-1992 Tishcon Corp. 1983 no listing 1982 Forms R Us 1981 King Bear Auto Svc. 1974-1980 P&M Distributors Inc. 1971-1973	sewered 4/6/79 Tishcon-1986 packaging only (NCDOH)	King Bear Enterprises no chem 1986 Tishcon packaging inks 400 gal, roller wash-15 gal	--HIGH--
11,79,308,309, 236-237	1007 Old Coun. Rd.	Hertz Rentals	Meineke Discount Muffler 1977-1992 no listing 1971-1976			--LOW--
11,79,283-296 ? 283-296	999 Old Ctry. Rd.	Westbury Mazda	no record 1971-92			--MODERATE-- no record of use
11,79,242-245	25 State St.	Ziebart Transmissions	Ziebart Rustproofing 1981-1994 Paramount Wash Equipment 1973-1980 Statewide Auto Painting 1972 Miller Sportscar 1972 Westbury Nationwide Auto 1971		Zeibart- Petroleum spill discovere when hooking up to public sewers Jun-90 analysis of bottom sediment indicates TCA, BTEX contam	--MODERATE-- no good downgrad monitoring point
11,79,246-247		parking lot				
11,79,248-252	43 State St.	National Transmission & Repair	National Transmissions & Repair 1992-1994 no listing 1989-1991 Innovative Dimensions 1986-1987 Precise Alloys 1984-1988 Teague Associates 1971-1984		Precise Alloys- Zinc chloride, 35 gallons	--MODERATE-- property is upgrad from NC-24 (high TCA)
11,79,253-256,316	51 State st.	for rent	no listing 1992 Healthcare Disposable 1990-1991 no listing 1989 Compositech Ltd. 1986-1988 no listing 1985 G. Splicer Corp. 1983-1984 Jazz Record Company 1978-1983 no listing 1974-1977 Autonumerics Inc. 1971-1973		Compositech- no chems listed	--MODERATE-- property is upgradient of NC-24 (high TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,79,271-273,315	60 Brooklyn Ave.	L.I. Fabrications	L.I. Fabrications 1981-1994 Salsbury Sales 1982 no listing 1980 Star Uniform Rentals 1979 no listing 1978 Carolina Freight 1975-1977 Leonard Express 1974-1977 Beck Leasing Ltd. 1972-1973 Sutherland Transportation 1971-1973 Jet Cargo Inc. 1971-1973 Rothenberg Assoc. 1971		L.I. Fabrications adhesives-4 gal. denatured alcohol 2 gal.	—MODERATE— property is immediately adjacent to GP-6 (high TCE, high TCA)
11,79,319	19 State	Frank's Autobody	Frank's Auto Body 1990-1994 Equipment Maintenance Corp. 1971-1989			—MODERATE— based on site usage
11,79,318	17 State	Industrial Bearing & Supply	Industrial Bearing & Supply 1971-1994			
11,79,314	54 Brooklyn Ave.	Kwik-Ezee, Inc.	Kwik-Ezee 1971-1994	sewered 12/8/80 Kwik-Ezee- wheel-alignment products	KWIK-EZEE INC. acetone-1 gal tol - 1 gal min. spirits -10 gal 1,1,1-TCA - 1 gal safety - kleen -30 gal Kwik-Ezee 1,1,1-TCA-1 gal/yr. Tol - 1 gal /yr.	—HIGH— upgradient of NC-24 (high TCA , high TCE)
11,79,279-282	44 Brooklyn Ave.	For Sale, vacant (?)	no listing 1991-1992 Precision Mechanisms 1971-1990	sewered 1/6/87 discharged to cesspool until 1977 site delisted Feb. 20, 1992	PRECISION MECHANISMS mineral spirits -110 gal naptha, coal tar-220 gal cutting oil- 110 ga. wastes: pet distill.—60 gal oil contam w/ solvents 1,1,1 Trichloroethane 1.5 gal/yr	—HIGH— immediately upgradient of NC-24 (high TCA, high TCE)
11,79,1-8 ? 265-270, 670 Main St.		Arkwin Industries, Inc.	no listing 1979-1992 S.W. Anderson Sales 1971-1978	sewered 7/28/90	ARKWIN INDUSTRIES 1,1,1 -TCA —275 gal Waste Oil -55 gal	—HIGH— immediately upgradient of GP-6 (high TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,79,63-64,303, 312-313,258-259 3177	75 State St.	Huron	Huron Co. Inc. 1971-1994 Salem Company Ind. 1980-1981	sewered 11/5/80	HURON TOOL & CUTTER cutting oil- 72 gallons trim solution- 55 gal wastes- solvents-55 gal waste oils- 155 gal. petro. distill. - 110 gal. HURON TCE - 20 gal/yr.	--HIGH-- immediately upgradient of GP-6 (high TCA, high TCE)
11,80,192-198,107-1	686 Main St.	Arkwin Industries	Arkwin Industries 1971-1994 Dori L. Evans Attorney 1984-1994 I.Sverdlik Attorney 1984-1994 Hydrocraft Corp. 1971-1979	sewered 7/30/80 property has two drywells	ARKWIN INDUSTRIES Freon-990 gal MEK -210 gal 1,1,1-TCA - 12700 gal; trim sol. -990 gal WASTE Solvents-10200 gal Waste Oil-3240 gal. waste-non-hal solv.- 110 gal ARKWIN 1,1,1-TCA --4500 gal/yr. MEK-110 gal/yr.	--MODERATE-- upgradient of GP-6 (high TCA, high TCE)
11,80,252	67 Bond St.	Liberty Computer Systems	Liberty Computer Systems 1989-1992 Business Computer 1984-1988 Allard Avionics 1984-1988 Alltronics 1984-1988 Afi 1983, Allard Instruments 1983, no listing 1982 Donna Oil Corp. 1972-1981 Leemills Petroleum 1971-1981 Clada Maintenance 1971-1981 Power Test Petroleum 1971-1978		Alltronics no chem listing for this address	--MODERATE-- no good downgrad monitoring point
11,80,241	58 State St.	Performance Autobody	no listing 1992 All County Flooring Supply 1991 no listing 1986-1990 Parliament Equipment 1979-1980 G. Spicer Corp. 1979-1980 GSC Film Corp. 1979-1980 Meynell Valves 1978-1985 National Profit Sharing 1975-1977 no listing 1974 Holland Assoc. 1971-1973			--MODERATE-- immediately adjacent to NC-25 (ND)
11,80,243	53 Bond St.		no listing 1971-1992		Parking for A.S. Louison	

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,80,209-213,92-96 236,245, 248-251	1025 Old Coun. Rd. 1st Floor: 2nd Floor:	Dealership(Cadillac)Offices Parking Garage Anne S. Louison Cadillac Dealership Various offices	H.J. Weinstein CPA 1992-1994, Transportable Technologies 1992-1994, Telephone Technologies 1992-1994, G. Stellar 1992-1994, Project 2 Chemicals 1992-1994, Financial Equities 1992-1994, M. Bibla Acctng 1992-1994, Bessemer Venture 1992-1994, CL Della Brokers 1992-1994, Continental Mtg. Bankers 1992-1994, Capture Realty 1991-1994, REP Industries 1992, Tri Temporary Personnel 1992, Tri Star Research 1992, Pacific Consulting 1992, Allen Midlin Acct. 1992, Mitchell Levitin 1992, LPL Technical Svc. 1992, Klein & Bibla Ltd. 1992, Dr. Alan Klein 1992, GM Karlan 1992, Harstein Atty. 1992, Goldmark Publishing Co. 1992, Fl. St. Consulting Group 1992, RS Feinsilver Atty. 1992, Communication Crdt&Rcvry 1992, NG Bragelli 1992, Atrium Funding 1992, All Island Mini Storage 1992, Active Solutions 1992, A Prof Writing ASC 1992, F.Scappy Real Estate 1991, Donato Engineering 1991, Howard Blankman 1991, Brandy Group 1989, Westbury Dodge 1988-1991, Ontime Messenger Svc 1988, Auto Plaza Nissan 1988-1991, Auto Plaza leasing 1986-1989, FS Brokerage 1985, DVA Assoc. 1985-1986, Autovest Inc. 1985-1986, Sound Move Auto 1972-1986, Sound Move Leasing 1983-1986, Salco Westbury 1983-1986, Superb Auto Leasing 1981-1986, Superb Auto Rental 1981-1986, Sisler Leasing Corp. 1981-1983, Numismatic Concepts 1981-1982, J. Weinstein Real Estate 1980, Alan Krinsky Co. 1980, J. Buttolph Real Estate 1980, Sound Move Motors 1972-1982, Selkin Realty Co. 1979-1983, LL&SS Assoc. 1979-1986,		Auto-Plaza Nissan- Sound Move Datsun safety-Kleen 360 gal petrol. distill. -nos	-MODERATE-- no good downgrad monitoring point

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
			L. Robert Hair Design 1976-1980, Kitten Kar Rental 1977-1980, Sound Move Datsun 1973-1986, Hair Replacement Center 1972-1988, SK Marketing Prog. 1976, Complete Coverage 1975, Protex of Nassau 1974, All-Island Appraisal 1973, Plus Hair Centers 1972-1975, Italian American Cv. Rights 1972, Scappy & Peck Auto 1971-1978, Avant Garde Mtr. 1971, Detore Publications 1971-1973, Hairweave Creations 1971.			
11,80,92-96	45 Bond St.		Motorworks 1992-1994 Sunrise Assoc. 1990-1991 Tows-R-Us 1989-1991 Action Seal Ltd. 1989 All Shield Enclosures 1977-1988 All-Tronics Inc. 1971-1988	sewered 10/4/83 1977 - non-contact cooling water to cesspool	ALL-TRONICS INC. 1,1,1-TCA --220 gal. ALLTRONICS TCE -600 gal/yr.	--MODERATE-- adjacent to GP-1 (high TCE, low TCA)
11,80,245	27 Bond St.		Jorway Corp. 1971-1994 The New O'Shea Agency 1990 IS Morris Inc. 1990-1991 Nassau County Demo. Co. 1989-1992 Automotive Research 1988 Numismatic Concepts 1986 Cash Inc. 1985-1986 BYG Dental Supplies 1981-1985 Compurex 1980-1983 Realife Dental Studio 1979-1985 DJ Dental Labs 1977-1978 Digital Interface 1976-1979 Air Lock Industries 1976 Databus Corp. 1974-1975 CA Detection Labs 1974 B. Egon Commercial Art 1973-1977	sewered 11/18/80	Jorway Corp. Freon TMC- 55 gal	--LOW-- adjacent to and downgrad of GP-1 (low TCA, high TCE) upgrad of GP-5 (low TCE,low TCA)
11,80,248 ?	5 Bond St.		no listing 1984-1992 Supreme Edgelight 1975-1983 Supreme process Co. 1972-1978 no listing 1971		Supreme Edge light tol-2 gal,xyl-10 gal benz- 1 gal	--LOW-- upgradient of GP-5 (low TCE, low TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,160,183-187,119- 70 State St. 11,160,178-182, 124-128		Arkwin Industries	no listing 1992 Arkwin Industries 1991 no listing 1982-1990 Vision Corp. 1981 North American Eyewear 1981 Ashland Optical Corp. 1981 Aznet Inc. 1977-1980 Fairchild Semiconductors 1974-1980 Hamilton Avnet Electronics 1972-1980 Avnet Electronics 1971 Microdot Inc. 1971-1973	sewered 11/14/79 1977 non-contact cooling water to cess pool	Hamilton Avnet Electronics Inc. TCE-55 gal/yr. MEK 300 gal/yr.	--MODERATE-- upgradient of GP-4 (moderate TCE, moderate TCA) adjacent to AIMW-70 STATE-D (ND)
11,160,173-177, 129-133	112 State St.	vacant lot, fenced - site delisted 8/92	no listing 1978-1992 Sentinel Pilferage 1976-1977 Knogo Corp. 1971-1977			--LOW--
11,160,21-23, 114-116, 190-191	689 Main St.	Bernhardt Screw Machine	Bernhardt Screw Mach. 1975-1994 I&R Metal Products Inc. 1984-1986 L.I. Mold & Tool Co. 1971-1974 Excaliber Mfg. 1971-1974		BERNHARDT MACHINE SCREW mineral spirits - 721 gal cutting oil - 2170 gal	--MODERATE-- immediately adjacent to and upgradient of GP-36 (low TCA, low TCE) N11545 (low TCE, low TCA)
11,160,117-118, 188-189	74 State St.	National Profit Sharing, Fulfillment House	National Profit Sharing 1984-1994 Fulfillment House 1984-1992 Topps Inc. 1983-1986 National Profit Sharing 1978-1983 no listing 1977 Grayco Products 1971-1976			--LOW-- upgradient of GP-36 (low TCE, low TCA)
11,161,19-26	675 Main St.	Permafuse Properties tanks about 15 yrs old in 1978	The Permafuse Corp. 1971-1992 Elite Auto Detailing 1988-1991 Tilden Auto Care 1971-1986	sewered 4/10/81 1978-- non-contact cooling water discharged to drywell	PERMAFUSE CORP. 1,1,1-TCA -165 gal waste solvents -110 gal UST's- 2000 gal MEK 2000 gal IPA, 2000 gal acetone 3000 gal ethanol, 4000 gall phenolic varnish Perma fuse 1,1,1-TCA -200 gal/yr. tol -2000 gal yr. kero-600 gal/yr.	--MODERATE-- immediately adjacent to and upgradient of GP-4 (moderate TCE, moderate TCA) upgradient of AIMW-656 MAIN-U (low TCE, low TCA), AIMW-656 MAIN-D (high TCA, low TCE)
11,161,5-8,41,42	97 (95) State St.	Metpar	no listing 1978-1992 Metpar Steel Products 1971-1977	sewered 8/6/80 4/1/80 6250 ppb	METPAR STEEL PRODS paint thinner-5510 gal	--MODERATE-- immediately adjacent to

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,161,1-4	parking lot for Met Par			1,1,1-TCA , 128 ppb Xylene in cesspool	1,1,1-TCA --2040 gal Xylene -880 gal Wastes- solv.- 165 gal petro. distill. -880 gal petro. distill. -800lbs non-hal solvs.-495 lbs	GP-3 (low TCA, high TCE)
11,178,26-32 50-57	100 Kinkel	Metals Reclaiming Factory Loni Jo?	no listing 1971-1992			
11,178,34-37,47-49, 72-73	84 Kinkel	Filiberto Newspaper Recycling	Filiberto Newspaper Rcycling 1984-1994 Rutigliano Paper 1980-1994 Matty's Svc. Center 1992 Double C Autobody 1988-1991 Britt Sales 1986 MG Weber Awning 1981-1982 Manufaturer's Advtg. 1981-1986 Otto's Awning Co. 1980 no listing 1979 Metro Container Disposal 1978 Oyster Bay Sand & Gravel 1977-1978 GK&J Enterprises Inc. 1977-1978 Premium Plumbing 1974-1976 R.Razzano Plumb & Htg. 1973 Cirillo Bros. Petroleum 1973-1977 AAA Cesspool Svc. 1971 Rotoray Sewer Svc. 1971 SA Bels Svc. 1971-1977			--MODERATE-- no good downgrad monitoring point no chem history
11,178,43-46	615 Main St.	Accurate Welding, Diable & Associates	Accurate Welding Inc. 1971-1994 Cliff Diable & Assoc. 1992 Diable & Assoc. Inc. 1992 Statesman Reno Ltd. 1989-1991			--LOW-- no good downgrad monitoring point
11,178,82-85?	100 Urban Ave.	Vigliotti Bros. (scrapyard)	Vigliotti Bros. 1992-1994 no listing 1989-1991 Atco Metal Industries 1979-1988 Atonito Co. Inc. 1971-1988			--LOW-- downgradient of GP-18 (very low PCE)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	POTENTIAL RANKING CONTAMINATION SOURCE
11,178,77-78	86 Urban Ave.	F & W Auto Collision	F&W Auto Collision 1981-1994 Castle Closets Ltd. 1988-1990 Mike's Auto Svc. 1986 MSB Automotive 1985 Mario's Garage 1981-1985 Antique Ford Parts 1979-1983 IWO Construction Inc. 1971-1979 Pro. Art Masonry 1971 American Buildings 1971			LOW-- downgradient of GP-18 (very low PCE)
11,178,79	603 Main St.	Robert Gasalt,Billy Quick Auto, Hicksville Auto Body	Billy Quick Auto 1989-1994 L.I. Welding Svc. 1985-1994 Hicksville Auto Body 1985-1994 Robert Guatt 1992 Ruland Salvage 1991-1992 Karen Carling 1991 Intercontinental Carling 1991 Main Street Auto Parts 1984-1988 G.Buy Auto Interiors 1984 Dick's Auto Repair 1983-1984 Sam-Ton Foreign Auto Parts 1981-1982 Sam-Ton Salvage 1977-1982 Westbury Snow Removal 1977 Westbury Moving & Storage 1977 Star Trucking 1977 F. Ruland 1977-1980 Joe McGinnis Moving 1977 MIA Commercial Interiors 1976 Growth Property Management 1976 Copyvend Inc. 1975-1976 Goodtimes Motors 1975-1977 Handyman Construction 1975 Rock of Gibraltar 1975-1976 Long Island Medical Tech. 1974-1975 no listing 1972-1973 BK Oil Company 1971 Turnpike Fuel Oil 1971			MODERATE-- no good downgrad monitoring point no chem history
11,178,89	96 Urban ?	the Auto Depot (parts)	no listing 1988-1992 John J. Mazur Inc. 1971-1987		JOHN J. MAZUR INC. lub oil-50 gal. cutting oil-30 gal hydraulic oil - 50 gal	LOW-- downgradient of GP-18 (very low PCE)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,180,11-13,15-21	114 Sylvester St.	Daniel F. Allen & Co.	Daniel F. Allen & Co. 1989-1994 PMC Equipment 1981-1986 Ex-Alloy Corp. 1979-1988 Alloy Overlay Specialists 1971-1978 Excavator's Welding 1971-1978 L.I. Diesel Svc. 1971-1986		ALLOY OVERLAY SP lub. oil-75 gal. safety kleen- 180 gal	--MODERATE-- immediately adjacent to and upgradient of GP-13 (lowTCE, low TCA) NC-21
11,180,22-25,56-61	91 New York Ave.	Bartholomew Co. Inc.	Bartholomew Co. Inc. 1985-1994 Vernon Steel Process 1983-1984 no listing 1982 Aquaforms Enterprises 1980-1981 Ambassador Book 2977-1979 no listing 1976 M.Gilbert Steel 1971-1975	1977 on cess pool		--LOW-- adjacent to ADCHEM MWV-1 (low TCE, low TCA)
11,180,29-35	84 Sylvester St.	Superior Auto Restyling	Superior Auto Restyling 1991-1994 Superior Auto Glass 1991 no listing 1990 DCap Insurance 1985 Dealers Chce. Auto Ptg. 1984-1985 Klean Kut Frc. Fght. 1982-1986 Installment Protection 1981 Automotive Mjr. MD Plan 1981-1983 Ultra Seal Inc. 1980-1988 Nationwide Seal 1980-1988 Nationwide Power 1980-1989 no listing 1979 Mellard Gear Co. 1971-1978	Mellard Gear Co. Inst. uses 25 gal/yr. "Nat'l Chemsearch ND-150" - dumps waste to cesspool	NATIONWIDE ULTRA SEAL unknown solvents, wastes	--LOW-- no good downgrad monitoring point
11,180,35-367	72 Sylvester		no listing 1990-1992 Nutralec Corp. 1986 Duramed Research 1984-1985 Duramed Pharmaceuticals 1984-1985 no listing 1971-1983		Duramed Pharmaceuticals IPA, meth chlor,1,1,1TCA Nutralec- IPA-880 gal 72 Sylvester Duramed Pharm.(?) 1,1,1-TCA --1 drum Meth chlor --1 drum	--LOW-- no good downgrad monitoring point

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,180,36-39	629 Main	J.B. Tool & Die Co.	JB Tool & Die 1971-1994 Michael J. Schiano 1981-1984 Micro-Slides 1974-1985 Tool Specialists 1971-1985		J.B. Tool & Die lub oil 50 gal cutting oil-110 gal hydraulic oil 35 gal	--HIGH-- immediately adjacent to and upgradient of GP-38 (moderate TCA) adjacent to and downgradient of ADCHEM MW-3 (low TCE, low TCA)
11,180,54-62						
11,180,62-64	101 New York Ave.		Bel Mar Construction 1992 no listing 1971-1991			--LOW-- no good downgrad monitoring point
11,180,65-72	111 New York Ave.	S & B Machine Works	S&B Machine Works 1988-1994 no listing 1988 Joy Optics Inc. 1978-1985 no listing 1975-1977 Aptek Industries 1974 Kollstan Semiconductor 1971-1973		Joy Optics no chems S&B Machine Works cutting oil 110 gal mineral spirits 55 gal alodine 50 gal	--MODERATE-- immediately adjacent to N-11841 (Low TCA)
11,180,40-51	625 Main St.	Adchem -site delisted 8/28/92	Adchem Corp. 1971-1974 Adhesio Graphics 1971-1994	sewered 5/1/85	ADCHEM CORP. Non-Halog. Organics-3290lbs. sludge from Org chems. -1100gal caustics-4750 lbs acids-450 lbs. Lab. chems.,reagents-450 lbs	--MODERATE-- immediately adjacent to and upgradient of ADCHEM MW-3 (low TCA, low TCE) GP-38 (moderate TCA)
11,180,55-57	85 New York Ave.	Adchem -site delisted 8/28/92	no listing 1971-1992	sewered 5/31/91	Tishcon-1983 methylene chloride-495 gal ADCHEM MEK-30000 lbs/yr. TOLuene-30000 lbs/yr.	--LOW-- immediately adjacent to and downgradient of ADCHEM MW-1 (low TCA, low TCE)
11,181,19-21	100 New York Ave.	Alltype Screw Machine (Skelton?)	Alltype Screw Machine 1988-1994 Skelton Products 1971-1987		ALLTYPE SCREW MACHINE naptha, coal tar-220 gal lub. oil-55 gal cutting oil -55 gal oil contam w/. solvent -295 gal SKELTON 1200 gal cutting oil 300 gal min. spirits	--MODERATE-- upgradient of ADCHEM MW-1 (low TCE, low TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,181,22-25	90 New York Ave.	Spectrum	RGM Leasing 1986-1994 Fine Art Autobody 1983-1991 Alltran Truck Repair 1983-1985 Petfood Warehouse 1982 Ritmil Auto Transmission 1981-1982 Denco Collision 1980 Anthony Collision 1976-1981 T&R Auto Parts 1974-1975 ARC Auto Electric 1974-1976 Henry's Garage Inc. 1971 Syosset Transportation 1971-1977 Town & Country Auto 1971-1975	sewered 11/30/83	Fine Art Autobody paint, lacquer thinner-100-200 gal	--LOW-- upgradient of ADCHEM MW-1 (low TCE, low TCA)
11,181,26-29	84 New York Ave.	Bernite Products Inc.	Bernite Products Inc. 1983-1994 Total Plastic Concepts 1985 Rad Inc. 1984-1991 United Lab Supply Co. 1983-1985 Anthony Collision 1982-1983 no listing 1981 Holmes & Sons Inc. 1975-1980 Bettermade Woodworking 1971-1974	sewered 10/27/89	HOLMES & SONS methylene chloride-165 gal/yr cutting oil - 1100 gal BERNITE meth chlor-2000 gal/yr. PCE -500 gal/yr. mineral spirits-500 gal/yr. All used for resale only	--LOW-- no good downgrad monitoring point
11,181,30-53	655 Main St.	Adchem -site delisted 8/28/92	no listing 1981-1992 B&B XRay Equipment 1979-1980 Royal Sales 1971-1978 Beta Royal Sales 1971-1978 Filtrex Corp. 1971-1978 Kent Dodge 1971-1976		Filtrex Corp. adhesives 180 gal ADCHEM no chem. listing for this address	--MODERATE-- immediately adjacent to and upgradient of NC-4 (low TCA, low TCE) 11845 (low TCA, low TCE) upgradient of ADCHEM MW-3 (low TCE, low TCA) GP-35 (moderate TCA, moderate TCE)
11,181,54-57	85 Brooklyn Ave.	All Island	All L.I. Carpet Supply 1991-1992 no listing 1988-1990 Pharmed Labs 1986 Tishcon Corp. Annex 1980-1985 Lori-Lynn Salon 1978 Decortol Inc. 1971-1976 Corwood Lab Inc. 1971-1979	sewered 6/1/84	CORWOOD LABS 200 gal cutting oil fatty acids, oils, emulsifiers, preservatives (Cosmetic mfg.)	--LOW-- no good downgrad monitoring point downgradient of GP-30 (high TCE, high TCA)
11,181,80	117 State St.	Penco Inc. -site delisted: 5/13/92	Penco 1988-1994 Top Metal Corp. 1988-1994 Satco Products 1986-1987 Satelite Products 1978-1987 Satelite Wholesale 1976-1987 no listing 1971-1975	sewered 4/13/82 Sattlelight Prod. discharged BaSO 4 solution (4.6%) to drywell on regular basis until sewerred	Sattlelight Products no chemicals(?)	--HIGH-- immediately upgradient and adjacent to GP-30 (high TCE, high TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,181,76	109 State St.	Motorola	no listing 1988-1992 Budget Snack Industries 1982 Budget Snack Caterers 1972-1981 Jimmy Legg Distributors 1980 Atlantic Caterers 1972-1981 State House Catering 1971			—LOW— immediately adjacent to N-11842 (low TCE, low TCA)
11,181,78	110 New York Ave.	Eagle Material Products	no listing 1977-1992 Eagle Material Handling 1976 Nassau Forklift 1975 no listing 1971-1974	Adchem-site delisted 8/28/92		—LOW— no good downgrad monitoring point
11,181,82	99 Brooklyn Ave.	ITM	no listing 1978-1992 Textile Financial 1977 ITM Ltd. 1977 no listing 1976 Bd Coop Education Warehouse 1975 no listing 1978-1992			—HIGH— immediately adjacent to GP-30 (high TCE, high TCA)
11,181,83	120 New York Ave.	Grayco Products, Inc.	Grayco Products Corp. 1977-1994 no listing 1971-1976		Grayco Products Corp. no chems listed	—LOW— immediately adjacent to GRAYCO MW-3 (low TCE, low TCA)
11,181,84	125 State St.	Tishcon	no listing 1971-1992		1986 - Tishcon warehouse Sludge Sample 4/15/93: 285 ppb 1,1,1 TCA Storm Drain Sample 4/15/93: 70 ppm 1,1,1 TCA	—HIGH— immediately upgrad of GP-30 (high TCE, high TCA)

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TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
	Town is Westbury ZIP is 11590				(DOH--2/88) (DOH -waste inv , ind chem. surv.)	
11,328,23-26	120 Bond St.	Pepperidge Farms	Pepperidge Farms 1985-1994 no listing 1971-1984		-site delisted 8/92	--LOW-- based on usage history lack of good downgrad monitoring point
11,328,29-36 ? 11,328,37-40 ?	96 Bond st.	The Paper Shop for rent	no listing 1971-1992		-site delisted 8/92	--LOW-- based on usage history
11,328,46-50	694 Main	Reliable Machine Works	no listing 1971-1992		Reliable Machine Works cutting oil- 25 gal -site delisted 8/92	--MODERATE-- downgradient and slightly sidegradient of ANSON MW-8 (high TCE) upgradient of ANSONMW-9 (low TCA, high TCE) GP-39 (high TCA, high TCE)
11,328,63-67,117	44 Bond	S. Glasser	S. Glasser 1988-1994 Physiofitness Ltd. 1989-1991 Autovest 1985-1986 no listing 1984 Music Warehouse 1975-1983 All Record Dist. 1975-1983 no listing 1974 Nursery Outlets 1973 Supreme Edgelight 1971-1973 Supreme Process Co. 1971 Indian Giver Co. 1971		-site delisted 8/92	--MODERATE-- upgradient of ANSONMW-9 (low TCA, high TCE)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,328,58-61,118	50 Bond	Precision Mechanisms	Precision Mchnsms 1991-1994 no listing 1989-1990 Double D Apparel 1988 TI Knitting Mills 1984-1986 Lasandra 1983-1984 Ruffles Fashions 1982-1983 no listing 1981 Ilana Knitwear 1978-1980 Diagem Co. 1975-1976 DM-MO Advrtsng Inc. 1974-1977 Comate Corp. 1974-1977 Cymann Designs 1971-1972 A&M Rosenberg Bldr 1971-1976 Westbury Frntr Wrhse 1971-1972		-site delisted 8/92	--MODERATE-- immediately adjacent to and downgradient of GP-39 (high TCA, high TCE) upgradient of ANSON MW-9 (high TCE, low TCA)
11328146	51 Frost St.	Westbury Appliance, Empire Mailing, L.I. Sports World	L.I. Sports World 1991-1994 Living Rm. Experts Ltd. 1991-1992 no listing 1988-1990 Renaissance Cnfcns 1971-1987 Continental Cnfcns 1971-1987		Continental Cnfcns surfactants 20 gal	--LOW-- based on usage history lack of good downgrad monitoring point
11328159	33 Frost St.	Cadillac Carpet -site delisted 8/92	Cadillac Carpet 1980-1994 no listing 1971-1979		"7/10/84" 100 gal deisel spill	--LOW-- based on usage history lack of good downgrad monitoring point
11, 328, 158		Mister Donut	Mister Donut 1986-1992 Donut Queen 1982-1985 Westbury Donuts 1981 Quik Mart 1979-1980 Citgo Quik Mart 1977-1978 Do Right Svc. Center 1973-1976 Frost Street Svc. Sta. 1971-1972			--LOW-- based on usage history lack of good downgrad monitoring point
11328152	1137 Old Coun. Rd.	Men's World	Men's World Outlet 1979-1992 K&H Importers 1984-1986 World Brand Inc. 1979-1986 The Bath & Kit Ctr. 1972-1978 Miles Shoes 1971			--LOW-- based on usage history lack of good downgrad monitoring point
11328124 11, 328, 178, 179, 181, 186	1085 Old Ctry Rd. or 750 Main St.	Tops Appliance City -site delisted 8/92 no listing 1971-1992 for 750	no listing 1983-1992 Fortunoff 1971-1982			--MODERATE-- upgradient of GP-31 (high TCE, low TCA high BTEX)

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EASTERN SECTION
New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11328186	720 Main	for rent	Nassua Candy Co. 1991-1992 no listing 1986-1990 Cygne Designs Ltd. 1985 no listing 1971-1984		-site delisted 8/92	-MODERATE-- upgradient of GP-39 (high TCA, high TCE)
11, 328, 142, 154	1111 Old Coun. Rd.	Coronet Juvenile, Toy Store	Coronet Juv. Store 1971-1994		-site delisted 8/92	-LOW-- based on usage history
11, 328, 160	1099 Old Coun. Rd.	Westbury Nissan	Westbury Nissan 1992 no listing 1989-1991 Nationwide Auto Ptg 1971-1988		Nationwide Autobody leaves 30 drums paint thinner behind 7/21/88 one drum leaks	-MODERATE-- based on usage history lack of good downgrad monitoring point
11, 328, 112	1035 Old Coun.	Westbury Dodge	Westbury Dodge 1988-1992 Sound Move Auto Plz. 1986 no listing 1971-1985			-MODERATE-- based on usage history lack of good downgrad monitoring point
11, 328, 183	1055 Old Coun. Rd.	Chemical Bank -site delisted 8/92	Chemical Bank 1971-1994			-LOW-- based on usage history lack of good downgrad monitoring point
11, 328, 176	700 Main st. 11/9/88-drywells, septic samples drywell sample #5-6 : 3300 ppb meth. chlor. 8900 ppb , c-1 1,2-DCE, 2900 ppb chloroform 2700 ppb 1,1,1-TCA, 6700 ppb TCE 3100 ppb Toluene, 1,040,000 ppb total B-N extractable dichlorobenzenes 80000 ppb bis-2 eth-hex-phthal. septic sample #1: 36000 ppb c-1 1,2 DCE, 6000 ppb 1,1,1 TCA, 7000 ppb PCE, 6000 ppb tol, 100000 ppb total purgeable dichlorobenzenes, etc. DRYWELLS AND LEACHPOOLS PUMPED AND CLEANED 10 & 11/89 12/11/90 -- Well Samples: upgrad.89 ppb total vocs onsite at leachpools- 295 ppb tot vocs	Utility Manufacturing	Utility Mfg. Co. 1979-1994 Wonder King Chemical 1988 no listing 1971-1978		Utility Mfg. Co. sampling results cesspool sample #1 : 160 ppb PCE 500 ppb c-1,1,2-DCE, 500 ppb Dichlorobenzenes drywell sample #1-2 130 ppb 1,1,1-TCA, 250 ppb toluene 1100 ppb But.benz. phthal, 7700 ppb bis-2 eth-hex phthal. drywell sample #3-4: 10000 ppb toluene, 17000 ppb meth. chlor. 2150 ppb dichlorobenz., 6600 ppb naphthal. 12000 ppb phenanthr., 14000 ppb anthrac. etc.	-HIGH-- based on usage history immediately upgradient and adjacent to GP-39 (high TCA, high TCE) immediately adjacent to UTILITY MW-2 (low TCE, low TCA) upgradient of ANSONMW-9 (low TCA, high TCE)

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EASTERN SECTION
New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
lot 176	710-712 Main?	712 Main 710 Main - no listing	no listing 1988-1992 Wonder King Chem. 1977-1986 Utility Mfg. Co. 1977-1978 Textile Financial 1976 BTX Ind. Ltd. 1974-1976 Vernitron Corp. 1971-1973 Rada Lab Inc. 1971-1973		WONDER KING MFG. CO. Dichlorobenz-600gal PCE-500 gal, 1,1,1-TCA-500 gal, Petrolatum -18000 gal. mineral spirits-750 gal 2-ethoxyethanol-225 gal various silicates,acids, chlorides, TCE -1500 ga/yr	--HIGH-- based on usage history immediately upgradient and adjacent to GP-39 (high TCA, high TCE) immediately adjacent to UTILITY MW-2 (low TCE, low TCA) upgradient of ANSONMW-9 (low TCA, high TCE)
11, 328, 148	715-717 Main St. 715-716 no listing	E-Z EM Corp.	E-Z EM Co. Inc. 1991-1992 no listing 1978-1990 All-O-Matic Mfg. 1974-1977 no listing 1973 Browline Division trdr. 1972 Cargomatic Div. 1971-1972 Tridair Ind. 1971-1972		E-Z EM Co. Inc. BaSO ₄ , Printing Chems, 0 gal, Paints and paint thinner 75 gal	--MODERATE-- immediately adjacent to and upradient of ANSON MW-8 (high TCE) UTILITY MW-2 (low TCE, low TCA) upgradient of E Z-EM (ND)
11, 328, 164	101 Frost St.	Autoline -site delisted 8/92	no listing 1991-1992 Cobraline Mfg. Corp. 1984-1990 Auto Line Mfg. Corp. 1984-1990 Shamrock Knits 1981-1982 Perla International 1974-1982 Edinshire Fabrics 1974-1983 Dressmaker Fabrics 1974-1982 N. Bassen Textiles 1974-1982 no listing 1973 Physio-Chem Corp. 1971-1972 Home Lab Supply 1971-1972 Bronco Modelcraft 1971-1972			--MODERATE-- no usage history immediately adjacent to ANSON MW-7 (low TCE, high TCA) upgradient of GP-32 (low TCE, high TCA)
11, 328, 166	762 Summa St.	Kozy-Sack Puddings -site delisted 8/92	Redline Med Inc. 1990-1992 PAR Floors Inc. 1989 no listing 1983-1988 Tirem Carpets 1976-1982 Merit Carpets 1976-1982 Ace Hardwood Flrg 1976-1982 Salem Carpet Mills 1973-1975 PWL Inc. 1973-1975 Imperial Carpet Mill 1973-1975 no listing 1971-1972		Merit Carpet no chems.	--LOW-- immediately adjacent to GP-7 (low TCE)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11, 328, 157	123 Frost St.	Vacant	no listing 1992 King Arthur Liquidators 1991 Mr. Goodbuys 1988-1991 Arena Mktg. 1988-1991 Arena Liquidators Inc. 1986-1991 Intech Premium Fnd 1984 Gen'l Electric Crdt 1976-1978 Island Leasing Corp. 1973-1982 Int'l Dryer Corp. 1971-1988 J.P. Giordano Atty 1971-1984 E.J. Frolich 1971-1973 Friendly Frost Strs. 1971-1985		Arena Liquidators Inc. no chems. Friendly Frost Strs. no chems.	--LOW-- immediately adjacent to ANSON MW-4 (low TCA) NC-5 (low TCE, immediately upgradient of GP-34 (ND)
11, 328, 174, 169	725 Summa Ave.	Masters Dept Store, Central Textile	Masters Dep't Store 1971-1994 Ginny Daniels 1983 Lady Rose Stores 1971-1986		Masters Dep't Store no chems.	--LOW-- based on usage history lack of good downgrad monitoring point
11, 328, 135 11, 328, 175	115 Frost St.	Ran Truck & Body Repair 4/28/1980 water sample - 527ppb tol, 646 ppb tol, 16158 ppb acetone	Stealth International 1992-1994 Ran Truck Body 1992 no listing 1991 Cobraline Mfg. Corp 1984-1990 Autoline Mfg. Corp. 1982-1990 Sew Simple Inc. 1977-1981 no listing 1976 Ward Baking Co. 1975 Silver Cup Bakers 1975 Tip Top Bakers 1974 Temple Carpet Co. 1973 Hoover Mfg. & Sales 1971-1972	sewered 5/22/86 1980-waste water discharged to ground-	Autoline Automotive Corp. Safety-Kleen-40 gal SEW SIMPLE Ink -300 gal/yr ink extender 5000 gal	--MODERATE-- upgradient of ANSON MW-7 (high TCA, low TCE)
11328175	695 Summa Ave.	Kleartone	Kleartone Prod's 1971-1994 Cleartone Prod. 1971-1994 The Label Co. 1988-1994 Douglas P. Null 1983-1994 Null & Null Atty's 1983-1986 Cello Wrap 1971-1973 Command Dspsbl 1971-1990	sewered 10/8/80	KLEARTONE ethanol -18700 gal ethyl acetate-2130 gal chem name unknown- 1870 gal hexane -216 gal. methylene chloride-165 gal propyl acetate-14400 gal propyl alcohol non-halog.solvents-3270 gal	--MODERATE-- based on usage history immediatel adjacent to ANSON MW-2 (ND) NC-5 (17 ppb TVO's)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11,328,27-28	700 Summa Ave.	Surveillance Enterprises	Surveillance Entrprs 1990-1994 Electronic Ind. 1988-1989 Blen-Cal Electronics 1980-1989 Kaeonicks Ltd. 1978 Govmark Orgnzt'n 1973-1976 Independent Industrial 1971-1972 Sound Dies Inc. 1971-1979	sewered 8/31/83	KAEONICK'S INC. 1,1,1-TCA --5-10 gal/yr Sound Dies Inc. cutting oil 5 gal/yr	--LOW-- based on usage history
11, 328, 172	710 Summa Ave.	Arkwin Industries	no listing 1983-1992 Eutectic Corp. 1979-1982 no listing 1977-1978 Sew Simple 1972-1976 no listing 1971	sewered 5/23/89		--LOW-- based on usage history
11, 328, 185	1065 Old Ctry Rd. -1057-1083 Old Country	Westbury Plaza -site delisted 8/92	Tri-Union Welfare 1981-1994 Local Union 1922 1981-1994 GCG Risk Mgmt 1988-1994 Nogee & Wartel 1991-1994 On Call Nurses 1991-1994 Phys. Thrpy. Ctr. 1991-1994 Tri-County Hme Nrsg 1991-1994 Lawrence Group 1992-1994 Hamilton Avnet Ex 1985-1992 Redstone Security 1991-1992 Jaybach Assoc. 1991 International Data 1991 Block Buster Entrtmnt 1991 Aftermarket Sales 1988-1989 Great Eastern Mgt 1989-1992 Glantz Equine 1989 American Tyron 1989 Northeastern Inv. 1988-1989 William J. Morris 1988-1989 Stevens Scrts Corp. 1988-1989 Silverman Jewelers 1988 Nassau Cty Crpnters 1988-1989 NY Mfrst Alternative 1988 Jeffermin Assoc. 1988 Innovative Profit Plnng 1988 Fitness Source 1988-1992 Aleco Inc. 1988 API Sales 1988 Valley Limousine 1986-1989 Shelter Rock Security 1986 NY Nurses Regional 1986-1989 First Personnel Agcy 1986-1989			--MODERATE-- downgradient of GP-31 (low TCA, high TCE, high BTEX) lack of good downgrad monitoring point

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
			Ferguson Mntnc Co. 1986-1988 FM Stevens Security 1986 Raymond S. Voulo 1985 The Gamehunter 1985 Wareen Mainella 1985-1986 Voulo Mainella Attys 1985-1986 Co. Prmtnl Mgmnt 1985-1986 Captain Sports Line 1985-1986 Advo Syst. Inc. 1985-1986 Anthony Todd Assoc. 1984 Gen-Mar Mntnnc 1984-1988 Empire Metals 1984 Local Union 1430 1982-1989 Vanguard Coverage 1982-1984 Robertshaw Ctrls 1982-1986 Fulton Syphon Div. 1982-1988 Specification Cnsitnts 1981-1982 Salisbury Sales 1981-1985 Nas. Cty Crpnlr Apr. 1981-1982 Desoto Dstrbtrs 1981-1985 Perto Inc. 1980-1983 Steven's Air Freight 1979-1980 S & C Transportation 1979-1980 Hope For Youth Inc. 1979-1984 IDS Mktg. Corp. 1978 Nationwide Pwr Train 1977-1979 Nationwide Ultra Seal 1977-1979 Saw Ventures 1977-1988 Data Composition 1977-1979 S.R. Weston 1976, J. Savilia 1976, P. Ostwald 1976, Berkshire Farm 1976-1984 RJ Leamey 1975-1976 Investors Diversified 1975-1977 Reliance Research 1975 Statefarm Insurance 1974-1977 Silverman Sales 1974-1988 Parmel Agency Inc. 1974-1982 Gaetano Barbieri 1974-1977 Manning Jewelry 1973-1986 JJ BLake Assoc. 1972-1976 Bahama Realty 1972-1974 Nas. Cty Crpnlr's Fnd 1971-1989			

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
	1057 Old Ctry Rd.		Dragon Palace 1988-1992 House Of Gong 1984-1986 Far East Inn 1971-1985			--SAME AS ABOVE--
	1083 Old Ctry Rd		no listing 1991-1992 Wall Talk 1980-1990 no listing 1977-1979 Radio Shack 1971-1976			--SAME AS ABOVE--
11.328,170	75 Frost St.	Nassau Candy -site delisted 8/92	no listing 1988-1992 J.Breed Clothing 1986, Jean Pierre Originals 1984-1985, Holland Assoc. 1981-1982, Hagstrom Guitar 1980, Unicord Inc. 1971-1982, Merson Musical Products 1971-1985, Hagstrom Guitar 1971, Amplifier Corp. 1971-1980.	sewered 6/22/82	Holland Assoc. no chems Unicord no chems	--LOW-- based on usage history upgradient of GP-9 (low TCE)
11, 328, 173, 148	750 Summa Ave.	EZ-EM -site delisted 8/92	no listing 1992 Advanced Food Svc. 1971-1991 Micro Industries 1971-1982	sewered 5/24/83 1978 inspection (Advance) reveals floor drain beneath TCA vat leads to drywell-no sample data	ADVANCE FOOD SERVICE EQUIP. 1,1,1-TCA --330 gal/yr. Waste solvents - 165 gal	--MODERATE-- upgradient of UTILITY MW-1 (low TCE 29 ppb TCA) UTILITY MW-2 (45 ppb TCA 70 ppb TCE/PDE/DCE) ANSON MW-8 (ND)
11, 328, 144	751 Summa Ave.	for rent -site delisted 8/92	no listing 1982-1992 Horn Bros. Inc. 1973-1981 no listing 1972 Bulova Watch Co. 1971	sewered 5/9/83	APPLIED FLUIDICS MEK-10 gal petro. distill. -10 gal TCE- 10 GAL	--LOW-- immediately adjacent to ANSON MW-3 (ND)
150 also?	776 Summa Ave.		Supreme Mtl Fbrctr 1971-1992	sewered 5/24/83		--LOW-- lack of good downgrad monitoring point
11, 328, 151	790 Summa Ave.		no listing 1976-1992 Advance Food Svc. 1975 no listing 1971-1974	sewered 5/24/83		--MODERATE-- upgradient of ANSON MW-7 (high TCA, low TCE)

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New Cassel Industrial Area

TAX LOT	ADDRESS	CURRENT OCCUPANT	PREVIOUS SITE USAGE	WASTEWATER DISCHARGE HISTORY	HISTORIC CHEMICAL/ WASTE INVENTORY	CONTAMINATION SOURCE POTENTIAL RANKING
11, 328, 171	89 Frost St.	Korg Electronics -site delisted 8/92	Korg USA 1988-1994 Unicord 1982-1986 Merson Musical 1980-1986 Hagstrom Guitar 1980-1986 Amplifier Corp 1980-1986 no listing 1977-1979 Marvex Processing &Finishing 1974-1976, Lincoln Processing 1971-1973, Adchem Corporation 1971-1973.	sewered 2/24/83	Unicord no chems	--MODERATE-- upgradient of GP-9 (low PCE)

APPENDIX B

SITE INSPECTION PHOTOGRAPHS



PHOTO 1. Rear of 115 Frost Street (tax block 328, lot 135), occupied by U.S. Polymers.

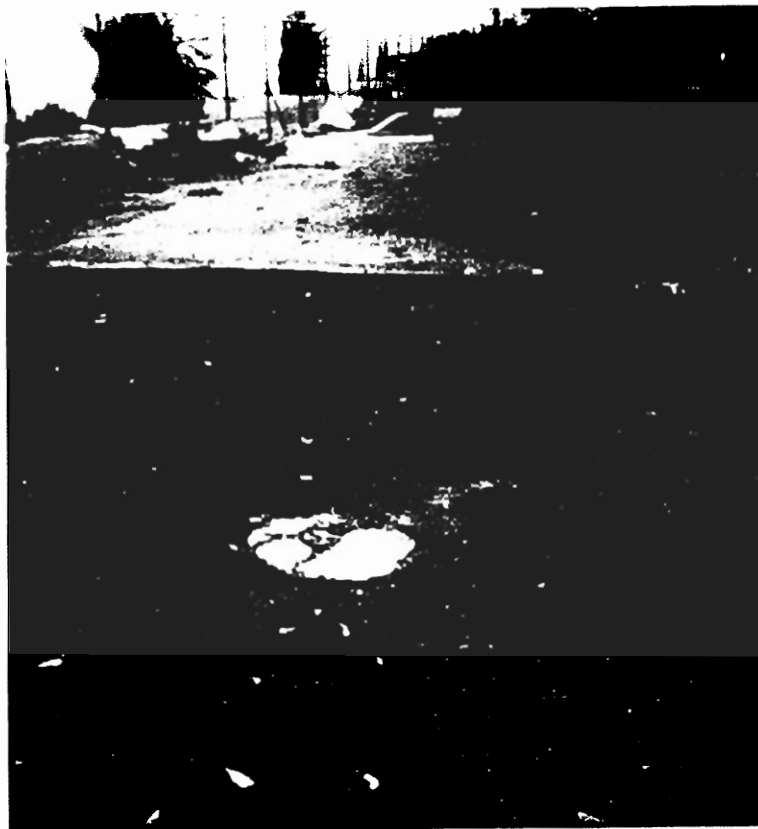


PHOTO 2. Rear of 115 Frost Street, looking north up the alley. Note tank fill port in pavement.



PHOTO 3. Rear of Korg, Inc., at 89 Frost Street (tax block 328, lot 171), looking north at 101 Frost Street.



PHOTO 4. Utility Manufacturing at 700 Main Street (tax block 328, lot 176). White truck is Geoprobe rig sampling leachpool.



PHOTO 5. Tishcon Corporation at 125 State Street (tax block 181, lot 84), looking west along southern property line. Three leachpools are located approximately 10 ft off chain link fence.



PHOTO 6. Tishcon Corporation at 125 State Street - front of building along State Street.



PHOTO 7. Metpar Steel Products at 95, 97-99 State Street (tax block 161, lots 41, 5-8).

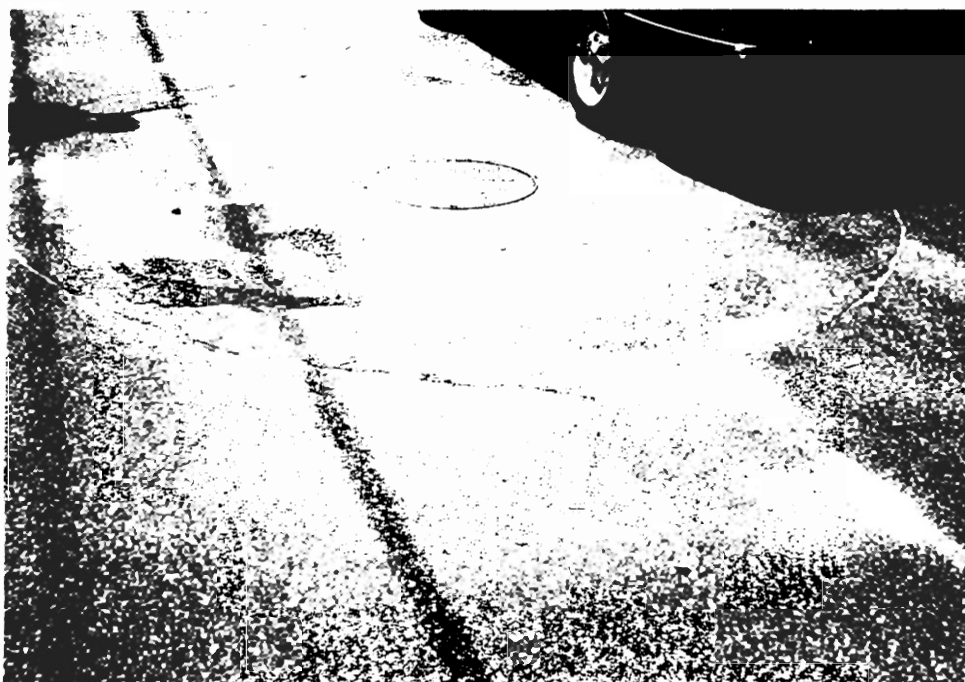


PHOTO 8. Suspected inactive leachpool at 95 State Street.

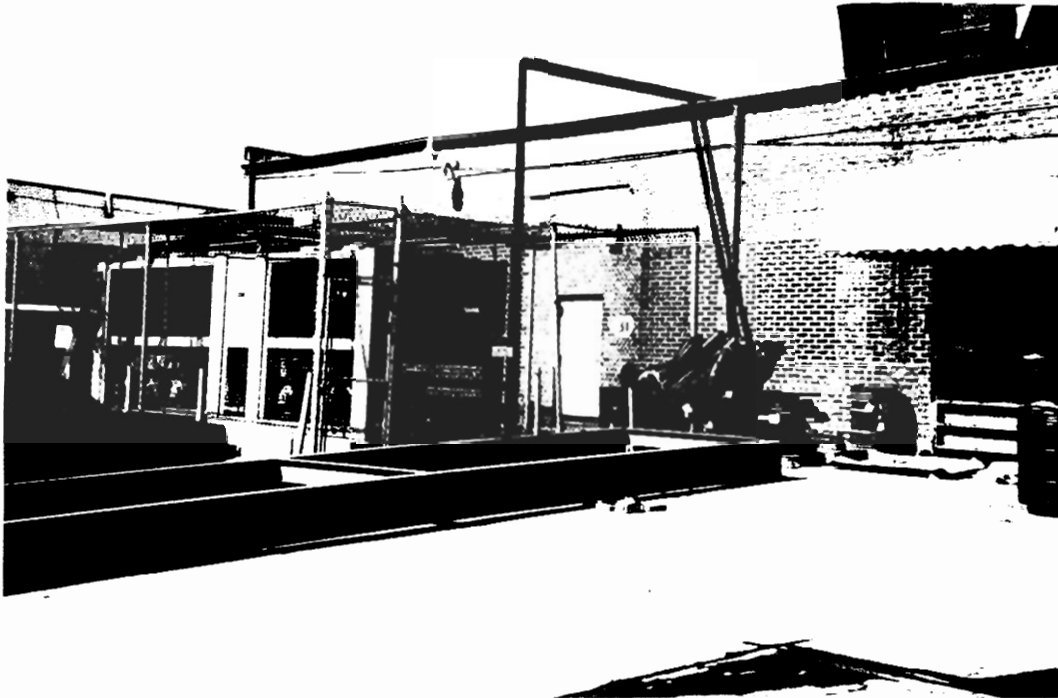


PHOTO 11. Tishcon Corporation at 31 Brooklyn Avenue. Note electrical pad between car and building, which may have been built over a former leachpool.



PHOTO 12. Tishcon Corporation at 33 Brooklyn Avenue. Note shallow depression (a former leachpool) in front of dumpster.



PHOTO 13. Tishcon Corporation at 31 Brooklyn Avenue, looking north. Note sewer vent pipe, which may have led to now-abandoned leachpool.



PHOTO 14. Tishcon Corporation at 33 Brooklyn Avenue, looking northwest. Note leachpool near cardboard drums.

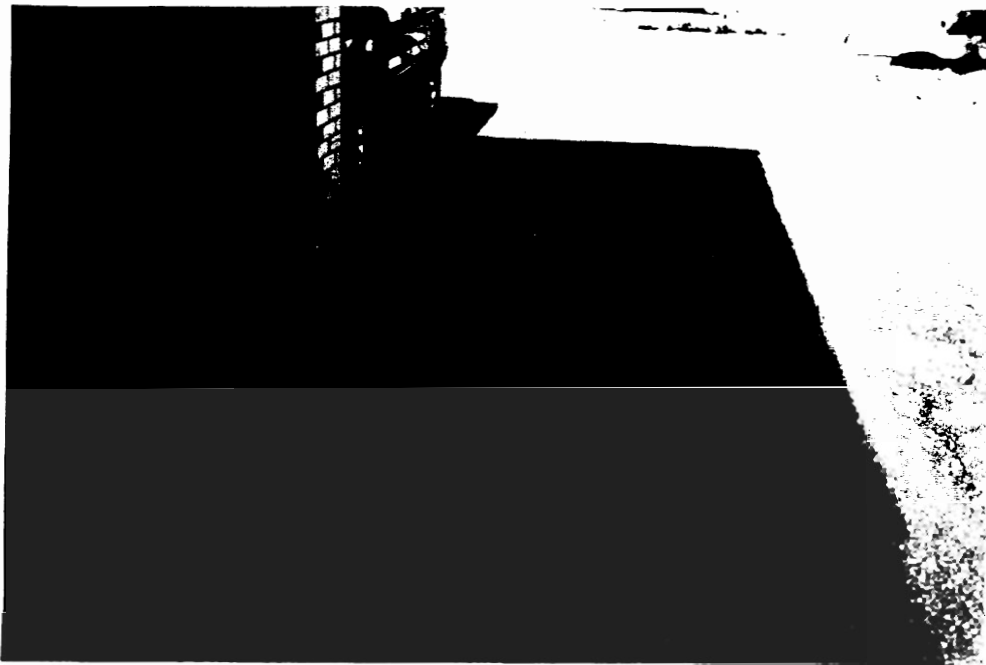


PHOTO 15. Alley along northern property boundary of Tishcon Corporation at 36 New York Avenue, looking west. Note suspected leachpool in center of photo.



PHOTO 16. Alley along northern property boundary of Tishcon Corporation at 33 Brooklyn Avenue, looking west toward New York Avenue.



PHOTO 17. Tishcon Corporation at 33 Brooklyn Avenue. Note sewer vent pipe between cardboard drums. This discharge point leads to the now-abandoned leachpool that was contaminated with TCA.



PHOTO 18. Former location of Van Son Holland Ink at Sylvester Street (tax block 76, lots 5-8). Note leachpool in center of photo.