#2

ENGINEERING INVESTIGATIONS AT
INACTIVE HAZARDOUS WASTE SITES
PRELIMINARY SITE ASSESSMENT

Franklin Cleaners Site
Town of Hempstead

SITE No. 130050
Nassau County

DATE: March 1993

Prepared for:

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

50 Wolf Road, Albany, New York 12233

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BY:

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
Division of Sanitation and Water Supply
Hazardous Waste Services Unit

Engineering Investigations at Inactive Hazardous Waste Sites
Preliminary Site Assessment
Franklin Cleaners Site Site No. 130050

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1.0 Executive Summary

The Franklin Cleaners site is located in the Village of Hempstead, Nassau County, New York, on a small 60 ft by 90 ft lot at 206-208B South Franklin Street. The site is part of a small strip mall of five stores that was constructed in 1956. A dry cleaner has operated at the site since the late 1970's - early 1980's. In 1991 dry cleaning operations ceased and for a brief period it was occupied by a retail clothing store; currently the site is vacant.

In March of 1990, the Nassau County Department of Health (NCDOH) investigated a complaint of tainted drinking water from a resident's private wells downgradient of the Franklin Cleaners site at 6 Linden Avenue. Samples from the well showed significant levels of tetrachloroethylene (PCE), (29,000 ppb). The NCDOH subsequently inspected the Franklin Cleaners site as a potential source of the PCE at 6 Linden Avenue and sampled soils from the dry cleaner's basement and backyard. The analytical results for the soil samples showed extremely high levels of TCE, as high as 650,000 ppb.

Under contract to the New York State Department of Environmental Conservation (NYSDEC), the Nassau County Department of Public Works, Hazardous Waste Services Unit (NCDPW), conducted a preliminary site assessment to more fully identify groundwater impacts resulting from past activities at the Franklin cleaners site.

NCDPW performed a detailed survey of all existing groundwater monitoring wells in the vicinity of the Franklin

Cleaners site and determined groundwater flow to be in a south-southwest direction. Four monitoring wells were then located and installed, one upgradient and three downgradient of the site. All wells were installed by the hollow stem auger method and penetrate the top twenty feet of the water table.

During installation no split spoon soil samples showed any level of volatile contamination as measured by a field HNu photoionization detector.

Following development and a two week standing period, all wells were sampled for each major group of organic compounds found in the Target Compound List, as well as metals.

Results of the groundwater sampling showed no concentrations above the method detection limits for semivolatile organics, pesticides and PCB's. Volatile organic compounds (VOC's) were identified in all wells. However, only well FC-2 exhibited a level above the method detection limit. Well FC-2, located directly downgradient of the site contained a total of 88 ppb of VOC's, 83 ppb of tetrachloroethylene and 5 ppb of methylene chloride. No unusual levels of metals were identified, with the exception of a slightly elevated sodium concentration.

The total VOC level in well FC-2 was below the MCL of 100 ppb, established for the total of the listed principal organic and unspecified organic contaminants. However, tetrachloroethylene exceeded the class GA standard of 5 ppb

established in the New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1 dated November 15, 1991.

The existence of PCE in well FC-2 confirms it's presence in the upper glacial aquifer downgradient of the Franklin Cleaners site. Since the upgradient well, FC-1, was clean and the previous NCDH sampling of the Franklin Cleaners site identified PCE in the soils there, it is apparent that Franklin Cleaners is the source of the groundwater contamination.

Although the levels of contamination found in FC-2 were lower than historically found in the private wells at 6 Linden Ave., the presence of PCE is significant. It is possible that the monitoring well is not located in the central portion of the plume where levels would be considerably higher.

It is recommended that the Franklin Cleaners site be classified as a class 2 site, in that it poses a significant threat to the environment and public health. Future work recommended includes the removal of contaminated soil at the Franklin Cleaners site, re-sampling of the PSA wells and re-sampling of the private wells at 6 Linden Ave. This information should be used to install additional monitoring wells to further delineate the extent and degree of contamination at the Franklin Cleaners site.

2.0 OBJECTIVES

The Nassau County Department of Public Works, Hazardous Waste Services Unit, under contract to the New York State Department of Environmental Conservation, Bureau of Hazardous Site Control, conducted a preliminary site assessment of the Franklin Cleaners site, located in the Town of Hempstead, Nassau County, New York.

The investigation was initiated in response to the discovery of contamination in a private well located downgradient of the Franklin Cleaners site. The contaminants of concern included tetrachloroethylene, trichloroethylene and cis-1,2-dichloroethylene. The purpose of this investigation was to determine if the source of contamination was related to activities at the Franklin Cleaners site, determine geologic and hydrologic conditions beneath the site, further delineate the extent and degree of contamination and evaluate it's impact on any sensitive receptors as defined in the scope of work.

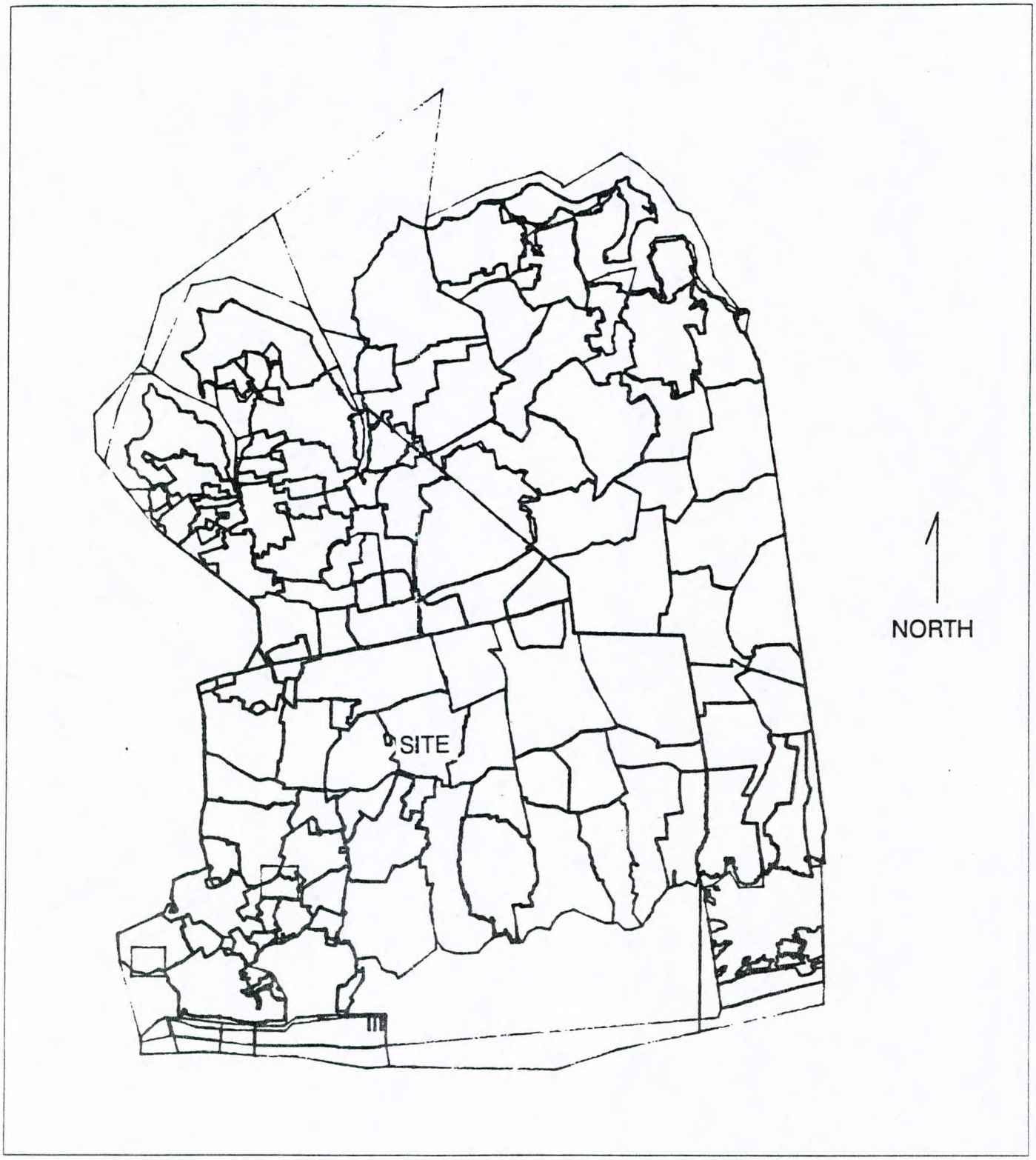
3.0 BACKGROUND

3.1.0 Site Location and Description

The Franklin Cleaners site is located in the Village of Hempstead, Nassau County, New York (see Fig. 1). The building proper is located at 206-208B South Franklin Street, Hempstead, New York. The building was erected in 1956 on the 60ft. x 90ft. lot. The structure is typical of two story brick and cinder block construction and is part of a small strip mall of five store fronts with apartments on the second story. The surrounding area consists mainly of residential homes with some light commercial properties along South Franklin Street and light to moderate commercial and industrial properties along Peninsula Avenue to the North. Two public supply wells, N-3668 and N-8264, are located approximately 700 feet west-southwest of the site on Laurel Avenue between Elm and Linden Avenues. The wells are screened approximately 500 feet below grade (see Fig. 2).

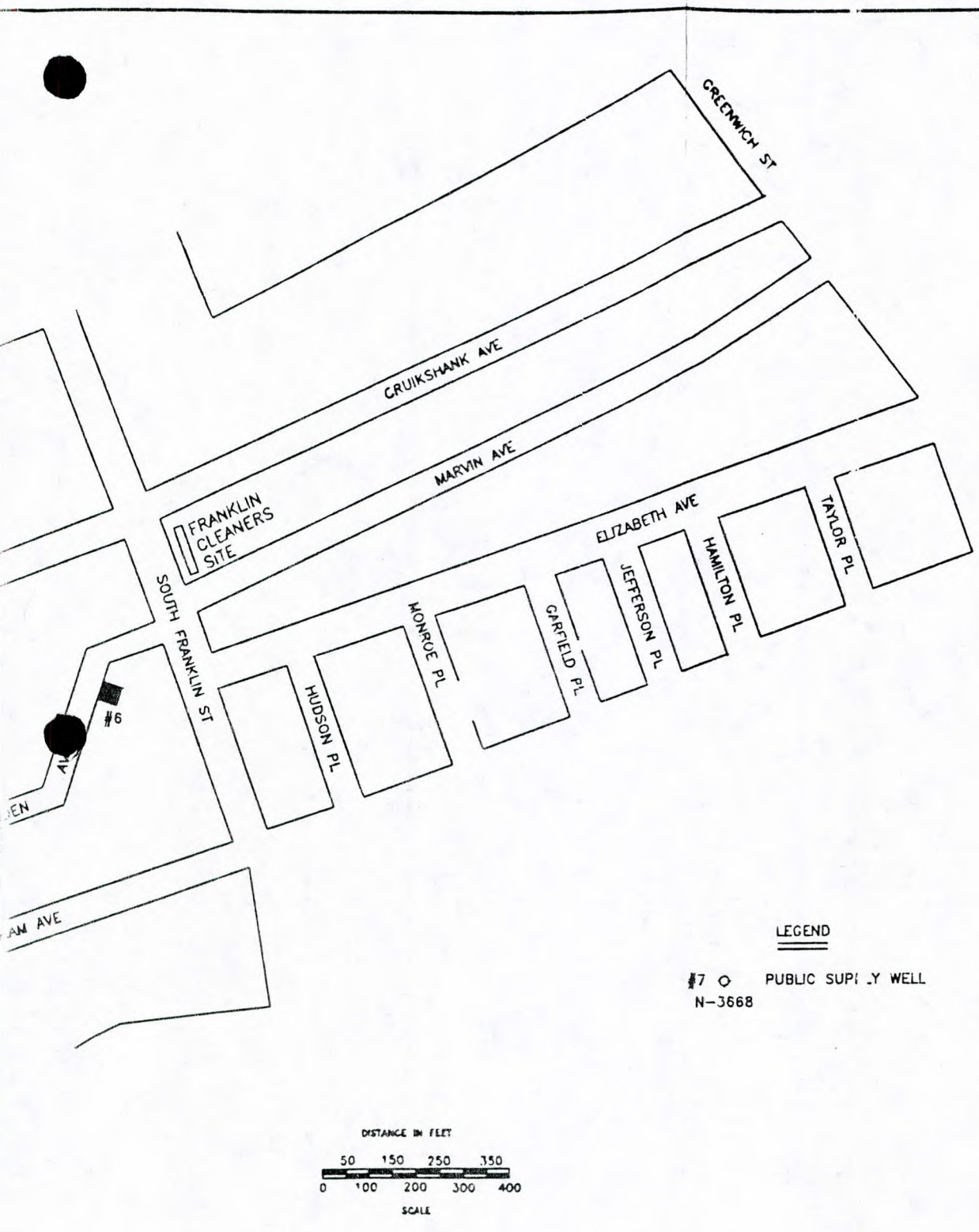
3.1.1. Site History

According to the Village of Hempstead, Office of Business Licensing records, the Franklin Cleaners site is owned by Incoronata Perna of 807 Taft Street, West Hempstead, N.Y., and has operated as a dry cleaners since the late 1970's -early 1980's. In 1990, the facility changed names from Franklin Cleaners to Grace Cleaners. Grace Cleaners ceased operation in 1991. In 1992, a retail clothing store operated briefly, but has since closed. At the writing of



Franklin Cleaners Site, Nassau County, New York

Figure 1



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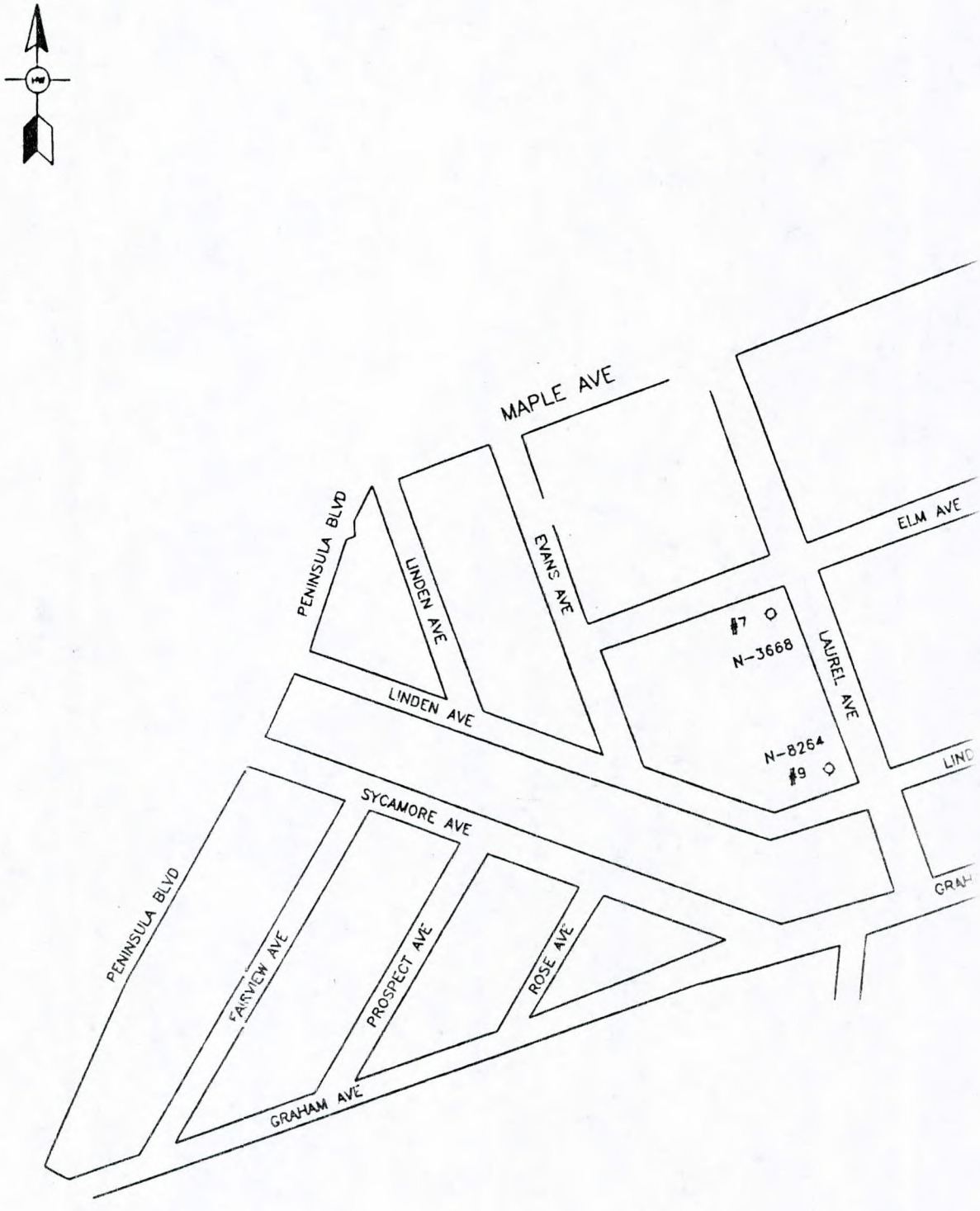
DEPARTMENT OF PUBLIC WORKS
SANITATION & WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT

FIGURE 2
FRANKLIN CLEANERS
VILLAGE OF HEMPSTEAD, NEW YORK
N.Y.S SITE NO 130050
SITE PLAN



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			SCALE AS SHOWN	DWG NO XX	DRAWN BY J.ZIMMET	DAT 10/29
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NO.	REVISION DESCRIPTION	DATE				

this report, the building is vacant.

In March of 1990, the Nassau County Department of Health (NCDOH) investigated a complaint of tainted drinking water from a residential home located at 6 Linden Avenue, Hempstead, New York (see Fig. 2). The residence was found to have two private wells on site, a drinking water well and an irrigation well. This information is contained in a report entitled "Contamination Of Private Well Located At 6 Linden Avenue, Hempstead, N.Y.". Table 1 summarizes the water quality data from the private wells sampled as part of that report.

TABLE 1

VOLATILE ORGANIC ANALYSIS SUMMARY
6 LINDEN AVE., HEMPSTEAD, N.Y.

WELL #	IRRIGATION WELL	BATH TAP
TOTAL DEPTH	32 ft.	45 ft.
DATE	3/28/90	3/9/90
Compound		
cis-1,2-Dichloroethylene	U	2
Trichloroethene	U	4
Tetrachloroethene	29,000	5,500

NOTES:

U = Undetected

ALL RESULTS IN UG/L

LABORATORY: Nassau County Health Department
Environmental Health Laboratories

As a potential source of the contamination at 6 Linden Avenue, the Nassau County Department of Health inspected the premises of Franklin Cleaners and subsequently collected soil samples from the basement and backyard of the dry cleaners. The soil samples were analyzed by the NCDOH Organics laboratory, in Hempstead, N.Y. and showed significant levels of Tetrochloroethylene (PCE), an established product used in dry cleaning. Remedial efforts, such as the removal of contaminated soils, were not undertaken as part of the NCDH investigation. Table 2 summarizes the results from the soil sampling effort at the Franklin Cleaners property.

TABLE 2

SOIL SAMPLES – FRANKLIN CLEANERS SITE
VOLATILE ORGANIC ANALYSIS SUMMARY

SAMPLE #	Basement–1	Basement–2	Rear Alley – 1
TOTAL DEPTH	0" – 10"	0" – 10"	0" – 10"
DATE	4/24/90	4/24/90	4/24/90
Compound			
Tetrachloroethylene	9,400	U	650,000
Trichloroethylene	U	U	1,700
c–1,2–Dichloroethylene	U	U	680

NOTES:
U = Undetected
ALL RESULTS IN NG/G
LABORATORY: Nassau County Health Department
Environmental Health Laboratories

A comparison of contaminants found in the wells at 6 Linden Avenue with identical compounds detected in the soils at the Franklin Cleaners site initiated this investigation.

4.0 Scope of Work

4.1.0 Selection of Monitoring Well Locations

Groundwater monitoring wells were proposed in this investigation in order to qualify and quantify possible groundwater contamination in the area of the Franklin Cleaners site. Well selection was based on three factors; 1) Regional groundwater flow direction, as determined by existing groundwater monitoring wells, 2) Significant receptors in the area that could potentially be impacted and 3) Physical obstructions or barriers to drilling operations.

On April 18, 1992 NCDPW hydrogeologists gathered water level information from seven existing groundwater monitoring wells in the vicinity of the Franklin Cleaners site. The following table summarizes the water level information:

Table 3

WATER TABLE ELEVATIONS, NCDPW MONITORING WELLS
APRIL 18, 1992

WELL	MEASURING POINT ELEVATION	TOTAL DEPTH	DEPTH TO WATER	WATER TABLE ELEVATION
F-9	62.26	34.65	21.12	41.14
F-10A	52.84	51.30	19.76	33.08
X-28	43.77	32.70	19.70	24.07
F-11A	46.73	49.90	18.98	27.75
X-25	57.70	46.05	28.05	29.65
G-14A	69.83	45.20	23.55	46.28
G-15B	55.18	47.00	14.98	40.20

This information was used to construct a groundwater flow map for the area of concern. Groundwater flow was determined to be in a south - southwest direction as indicated in Figure 3. A site walkthrough was performed in order to evaluate existing field conditions that could potentially interfere with drilling operations. Above and below ground utilities (gas, electric, water, etc.) were considered along with other physical obstructions. Additionally, a review of significant receptors in the area was undertaken in order to optimize the proposed location of the groundwater monitoring wells to be installed. Two (2) public supply wells, N-3668 and N-8264, were identified as significant receptors approximately 700 feet west - southwest of the site.

Four locations were chosen as a result of these criteria (see Figure 4). FC-1 was selected as an upgradient location to be used to evaluate the quality of groundwater entering the area of concern. FC-2 was located 175 feet downgradient of the suspected source in order to evaluate water quality between Franklin Cleaners and the contaminated private wells at 6 Linden Street. FC-4, located 600 feet downgradient of the Cleaners was used to evaluate groundwater quality downgradient of the private wells. FC-3 was located on the west side of Linden Street in order to evaluate any potential contamination moving in the direction of the two public supply wells located on Laurel Avenue.

Source: U.S.G.S. Lynbrook–Freeport Quadrangles (1969)

X–25 – NCDPW Monitoring Well #

◆

29.65 – Water Table Elevation

Scale: 1 : 24000

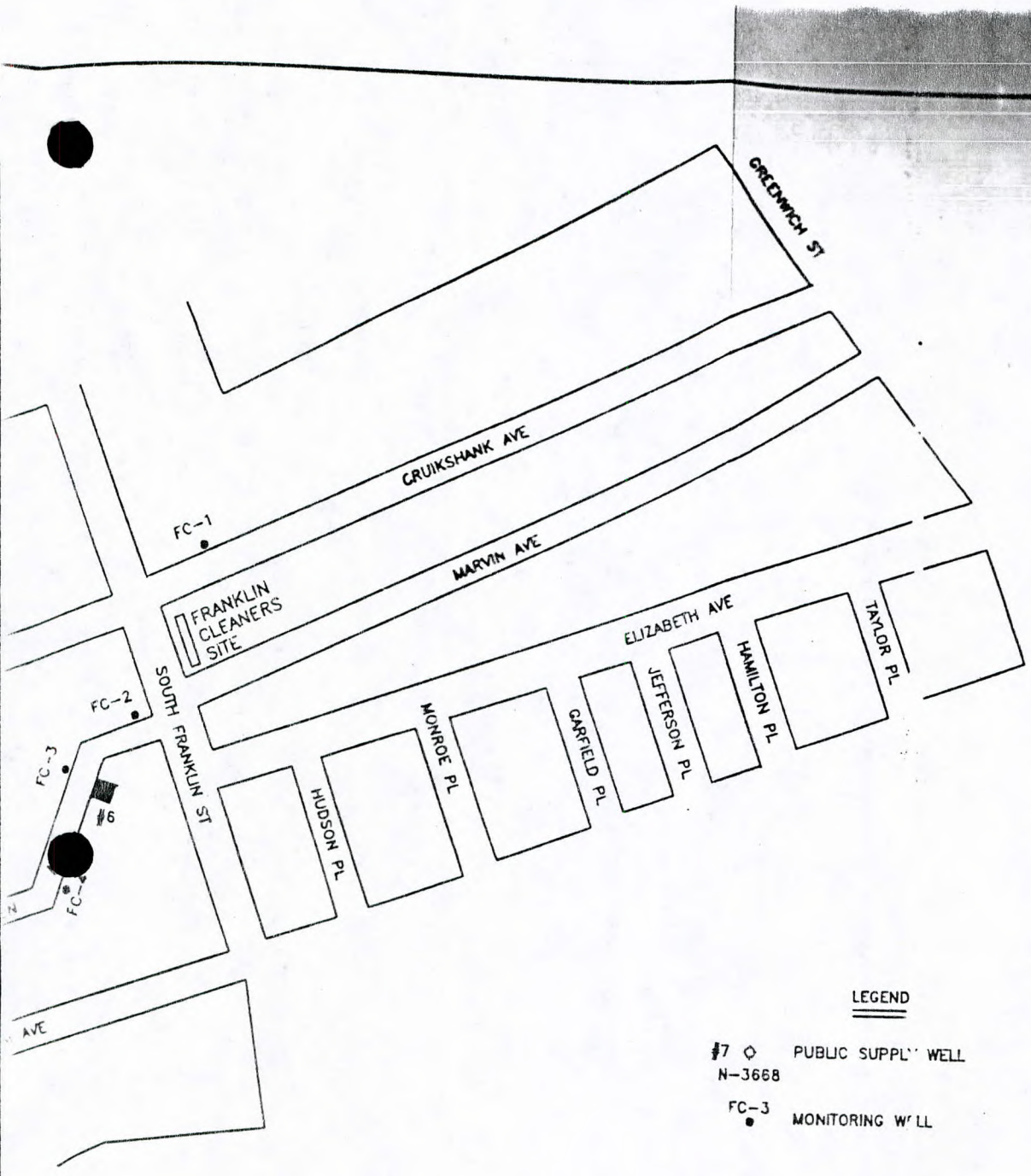
Site Location:

Lat. – 40° 41' 55"

Long. – 73° 37' 23"

WATER TABLE ELEVATION
April 18, 1992

Figure 3



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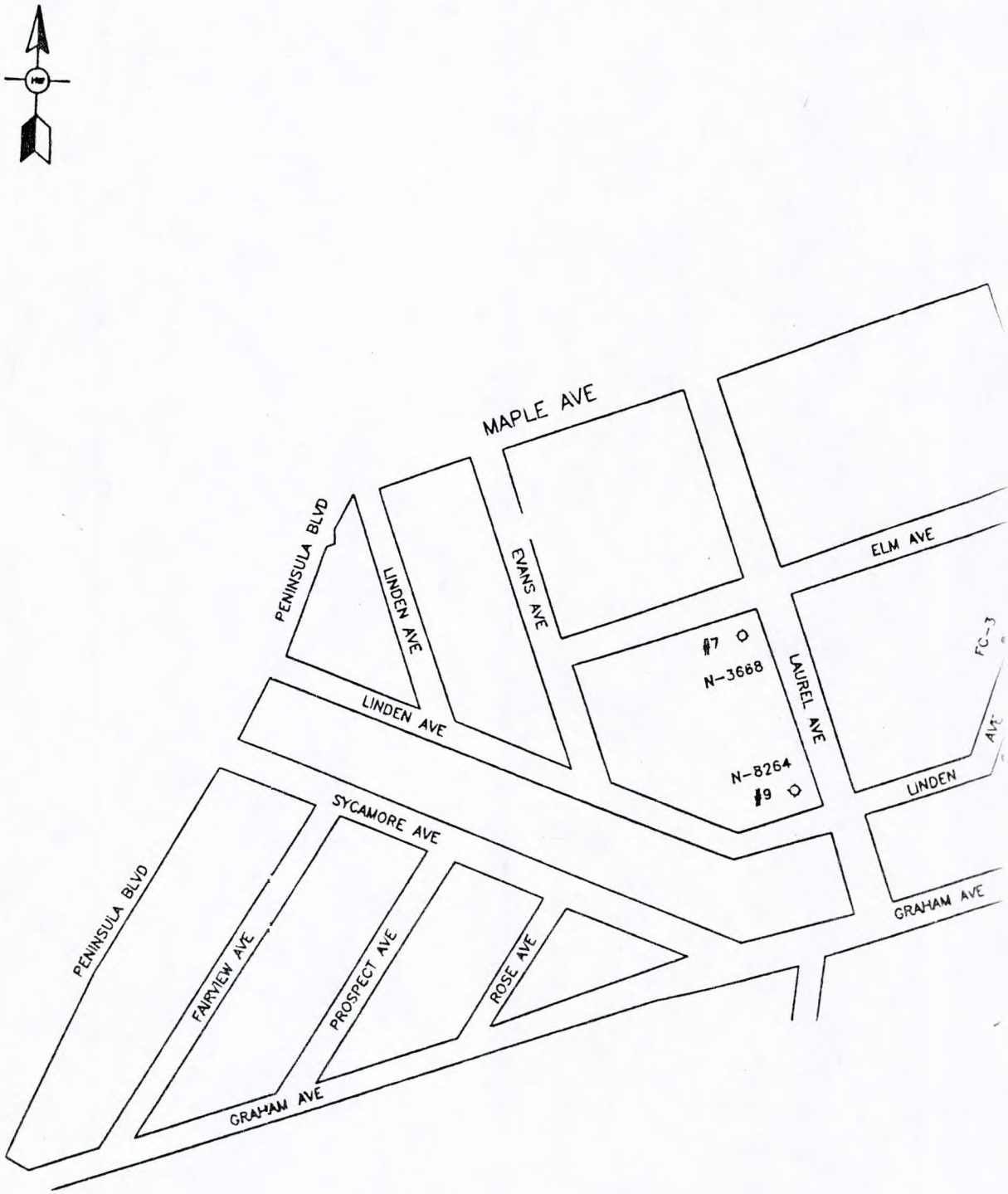
HAZARDOUS WASTE SERVICES UNIT

FIGURE 4
FRANKLIN CLEANERS
VILLAGE OF HEMPSTEAD, NEW YORK
N.Y.S. SITE ID 130050
MONITORING WELL LOCATIONS



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NO.	REVISION DESCRIPTION	DATE				

4.1.1 Groundwater Monitoring Well Installation

Four groundwater monitoring wells were installed as part of this investigation between November 12 and November 23, 1992. Larry E. Tyree, Inc., Farmingdale, N.Y., under an existing contract with Nassau County Department of Public Works (NCDPW) was employed as the driller. A CME-75 drill rig was used to advance 12 inch outside diameter hollow stem augers to the desired depth. Groundwater monitoring wells were constructed using 4 inch, flush thread, schedule 40 polyvinyl chloride (PVC) casing with 4 inch, 0.020 slot, PVC well screens. Table 4 summarizes monitoring well construction. The annular space between the well screen and borehole was filled with a No. 2 morie gravel to at least 3 feet above the top of the well screen. A bentonite pellet seal with a minimum thickness of 1 foot was installed above the gravel pack and the remaining annular space was sealed with a bentonite cement grout. A locking valve box and cover was installed at grade. A typical well construction diagram is presented in Fig. 5.

TABLE 4

Franklin Cleaners Site, Hempstead, N.Y.
Groundwater Monitoring Well Construction Details

Well #	Date Of Installation	Method Of Installation	Measuring Pt. Elevation	Screen Setting (El.)	Total Depth
FC-1	11/13/92	Auger	53.55	33.55 to 13.55	40 ft.
FC-2	11/23/92	Auger	53.18	36.18 to 16.18	37 ft.
FC-3	11/13/92	Auger	52.64	35.64 to 15.64	37 ft.
FC-4	11/13/92	Auger	53.80	36.80 to 16.80	37 ft.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION & WATER SUPPLY
NASSAU COUNTY, NEW YORK

FRANKLIN CLEANERS SITE

UPPER GLACIAL MONITORING WELL

CONSTUCTION DETAIL (TYPICAL)

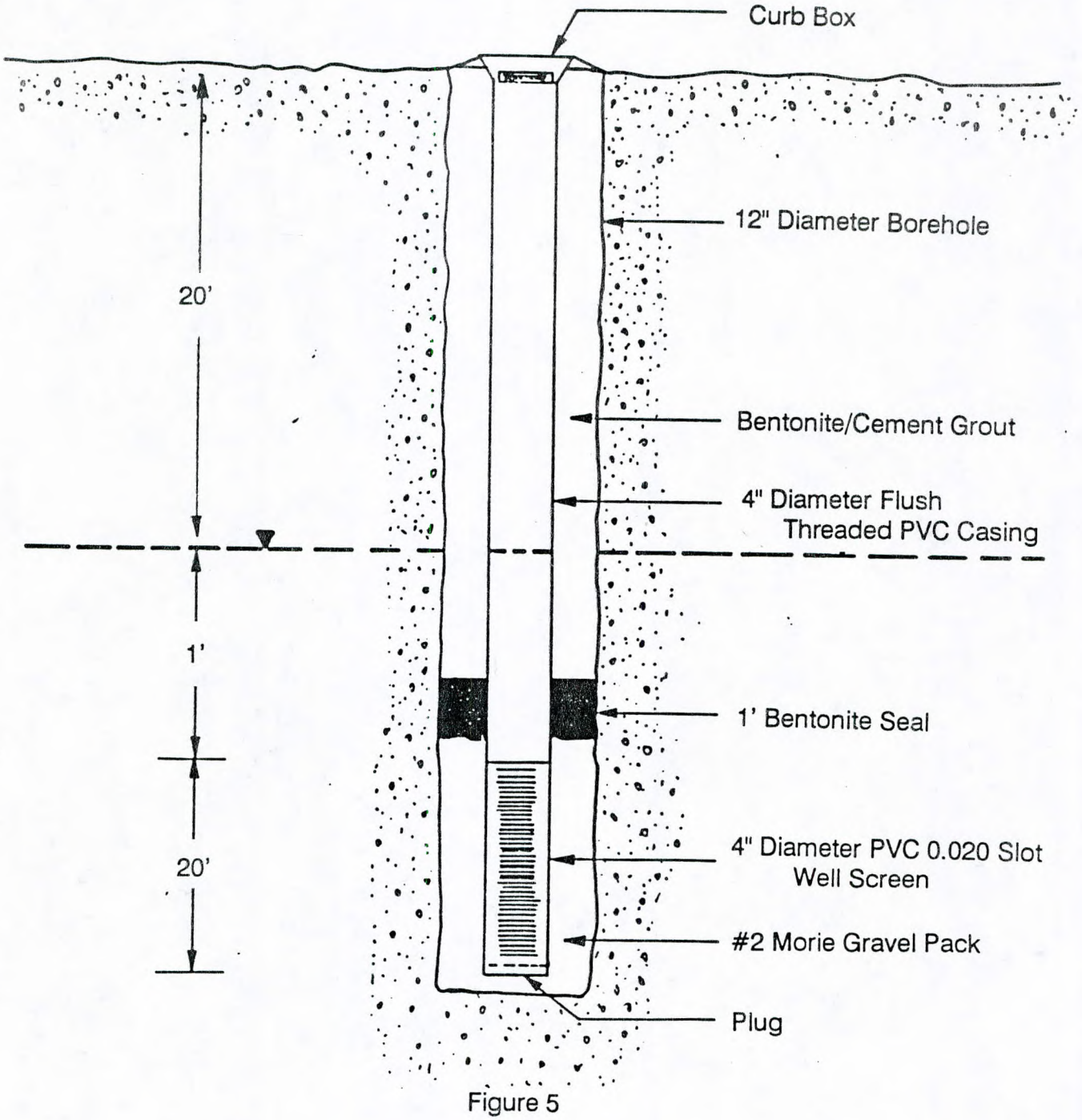


Figure 5

All of the wells installed during this investigation were developed using the over pumping method. Wells were developed with a Grundfos model 25S submersible pump for at least 1 hour or until the nephelometric turbidity units (NTU's) were below 50. Specific pumping rates and total development time are presented with the well logs in Appendix A, accompanying this report.

4.1.2. Groundwater Sampling

After development, wells were allowed to stand at least 2 weeks in order to permit stabilization of the formation with the gravel pack prior to sampling. The wells were sampled on December 30, 1992 for the full target compound list (TCL). Prior to sampling, each well was purged of a minimum of three borehole volumes of water using a decontaminated Grundfos Redi-flo II submersible pump. To assure that water was entering the well from the surrounding formation, temperature, specific conductivity, and pH were monitored using a YSI Model 3500 water quality meter until stabilization. Turbidity was also monitored during sampling in order to assure a sample of less than 50 NTU's. Table 5 summarizes the parameters observed during pumping.

Once the parameters had stabilized, sampling could take place. Samples were obtained using a decontaminated stainless steel bottom load bailer lowered into the well using dedicated nylon cord. The samples were transferred to labeled laboratory bottles and immediately packed into

coolers with ice. The appropriate chain of custody and laboratory forms were forwarded with the samples to NYTEST Laboratories, Port Washington, New York.

Table 5

GROUND WATER SAMPLING SUMMARY

DATE	WELL NO.	VOL. PURGED (gallons)	TEMP. (oC)	pH	Sp.COND. milli-mhos/cm
12/30/92	FC-1	365	15.7	6.09	.214
12/30/92	FC-2	100	16.8	5.93	.253
12/30/92	FC-3	175	15.3	5.96	.497
12/30/92	FC-4	125	16.3	5.88	.302

4.1.3. SOIL SAMPLING

During drilling activities, split core barrel (split spoon) soil samples were collected at 5 foot intervals from grade to the water table. The split spoon was driven ahead of the lead auger into undisturbed formation with the CME's auto hammer. Samples were then retrieved and logged by NCDPW hydrogeologists for color, grain size, sorting, mineral content, compactness and matrix. Blow counts were collected and are included with the well logs in the supporting documentation section of this report. Each split spoon was decontaminated with steam prior to the installation of each borehole in order to minimize the potential for cross contamination. Additionally, spoons were washed with alconox and a potable water rinse prior to each sample. All samples

were placed in labeled jars with sealed covers and allowed to volatize for 1/2 hour. Head space analysis was performed using an HNU photoionization detector with an 11.7 eV probe.

5.0 SITE ASSESSMENT

5.1.0 Site Geology

Long Island is composed of consolidated rock overlain by loose unconsolidated sediments. The pre-Cambrian bedrock slopes to the southeast and is overlain by upper Cretaceous and Pleistocene sands, gravels and clays.

Three major aquifers make up most of Long Islands water supply. The Lloyd sand member of the Raritan formation is the deepest, resting directly on the bedrock. The clay member of the Raritan formation separates it from the Magothy formation, a thick expanse of alternating beds of fine sands, clays, silts and some coarse beds of sand and gravel. The Upper Glacial aquifer consists of a wide variety of fluvio-glacial deposits including beds of fine to coarse stratified sand and gravel, boulder clays or tills consisting of unstratified mixtures of clay and boulders and some fresh water lake deposits composed of silt and clay. The outwash deposits in Nassau County are frequently low in rock and mineral particles and consist mainly of yellow stained and clear quartz.

The site is underlain by glacial sands and gravels of Pleistocene age typical of a glacial outwash plain. A review of lithologic well logs obtained during drilling operations reveals stratified tan-brown-orange, fine to coarse grained, subangular to subround, quartz sand and gravel.

5.1.1. Water Level Measurements and Site Hydrogeology

A synoptic round of water levels were taken on December 12, 1992. These measurements were converted to elevations (Table 6) and used to prepare the water table configuration map shown in Figure 6. The map shows a general north-northeast to south-southwest flow direction which is consistent with regional flow for the study area. A horizontal gradient of 0.0019 feet per foot was calculated across the site. A vertical gradient was not determined as part of this assessment.

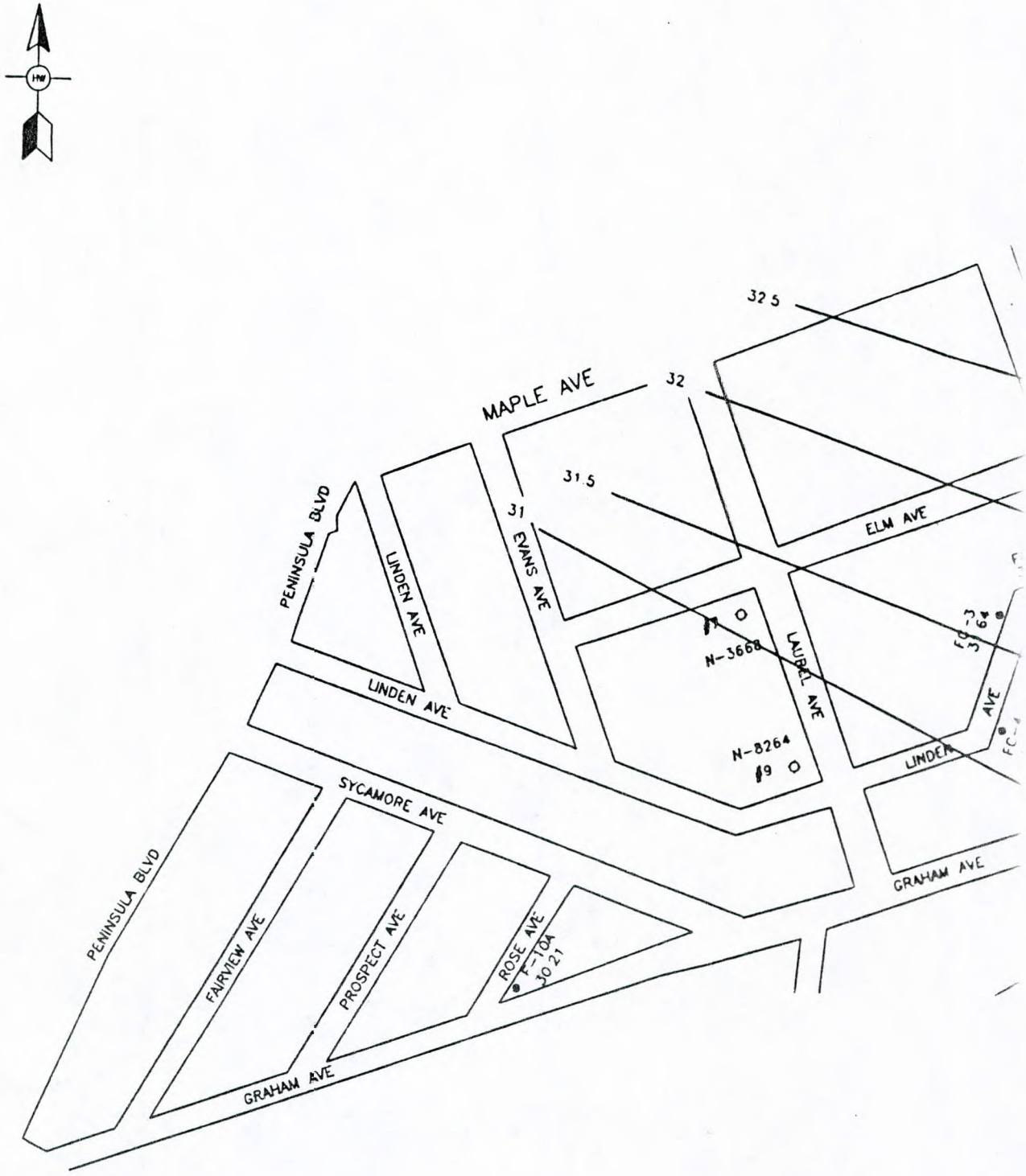
Table 6

Franklin Cleaners Site, Hempstead, N.Y.
Water Table Elevations – 12/2/92

MONITORING WELL	M.P. ELEV.	D.T.W.	W.T. ELEV.	TIME OF MEASUREMENT
FC-1	53.55	20.95	32.60	1339
FC-2	53.18	21.33	31.85	1348
FC-3	52.64	21.00	31.64	1356
FC-4	53.80	22.63	31.17	1400

5.2.0. Soil Sample Results

Soil samples were screened in the field for the presence of organic vapors using an HNU photoionization detector. After collection, the soils were logged by NCDPW hydrogeologists and placed in a sealed, dedicated glass jar and allowed to volatize for at least 1/2 hour prior to screening with the HNU photoionization detector. None of the head space readings were above background and no visual



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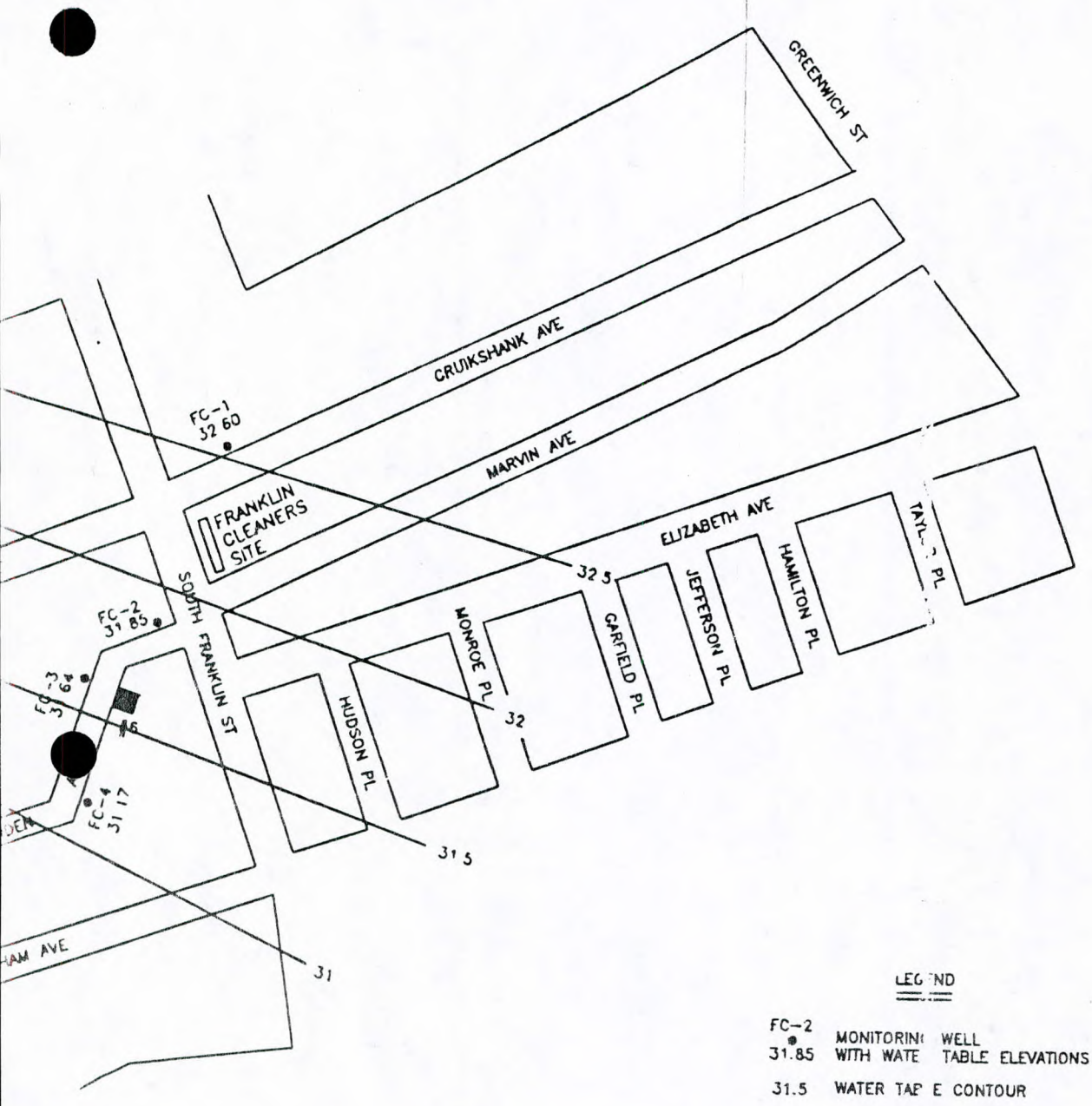
NO.	REVISION DESCRIPTION	DATE				



LEGEND

FC-2 ● 31.85 — MONITORING WELL WITH WATER TABLE ELEVATIONS

31.5 — WATER TABLE CONTOUR

#7 ◇ N-3868 — PUBLIC SUPPLY WELL

DISTANCE IN FEET

50 150 250 350

0 100 200 300 400

SCALE

NO.

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HAZARDOUS WASTE SERVICES UNIT

FIGURE 6
FRANKLIN CLEANERS
VILLAGE OF HEMPSTEAD, NEW YORK
N.Y.S. SITE NO 130050
WATER TABLE CONTOURS 12/2/92

evidence (ie. staining, odor , etc.) were observed while drilling, therefore, no laboratory analysis of soils was performed.

5.3.0. Groundwater Analysis

The groundwater sampling results obtained from the sampling effort can be evaluated by examining each group of analytes and the individual concentrations of those compounds found to be above detectable limits. Each of the compounds detected in groundwater beneath the site can then be compared to existing groundwater and drinking water standards. Laboratory report sheets are included in the supporting documentation accompanying this report.

The results of the analyses for each of the major groups of organic compounds found in the Target Compound List are as follows:

Semivolatile Organic Compounds:

Concentrations below detectable limits for all groundwater monitoring wells sampled.

Pesticides / PCB's:

Concentrations below detectable limits for all groundwater monitoring wells sampled.

Metals:

Inorganic analysis performed on groundwater samples from the site indicate that most compounds were below detectable limits. Table 7 summarizes the results from the analysis.

TABLE 7

INORGANIC ANALYSIS – FRANKLIN CLEANERS SITE WELLS

COMPOUND	monitoring wells				MCL or Class GA Standards/GV
	FC–1	FC–2	FC–3	FC–4	
Aluminum	U	90.4 (b)	U	U	NS
Antimony	U	U	U	U	3
Arsenic	U	U	U	U	25
Barium	25.8 (b)	46.4 (b)	80.8 (b)	58.5 (b)	1000
Beryllium	U	U	U	U	3
Cadmium	U	U	U	U	10
Calcium	24,100.0	24,300.0	49,500.0	29,000.0	NS
Chromium	U	U	U	U	50
Cobalt	U	U	U	U	NS
Copper	U	U	U	U	200
Iron	U	68.8 (b)	U	U	300
Lead	U	U	U	U	25
Magnesiuim	2,870.0 (b)	3,080.0 (b)	11,200.0	4,080.0 (b)	35000
Manganese	13.2 (b)	11.9 (b)	1.3 (b)	4.9 (b)	300
Mercury	U	U	U	U	2
Nickel	U	U	U	U	NS
Potassium	2,310.0 (b)	2,580.0 (b)	3,250.0 (b)	2,480.0 (b)	NS
Selenium	U	U	U	U	10
Silver	U	U	U	U	50
Sodium	19,600.0	24,400.0	60,900.0	30,000.0	20000
Thallium	U	U	U	U	4
Vanadium	U	U	U	U	NS
Zinc	18.6 (b)	U	10.2 (b)	U	300
Cyanide	U	U	U	U	100

Notes:

Laboratory – NYTEST, Inc.

U – Below Detection Limit

(b) – Identified in Method Blank

NS – No Standard

GV – Guidance Value

All Results in UG/L

Barium, calcium, magnesium, manganese, potassium and sodium were identified in all four groundwater monitoring wells. Additionally, aluminum and iron were detected in well FC-2 and zinc was detected in wells FC-

1 and FC-3. It is worthy to note that all of these compounds, with the exception of calcium and sodium, were detected in the method blanks. No published standards exist for calcium. However, in wells FC-2, 3 and 4, sodium concentrations did exceed the 20 mg/l standard recommended for individuals on severely restricted sodium diets.

Volatile Organic Compounds:

Volatile organic compounds (VOC's) were identified in all of the wells sampled during this investigation, however, only well FC-2 exhibited levels of VOC's above the method detection limit. Well FC-2 contained a total of 88 ppb of VOC's consisting of tetrachloroethylene (83 ppb) and methylene chloride (5 pbb). Methylene chloride, a common laboratory contaminant, was also detected in wells FC-1, FC-3 and FC-4 at 1 ppb, 1 ppb, and 2 ppb, respectively. Additionally, methylene chloride was identified in the trip blank at 3 ppb. It is important to note that the detection limit for methylene chloride is 10 ppb therefore all concentrations are given as estimates since it was identified below method detection limits. Acetone, another common laboratory contaminant, was identified below detectable limits in well FC-4 at an estimated 6 ppb.

5.3.1 Groundwater Quality

The concentrations of VOC's detected in well FC-2 were compared with the maximum contaminant levels (MCL's) established for drinking water in New York State (10NYCRR, Subpart 5.1), the class GA groundwater standards (NYCRR 703.5) and guidance values (NYSDEC-TOGS 1.1.1.). The total VOC level in well FC-2 was below the MCL of 100 ppb, established for the total of the listed principle organic and unspecified organic contaminants. However, tetrachloroethylene, exceeded both the individual principle organic contaminant level of 5 ppb set for that compound and the class GA standard, also set at 5 ppb.

Methylene chloride did not exceed the MCL or class GA standard of 5 ppb in any of the wells where it was identified. Methylene chloride, identified at very low levels, is a common laboratory contaminant, present in virtually every laboratory atmosphere, it is likely that it was in the distilled water provided by the laboratory since it was detected in the laboratory's trip blank.

Acetone was identified in well FC-4 at an estimated 6 ppb. Again, the detection limit for acetone is 10 ppb therefore, the value given represents only an estimated concentration. Acetone does not exceed the MCL of 50 ppb for individual unspecified organic contaminants. No class GA standards have been established for acetone.

6.0 CONCLUSIONS

Following a review of past Nassau County Department of Health soil sampling data and the analytical results from the past sampling of a private homeowner's well, four water table monitoring wells were installed for the Franklin Cleaners Preliminary Site Assessment (PSA), one upgradient of the site and three downgradient.

Monitoring well FC-2, downgradient of the Franklin Cleaners site and upgradient of the private homeowner's well, was the only PSA well to identify groundwater contamination. The level of contamination identified at FC-2 is very low in comparison to the source area soils contamination (>650,000 ppb PCE) and the groundwater contamination at the private homeowner's wells (>29,000 ppb PCE).

Several factors may account for the lower than expected concentration in FC-2. One possibility is that the groundwater contamination plume emanating from the Franklin Cleaners site is a very narrow plume, and well FC-2 is located on the less concentrated side, rather than in the heart of the plume. Another possibility is that the well screens at FC-2 and the private well may be at slightly different depths, such that FC-2 may not be intercepting the most contaminated segment of the contaminant plume.

Although FC-2 shows much less contamination than the private well farther downgradient, the 83 ppb of PCE is still well above groundwater standards (5 ppb). Therefore, considering that there are no other potential sources nearby,

the upgradient monitoring well is clean, PCE is the primary cleaning agent used by dry cleaners, and there is well documented on-site soil contamination, it is evident that the Franklin Cleaners site is the source of the local groundwater contamination.

7.0 RECOMMENDATIONS

Based upon the findings of the Franklin Cleaners Preliminary Site Assessment, 83 ppb of PCE was identified in a monitoring well installed immediately downgradient of the site. Although the 83 ppb of PCE identified is low in comparison to the very high levels identified in the soils on-site and a private homeowner's well farther downgradient, it still is well above the 5 ppb groundwater standard for PCE. It is recommended that the Franklin Cleaners site be classified as a Class 2 site, in that it poses a significant threat to the environment and to public health.

It is also recommended that prior to the installation of additional monitoring wells during future Remedial Investigation work, that another sampling round of the PSA monitoring wells and, if possible, the private homeowner's well be completed to better understand past inconsistencies with the level of contamination in various wells.

Lastly, being that extremely high levels of PCE (>650,000 ppb) were detected in past studies by the Nassau County Department of Health, in the basement and adjacent alley to the Franklin Cleaners site, it is recommended that an Interim Remedial Measure be implemented to remove the contaminated soil.

8.0 References

Chapter I State Sanitary Code, Part 5, Drinking Water Supplies (Statutory Authority: Public Health Law 225) Subpart 5-1, Public Water Supplies, March 11, 1992.

De Laguna, W., Perlmutter, N.M. and Suter, R., 1949, Mapping of Geologic Formations and Aquifers of Long Island, New York New York State Groundwater Bulletin GW-18.

Nassau County Department of Health Report, 1990, Contamination of Private Well Located at 6 Linden Avenue, Hempstead, N.Y.

New York State Deparment of Environmental Conservation Technical & Operational Guidance Series (1.1.1.) Ambient Water Quality Standards and Guidance Values November 15, 1991

Water Quality Regulations for Surface Waters and Groundwaters, 6NYCRR Parts 700-705 Effective September 1, 1991.

APPENDIX A

Well Logs

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-1
LOCATION: North side of Cruikshank Ave. 200 ft. East of S. Franklin St.
M.P. ELEVATION: 53.55
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 12, 1992
DRILLING ENDED: November 12, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 40 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 20 '
SCREEN SET.(FT.) 20'-40'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WT
12/02/92	20.95	32

DEVELOPMENT
Overpumping for 1 h
at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOW
0			0-2' Brown-black topsoil				
		GM	2-7' Black-brown, fine, silty quartz sand with trace gravel.	1	16"	5-7'	28/2f
10		SW	7-12' Orange-brown, medium to coarse, subangular to subround quartz sand with granules.	2	18"	10-12	25/2f
		SP	12-20' Tan-brown, fine to coarse, subangular to subround, well sorted quartz sand with trace gravel, some dark minerals.	3	16"	15-17	24/2f
20		SW	20-25' Orange-brown, fine to coarse, moderately sorted quartz sand with some granules.	4	16"	20-22	36/2f
			Sample saturated at 25 ft.	5	18"	25-27	21/2ft
30		SP	25-42' Tan-brown, fine to medium, some coarse, well sorted quartz sand, trace granules.	6	18"	30-32	28/2ft

WELL NO. FC-1

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
40		SP	25-42' Tan-brown, fine to medium, some coarse, well sorted quartz sand, trace granules.	7	12"	35-37	39/2ft
				8	12"	40-42	50/2ft.
	TD= 42 ft.						
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: S. Urban
WELL NO.: FC-2
LOCATION: Northwest corner of Linden Ave & South Franklin St.
M.P. ELEVATION: 53.18
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 23, 1992
DRILLING ENDED: November 23, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 37 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	21.33	31.85

DEVELOPMENT

Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-3' Brown-tan, clayey sand-fill.				
		SW	3-10' Tan, fine to medium, poorly sorted quartz sand with fine to coarse gravel (30%) in a clean matrix.	1	10"	5-7'	37/2ft
10				2	14"	10-12	20/2ft
		SW	10-21' Tan-orange, fine to medium grained, moderately sorted quartz sand with medium gravel (10%) in a clean matrix.	3	15"	15-17	38/2ft
20				4	16"	20-22	31/2ft
		SW	21-37' Tan-orange, fine to coarse, poorly sorted quartz sand wit some fine gravel, clean matrix.	5	24"	25-27	28/2ft
30				6	24"	30-32	20/2ft

WELL NO. FC-2

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	SAMPLE REC.	SAMPLE DEPTH	SAMPLE BLOWS
				7	24"	35-37	25/2ft
			TD = 37 ft.				
40							
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-3
LOCATION: West side of Linden Ave. 200 ft. West of S. Franklin St.
M.P. ELEVATION: 52.64
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 13, 1992
DRILLING ENDED: November 13, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 37 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	21.00	31.6

DEVELOPMENT
Overpumping for 1 hou at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-1' Black topsoil				
		GM	1-5' Brown, fine to medium, silty quartz sand, some gravel.				
				1	10"	5-7'	28/2ft
10				2	10"	10-12	14/2ft
		SW	5-25' Tan-brown, fine to coarse, subangular to subround, moderately to poorly sorted, micaceous quartz sand with granules and pebbles.	3	16"	15-17	30/2ft
20				4	16"	20-22	24/2ft
			Spoon wet at 22 ft.				
				5	24"	25-27	28/2ft
30		SW	25-37' Orange-brown, fine to coarse, subround to subangular, moderately sorted, micaceous quartz sand increasingly fine with depth. Some dark minerals present.	6	24"	30-32	31/2ft

WELL NO. FC-3

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
		SW		7	24"	35-37	37/2ft
	TD=37 ft.						
40							
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-4
LOCATION: East side of Linden Ave. 200 ft. East of Laurel Ave.
M.P. ELEVATION: 53.80
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 13, 1992
DRILLING ENDED: November 13, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 38 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Flyte
HAMMER NA LB.
FALL: NA IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	22.63	31.17

DEVELOPMENT
Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	SAMPLE REC.	SAMPLE DEPTH	SAMPLE BLOWS
0			0-1' Black topsoil				
		SW	1-10' Brown, fine to coarse, subangular to subround quartz sand, trace gravel. Note: Gravel not coming up flytes.				
10			10-38' Orange-brown, fine to medium, subround to subangular quartz sand, trace gravel, no odor.				
20		SW					
30			Orange-brown, fine to medium, subround to subangular quartz sand, trace gravel, no odor.				

WELL NO. FC-4

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	SAMPLE REC.	SAMPLE DEPTH	SAMPLE BLOWS
		SW					
	TD=38 ft.						
40							
50							
60							
70							
80							

ENGINEERING INVESTIGATIONS AT

INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

FRANKLIN CLEANERS SITE
TOWN OF HEMPSTEAD

SITE NO. 130050
NASSAU COUNTY

DATE: MARCH 1993
Volume II – Supporting Documentation

Prepared for:

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, Commissioner

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

BY:

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
Division of Sanitation and Water Supply
Hazardous Waste Services Unit

Engineering Investigations at Inactive Hazardous Waste Sites
Preliminary Site Assessment
Franklin Cleaners Site Site No. 130050
Volume II - Supporting Documentation

Table of Contents

A. Contamination of Private Well Located At 6 Linden Ave., Hempstead, N.Y., July 1990, Nassau County Department of Health

B. Franklin Cleaners Site Well Logs

C. NYTEST Environmental Inc., Laboratory Report Sheets

Contamination of Private Well Located At 6 Linden Ave., Hempstead, N.Y., July 1990, Nassau County Department of Health

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COUNTY EXECUTIVE

NASSAU COUNTY
DEPARTMENT OF HEALTH
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Contamination of Private Well Located at 6 Linden Ave, Hempstead, N.Y.

July 10, 1990

Prepared by Bureau of Public Water Supply
Donald Myott, P.E., Deputy Director,
Mostafa El Sehamy, Hydrologist
James Rhodes, Public Health Sanitarian,
Bureau of Land Resource Management
Joseph Schechter, Chief, Office of Groundwater Protection

A. Background

On March 9, 1990, the Nassau County Department of Health (NCDH) collected water samples from the private well used for drinking at the residence at 6 Linden Ave., Hempstead, New York (See Figure 1 for location.). The sample was analyzed and found to contain tetrachloroethylene (5,500 ug/l), trichloroethylene(4 ug/l),and C-1,2-Dichloroethylene(2 ug/l). On March 28,1990, NCDH collected a water sample from an irrigation well on site. The sample was analyzed and found to contain tetrachloroethylene(29,000 ug/l). The laboratory reports for these two samples are contained in Appendix A. NCDH advised the owner of the private well not to drink the water from the well and to connect to the public water supply system (Village of Hempstead). A survey of the area by NCDH determined that a dry cleaner, Franklin Cleaners, was located approximately 300 feet hydraulically upgradient of the site. The owner of the Franklin Cleaners

stated that several spills or leaks from the machines on site had occurred. Two soil samples were obtained from the site of the dry cleaner. These samples were found to contain tetrachloroethylene (650,000 ng/g), trichloroethylene (1,700 ng/g), and C-1,2 dichloroethylene (680 ng/g). Sample results can be found in Appendix B.

Table 1 summarizes the water quality data for the supply wells and monitoring wells in the vicinity of study area. Two Village of Hempstead public supply wells (3688, 8264) are approximately 700 feet downgradient from the site and are screened at depths ranging from 500 to 510 feet. Routine analyses of these wells for VOCS have not detected volatile organic compounds(VOCs).

B. Collection and Review of Background Information

1. Area Description

The area identified in this Village of Hempstead study area is bounded by Front Street on the north, Hempstead Golf Club on the west, Grant Street on the south, and Greenwich Street on the east. (See Figure 1). Information on the current industrial profile of this area indicates that it contains an assortment of industrial and commercial categories of facilities. A more detailed discussion of the types of facilities present is contained in the industrial chemical survey section of this report.

2. Landfills

There are no active or abandoned municipal or private landfills in this area. The nearest active landfill to the area is located in the northeast corner of the Hempstead Lake State Park approximately one quarter mile west of the Village of

Hempstead supply wells. This minor solid waste landfill receives wood material, leaves and agricultural wastes. It is routinely inspected by NCDH personnel and was found to be in satisfactory condition as of May 30, 1990.

3. State Permitted Facilities

There are no facilities that have State Pollutiuon Discharge Elimination System (SPDES) permits from the New York State Department of Environmental Conservation (NYSDEC) for discharge of industrial wastes.

There are no industries in this area that are permitted by the NYSDEC as hazardous waste treatment, storage and disposal facilities.

4. State and Federal Hazardous Waste Sites

There is one state hazardous waste site (superfund site) located in this area:

Harder Tree Services, 63 Jerusalem Avenue, Hempstead - Since 1945, the company used a number of pesticides including methoxychlor, chlordane, DDT, and Dursban on this site. In November 1984 several hundred gallons of methoxychlor were spilled on site. Most of the spilled material was collected. In January 1985, samples from the site drywells indicated contamination of the soil with methoxychlor and chlordane. A NYSDEC Order of Consent was issued in February 1986 for an investigation and cleanup of soil and groundwater contamination. The remedial investigation began in October 1986. NYSDEC is negotiating an Order of Consent for additional work.

5. Nassau County Toxic and Hazardous Materials Permitted Facilities

The following 14 industrial facilities in the study area are permitted by the NCDH for the storage, handling and control of toxic and hazardous materials:

PMP Equipment, 65 Chasner Street

Hempstead Golf and Country Club, 60 Front Street

Hempstead Park Nursing Home, 800 Front Street

General Refining (GRC) Corp., 106 Taft Avenue

Bouges Color Co., 99 Sewell Street

Berkley Professional Photolab, 130 Front Street

Hempstead General Hospital, Front Street

Global Equipment, 63 Jerusalem Drive

Harder Services, 63 Jerusalem Avenue

Hempstead Plating, 546 Peninsula Blvd.

Husslein Plating, 48 Sewell Street

Greenwich French Cleaners, 273A Greenwich Street

Baldwin Cleaners, 151 Baldwin Street

Mayfair Nursing Home, 100 Baldwin Road

More specific information concerning the types of chemicals used and stored by these facilities is included in a computerized printout in Appendix C.

6. History of Petroleum and Chemical Spills

There has been one reported spill of organic chemicals filed with the NCDH in the area:

Berkley Professional Processing, 130 Front Street, Hempstead - The facility is a film processing and developing company. On August 1988, NCDH representatives discovered an illegal discharge of wastewater containing phenols to two drywells in the basement of the facility. The facility agreed to a voluntary cleanup and as of December 1989 completed the work in a manner satisfactory to the NCDH. The case is closed.

7. Industrial Chemical Survey

In an effort to determine any possible sources of groundwater contamination other than those indicated above, a review of the NCDH'S computerized industrial chemical survey file was performed for the study area. Each survey includes information on the types of business, number of employees, sources of water supply, sewage disposal, annual chemical usage, annual chemical waste generation and waste disposal practices. This information is based on NCDH records and interviews.

Twenty-nine facilities were determined to fall within the study area. A copy of the computerized printout listing these facilities and their chemical usage is included in Appendix C. None of these facilities use tetrachloroethylene, the chemical of concern.

A site survey of the study area was conducted in an attempt to determine any other sources of groundwater contamination. The survey revealed two additional sources within 300 feet of the contaminated private well. One possible source was revealed in interviews with the owners of the contaminated well. They reported that a neighbor located at 217 South Franklin Street was seen dumping wastewater out his rear door about twenty years ago. The neighbor operated a tailoring business out of his residence and may have operated dry cleaning equipment. The owner of the property was contacted and agreed to allow a site inspection by the NCDH. The property was inspected utilizing a survey meter which only identified one area of suspected contamination. A sample of the soil in this area was collected for organic chemical analysis. The results of this analysis indicated no volatile halogenated or nonhalogenated hydrocarbons present above detection limits. A copy of the results of this analysis is attached. (see Appendix D).

The second possible source of contamination was Franklin Cleaners located at 208 B South Franklin Street, Hempstead. This dry cleaning business was inspected on April 9, 1990 and determined to be operating without a permit from this NCDH for the storage and disposal of dry cleaning chemicals. An application for permit was provided to the facility. The application was received and was being processed as of May 1, 1990. A followup inspection on April 24, 1990 with a survey meter revealed several suspected areas of environmental contamination. Three soil samples were collected from within

and outside the facility for analysis. The results of these analyses indicated the soil in the basement of the building and in rear alley were highly contaminated with tetrachloroethylene. The facility was notified of these results in a NCDH letter of May 31, 1990 (Appendix B) and requested to perform an investigation to determine the extent of soil and groundwater contamination and to conduct a cleanup of contaminated areas.

8. Other NCDH Studies and Reports

This area has not been investigated in the past by the NCDH.

C. Hydrogeology

1. Regional

The subsurface geology underlying the area is composed of three major stratigraphic units. The Raritan formation, the magothy formation and the upper glacial sand and gravel deposit. The Raritan formation is divided into two members; the lower Lloyd sand and the upper Raritan clay. Above the Raritan clay is the Magothy Aquifer. The lower portion of the Magothy is the principal water supply aquifer for this portion of Nassau County. The Magothy is overlain by the upper glacial aquifer, a unit typically not used for water supply in this area due to contamination. The contaminated private wells are screened in this aquifer. A geologic cross section is presented in Figure 2.

2. Local

The USGS estimates the thickness of the upper glacial aquifer to be between 50 and 85 ft. in this area. The lithologic log for Well N3668 (566 ft.deep) describes sand, silt, and gravel for the first 85 ft.(Table 2). A significant clay layer and lignite exist between 85 and 132 ft. below the surface.

Smaller layers of clay are also described for this well, but are reported to be less than five feet thick. The extent of these clay layers or lens is unknown. The regional flow pattern of the glacial aquifer in the vicinity of the private well is toward the southwest. A map showing water level contours is provided in Figure 2. Additional data is needed at this site to more accurately determine groundwater flow.

According to USGS professional paper 1613-A, "Geology and Groundwater Conditions in southern Nassau and Southeastern Queens Counties Long Island, N.Y.", 1963, the average regional hydraulic conductivity of the upper glacial aquifer is approximately 270 feet per day (ft/d) in the vicinity of the site.

D. Conclusions

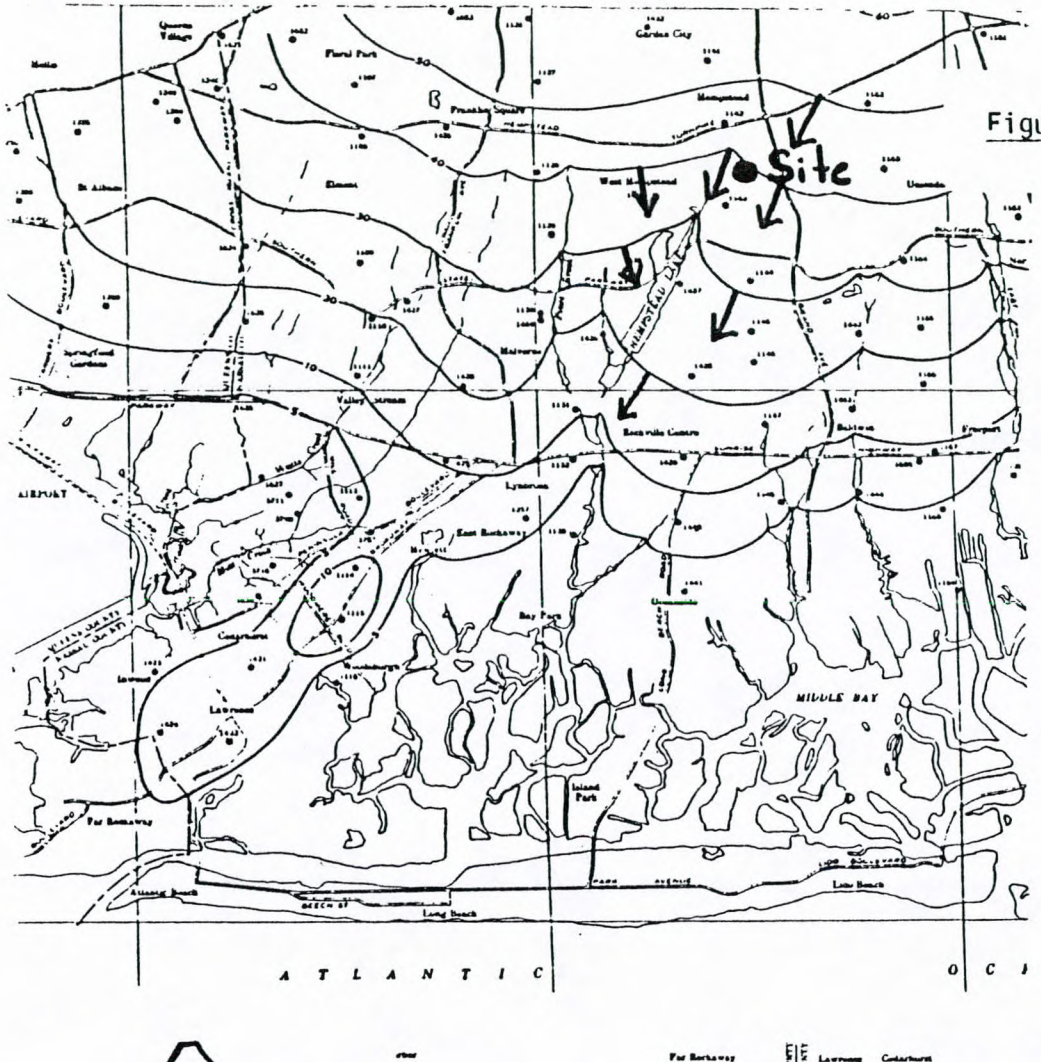
The analytical data and site survey suggests that the major source(s) of volatile organic contamination are from the upgradient direction, possibly from Franklin Cleaners.

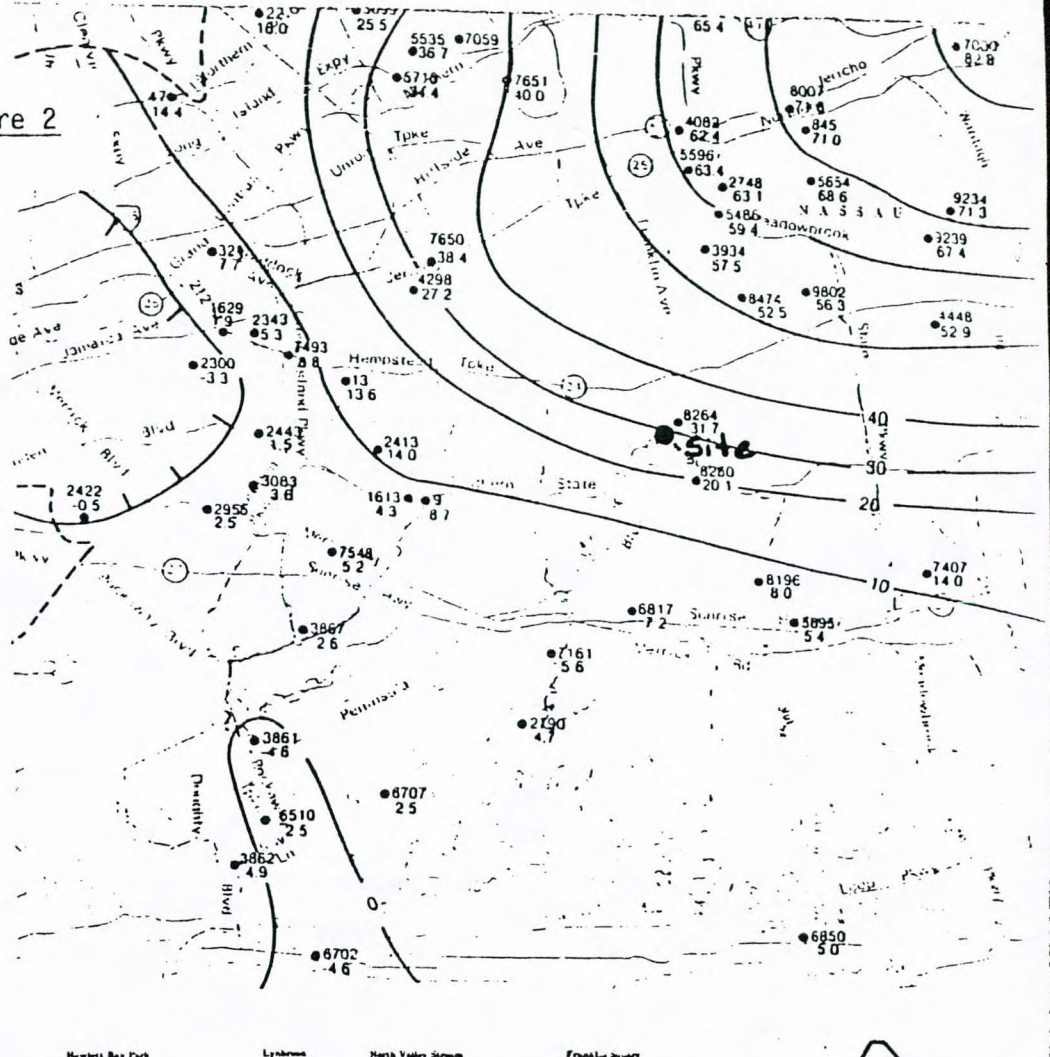
E. Recommendations:

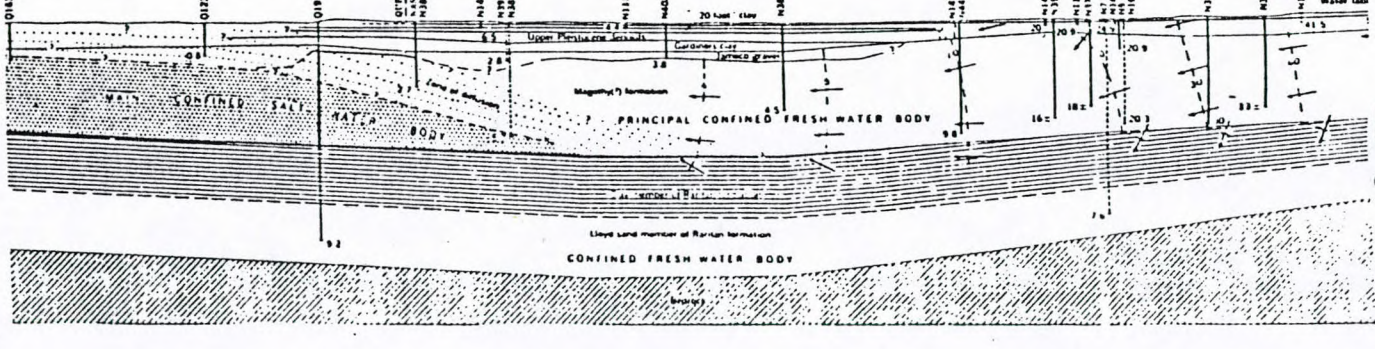
1. This information should be presented to NYSDEC for further action including possible remediation.
2. Available information should be presented to the Village of Hempstead so that they can develop a plan of action for the future use of the two public wells downgradient from the site.


Summary of PCE in Private Well/Public Supply Well Area (V) of Hempstead
-Monitoring Well
-Public Supply Well
-Private Well
-Franklin Cleaners
-None Detected
-<50 ug/l
-> 50 < 500 ug/l
-> 5,000 ug/l
Figure 1
8969
8855
8512 (AB)
8039
Franklin Cleaners
3668
8264
8830
Priv DK
Priv IRR
9648
Hempstead Golf Club
Greenfield Cemetery
Mercy Hospital
Molloy College
Hempstead Lake State Park

Figure 2







LEGEND

Groundwater Flow Direction In Site Area

— 20 —

Groundwater Elevation Contour

LEGEND

Potentiometric Surface of the Magothy Aqu

— 10 —

Line of Equal Potentiometric-Surface Altit

Table 1

Nassau County Department of Health

SUMMARY OF PCE AND TCE IN PRIVATE WELL/PUBLIC SUPPLY WELL AREA VILLAGE OF HEMPSTEAD

Well No.	NYSDEC No.	Depth	Tetrachloroethylene				Trichloroethylene			
			Most Recent Result		Maximum Value		Most Recent Result		Maximum Value	
			date	*detection*	*date*	*detection*	*date*	*detection*	*date*	*detection*
Hemp 7	3668	500 ft	11/30/89	ND	*	< .50 ug/l	11/30/89	ND	12/15/78	1.0 ug/l
Hemp 9	8264	510 ft	03/27/90	ND	12/27/89	1.0 ug/l	03/27/90	ND	12/14/78	1.0 ug/l
Mon. Well	8039	55 ft	05/26/82	ND	*	< 1.00 ug/l	05/26/82	ND	*	< 1.00 ug/l
Mon. Well	8512	52 ft	11/10/82	220 ug/l	08/05/81	273 ug/l	11/10/82	17 ug/l	11/10/82	17 ug/l
Mon. Well	8969	33 ft	09/23/81	ND	*	< 1.00 ug/l	09/23/81	ND	*	< 1.00 ug/l
Mon. Well	8855	32 ft	01/11/85	9.0 ug/l	01/30/79	35 ug/l	01/11/85	ND	02/01/82	2.0 ug/l
Mon. Well	8830	84 ft	07/19/84	31 ug/l	07/19/84	31 ug/l	07/19/84	9.0 ug/l	08/14/78	78 ug/l
DPW F-10A	9648	51 ft	01/30/90	ND	05/15/87	4.4 ug/l	01/30/90	ND	05/15/87	6.4 ug/l
Private Well	Drinking	45 ft	03/09/90	5,500 ug/l	03/09/90	5,500 ug/l	03/09/90	4 ug/l	03/09/90	4 ug/l
Private Well	Irrigation	32 ft	03/28/90	29,000 ug/l	03/28/90	29,000 ug/l	03/28/90	< 100 ug/l	*	< 100 ug/l

[*] All samples were undetected, no date needed.

Note: "ND" means none detected.

James P. Rhodes
June 10, 1990

N3668. (8C, 1.8N, 2.4W)

[Drilled by Layne-New York Co., Inc. Altitude about 58 ft. Screened between 449 and 499 ft. Discharge 1,265 gpm with drawdown of 28 ft after 8 hr of pumping. Driller's log]

	Thickness (feet)	Depth (feet)
Upper Pleistocene deposits:		
Sand, red and gravel	85	85
Magothy(?) formation:		
Clay, black, and lignite	47	132
Sand, fine, gray; streaks of clay	90	222
Clay, tough, gray	6	228
Magothy(?) formation—Continued		
Sand and gravel	12	240
Clay; few streaks of sand	31	271
Sand, fine, muddy	22	293
Clay, gray	12	305
Sand, hard	8	313
Clay, gray	3	316
Sand, fine, gray	22	338
Clay	4	342
Sand, fine, gray	25	367
Sand; streaks of clay	10	377
Sand, gray	27	404
Clay	2	406
Sand, fine, gray	109	515
Sand, hard-packed; clay	51	566

N3636. (8C, 2.6N, 2.2W)

[Drilled by C. W. Lauman and Co., Inc. Altitude about 50 ft. Screened between 329 and 355 ft. Discharge 500 gpm with drawdown of 51 ft after 2 hr of pumping. Driller's log based on examination of core samples]

	Thickness (feet)	Depth (feet)
Upper Pleistocene deposits:		
Fill	6	6
Marsh mud	3	9
Sand, medium to coarse, yellow; gravel	54	63
Magothy(?) formation:		
Sand, muddy, yellow	7	70
Clay, sandy, gray	135	205
Clay, hard, gray	22	227
Clay, sandy, soft, gray	19	246
Sand, muddy, fine, gray	35	281
Clay, sandy, soft, gray	49	330
Sand, muddy, medium to coarse, gray	26	356

Table 2 Boring logs in the vicinity of the area.

APPENDIX A

LABORATORY WORKSHEET

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

Center for Laboratories and Research

Nassau County Department of Health

1 ☐ Routine
2 ☐ Resample
3 ☒ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900432

Field No. JR4

PWS No. (Public Water Supply Only) Irrigation well

Source Information (Please Print)

Premises: Gerhardt

Address: 6 Linden Ave

Town: Hempstead

Collection Point: well Head Well No.

Sampler's Comments:
- Attn Jim Rhodes
- Irrigation well - 32' deep.
- PCE detected - 5500 ppb in drinking well.

DRW 218'

Month

Date Collected: 3 2

Date Received:

Date Reported: APR 0

Collection Time:

Collected By: Jim Rho

Bureau
1 ☐ Land Resources Management
2 ☒ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

	AQUEOUS				NON-AQUEOUS	
	Community Well	6	Surface Water	1	Soil	
	Non-Community Well	7	Waste Water	2	Sludge	
X	Private Well	8	Industrial Effluent	3	Waste Solvent	
	Monitoring Well	9	Raw Supply Water	4	Oil	
	Drinking Water	10	Distribution Water	5	Other (specify)	

ANALYSIS TYPE

X	Purgeable Organic compounds
	Other (specify)

Examiner's Comments:

APR 09 19

APR

DL211 7/89

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900432
Source: GERHARDT, 6 LINDEN AVE, HEMPSTEAD
Matrix: PRIVATE WELL
Site: WELL HEAD
Date Sampled: 03/28/90
Date of Report: 04/05/90

VOLATILE HALOGENATED	MRC (ug/l)		RESULT (ug/l)
VINYL CHLORIDE----------(WA24)---------	100	------- <	100
TRICHLOROFLUORMETHANE-----(WA01)---------	100	------- <	100
1,1-DICHLOROETHYLENE------(WA15)---------	100	------- <	100
METHYLENE CHLORIDE--------(WA02)---------	100	------- <	100
t-1,2-DICHLOROETHYLENE----(WA16)---------	100	------- <	100
1,1-DICHLOROETHANE--------(WA04)---------	100	------- <	100
c-1,2-DICHLOROETHYLENE----(WA17)---------	100	------- <	100
CHLOROFORM----------------(WA05)---------	100	------- <	100
1,1,1-TRICHLOROETHANE-----(WA06)---------	100	------- <	100
CARBON TETRACHLORIDE------(WA07)---------	100	------- <	100
1,2-DICHLOROETHANE--------(WA18)---------	100	------- <	100
TRICHLOROETHYLENE---------(WA08)---------	100	------- <	100
1,2-DICHLOROPROPANE-------(WA20)---------	100	------- <	100
BROMODICHLOROMETHANE------(WA09)---------	100	------- <	100
c-1,3-DICHLOROPROPENE-----(WA22)---------	100	------- <	100
t-1,3-DICHLOROPROPENE-----(WA23)---------	100	------- <	100
1,1,2-TRICHLOROETHANE ----(WA19)---------	100	------- <	100
TETRACHLOROETHYLENE ------(WA13)---------	100	-------	29000
DIBROMOCHLOROMETHANE------(WA10)---------	100	------- <	100
BROMOFORM ----------------(WA14)---------	100	------- <	100
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	100	------- <	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

APR 09 1990

APR - 0

APR - 0 1990

Bard Photocopy

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number:	900432
Source:	GERHARDT, 6 LINDEN AVE, HEMPSTEAD
Matrix:	PRIVATE WELL
Site:	WELL HEAD
Date Sampled:	03/28/90
Date of Report:	04/05/90

VOLATILE AROMATICS		MRC (ug/l)		F
BENZENE	(WC01)	50.0	--------	<
TOLUENE	(WC02)	100	--------	<
CHLOROBENZENE	(WC03)	100	--------	<
ETHYLBENZENE	(WC04)	100	--------	<
XYLENE (o,m,p)	(WC05)	100	--------	<
BROMOBENZENE	(WC09)	100	--------	<
CHLOROTOLUENE	(WC10)	100	--------	<
DICHLOROBENZENE (o,m,p)	(WC06)	100	--------	<
BUTYL BENZENE(tert,sec,n)	(WC08)	100	--------	<

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

APR 25 1990

APR 09 1990

APR 28 1990

LABORATORY WORKSHEET

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES AND SOLID WASTES

Center for Laboratories and Research

Nassau County Department of Health

1 ☒ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900323

Field No. JR1

N No. (Public Water Supply Only) Private well

Source Information (Please Print)

Premises: Gerhardt
Address: 6 Linden Ave
Town: Hempstead
Collection Point: Bathroom TAP
Well No.:

	Month	Day	Year
Date Collected	3	9	90
Date Received	MAR 09 1990		
Date Reported	MAR 20 1990		
Collection Time			
Collected By:	Jim Rhodes		

Sampler's Comments:

Attn Jim Rhodes

- Strong odor (like Dry cleaners)

Bureau

1 ☐ Land Resources Management
2 ☒ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

	AQUEOUS			NON-AQUEOUS	
	Community Well	6	Surface Water	1	Soil
	Non-Community Well	7	Waste Water	2	Sludge
X	Private Well	8	Industrial Effluent	3	Waste Solvent
	Monitoring Well	9	Raw Supply Water	4	Oil
	Drinking Water	10	Distribution Water	5	Other (specify)

ANALYSIS TYPE

X	Purgeable Organic compounds
	Other (specify)

Examiner's Comments:

MAR 27 1990

MAR 23 1990

7/89

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900323
Source: GERHARDT, 6 LINDEN AVE., HEMPSTEAD
Matrix: PRIVATE WELL
Site: BATHROOM TAP
Date Sampled: 03/09/90
Date of Report: 03/20/90

VOLATILE HALOGENATED	MRC (ug/l)		RESULT (ug/l)
VINYL CHLORIDE----------(WA24)---------	1	------- <	1
TRICHLOROFLUORMETHANE-----(WA01)---------	1	------- <	1
1,1-DICHLOROETHYLENE------(WA15)---------	1	------- <	1
METHYLENE CHLORIDE--------(WA02)---------	1	------- <	1
t-1,2-DICHLOROETHYLENE----(WA16)---------	1	------- <	1
1,1-DICHLOROETHANE--------(WA04)---------	1	------- <	1
c-1,2-DICHLOROETHYLENE----(WA17)---------	1	-------	2
CHLOROFORM----------------(WA05)---------	1	------- <	1
1,1,1-TRICHLOROETHANE-----(WA06)---------	1	------- <	1
CARBON TETRACHLORIDE------(WA07)---------	1	------- <	1
1,2-DICHLOROETHANE--------(WA18)---------	1	------- <	1
TRICHLOROETHYLENE---------(WA08)---------	1	-------	4
1,2-DICHLOROPROPANE-------(WA20)---------	1	------- <	1
BROMODICHLOROMETHANE------(WA09)---------	1	------- <	1
c-1,3-DICHLOROPROPENE-----(WA22)---------	1	------- <	1
t-1,3-DICHLOROPROPENE-----(WA23)---------	1	------- <	1
1,1,2-TRICHLOROETHANE ----(WA19)---------	1	------- <	1
TETRACHLOROETHYLENE ------(WA13)---------	1	-------	5500
DIBROMOCHLOROMETHANE------(WA10)---------	50	------- <	50
BROMOFORM ----------------(WA14)---------	1	------- <	1
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	1	------- <	1

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

MAR 27 1990

MAR 23 1990

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number:	900323
Source:	GERHARDT, 6 LINDEN AVE., HEMPSTEAD
Matrix:	PRIVATE WELL
Site:	BATHROOM TAP
Date Sampled:	03/09/90
Date of Report:	03/20/90

VOLATILE AROMATICS	MRC (ug/l)		RES (ug
BENZENE ----------(WC01)---------	0.5	------- <	0.5
TOLUENE ----------(WC02)---------	1	------- <	1
CHLOROBENZENE ----------(WC03)---------	1	------- <	1
ETHYLBENZENE ----------(WC04)---------	1	------- <	1
XYLENE (o,m,p) ----------(WC05)---------	1	------- <	1
BROMOBENZENE ----------(WC09)---------	1	------- <	1
CHLOROTOLUENE ----------(WC10)---------	1	------- <	1
DICHLOROBENZENE (o,m,p) --(WC06)---------	1	------- <	1
BUTYL BENZENE(tert,sec,n)-(WC08)---------	1	------- <	1

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

MAR 23 1990

APPENDIX B

THOMAS S. GULOTTA
COUNTY EXECUTIVE

JOHN J. DOWLING, M.D., M.P.H.
COMMISSIONER

STANLEY JUCZAK, P.E., M.C.E.
DIRECTOR
CENTER FOR ENVIRONMENTAL PROTECTION

NASSAU COUNTY
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501-4250
516-535-3314
FAX # 516-535-3369

May 31, 1990

CERTIFIED MAIL
Franklin Cleaners
208 B. South Franklin St.
Hempstead, N.Y. 11550

Attn:Bloise Nicholson

Re: Contaminated Soil
Franklin Cleaners
208 B. South Franklin Street
Hempstead, N.Y. 11550

Dear Mr. Nicholson:

On April 24, 1990, a representative of this Department obtained two samples of soil from the basement of your building and one sample of soil from the rear alley of the above referenced site. The samples were analyzed by the Department's Center for Laboratories and Research for purgeable halogenated and nonhalogenated hydrocarbons.

The results of analysis (copies attached) indicate the soil in the basement of the building to be contaminated with tetrachlroethylene (perchloroethylene) at a concentration of 9,400 nanograms per gram (parts per billion). The soil in the rear alley of the building was found to be contaminated with tetrachloroethylene at a concentration of 650,000 parts per billion (ppb), trichloroethylene at 1,700 ppb, cis - 1,2 dichloroethylene at 680 ppb and dichlorobenzenes at 120 ppb. The presence of these chemicals in the soil represents violations of Article XI of the Nassau County Public Health Ordinance (NCPHO) and Articles 17 and 27 of the Environmental Conservation Law (ECL) of the State of New York as follows:

ECL - Article 17, Section 17-0501 and 17-0505. Discharging industrial wastes without a permit.

ECL - Article 27, Section 27-0913 and 6 NYCRR, (New York Code of Rules and Regulations) Section 373-1.2. Operating a hazardous waste management facility without a permit.

NCPHO - Section 5.a.
Discharging hazardous materials or wastes without a permit.

Consequently, you are required to perform the following work in order to remediate the problem:

1. Immediately - Cease all unpermitted discharges.

2. By June 15, 1990 obtain the services of a professional engineer licensed to practice in the State of New York * documented experience in the field of environmental pollution with respect to investigation and remediation soil and groundwater contamination.

3. By July 13, 1990 the engineer should prepare and submit this Department for approval three (3) copies of a remed investigation work plan to detail the extent of vertical and areal contamination in the soil and groundwater. Th plan must contain a work implementation schedule for eac phase of the remedial investigation work plan including submission of a remedial investigation report detailing results of the investigation, and submission of a plan ar schedule for remediation of the contamination and restoration of the site to its prespill condition.

   To assure that the recommended course of action detailed the submission reflects the owner's decision, it is required that a letter be submitted along with the work plan officially accepting the work plan and adopting the project for implementation.

4. Implement the above work plan as approved by this Department. This is to begin within two weeks of receip of approval.

5. This Department is to be notified at least five (5) business days in advance of any field work so that the wor can be witnessed. The Department reserves the option of obtaining split samples during the field work.

   All toxic and hazardous material removed from the spill site are to be handled by an industrial waste transporter registered with the New York State Department of Environmental Conservation (NYSDEC) and disposed at a NYSDEC or United States Environmental Protection Agency (USEPA) disposal facility.

If you have any questions concerning this matter, please contact me at (516) 535-2406.

Very truly yours,

Howard Schaefer
Chief
Office of Article XI Regulation

HS:sb
Enc.
cc: Phil Barbato, P.E. - NYSDEC
Harold Stafford - Superintendent, Hempstead W.D.
Incoronata Perna and Guiseppe Sperduto
bcc: B. Owens - ADA

LABORATORY WORKSHEET

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES A SOLID WASTES

Center for Laboratories and Research

Nassau County Department of Health

1 ☑ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900576

Field No. P 88

N No. (Public Water Supply Only)

Source Information (Please Print)

Premises: FRANKLIN CLEANERS

Address: 208B S. FRANKLIN ST

Town: HEMPSTEAD

Collection Point: BASEMENT / RAT HOLE

Well No.

	Month	Day
Date Collected	11	24
Date Received	APR	2 10
Date Reported	MAY	
Collection Time	1:25	
Collected By:	P Bun	

Sampler's Comments:

depth 0-10"
HNU readings -240
transported on ice
5' from SE sidewall
15' from rear wall

Bureau

1 ☑ Land Resources Management
2 ☐ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

AQUEOUS

1	Community Well	6	Surface Water
2	Non-Community Well	7	Waste Water
3	Private Well	8	Industrial Effluent
4	Monitoring Well	9	Raw Supply Water
5	Drinking Water	10	Distribution Water

NON-AQUEOUS

(1)	Soil
2	Sludge
3	Waste Solvent
4	Oil
5	Other (specify)

ANALYSIS TYPE

(A)	Purgeable Organic compounds
	Other (specify)

Examiner's Comments:

11 7/89

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900576
Source: FRANKLIN CLEANERS, 208B SOUTH FRANKLIN ST, HEMPSTE
Matrix: SOIL
Site: BASEMENT 1 RAT HOLE
Date Sampled: 04/24/90
Date of Report: 05/02/90

VOLATILE HALOGENATED	MRC (ng/g)		RESULT (ng/g)
VINYL CHLORIDE----------(WA24)---------	100	------- <	100
TRICHLOROFLUORMETHANE-----(WA01)---------	100	------- <	100
1,1-DICHLOROETHYLENE------(WA15)---------	100	------- <	100
METHYLENE CHLORIDE--------(WA02)---------	100	------- <	100
t-1,2-DICHLORDETHYLENE----(WA16)---------	100	------- <	100
1,1-DICHLOROETHANE--------(WA04)---------	100	------- <	100
c-1,2-DICHLOROETHYLENE----(WA17)---------	100	------- <	100
CHLOROFORM----------------(WA05)---------	100	------- <	100
1,1,1-TRICHLOROETHANE-----(WA06)---------	100	------- <	100
CARBON TETRACHLORIDE------(WA07)---------	100	------- <	100
1,2-DICHLORDETHANE--------(WA18)---------	100	------- <	100
TRICHLORDETHYLENE---------(WA08)---------	100	------- <	100
1,2-DICHLOROPROPANE-------(WA20)---------	100	------- <	100
BROMODICHLOROMETHANE------(WA09)---------	100	------- <	100
c-1,3-DICHLORDPROPENE-----(WA22)---------	100	------- <	100
t-1,3-DICHLOROPROPENE-----(WA23)---------	100	------- <	100
1,1,2-TRICHLOROETHANE ----(WA19)---------	100	------- <	100
TETRACHLOROETHYLENE ------(WA13)---------	100	-------	940
DIBROMOCHLOROMETHANE------(WA10)---------	100	------- <	100
BROMOFORM ----------------(WA14)---------	100	------- <	100
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	100	------- <	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

MAY - 3 1990

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900576
Source: FRANKLIN CLEANERS, 208B SOUTH FRANKLIN ST, HEMPSTEA
Matrix: SOIL
Site: BASEMENT 1 RAT HOLE
Date Sampled: 04/24/90
Date of Report: 05/02/90

VOLATILE AROMATICS		MRC (ng/g)		RESULT (ng/g)
BENZENE	(WC01)	50	<	50
TOLUENE	(WC02)	100	<	100
CHLOROBENZENE	(WC03)	100	<	100
ETHYLBENZENE	(WC04)	100	<	100
XYLENE (o,m,p)	(WC05)	100	<	100
BROMOBENZENE	(WC09)	NR		NR
CHLOROTOLUENE	(WC10)	100	<	100
DICHLOROBENZENE (o,m,p)	(WC06)	100	<	100
BUTYL BENZENE(tert,sec,n)	(WC08)	100	<	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

ABORATORY WORKSHEET

EMICAL EXAMINATION FOR TRACE ORGANIC
ONSTITUENTS IN WATER, HAZARDOUS WASTES
SOLID WASTES

nter for Laboratories and Research

ssau County Department of Health

1 ☐ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900574

Field No. 12 89

N No. (Public Water Supply Only)

urce Information (Please Print)

emises FRANKLIN CLEANERS
dress 216 B. FRANKLIN ST
wn HEMPSTEAD
llection Point BASEMENT Well No.
15A SAND PIT NEAR BOILER

	Month	Day	Yea
Date Collected	4	24	9
Date Received	APR	24	11
Date Reported			
Collection Time		1 : 35	PM
Collected By:			

mpler's Comments:

transported on ice
H.N.U readings 170
NW sidewall (near boiler)
depth - 0-10"

Bureau
1 ☑ Land Resources Management
2 ☐ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

	AQUEOUS			NON-AQUEOUS	
	Community Well	6	Surface Water	1	Soil
	Non-Community Well	7	Waste Water	2	Sludge
	Private Well	8	Industrial Effluent	3	Waste Solvent
	Monitoring Well	9	Raw Supply Water	4	Oil
	Drinking Water	10	Distribution Water	5	Other (specify)

ANALYSIS TYPE

✓	Purgeable Organic compounds
	Other (specify)

Examiner's Comments:

MAY - 3 1989

11 7/89

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900574
Source: FRANKLIN CLEANERS, 2088 SOUTH FRANKLIN ST, HEMPSTEAD
Matrix: SOIL
Site: BASEMENT - SAND PIT NEAR BOILER
Date Sampled: 04/24/90
Date of Report: 05/02/90

VOLATILE HALOGENATED	MRC (ng/g)		RESULT (ng/g)
VINYL CHLORIDE----------(WA24)---------	100	------- <	100
TRICHLOROFLUORMETHANE-----(WA01)---------	100	------- <	100
1,1-DICHLOROETHYLENE------(WA15)---------	100	------- <	100
METHYLENE CHLORIDE--------(WA02)---------	100	------- <	100
t-1,2-DICHLOROETHYLENE----(WA16)---------	100	------- <	100
1,1-DICHLOROETHANE--------(WA04)---------	100	------- <	100
c-1,2-DICHLOROETHYLENE----(WA17)---------	100	------- <	100
CHLOROFORM----------------(WA05)---------	100	------- <	100
1,1,1-TRICHLOROETHANE-----(WA06)---------	100	------- <	100
CARBON TETRACHLORIDE------(WA07)---------	100	------- <	100
1,2-DICHLOROETHANE--------(WA18)---------	100	------- <	100
TRICHLOROETHYLENE---------(WA08)---------	100	------- <	100
1,2-DICHLOROPROPANE-------(WA20)---------	100	------- <	100
BROMODICHLOROMETHANE------(WA09)---------	100	------- <	100
c-1,3-DICHLOROPROPENE-----(WA22)---------	100	------- <	100
t-1,3-DICHLOROPROPENE-----(WA23)---------	100	------- <	100
1,1,2-TRICHLOROETHANE ----(WA19)---------	100	------- <	100
TETRACHLOROETHYLENE ------(WA13)---------	100	------- <	100
DIBROMOCHLOROMETHANE------(WA10)---------	100	------- <	100
BROMOFORM ----------------(WA14)---------	100	------- <	100
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	100	------- <	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

MAY 3

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900574
Source: FRANKLIN CLEANERS, 208B SOUTH FRANKLIN ST, HEMPSTEAD
Matrix: SOIL
Site: BASEMENT - SAND PIT NEAR BOILER
Date Sampled: 04/24/90
Date of Report: 05/02/90

VOLATILE AROMATICS		MRC (ng/g)		RESULT (ng/g)
BENZENE	(WC01)	50	<	50
TOLUENE	(WC02)	100	<	100
CHLOROBENZENE	(WC03)	100	<	100
ETHYLBENZENE	(WC04)	100	<	100
XYLENE (o,m,p)	(WC05)	100	<	100
BROMOBENZENE	(WC09)	NR		NR
CHLOROTOLUENE	(WC10)	100	<	100
DICHLOROBENZENE (o,m,p)	(WC06)	100	<	100
BUTYL BENZENE(tert,sec,n)	(WC08)	100	<	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

MAY 3

LABORATORY WORKSHEET

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES) SOLID WASTES

Center for Laboratories and Research

Nassau County Department of Health

1 ☒ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900575

Field No. P-90

N No. (Public Water Supply Only)

Source Information (Please Print)

Premises: FRANKLIN CLEANERS

Address: 208 B S. FRANKLIN ST

Town: HEMPSTEAD

Collection Point: REAR ALLEY

Well No.

3' NE OF REAR DOOR

	Month	Day
Date Collected	4	24
Date Received	APR	1991
Date Reported	MAY	2 3 199
Collection Time	1	:55
Collected By:	PPaul	

Sampler's Comments:

transported on ice
HNU readings 300
depth 0-10"

Bureau
1 ☒ Land Resources Management
2 ☐ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

	AQUEOUS			NON-AQUEOUS	
1	Community Well	6	Surface Water	1	Soil
2	Non-Community Well	7	Waste Water	2	Sludge
3	Private Well	8	Industrial Effluent	3	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	4	Oil
5	Drinking Water	10	Distribution Water	5	Other (specify)

ANALYSIS TYPE

A	Purgeable Organic compounds
	Other (specify)

Examiner's Comments:

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900575
Source: FRANKLIN CLEANERS, 208B SOUTH FRANKLIN ST, HEMPSTE
Matrix: SOIL
Site: REAR ALLEY
Date Sampled: 04/24/90
Date of Report: 05/22/90

VOLATILE HALOGENATED	MRC (ng/g)		RESULT (ng/g)
VINYL CHLORIDE----------(WA24)---------	100	------- <	100
TRICHLOROFLUORMETHANE-----(WA01)---------	100	------- <	100
1,1-DICHLOROETHYLENE------(WA15)---------	100	------- <	100
METHYLENE CHLORIDE--------(WA02)---------	100	------- <	100
t-1,2-DICHLOROETHYLENE----(WA16)---------	100	------- <	100
1,1-DICHLOROETHANE--------(WA04)---------	100	------- <	100
c-1,2-DICHLOROETHYLENE----(WA17)---------	100	-------	680
CHLOROFORM----------------(WA05)---------	100	------- <	100
1,1,1-TRICHLOROETHANE-----(WA06)---------	100	------- <	100
CARBON TETRACHLORIDE------(WA07)---------	100	------- <	100
1,2-DICHLOROETHANE--------(WA18)---------	100	------- <	100
TRICHLOROETHYLENE---------(WA08)---------	100	-------	1700
1,2-DICHLOROPROPANE-------(WA20)---------	100	------- <	100
BROMODICHLOROMETHANE------(WA09)---------	100	------- <	100
c-1,3-DICHLOROPROPENE-----(WA22)---------	100	------- <	100
t-1,3-DICHLOROPROPENE-----(WA23)---------	100	------- <	100
1,1,2-TRICHLOROETHANE ----(WA19)---------	100	------- <	100
TETRACHLOROETHYLENE ------(WA13)---------	100	-------	650000
DIBROMOCHLOROMETHANE------(WA10)---------	NR	-------	NR
BROMOFORM ----------------(WA14)---------	NR	-------	NR
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	NR	-------	NR

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900575
Source: FRANKLIN CLEANERS, 208B SOUTH FRANKLIN ST, HEMPSTEAD
Matrix: SOIL
Site: REAR ALLEY
Date Sampled: 04/24/90
Date of Report: 05/22/90

VOLATILE AROMATICS	MRC (ng/g)		RESULT (ng/g)
BENZENE ----------(WC01)----------	50	------- <	50
TOLUENE ----------(WC02)----------	100	------- <	100
CHLOROBENZENE ----------(WC03)----------	100	------- <	100
ETHYLBENZENE ----------(WC04)----------	100	------- <	100
XYLENE (o,m,p) ----------(WC05)----------	100	------- <	100
BROMOBENZENE ----------(WC09)----------	NR	-------	NR
CHLOROTOLUENE ----------(WC10)----------	100	------- <	100
DICHLOROBENZENE (o,m,p) --(WC06)----------	100	-------	120
BUTYL BENZENE(tert,sec,n)-(WC08)----------	100	------- <	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

-APPENDIX C

HAGSTROM COORDINATES: E11

ID-NUM

0000003066 REBUILT ELEC EQP COR — SIC # 7629 HAGSTROM E1108
15 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0902 TRADE NAME, ORGANIC — 900 GALLONS
0911 TRICHLOROETHANE, 1,1,2- — 0 GALLONS

0000003022 CHRIS MENICHETTI INC — SIC # 7531 HAGSTROM E1108
25 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0042 ACRYLIC RESINS & DERIVATIVES — 80 GALLONS
0665 PAINT THINNER, MISC — 160 GALLONS

0000003015 AMERICAN PROSTHODONT — SIC # 8072 HAGSTROM E1108
37 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0367 ETHYL SILICATE — 100 GALLONS
0901 TRADE NAME, INORGANIC — 12 GALLONS

0000003042 GAMMA INSTRUMENT CO — SIC # 3599 HAGSTROM E1108
52 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0645 OIL, CUTTING — 10 GALLONS
0902 TRADE NAME, ORGANIC — 50 GALLONS

0000003071 RONKIN ASSOCIATES — SIC # 2752 HAGSTROM E1108
61 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0904 TRADE NAME, UNKNOWN — 0 GALLONS

0000004046 SENTINAL PRINTING — SIC # 2751 HAGSTROM E1108
61 CHASNER ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0456 INKS — 600 POUNDS
0477 ISOPROPYL ALCOHOL — 20 GALLONS
0491 BLANKET WASH, NOS — 55 GALLONS
0902 TRADE NAME, ORGANIC — 90 GALLONS
1026 FOUNTAIN SOLUTION — 0 GALLONS

0000000311 PMP EQUIPMENT CORP — SIC # 7623 HAGSTROM E1108
65 CHASNER ST — PERMITS ARTXI-1YES — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0912 TRICHLOROETHANE, 1,1,1- — 15 GALLONS
WASTES 03 ORGANIC CHEMICALS HALOGENATED — 36 GALLONS
TRANSPORTER(S) 00 15

0000001056 HEMPSTEAD GOLF&CCLUB — SIC # 7997 HAGSTROM E1108
60 FRONT ST — PERMITS ARTXI-1YES — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550

ID-NUM

0000001056 HEMPSTEAD GOLFCCLUB =====> CONTINUED <=====

CHEMICALS	6473	OIL, DIESEL FUEL	500 GALLONS
	0146	BETASAN	5 GALLONS
	0178	CALCIUM CHLORIDE	800 POUNDS
	0338	DURSBAN	25 GALLONS
	0341	DYRENE	25 GALLONS
	0457	INORGANICS, MISC	10 GALLONS
	0457	INORGANICS, MISC	540 POUNDS
	0508	LIME (CALCIUM CARBONATE)	30000 POUNDS
	0636	OIL, MOTOR	28 GALLONS
	0646	OIL, HYDRAULIC	10 GALLONS
	0856	2,4-D	5 GALLONS
	0885	THIRAM	48 KILOS
	0901	TRADE NAME, INORGANIC	5 GALLONS
	1003	FERTILIZERS	30 GALLONS
	1003	FERTILIZERS	15000 POUNDS
	1331	PROXOL 80 SP	30 POUNDS
	1337	OFTANOL (ISOFENPHOS)	15 GALLONS
	1338	TRINEC	5 GALLONS
	1340	DACTHAL 5G	48 KILOS
	1347	BAYLETON (TRIADIMEFON)	55 POUNDS
	1358	DACONIL	25 GALLONS
	1372	BANOL	9 GALLONS
	1412	TERSAN 1991	60 POUNDS
	1413	IPRODIONE (CHIPCO 26019)	15 GALLONS
	1413	IPRODIONE (CHIPCO 26019)	60 POUNDS
	4123	GASOLINE, UNLEADED REGULAR	1000 GALLONS
WASTES	05	WASTE OILS	28 GALLONS
TRANSPORTER(S)	00		

0000001174 BERKEY PRO PROCESSNG — SIC # 7384 HAGSTROM E1108
130 FRONT ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550

CHEMICALS	0013	ACETIC ACID	12 GALLONS
	0081	AMMONIA	8 GALLONS
	0096	AMMONIUM THIOSULFATE	135 GALLONS
	0705	PHOTO CHEMICALS, NOS	240 GALLONS
	0726	POTASSIUM HYDROXIDE	5 GALLONS
	1009	POTASSIUM CARBONATE	80 GALLONS
	1310	AMMONIUM BROMIDE	60 GALLONS
	2067	TRECON EP2 BLEACH FIX	100 GALLONS
	2068	TRECON EP2 DEVELOPER REPLENISHER	100 GALLONS
	2069	TRECON EP2 BLEACH	950 GALLONS
	2070	TRECON EP2 DEVELOPER & BLEACH	230 GALLONS
	2071	KODAK C-41 STABILIZER REPLENISHER	118 GALLONS
	2072	KODAK C-41 BLEACH REPLENISHER	100 GALLONS
	2073	KODAK C-41 FIXER & REPLENISHER	205 GALLONS
	2074	KODAK C-41 SILVER CELL	25 GALLONS
	2075	KODAK C-41 DEVELOPER	250 GALLONS
	6472	OIL, FUEL #2	3000 GALLONS

0000003013 ACTIVE PRINTERS — SIC # 2751 HAGSTROM E1108
234 FRONT ST — PERMITS — WATER DIST 16 SEWER DIST 01

0000003013 ACTIVE PRINTERS =====> CONTINUED <=====
CHEMICALS 0902 TRADE NAME, ORGANIC 2 GALLONS

0000003045 GRAND ARTS FURNITURE
303 FRONT ST - PERMITS - SIC # 7641 HAGSTROM E1108
HEMPSTEAD 11550 WATER DIST 16 SEWER DIST 01
CHEMICALS 0492 LACQUER THINNER 6 GALLONS
0493 LACQUERS 15 GALLONS
0902 TRADE NAME, ORGANIC 35 GALLONS
WASTES 02 ORGANIC CHEMICALS NON-HALOGENATED 0 GALLONS

0000001104 HEMPSTEAD PK NURSING
800 FRONT ST - PERMITS ARIXI-LYES - SIC # 8052 HAGSTROM E1108
HEMPSTEAD 11551 WATER DIST 16 SEWER DIST 01
CHEMICALS 0044 ADHESIVES, NOS 110 GALLONS
0375 ETHYLENE GLYCOL 165 GALLONS
0406 FREON 150 POUNDS
0413 GREASE 30 POUNDS
0441 HYDROCHLORIC ACID 95 GALLONS
0492 LACQUER THINNER 1 GALLONS
0645 OIL, CUTTING 30 POUNDS
0660 PAINT, MISC 210 GALLONS
0689 PETROLEUM DISTILLATES 5 GALLONS
0815 SODIUM HYDROXIDE 100 POUNDS
0834 SOLVENTS, NOS 35 GALLONS
0902 TRADE NAME, ORGANIC 100 POUNDS
0904 TRADE NAME, UNKNOWN 35 GALLONS
1019 ALGICIDES, NOS 6 GALLONS
1079 COOLING TOWER TREATMENT CHMS 35 GALLONS
1142 BOILER WATER TREATMENT CHEMICALS 35 GALLONS
1250 FUEL OIL/GASOLINE ADDITIVES, N.C.S. 55 GALLONS
1586 CREOSOTE 1 GALLONS
6472 OIL, FUEL #2 11000 GALLONS

0000003059 NASSAU SURG APPLANCE
475 FULTON AVE - PERMITS - SIC # 3842 HAGSTROM E1108
HEMPSTEAD 11550 WATER DIST 16 SEWER DIST 01

0000003030 DESIGN UNLIMITED
119 JACKSON ST - PERMITS - SIC # 2751 HAGSTROM E1108
HEMPSTEAD 11550 WATER DIST 16 SEWER DIST 01

0000003023 ROXEN SERVICE INC
3365 RIVERSIDE DR - PERMITS - SIC # 1711 HAGSTROM E1108
OCEANSIDE 11572 WATER DIST 24 SEWER DIST 01

0000003081 SHURE SNAP
56 NEWMANS CT - PERMITS - SIC # 2387 HAGSTROM E1109
HEMPSTEAD 11550 WATER DIST 16 SEWER DIST 01

ID-NUM

0000003082 SURE SNAP CORP — SIC # 2387 HAGSTROM E1109
56 NEWMANS CT — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0666 PAINT, MISC — 25 GALLONS

0000003044 GRAFF MOLDING PRODUC — SIC # 3079 HAGSTROM E1109
428 PENINSULA BLVD — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0842 STYRENE — 0 GALLONS

0000003084 T H STEWART — SIC # 3499 HAGSTROM E1109
538 PENINSULA BLVD — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0842 STYRENE — 55 GALLONS
0904 TRADE NAME, UNKNOWN — 110 GALLONS

0000004027 HEMPSTEAD PLATING CO — SIC # 3471 HAGSTROM E1109
546 PENINSULA BLVD — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0233 COPPER — 480 GALLONS
0249 CYANIDES — 0 GALLONS
0585 MURIATIC ACID — 0 GALLONS
0604 NICKEL — 480 GALLONS
0849 SULPHURIC ACID — 0 GALLONS
WASTES 01 INORGANIC CHEMICALS — 0 GALLONS

0000003032 EXELLO ACCESSORIES — SIC # 3451 HAGSTROM E1113
81 MADISON AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0638 OIL, LUBRICATING — 0 GALLONS

0000003054 MASTER CRAFT SCREEN — SIC # 2751 HAGSTROM E1113
91 MADISON AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0492 LACQUER THINNER — 15 GALLONS
0587 MINERAL OIL — 0 GALLONS
0666 PAINT, MISC — 5 GALLONS
0902 TRADE NAME, ORGANIC — 0 GALLONS

0000003048 JOMAR AUTO BODY — SIC # 7531 HAGSTROM E1113
105 MADISON AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0492 LACQUER THINNER — 150 GALLONS

0000003018 BATTERY SALES INC — SIC # 5013 HAGSTROM E1113
43 POLK AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550

0000003018 BATTERY SALES INC =====> CONTINUED <=====
CHEMICALS 0901 TRADE NAME, INORGANIC 0 GALLONS

0000003070 ROLLEM CORP OF AMER
43 POLK AVE - PERMITS - SIC # 7699 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01
CHEMICALS 0902 TRADE NAME, ORGANIC
0912 TRICHLOROETHANE, 1,1,1- 2 GALLONS
3 GALLONS

0000003065 PRIVATE FORMULATIONS
54 POLK AVE - PERMITS - SIC # 2834 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01
CHEMICALS 0212 CHLOROFORM (TRICHLOROMETHANE) 400 POUNDS
0340 DYE/PIGMENTS, N.O.S. 960 POUNDS
0577 METHYLENE CHLORIDE 30000 POUNDS

0000003055 MEASURE CNTR DEVICES
63 POLK AVE - PERMITS - SIC # 3079 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01
CHEMICALS 0489 KEROSENE 25 GALLONS
0646 OIL, HYDRAULIC 1200 GALLONS
0649 OIL, MISC 125 GALLONS

0000004029 HUSSLEIN PLATING
48 SEWELL ST - PERMITS - SIC # 3471 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01
CHEMICALS 0222 CHROMIC ACID 1500 POUNDS
0585 MURIATIC ACID 3600 GALLONS
0603 NICKEL CHLORIDE 500 GALLONS
0612 NICKEL SULFATE 1000 GALLONS
0799 SODIUM BISULFITE 1000 POUNDS
0815 SODIUM HYDROXIDE 12000 POUNDS
0849 SULPHURIC ACID 3250 GALLONS
0902 TRADE NAME, ORGANIC 16200 POUNDS
WASTES 01 INORGANIC CHEMICALS 11100 GALLONS
02 ORGANIC CHEMICALS NON-HALOGENATED 16200 GALLONS

0000004047 HUSSLEIN PLATING
48 SEWELL ST - PERMITS - SIC # 3471 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01
CHEMICALS 0222 CHROMIC ACID 1500 POUNDS
0585 MURIATIC ACID 3600 GALLONS
0603 NICKEL CHLORIDE 500 GALLONS
0612 NICKEL SULFATE 1000 GALLONS
0799 SODIUM BISULFITE 1000 POUNDS
0815 SODIUM HYDROXIDE 12000 POUNDS
0849 SULPHURIC ACID 3250 GALLONS
0902 TRADE NAME, ORGANIC 16200 POUNDS

0000003043 GEORGE FEINSTEIN INC
95 SEWELL ST - PERMITS - SIC # 2299 HAGSTROM E1113
HEMPSTEAD 11550 - WATER DIST 16 SEWER DIST 01

ID-NUM

0000003043 GEORGE FEINSTEIN INC =====> CONTINUED <=====
CHEMICALS 0902 TRADE NAME, ORGANIC — 1000 GALLONS

0000003027 CONTI FURNITURE COMP — SIC # 2511 HAGSTROM E1113
96 TAFT AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0492 LACQUER THINNER — 600 GALLONS

0000003078 SKYCOACH CUSTOMIZING — SIC # 7549 HAGSTROM E1113
100 TAFT AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0665 PAINT THINNER, MISC — 70 GALLONS
0834 SOLVENTS, NOS — 30 GALLONS
0902 TRADE NAME, ORGANIC — 50 GALLONS

0000003041 GEN REFINING-GRC CRP — SIC # 3341 HAGSTROM E1113
106 TAFT AVE — PERMITS ARTXI-1YES — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0088 AMMONIUM HYDROXIDE — 110 GALLONS
0094 AMMONIUM SULFITE — 675 POUNDS
0142 BORAX — 200 POUNDS
0393 FERROUS SULFATE — 50 POUNDS
0441 HYDROCHLORIC ACID — 184 GALLONS
0614 NITRIC ACID — 172 GALLONS
0791 SODIUM BICARBONATE — 350 POUNDS
0799 SODIUM BISULFITE — 200 POUNDS
0801 SODIUM CARBONATE — 200 POUNDS
0805 SODIUM CYANIDE — 30 POUNDS
0815 SODIUM HYDROXIDE — 1500 POUNDS
0849 SULPHURIC ACID — 14 GALLONS
0951 UREA — 500 POUNDS
1100 AMMONIUM CHLORIDE — 5 POUNDS

0000003046 JAYWOOD PLASTICS — SIC # 3079 HAGSTROM E1113
49 WHITSON ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0716 POLYPROPYLENE — 10000 POUNDS
0718 POLYVINYL CHLORIDE — 30000 POUNDS
0842 STYRENE — 10000 POUNDS
0902 TRADE NAME, ORGANIC — 5000 POUNDS
0916 POLYETHYLENE RESIN — 100000 POUNDS

0000003060 NORTH-SOUTH MACHINE — SIC # 3728 HAGSTROM E1113
83 WHITSON ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0902 TRADE NAME, ORGANIC — 58 GALLONS

0000002649 NASSAU HAND PRINTS — SIC # 2649 HAGSTROM E1114
WATER DIST 16 SEWER DIST 01

ID-NUM

0000004036 TRIMCO — SIC # 5531 HAGSTROM E1114
428 PENINSULA BLVD — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0044 ADHESIVES, NOS 30 GALLONS
0843 SURFACTANTS 25 GALLONS
0902 TRADE NAME, ORGANIC 600 GALLONS
0968 WAXES, MISC 50 GALLONS

0000000120 AMERICAN SUNROOF — SIC # 7531 HAGSTROM E1114 008 81
522 PENINSULA BLVD — PERMITS 360-1YES — WATER DIST 16 SEWER DIST C1
HEMPSTEAD 11550
CHEMICALS 0492 LACQUER THINNER 220 GALLONS
WASTES 10 PAINTS 0 GALLONS
TRANSPORTER(S) 24

0000000180 BOURGES COLOR CORP — SIC # 2641 HAGSTROM E1114 008 86
99 SEWELL ST — PERMITS ARTXI-1YES — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11551
CHEMICALS 0902 TRADE NAME, ORGANIC 55 GALLONS
TRANSPORTER(S) 24

0000003049 LONDON MACHINE CO — SIC # 3599 HAGSTROM E1114
118 SOUTH FRANKLIN ST — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0902 TRADE NAME, ORGANIC 120 GALLONS

0000000330 GLOBAL EQUIPMENT CO — SIC # 3499 HAGSTROM E1119
63 HEMLOCK DR — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0492 LACQUER THINNER 5630 GALLONS
0493 LACQUERS 800 GALLONS
WASTES 02 ORGANIC CHEMICALS NON-HALOGENATED 660 GALLONS
10 PAINTS 1500 POUNDS
27 NON-HALOGENATED SOLVENTS 2210 GALLONS
TRANSPORTER(S) 20 22 22 22 90

0000003062 PARA LABORATORIES — SIC # 2844 HAGSTROM E1119
100 ROSE AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0266 DENATURED ALCOHOL 9000 GALLONS
0587 MINERAL OIL 24000 GALLONS
0750 PROPYLENE GLYCOL 0 GALLONS
0902 TRADE NAME, ORGANIC 2000 GALLONS

0000003068 RELIANCE PETRO PRODS — SIC # 3496 HAGSTROM E1119
90 WEST GRAHAM AVE — PERMITS — WATER DIST 16 SEWER DIST 01
HEMPSTEAD 11550
CHEMICALS 0444 TETRASODIUM PYROPHOSPHATE 0 GALLONS
0448 HYDROGEN PEROXIDE 0 GALLONS

ID-NUM

0000003063 RELIANCE PETRO PRODS =====> CONTINUED <=====
CHEMICALS 0902 TRADE NAME, ORGANIC 0 GALLONS

TOTAL PERMITS ISSUED HAGSTROM CODE: E11

360	1
ARTXI	5
SPDES	0

APPENDIX D

LABORATORY WORKSHEET

CHEMICAL EXAMINATION FOR TRACE ORGANIC CONSTITUENTS IN WATER, HAZARDOUS WASTES SOLID WASTES

Center for Laboratories and Research

Nassau County Department of Health

1 ☑ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 900573

Field No. P-87

N No. (Public Water Supply Only)

Source Information (Please Print)

Premises: MASCOLL RESIDENCE
Address: 217 S. FRANKLIN ST
Town: HEMPSTEAD
Collection Point: FRONT LAWN
Well No.:
LFT SE WALKWAY

Date Collected: Month 4 Day 24
Date Received: APR 27 1990
Date Reported: APR 27 1990
Collection Time: 11:45a
Collected By: P. Paul

Sampler's Comments:

HNU readings - 11
depth 0-10"
2½' from building
transported on ice

Bureau

1 ☒ Land Resources Management
2 ☐ Public Water Supply
3 ☐ Water Pollution Control
4 ☐ Environmental Sanitation
9 ☐ Other (specify)

SAMPLE TYPE

AQUEOUS				NON-AQUEOUS	
1	Community Well	6	Surface Water	(1)	Soil
2	Non-Community Well	7	Waste Water	2	Sludge
3	Private Well	8	Industrial Effluent	3	Waste Solvent
4	Monitoring Well	9	Raw Supply Water	4	Oil
5	Drinking Water	10	Distribution Water	5	Other (specify)

ANALYSIS TYPE

(A)	Purgeable Organic compounds
B	Other (specify)

Examiner's Comments:

APR 27 1990

211 7/89

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900573
Source: MASCOLL RESIDENCE, 217 SOUTH FRANKLIN ST, HEMPSTEAD
Matrix: SOIL
Site: FRONT LAWN
Date Sampled: 04/24/90
Date of Report: 04/27/90

VOLATILE HALOGENATED	MRC (ng/g)		RESULT (ng/g)
VINYL CHLORIDE----------(WA24)---------	100	------- <	100
TRICHLOROFLUORMETHANE-----(WA01)---------	100	------- <	100
1,1-DICHLOROETHYLENE------(WA15)---------	100	------- <	100
METHYLENE CHLORIDE--------(WA02)---------	100	------- <	100
t-1,2-DICHLOROETHYLENE----(WA16)---------	100	------- <	100
1,1-DICHLOROETHANE--------(WA04)---------	100	------- <	100
c-1,2-DICHLOROETHYLENE----(WA17)---------	100	------- <	100
CHLOROFORM----------------(WA05)---------	100	------- <	100
1,1,1-TRICHLOROETHANE-----(WA06)---------	100	------- <	100
CARBON TETRACHLORIDE------(WA07)---------	100	------- <	100
1,2-DICHLOROETHANE--------(WA18)---------	100	------- <	100
TRICHLOROETHYLENE---------(WA08)---------	100	------- <	100
1,2-DICHLOROPROPANE-------(WA20)---------	100	------- <	100
BROMODICHLOROMETHANE------(WA09)---------	100	------- <	100
c-1,3-DICHLOROPROPENE-----(WA22)---------	100	------- <	100
t-1,3-DICHLOROPROPENE-----(WA23)---------	100	------- <	100
1,1,2-TRICHLOROETHANE ----(WA19)---------	100	------- <	100
TETRACHLOROETHYLENE ------(WA13)---------	100	------- <	100
DIBROMOCHLOROMETHANE------(WA10)---------	100	------- <	100
BROMOFORM ----------------(WA14)---------	100	------- <	100
1,1,2,2-TETRACHLOROETHANE-(WA21)---------	100	------- <	100

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - ni/l WATER - ug/l SOIL - ng/g

APR 26 1990

NASSAU COUNTY HEALTH DEPARTMENT
CENTER FOR LABORATORIES AND RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

TRACE ORGANICS

Access Number: 900573
Source: MASCOLL RESIDENCE, 217 SOUTH FRANKLIN ST, HEMPST
Matrix: SOIL
Site: FRONT LAWN
Date Sampled: 04/24/90
Date of Report: 04/27/90

VOLATILE AROMATICS		MRC (ng/g)		RESU (ng/
BENZENE	(WC01)	50	<	5
TOLUENE	(WC02)	100	<	10
CHLOROBENZENE	(WC03)	100	<	10
ETHYLBENZENE	(WC04)	100	<	10
XYLENE (o,m,p)	(WC05)	100	<	10
BROMOBENZENE	(WC09)	NR		NR
CHLOROTOLUENE	(WC10)	100	<	10
DICHLOROBENZENE (o,m,p)	(WC06)	100	<	10
BUTYL BENZENE(tert,sec,n)	(WC08)	100	<	10

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR - nl/l WATER - ug/l SOIL - ng/g

BAD PHOTOCOPY CM.

Franklin Cleaners Site Well Logs

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-1
LOCATION: North side of Cruikshank Ave. 200 ft. East of S. Franklin St.
M.P. ELEVATION: 53.55
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 12, 1992
DRILLING ENDED: November 12, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 40 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 20 '
SCREEN SET.(FT.) 20'-40'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	20.95	32.60

DEVELOPMENT
Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-2' Brown-black topsoil				
		GM	2-7' Black-brown, fine, silty quartz sand with trace gravel.	1	16"	5-7'	28/2ft
10		SW	7-12' Orange-brown, medium to coarse, subangular to subround quartz sand with granules.	2	18"	10-12	25/2ft
		SP	12-20' Tan-brown, fine to coarse, subangular to subround, well sorted quartz sand with trace gravel, some dark minerals.	3	16"	15-17	24/2ft
20		SW	20-25' Orange-brown, fine to coarse, moderately sorted quartz sand with some granules.	4	16"	20-22	36/2ft
			Sample saturated at 25 ft.	5	18"	25-27	21/2ft
30		SP	25-42' Tan-brown, fine to medium, some coarse, well sorted quartz sand, trace granules.	6	18"	30-32	28/2ft

WELL NO. FC-1

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
40		SP	25-42' Tan-brown, fine to medium, some coarse, well sorted quartz sand, trace granules.	7	12"	35-37	39/2ft
				8	12"	40-42	50/2ft.
	TD= 42 ft.						
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: S. Urban
WELL NO.: FC-2
LOCATION: Northwest corner of Linden Ave & South Franklin St.
M.P. ELEVATION: 53.18
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 23, 1992
DRILLING ENDED: November 23, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 37 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	21.33	31.85

DEVELOPMENT
Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-3' Brown-tan, clayey sand-fill.				
		SW	3-10' Tan, fine to medium, poorly sorted quartz sand with fine to coarse gravel (30%) in a clean matrix.	1	10"	5-7'	37/2ft
10				2	14"	10-12	20/2ft
		SW	10-21' Tan-orange, fine to medium grained, moderately sorted quartz sand with medium gravel (10%) in a clean matrix.	3	15"	15-17	38/2ft
20				4	16"	20-22	31/2ft
		SW	21-37' Tan-orange, fine to coarse, poorly sorted quartz sand wit some fine gravel, clean matrix.	5	24"	25-27	28/2ft
30				6	24"	30-32	20/2ft

WELL NO. FC-2

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
				7	24"	35-37	25/2ft
	TD = 37 ft.						
40							
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-3
LOCATION: West side of Linden Ave. 200 ft. West of S. Franklin St.
M.P. ELEVATION: 52.64
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 13, 1992
DRILLING ENDED: November 13, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 37 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE:.020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Split Spoon
HAMMER 140 LB. (Auto)
FALL: 30 IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	21.00	31.64

DEVELOPMENT
Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-1' Black topsoil				
		GM	1-5' Brown, fine to medium, silty quartz sand, some gravel.				
				1	10"	5-7'	28/2ft
10				2	10"	10-12	14/2ft
		SW	5-25' Tan-brown, fine to coarse, subangular to subround, moderately to poorly sorted, micaceous quartz sand with granules and pebbles.	3	16"	15-17	30/2ft
20				4	16"	20-22	24/2ft
			Spoon wet at 22 ft.				
				5	24"	25-27	28/2ft
30		SW	25-37' Orange-brown, fine to coarse, subround to subangular, moderately sorted, micaceous quartz sand increasingly fine with depth. Some dark minerals present.	6	24"	30-32	31/2ft

WELL NO. FC-3

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	SAMPLE REC.	SAMPLE DEPTH	SAMPLE BLOWS
		SW		7	24"	35-37	37/2ft
	TD=37 ft.						
40							
50							
60							
70							
80							

DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION AND WATER SUPPLY
HAZARDOUS WASTE SERVICES UNIT
NASSAU COUNTY, NEW YORK
WELL LOG

PROJECT: Franklin Cleaners
DATE PREPARED: January 11, 1993
PREPARED BY: M. Flaherty
WELL NO.: FC-4
LOCATION: East side of Linden Ave. 200 ft. East of Laurel Ave.
M.P. ELEVATION: 53.80
DRILLER: Larry E. Tyree (K. Watson)
TYPE OF RIG: Failing F-10 (Auger)
DRILLING STARTED: November 13, 1992
DRILLING ENDED: November 13, 1992
PAGE: 1 OF: 2

WELL DATA
HOLE DIAM.(IN): 12 "
FINAL DEPTH (FT): 38 '
CASING DIAM.(IN.): 4 "
CASING LNTH.(FT): 17 '
SCREEN SET.(FT.) 17'-37'
SCREEN SLOT/TYPE: .020PVC
WELL STATUS: Monitoring

SAMPLER
TYPE: Flyte
HAMMER NA LB.
FALL: NA IN.

G.W. READINGS

DATE	DTW	WTE
12/02/92	22.63	31.17

DEVELOPMENT
Overpumping for 1 hour at 8 GPM

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	REC.	DEPTH	BLOWS
0			0-1' Black topsoil				
		SW	1-10' Brown, fine to coarse, subangular to subround quartz sand, trace gravel. Note: Gravel not coming up flytes.				
10			10-38' Orange-brown, fine to medium, subround to subangular quartz sand, trace gravel, no odor.				
20		SW					
30			Orange-brown, fine to medium, subround to subangular quartz sand, trace gravel, no odor.				

WELL NO. FC-4

DEPTH (ft.)	LITH-OLOGY	USCS CLAS.	SAMPLE DESCRIPTION	SAMPLE NO.	SAMPLE REC.	SAMPLE DEPTH	SAMPLE BLOWS
		SW					
	TD=38 ft.						
40							
50							
60							
70							
80							

NYTEST Environmental Inc., Laboratory Report Sheets

nytest environmental inc.
TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

Jan. 29,1993

NYSDEC
Bureau of Technical Service Reserach
50 Wolf Road, Room 301
Albany, NY 12233-3502

Attn: Analytical Services Section

Nytest is pleased to submit our Project No. 9219574
Log in No. 15282 on your sample (s) received: 12/31/92

Test sample (s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Very truly yours,

Nytest Environmental Inc.

Remo Gigante

Remo Gigante
Exec. VP

RG:
Enc.

SHIPPED VIA: FED. EXP. # 5999977152

CC: NYSDEC /Nassau County
425 Salisbury Park Drive
Westbury, NY 11590

Attn: Mike Flaherty

Fed. Exp. # 5999977163

CC: NYSDEC
50 Wolf Rd. Room 220
Albany, NY 12233

Attn: Hayden Brewster

Fed. Exp. # 5999977174

box 1518 ☐ 60 seaview blvd., port washington, ny 11050 ☐ (516) 625-5500
fax (516) 625-1274

nytest environmental inc

Project No.: 9219574
Log in No. : 15282
Case No. : SH092
SDG No. : 1106
P.O. No. : C002686
Date : Jan. 27, 1993

SUMMARY DATA REPORT
PACKAGE FOR

NYSDEC

Bureau of Technical Service Research

50 Wolf Road, Room 301

Albany, NY 12233-3502

ATTN: Analytical Services Section

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE

WE CERTIFY THAT THIS REPORT IS A TRUE REPORT OF RESULTS OBTAINED FROM OUR TESTS OF THIS MATERIAL.

NYSDEC/Nassau County
425 Salisbury Park Drive
Westbury, NY 11590
Attn: Mike Flaherty
(Summary Only)

NYSDEC
50 Wolf Road
Albany, N.Y. 12233
Attn: Hayden Brewster

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

DOUGLAS SHEELEY
LABORATORY DIRECTOR

NYS Lab ID. #10195
NJ Cert. #73469
um

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
1528201	FC-1	Water
1528202	FC-2	Water
1528203	FC-3	Water
1528204	FC-4	Water
1528205	FIELD BLANK	Water
1528206	TRIP BLANK	Water

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ASP Forms

nytest environmental inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical requirements					
		VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	PEST PCB Method	METALS	OTHER
FC-1	1528201	X			X	X	X
FC-2	1528202	X			X	X	X
FC-3	1528203	X			X	X	X
FC-4	1528204	X			X	X	X
Field Blank	1528205	X					
Trip Blank	1528206	X					

nytest environmental inc

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
1528201	Water	12/30/92	12/31/92	NA	01/04/92
1528202	↓	↓	↓	↓	↓
1528203					
1528204					
1528205		↓			
1528206		12/29/92			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE / PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
15282-01	Water	12/30/92	12/31/92	1/5/93	1/19/93
15282-02	↓	↓	↓	↓	↓
15282-03					
15282-04					

SDG Narrative

nytest environmental inc

SDG Narrative

Contract No.: 9219574
Case No. : SH092
SDG No. : 1106
Log In No. : 15282

The following samples are contained in this SDG:

NYSDEC Sample ID	Laboratory ID
FC-1	1528201
FC-2	1528202
FC-3	1528203
FC-4	1528204
FIELD BLANK	1528205
TRIP BLANK	1528206

SDG Narrative

Log In No.: 15282

VOLATILES

System Monitoring Compounds
All system monitoring compound recoveries were within QC limits.

Blanks
No compounds were found in the method blank, VBLKK29.

Calibrations
Initial and continuing calibrations met QC requirements.

Internal Standard
All internal standard area counts were within QC limits.

Samples
Samples were analyzed according to NYSDEC 12/91 ASP. No problems were encountered.

JG, TP, DS, Shah/Lowi/FILE
AT + QC problem

nytest environmental inc.

IN REFERENCE TO
LAB PROJECT NO. (S): 15282
Case SH092 SDG 1106

TELEPHONE RECORD LOG

DATE OF CALL: 1/6/93

CLIENT NAME : NYDEC

CLIENT PHONE NO.: 5184577146 Maureen Serafini / 5169978282 Tim Kel

CLIENT CONTACT: _____

CALL INITIATED BY: Reno LABORATORY CLIENT: _____

IN REFERENCE TO DATA FOR THE FOLLOWING SAMPLE NUMBER (S):
Called in reference of Proj # BNA
Extract was only No sufficient sample
to reextract.

SUMMARY OF QUESTIONS/ISSUES DISCUSSED:

SUMMARY OF RESOLUTION:
Do not analyze BNA -
Client will not resample

SIGNATURE _____ DATE 1/6/93

DISTRIBUTION: (1) LAB FILE COPY, (2) MANAGER'S COPY

0000008

nytest environmental inc

SDG Narrative

Log In No.: 15282

SEMIVOLATILE FRACTION

General Comment

As per the enclosed telephone record dated January 6, 1993, semivolatile analysis was not performed due to difficulties encountered with the extraction process.

nytest environmental inc

SDG Narrative

Case No.: SH092
SDG No. : 1106
Log In No.: 15282

PESTICIDE/PCB FRACTION

Surrogates
All surrogate recoveries were within the QC limits.

Method Blank
No target compounds were found.

Calibration
All initial and continuing calibrations standards passed the QC criteria.

Samples
All samples were analyzed as per ASP 12/91. Due to an insufficient amount of sample only 500 ml was used for the extraction of sample FC-4.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of then data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Douglas Sheeley

Form I

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-1

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528201

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5209

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000013

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FC-1

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528201

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5209

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0000014

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-2

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528202

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5210

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	83	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000015

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FC-2

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528202

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5210

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-3

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528203

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5211

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000017

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FC-3

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528203

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5211

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0000018

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

FC-4

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528204

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5212

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000019

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FC-4

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528204

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5212

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0000020

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLK

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5208

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000021

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FIELDBLK

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5208

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5207

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000023

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5207

Level: (low/med) LOW Date Received: 12/31/92

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0000024

PESTICIDE ORGANICS[1D] ANALYSIS DATA SHEET

EPA SAMPLE NO.: FC-1

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/31/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/19/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PESTICIDE ORGANICS 1D ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-2

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528202

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/31/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/19/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-3

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528203

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/31/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/19/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-4

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: 1528204

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/31/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/19/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
7421-36-3	Endrin aldehyde	0.20	U
5103-71-9	alpha-Chlordane	0.10	U
5103-74-2	gamma-Chlordane	0.10	U
8001-35-2	Toxaphene	10	U
12674-11-2	Aroclor-1016	2.0	U
11104-28-2	Aroclor-1221	4.0	U
11141-16-5	Aroclor-1232	2.0	U
53469-21-9	Aroclor-1242	2.0	U
12672-29-6	Aroclor-1248	2.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

PBLK13

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: PBLK5213

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/05/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/19/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Form II

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	FC-1	104	100	97	0	0
02	FC-2	105	97	95	0	0
03	FC-3	100	100	99	0	0
04	FC-4	100	97	99	0	0
05	FIELDBLK	100	100	97	0	0
06	TRIPBLK	100	97	96	0	0
07	VBLKK29	100	97	98	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

GC Column(1): DB-608 ID: 0.53(mm) GC Column(2): DB-1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK13	92	93	104	113			0
02	FC-1	80	80	88	98			0
03	FC-2	78	80	91	100			0
04	FC-3	75	77	86	95			0
05	FC-4	82	82	100	110			0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

ADVISORY QC LIMITS
(60-150)
(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Form IV

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKK29

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Lab File ID: K5204 Lab Sample ID: VBLKK29

Date Analyzed: 01/04/93 Time Analyzed: 1417

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: FIN_K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FC-1	1528201	K5209	1913
02	FC-2	1528202	K5210	1955
03	FC-3	1528203	K5211	2037
04	FC-4	1528204	K5212	2122
05	FIELDBLK	1528205	K5208	1828
06	TRIPBLK	1528206	K5207	1743

COMMENTS: VBLK K29
5MLS,INST.FIN.K

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK29

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: VBLKK29

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5204

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

0000035

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKK29

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Matrix: (soil/water) WATER Lab Sample ID: VBLKK29

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5204

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 01/04/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

0000036

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK13

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Lab Sample ID: PBLK5213 Lab File ID: _____

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 01/05/93

Date Analyzed (1): 01/19/93 Date Analyzed (2): 01/19/93

Time Analyzed (1): 0915 Time Analyzed (2): 0915

Instrument ID (1): HP3A Instrument ID (2): HP3B

GC Column (1): DB-608 ID: 0.53 (mm) GC Column (2): DB-1701 ID: 0.53 (mm

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FC-1	1528201	01/19/93	01/19/93
02	FC-2	1528202	01/19/93	01/19/93
03	FC-3	1528203	01/19/93	01/19/93
04	FC-4	1528204	01/19/93	01/19/93

COMMENTS:

0000037

Form VIII

Lab Name: NYTEST ENV INC Contract: 9219574

Lab Code: NYTEST Case No.: SH092 SAS No.: _____ SDG No.: 1106

Lab File ID (Standard): K5203 Date Analyzed: 01/04/93

Instrument ID: FIN_K Time Analyzed: 1307

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CBZ) AREA	#	RT	#
	12 HOUR STD	79569		12.44		392748		15.35		351434		23.70	
	UPPER LIMIT	159138		12.94		785496		15.85		702868		24.20	
	LOWER LIMIT	39784		11.94		196374		14.85		175717		23.20	
	EPA SAMPLE NO.												
01	FC-1	66098		12.32		304729		15.22		251666		23.59	
02	FC-2	48437		12.29		257089		15.20		206465		23.57	
03	FC-3	62146		12.30		297913		15.20		266029		23.57	
04	FC-4	60713		12.32		295705		15.24		264233		23.59	
05	FIELDBLK	65263		12.30		301118		15.20		258303		23.55	
06	TRIPBLK	64752		12.24		306423		15.12		267896		23.45	
07	VBLKK29	66895		12.50		336618		15.40		294053		23.75	

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FCXXX1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219574

Lab Code: 10195 Case No.: SH092 SAS No.: SDG No.: SDG110

Matrix (soil/water): WATER Lab Sample ID: 528201

Level (low/med): LOW Date Received: 12/31/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41.0	U		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	25.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	24100			P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	9.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	10.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	2870	B		P
7439-96-5	Manganese	13.2	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	39.0	U		P
7440-09-7	Potassium	2310	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	7.0	U		P
7440-23-5	Sodium	19600			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	18.6	B		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FCXXX2

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219574

Lab Code: 10195 Case No.: SH092 SAS No.: SDG No.: SDG110

Matrix (soil/water): WATER

Lab Sample ID: 528202

Level (low/med): LOW

Date Received: 12/31/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.4	B		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	46.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	24300			P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	9.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	68.8	B		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	3080	B		P
7439-96-5	Manganese	11.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	39.0	U		P
7440-09-7	Potassium	2850	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	7.0	U		P
7440-23-5	Sodium	24400			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	6.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.: FCXXX3

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219574

Lab Code: 10195 Case No.: SH092 SAS No.: SDG No.: SDG110

Matrix (soil/water): WATER Lab Sample ID: 528203

Level (low/med): LOW Date Received: 12/31/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41.0	U		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	80.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	49500			P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	9.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	10.0	U		P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	11200			P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	39.0	U		P
7440-09-7	Potassium	3250	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	7.0	U		P
7440-23-5	Sodium	60900			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	10.2	B		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FCXXX4

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219574

Lab Code: 10195 Case No.: SH092 SAS No.: _____ SDG No.: SDG110

Matrix (soil/water): WATER

Lab Sample ID: 528204

Level (low/med): LOW

Date Received: 12/31/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41.0	U		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.0	U	W	F
7440-39-3	Barium	58.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	29000			P
7440-47-3	Chromium	7.0	U		P
7440-48-4	Cobalt	9.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	10.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4080	B		P
7439-96-5	Manganese	4.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	39.0	U		P
7440-09-7	Potassium	2480	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	7.0	U		P
7440-23-5	Sodium	30000			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	6.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: