

## I. INTRODUCTION

The subject property, located at 66 Herbhill Road in Glen Cove, New York, contained five underground tanks that were no longer in use. During the excavation of the tanks, some soil contamination was found in the vicinity of a buried gasoline tank. While excavating, four petroleum-based solvent tanks at the west side of the building, and a single drum which was labelled "PERK" (tetrachloroethylene) were discovered. Soil samples were obtained from the excavation in the vicinity of the buried gasoline tanks and tested for constituents of gasoline; some soil contamination was found in this area. In addition, soil samples obtained from the excavated area, which formerly contained the solvent tanks, were also found to be contaminated.

The purpose of this work plan is to describe the testing required to determine the extent of subsurface contamination. After the testing is completed and analyzed, remediation will be addressed in detail.

## II. SITE DESCRIPTION AND LOCATION

The property is located at the north side of Herbhill Road in Glen Cove, New York (see Figure 1). The property is approximately 175 feet by 250 feet in area. Located on the property is a 1-story cinder block and brick building, which provides approximately 13,500 square feet of floor space. A number of vehicles and trucks are stored on site.

The area is highly industrialized; the property is literally surrounded by inactive hazardous waste sites and a Superfund site. Directly south and west of the subject property is Li Tungsten, a notorious Superfund site. North and east of the property is Konica Imaging System. The operations at Konica have been under scrutiny by both the Nassau County Health Department and the New York State Department of Environmental Conservation. The Konica property is listed as a U.S. CERCLIS site by the EPA. The property now occupied by Konica Imaging System was previously owned by Columbia Ribbon & Carbon Manufacturing Company and Powers Chemco. As a result of the operations by Columbia Ribbon, an inactive hazardous waste site has been identified on Charles Street, directly east of the subject property. Southwest of the property, on Garvie's Point Road, are three inactive hazardous waste sites. A survey of the property showing the location of the buried tanks and area of contamination is also included (see Figure 2).

J N D

CITY METROPOLITAN URBAN AREA BOUNDARY  
DEFINED AS FOLLOWING THE SHORELINE

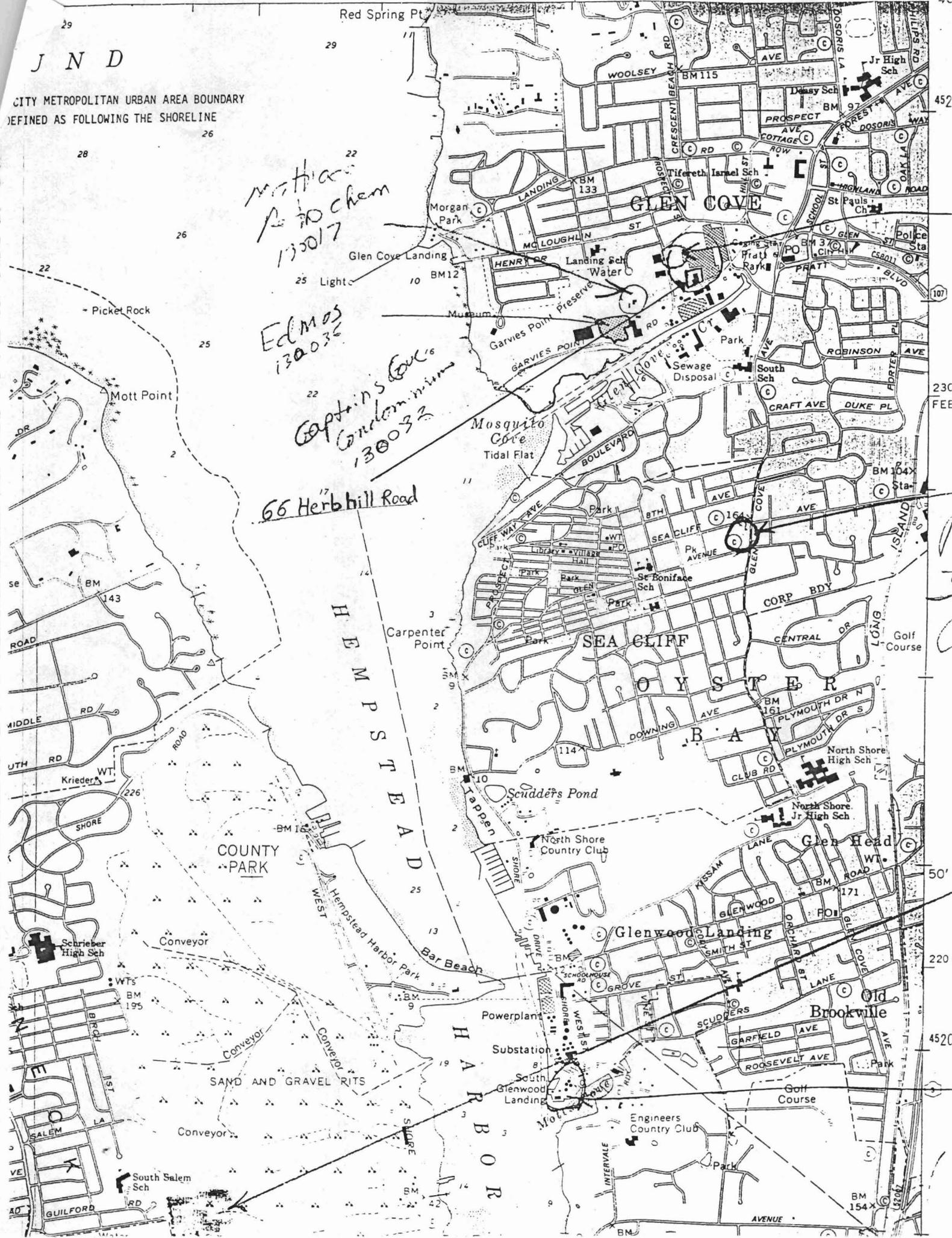
Red Spring Pt

*Mithras  
R 70 Chem  
130017*

*Edmos  
130036*

*Captain's Cove  
Condominium  
130033*

*66 Herbill Road*



Mott Point

GLEN COVE

SEA CLIFF

OYSTER BAY

Glen Head

Old Brookville

COUNTY PARK

South  
Glenwood  
Landing

Glenwood  
Landing

Scrieber  
High Sch

South Salem  
Sch

Engineers  
Country Club

Golf Course

452

107

230  
FEE

50'

220'

4520

4520



HEMPSTEAD

BAY

Sea Cliff Y.C.

I.B.M. Country Club

Carpenter Pt.

HEMPSTEAD HARBOR

11050

HEMPSTEAD HARBOR BEACH PARK

TAPPAN BEACH

11579

Country Club

GLENWOOD PARKING

A. Site History

The property was occupied by Dyckman Laundry and Cleaners from 1932 to 1975. From 1975 to 1983 Crown Uniform Rental occupied the property; Crown dry cleaned and serviced uniforms. In 1979 the property was divided. Approximately 6,000 square feet was utilized by Crown Uniform Services. The remainder of the property was occupied by an Auto Body Repair Shop.

In 1983, S & W Laundry occupied the area previously occupied by Crown Uniform Service. The general use of the property, from 1979 to the current time, has been the same: auto repair, auto body shop and commercial laundry.

B. Utilities

The subject property has been connected to the municipal sewer system since 1932. The building is heated by No. 2 fuel oil. The oil-fired boiler also produces hot water and steam for the laundry. Water and electricity are provided by the local utilities.

C. Underground Tanks

The following underground tanks are currently on site and utilized by the tenants at the property:

<u>No.</u>	<u>Capacity</u>	<u>Product</u>	<u>Age (years)</u>
1	8,000 gallon	No. 2 fuel oil tank	15 approx.
1	1,000 gallon	No. 2 fuel oil tank	15 approx.

The following underground tanks have been recently removed:

<u>No.</u>	<u>Capacity</u>	<u>Product</u>	<u>Age (years)</u>
2	2,000 gallon	Stoddard Solvent	40 +
2	500 gallon <i>TAB</i>	Stoddard Solvent	40 +
1	1,000 gallon	Gasoline	40 +

All of the above tanks were abandoned in 1960. It should also be noted that the Stoddard Solvent is a petroleum-based solvent.

# TANK SPECIALISTS

36 Meadow Lane  
 Glen Head, New York 11545  
 (516) 759-9318

# INVOICE

No.

DATE		JANUARY 9, 1991	
CUSTOMER ORDER NO.		JOB ORDER NO.	
DATE WORK PERFORMED			
JOB SITE			COUNTY
66 HERB HILL RD. GLEN COVE			NASS

TO

HERB HILL ASSOCIATES  
 21 EDWARDS LANE  
 GLEN COVE, NY 11542

ATT: MR. MAURICE BAUER

TERMS: NET 30 DAYS

PAGE 1

DESCRIPTION	AMOUNT	
9/14/90 EXCAVATED AT WEST SIDE OF BUILDING, EXPOSED (1) 2000 GALLON TANK AND (2) 550 GALLON TANKS, STOCKED PILED SOIL. NASSAU COUNTY HEALTH DEPT. ON SITE TOOK SAMPLES OF SOIL. EXCAVATED NORTH EAST CORNER OF BUILDING, EXPOSED TOP OF 1000 GALLON GASOLINE TANK.  N.C.H.D. - TOM NORRIS D.E.C. - TIM WALSH		
9/18/90 *PUMPED OUT GASOLINE TANK. EXCAVATED, REMOVED AND DISPOSED OF (1) 1000 GALLON GASOLINE TANK. STOCK PILED APPROXIMATE .25 - 30 CUBIC YARDS OF CONTAMINATED SOIL AS PER D.E.C. INSPECTOR, TIM WALSH. (1) D.O.T. DRUM OF SLUDGE.  *REMOVED SAMPLES FROM SOLVENT TANKS AT WEST SIDE OF BUILDING FOR ANALYSIS.		
1/30/90 REMOVED AND DISPOSED OF CONTENTS OF TANKS AT WEST END OF BUILDING, LOCATED ADDITIONAL 2000 GALLON TANK. TOTAL GALLONS DISPOSED OF 3500 GALLONS. REMOVED AND DISPOSED OF (2) 2000 GALLON TANKS AND (2) 550 GALLON TANKS. (3) D.O.T. DRUMS OF SLUDGE. STOCK PILED APPROXIMATE 50 - 60 CUBIC YARDS OF CONTAMINATED SOIL AS PER N.C.H.D. INSPECTOR, STEVE. EXCAVATED (1) DRUM LABELED PERK, CONTENTS UNKNOWN.		
1/9/91 PUMPED AND DISPOSED OF WATER IN EXCAVATED AREA. BACKFILLED EXCAVATION WITH SOILS WHICH WERE EXCAVATED IN TANK REMOVAL PROCESS.  TANK REMOVALS (2) 2000 GALLONS SOLVENT (2) 550 GALLONS SOLVENT (1) 1000 GALLONS GASOLINE.....		
LAB ANALYSIS - TANK CONTENTS.....	\$4,204 \$ 750	00 00

1.5% INTEREST IF NOT PAID WITHIN 30 DAYS

#### D. Current Operations

Currently, approximately 6,000 square feet are occupied by S & W Commercial Laundry. S & W is involved solely with the washing and pressing of shirts. No dry cleaning is performed at the subject property.

The laundry operations do not involve the use or storage of hazardous or toxic waste. The only products stored on site are detergents, powdered bleach and starch. All wash water is discharged to the municipal sewer.

The body shop occupies approximately 5,500 square feet. Approximately 2,000 square feet is common space. The shop area contains a spray paint booth, and a work area, where repairs are made to auto bodies. The body shop uses paints and primers, as well as solvents. Stored on site are between 10 to 15 five-gallon cans of paint and pigments. Solvents are stored in five- and one-gallon cans. All residuals are disposed of by a commercial carter and are recycled.

There are no floor drains in the building, nor are there any cesspools or dry wells located on the property.

### III. SITE HYDROGEOLOGY

The groundwater flow in the vicinity of the subject property is generally south, southeast. The groundwater depth is estimated to be between 5 and 10 feet below surface grade level. Soils and unconsolidated glacial sediments consisting primarily of sand, gravel with intermittent layers of silt and clay underlie this area. The upper glacial aquifer underlies this area. Due to the unknown occurrences of these clay and silt layers within this aquifer the site specific groundwater flow direction is unknown.

### IV. REVIEW OF NEW YORK STATE DEC SPILL LOGS

The following is a list of spills that have occurred at the subject property and the adjacent property. It was obtained from the NYSDEC spill logs for Region 1.

<u>Spill #</u>	<u>Date</u>	<u>Material</u>	<u>Cause</u>	<u>Status</u>
8704541	9/1/87	unknown	human error	closed
8902754	6/16/89	#2 fuel	traffic accident	closed
*9006563	9/14/90	solvent	tank failure	open
8600654	4/25/86	unknown	unknown	closed
*8701730	6/1/87	unknown	dumping	closed
9008151	10/25/90	diesel oil	tank test failure	closed
8810077	3/29/89	unknown	unknown	closed

\*occurred at the subject property

The NYSDEC spill logs for Region 1 indicates that two spills occurred at the subject property. One occurred on September 14, 1990 involving the excavation of the tank on the subject property. This spill file is still open and is being addressed by the proposed investigation.

A spill was reported in 1987, resulting from the dumping of unknown material at the subject property; this spill file is currently closed.

Spill #9008151, occurred at the Konica site and resulted from the failure of a tank test performed on diesel fuel.

#### V. PAST REMEDIATION

Between September 14, 1990 and January 9, 1991 Tank Specialists of Glen Cove, New York removed the four buried solvent tanks, as well as the 1,000-gallon abandoned gasoline tank. In addition, approximately 2,500 gallons of non-hazardous liquid were removed from the solvent tanks, as well as a non-specific amount of non-hazardous liquid from the abandoned gasoline tank (see Appendix A, Tank Specialists records and lab reports).

Approximately 25 to 30 yards of contaminated soils were excavated from the area that contained the buried gasoline tank, and piled on site. Nassau County Health Department obtained soil samples from areas where the tanks (both gasoline and solvent) were previously located. Laboratory analysis of these soil samples indicated the soils from the gasoline tank excavation were contaminated by constituents of gasoline. The soil samples initially obtained from the area of the solvent tank excavation by Nassau County Health Department were free of contamination (see Appendix B). However, recent testing of the soils in this area by EEA indicated that soil contamination exists (see below).

VI. RESULTS OF RECENT TESTING AT THE  
SUBJECT PROPERTY

A. OVA Testing

Soils in the area, which contained the buried gasoline tanks, were tested on July 15, 1992. The soils in the previously excavated areas were tested in the field with an Organic Vapor Analyzer -- Foxboro Century 128 Gas Analyzer (OVA).

Samples of the soil were placed in an eight-ounce jar to the half-way point. The jar was then sealed and shaken to allow any trapped vapor within the pore space to occupy the head space in the jar. The jars were then placed in the path of vehicle heater vents for at least 10 minutes. The jar cover was slit, and the headspace gas injected directly into the intake of the OVA prob for a reading of the total non-methane organic vapor concentration. The locations are shown in Figure 3. The OVA readings were as follows:

OVA Reading

Location 1 - 80 ppm  
Location 2 - 140 ppm

B. Soil and Water Testing (Area of Buried Solvent Tanks)

Three soil samples and one water sample were obtained from the area that contained the buried solvent tank. The laboratory data sheets are enclosed in Appendix C, and the results are tabulated below.

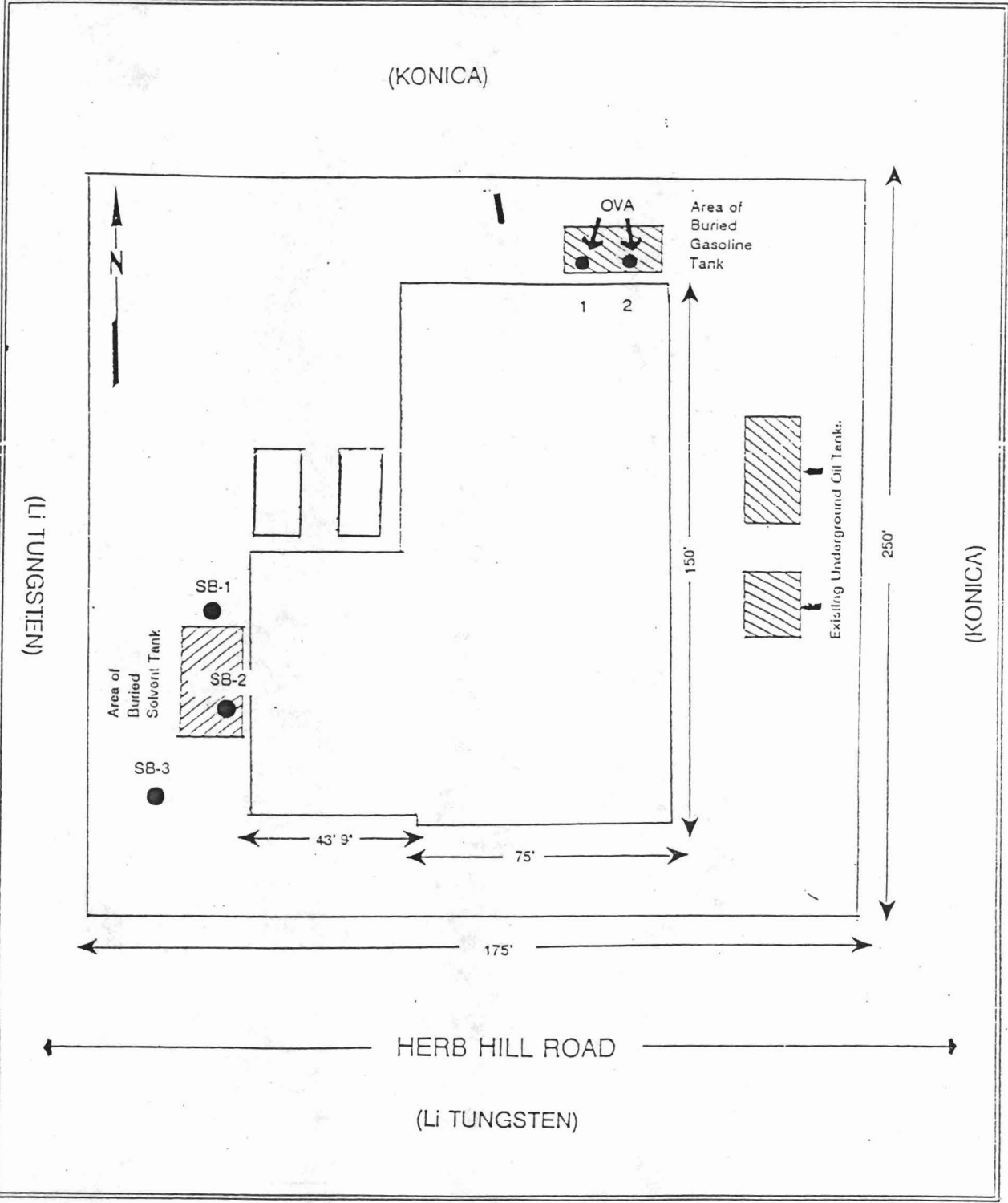
Compounds Detected (ppb)

<u>Boring I.D.</u>	<u>Depth</u>	<u>Compounds</u>
SB-1	3 ft.	t-1,2 Dichloroethene (26) Trichloroethene (40) Tetrachloroethene (110) Ethyl Benzene (61) Total o Xylene (370) Petrol. Hydrocarbons (220 ppm) *
SB-2	3 ft.	Ethyl Benzene (20) Total Xylene (250) Petroleum Hydrocarbons (240)
SB-3	3 ft.	Petroleum Hydrocarbons (37 ppm) *



Water Sample (ppb)

Vinyl chloride (60)  
12 Dichloroethene (650)



Plot Plan of Property  
(not drawn to scale)

Figure 1

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912516/1

07/29/91

Energy &amp; Environmental Analysts, Inc.

55 Hilton Ave.

Garden City, NY 11530

ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Pond, #91718

COLLECTED BY: Client

DATE COL'D: 07/15/91 RECEIVED: 07/15/91

SAMPLE: Soil sample, SB-1, 3 ft., 9:15 am

## ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<20
Vinyl Chloride	ug/Kg	<20
Bromomethane	ug/Kg	<20
Chloroethane	ug/Kg	<20
Trichlorofluomethane	ug/Kg	<20
11 Dichloroethene	ug/Kg	<20
Methylene Chloride	ug/Kg	<20
t-1,2-Dichloroethene	ug/Kg	26
11 Dichloroethane	ug/Kg	<20
Chloroform	ug/Kg	<20
111 Trichloroethane	ug/Kg	<20
Carbon Tetrachloride	ug/Kg	<20
Benzene	ug/Kg	<20
12 Dichloroethane	ug/Kg	<20
Trichloroethene	ug/Kg	40
12 Dichloropropane	ug/Kg	<20
Bromodichloromethane	ug/Kg	<20
2chloroethvinylether	ug/Kg	<20
t 13 Dichloropropene	ug/Kg	<20
Toluene	ug/Kg	<20
c 13 Dichloropropene	ug/Kg	<20
112 Trichloroethane	ug/Kg	<20
Tetrachloroethene	ug/Kg	110
Chlorodibromomethane	ug/Kg	<20
Chlorobenzene	ug/Kg	<20

## ANALYTICAL PARAMETERS

Ethyl Benzene	ug/Kg	61
m + p Xylene	ug/Kg	140
o Xylene	ug/Kg	230
Bromoform	ug/Kg	<20
1122Tetrachloroethan	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<20
p Dichlorobenzene	ug/Kg	<20
o Dichlorobenzene	ug/Kg	<20
Petrol. Hydrocarbons	mg/Kg	220

cc:

REMARKS: Analysis performed by EPA method 8240.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912516/2

07/29/91

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530  
ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Pond, #91718  
COLLECTED BY: Client      DATE COL'D: 07/15/91 RECEIVED: 07/15/91

SAMPLE: Soil sample, SB-2, 3 ft., 9:30 am

## ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<20
Vinyl Chloride	ug/Kg	<20
Bromomethane	ug/Kg	<20
Chloroethane	ug/Kg	<20
Trichlorofluomethane	ug/Kg	<20
11 Dichloroethene	ug/Kg	<20
Methylene Chloride	ug/Kg	<20
t-1,2-Dichloroethene	ug/Kg	<20
11 Dichloroethane	ug/Kg	<20
Chloroform	ug/Kg	<20
111 Trichloroethane	ug/Kg	<20
Carbon Tetrachloride	ug/Kg	<20
Benzene	ug/Kg	<20
12 Dichloroethane	ug/Kg	<20
Trichloroethene	ug/Kg	<20
12 Dichloropropane	ug/Kg	<20
Bromodichloromethane	ug/Kg	<20
2chloroethvinylether	ug/Kg	<20
t 13 Dichloropropene	ug/Kg	<20
Toluene	ug/Kg	<20
c 13 Dichloropropene	ug/Kg	<20
112 Trichloroethane	ug/Kg	<20
Tetrachloroethene	ug/Kg	<20
Chlorodibromomethane	ug/Kg	<20
Chlorobenzene	ug/Kg	<20

## ANALYTICAL PARAMETERS

Ethyl Benzene	ug/Kg	20
m + p Xylene	ug/Kg	110
o Xylene	ug/Kg	140
Bromoform	ug/Kg	<20
1122Tetrachloroethan	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<20
p Dichlorobenzene	ug/Kg	<20
o Dichlorobenzene	ug/Kg	<20
Petrol. Hydrocarbons	mg/Kg	240

cc:

REMARKS: Analysis performed by EPA method 8240.

DIRECTOR \_\_\_\_\_  


377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912516/3

07/29/91

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530

ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Pond, #91718  
COLLECTED BY: Client      DATE COL'D: 07/15/91 RECEIVED: 07/15/91

SAMPLE: Soil sample, SB-3, 3 ft., 9:45 am

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<20
Vinyl Chloride	ug/Kg	<20
Bromomethane	ug/Kg	<20
Chloroethane	ug/Kg	<20
Trichlorofluomethane	ug/Kg	<20
11 Dichloroethene	ug/Kg	<20
Methylene Chloride	ug/Kg	<20
t-1,2-Dichloroethene	ug/Kg	<20
11 Dichloroethane	ug/Kg	<20
Chloroform	ug/Kg	<20
111 Trichloroethane	ug/Kg	<20
Carbon Tetrachloride	ug/Kg	<20
Benzene	ug/Kg	<20
12 Dichloroethane	ug/Kg	<20
Trichloroethene	ug/Kg	<20
12 Dichloropropane	ug/Kg	<20
Bromodichloromethane	ug/Kg	<20
2chloroethvinylether	ug/Kg	<20
t 13 Dichloropropene	ug/Kg	<20
Toluene	ug/Kg	<20
c 13 Dichloropropene	ug/Kg	<20
112 Trichloroethane	ug/Kg	<20
Tetrachloroethene	ug/Kg	<20
Chlorodibromomethane	ug/Kg	<20
Chlorobenzene	ug/Kg	<20

ANALYTICAL PARAMETERS

Ethyl Benzene	ug/Kg	<20
m + p Xylene	ug/Kg	<20
o Xylene	ug/Kg	<20
Bromoform	ug/Kg	<20
1122Tetrachloroethan	ug/Kg	<20
m Dichlorobenzene	ug/Kg	<20
p Dichlorobenzene	ug/Kg	<20
o Dichlorobenzene	ug/Kg	<20
Petrol. Hydrocarbons	mg/Kg	37

cc:

REMARKS: Analysis performed by EPA method 8240.

DIRECTOR \_\_\_\_\_



# ECOTEST LABORATORIES, INC.

## ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912516/4

07/29/91

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530

ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Pond, #91718  
COLLECTED BY: Client      DATE COL'D: 07/15/91      RECEIVED: 07/15/91

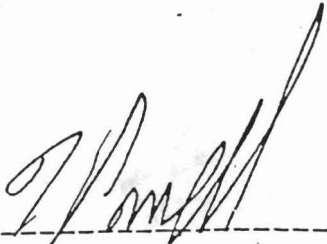
SAMPLE: Water sample, GW-1, 11:00

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<5
Bromomethane	ug/L	<5
Dichlorodifluomethane	ug/L	<10
Vinyl Chloride	ug/L	60
Chloroethane	ug/L	<5
Methylene Chloride	ug/L	<5
Trichlorofluomethane	ug/L	<10
11 Dichloroethene	ug/L	<5
11 Dichloroethane	ug/L	<5
12 Dichloroethene	ug/L	650
Chloroform	ug/L	<5
12 Dichloroethane	ug/L	<5
111 Trichloroethane	ug/L	<5
Carbon Tetrachloride	ug/L	<5
Bromodichloromethane	ug/L	<5
12 Dichloropropane	ug/L	<5
t 13 Dichloropropene	ug/L	<10
Trichloroethylene	ug/L	<5
Chlorodibromomethane	ug/L	<10
112 Trichloroethane	ug/L	<10
c 13 Dichloropropene	ug/L	<10
2chloroethvinylether	ug/L	<10
Bromoform	ug/L	<10
1122Tetrachloroethan	ug/L	<10
Tetrachloroethene	ug/L	<5

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<10
13 Dichlorobenzene	ug/L	<10
12 Dichlorobenzene	ug/L	<10
14 Dichlorobenzene	ug/L	<10
Benzene	ug/L	<5
Toluene	ug/L	<10
Ethyl Benzene	ug/L	<5
m Xylene	ug/L	<10
o+p Xylene	ug/L	<20

cc:

REMARKS:

DIRECTOR \_\_\_\_\_  


March 18, 1992

Mr. Joseph Haas  
Engineering Geologist  
New York State Department  
of Environmental Conservation  
SUNY, Bldg. No. 40  
Stony Brook, New York 11794

Re: Spill No. 90-06563  
66 Herhill Road  
Glen Cove, New York

RECEIVED

MAR 25 1992

REG. 1  
IN SPILL

Dear Mr. Haas:

Three monitoring wells were installed at the subject property. The wells were installed as specified in EEA's revised work plan (act 1991) on February 11, 1992. The wells were developed and sampled on February 20, 1992. The Groundwater Sampling Data Sheets and the Monitoring Well Construction Information Sheets are presented in each for each monitoring well.

Water samples were obtained from each well. The results of the analysis are presented below and in the Laboratory Data Sheets and the Chain of Custody.

<u>Compounds Detected in Monitoring</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>
Vinyl chloride	330	--	--
T-1,2 dichlorethene	94	--	--
Trichloroethene	4,000	--	--
Tetrachloroethene	11,000	71	2
O-xylene	4	--	--
Choroform	--	7*	--

A Field Blank and Duplicate Sample at MW-1 was also collected and analyzed. Choroform was present in the Field Blank.

The results of the laboratory analysis indicate that groundwater contamination has occurred due to the buried cleaning fluid tanks that were excavated and removed from the property in November of 1990.

MAP OF PROPERTY  
 BLOCK AS SHOWN  
 LOT AS SHOWN  
 LOCATION GLEN COVE, NASSAU COUNTY, NEW YORK  
 CERTIFIED ONLY TO  
 DATE 9-27-91

NOT RESPONSIBLE FOR EASEMENTS AND SURFACE CONDITIONS OTHER THAN SHOWN

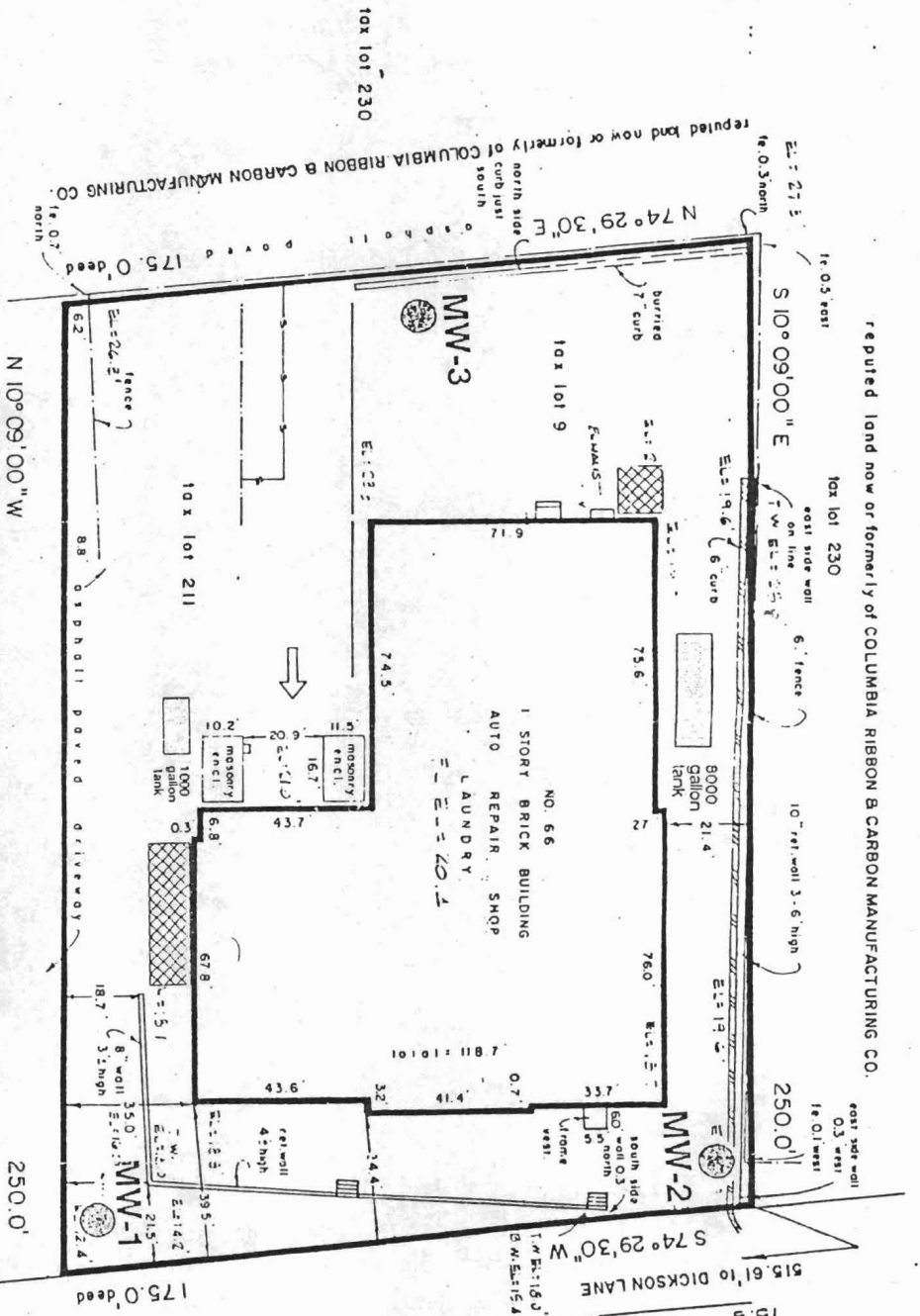
Excavated area

DICKSON STREET  
 DICKSON LANE

LAND SURVEYOR  
 GARDEN CITY PARK, N. Y.  
 N. Y. S. LIC. NO. 45017



OFFSETS & DIMENSIONS SHOWN ARE TO BE USED FOR THE REMOVAL, REDUCTION OR LAYOUT OF FENCES, HEDGES, CURBS WALLS OR ANY STRUCTURES



HERBHILL ROAD  
 GARNEYS POINT ROAD



POWERS  
CHEMCO

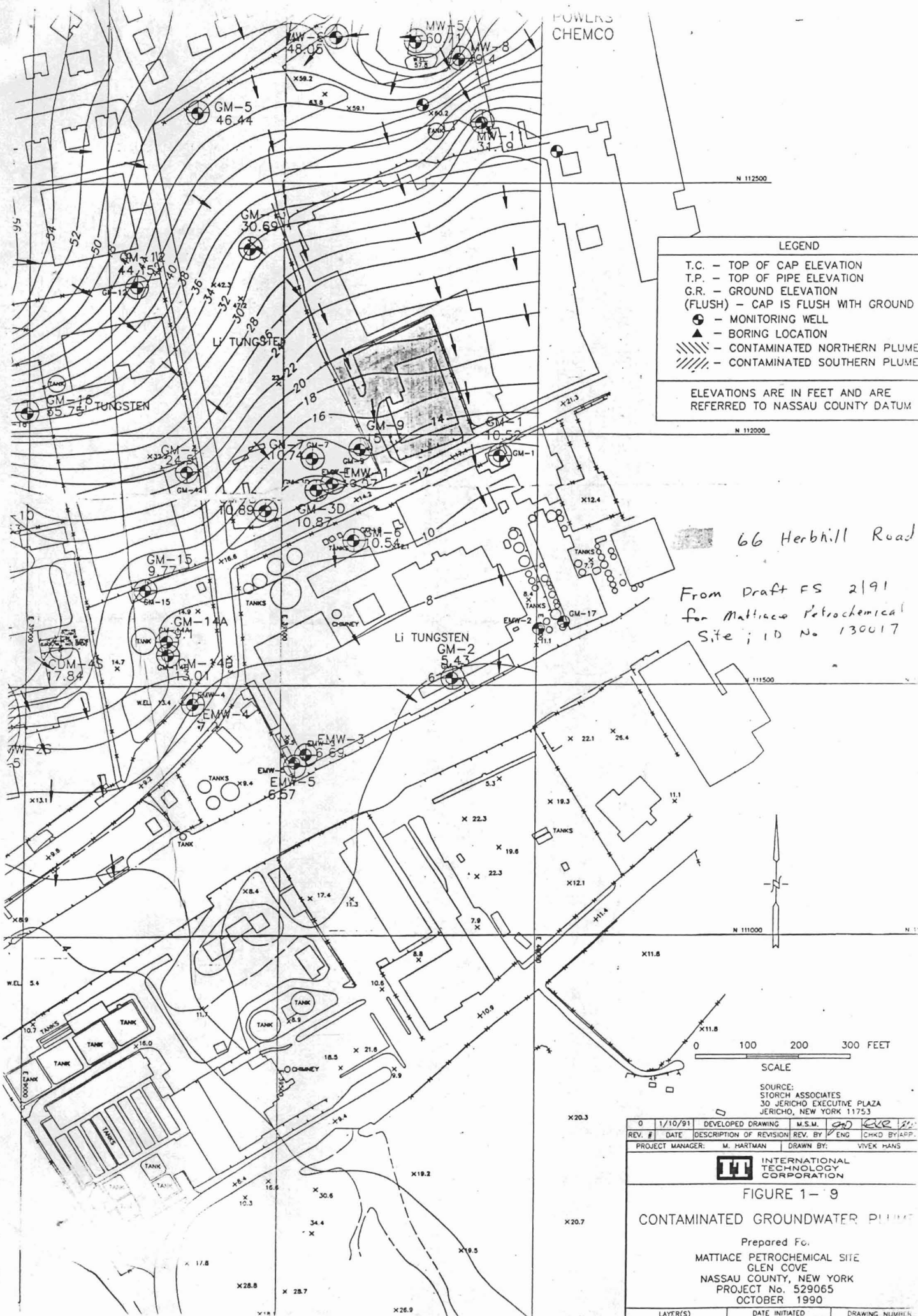
**LEGEND**

T.C. - TOP OF CAP ELEVATION  
 T.P. - TOP OF PIPE ELEVATION  
 G.R. - GROUND ELEVATION  
 (FLUSH) - CAP IS FLUSH WITH GROUND

● - MONITORING WELL  
 ▲ - BORING LOCATION

▨ - CONTAMINATED NORTHERN PLUME  
 ▩ - CONTAMINATED SOUTHERN PLUME

ELEVATIONS ARE IN FEET AND ARE REFERRED TO NASSAU COUNTY DATUM



66 Herhill Road

From Draft FS 2/91  
 for Maticce Petrochemical  
 Site; ID No 130017

0	1/10/91	DEVELOPED DRAWING	M.S.M.	ENG	CHKD BY APP.
REV. #	DATE	DESCRIPTION OF REVISION	REV. BY	ENG	CHKD BY APP.
PROJECT MANAGER:		M. HARTMAN	DRAWN BY:		VIVEK HANS

**INTERNATIONAL TECHNOLOGY CORPORATION**

**FIGURE 1- 9**

**CONTAMINATED GROUNDWATER PLUME**

Prepared For:  
 MATTIACE PETROCHEMICAL SITE  
 GLEN COVE  
 NASSAU COUNTY, NEW YORK  
 PROJECT No. 529065  
 OCTOBER 1990

LAYER(S)	DATE INITIATED	DRAWING NUMBER
----------	----------------	----------------

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C920632/1

03/06/92

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530

ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Associates, Project No. 91718  
COLLECTED BY: Client DATE COL'D: 02/20/92 RECEIVED: 02/21/92

SAMPLE: Water sample, MW-1, 11:30 am

## ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Vinyl Chloride	ug/L	330
Bromomethane	ug/L	<1
Chloroethane	ug/L	<1
Trichlorofluomethane	ug/L	<1
11 Dichloroethene	ug/L	<1
Methylene Chloride	ug/L	<1
t-1,2-Dichloroethene	ug/L	94
11 Dichloroethane	ug/L	<1
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Benzene	ug/L	<1
12 Dichloroethane	ug/L	<1
Trichloroethene	ug/L	4000
12 Dichloropropane	ug/L	<1
Bromodichloromethane	ug/L	<1
2chloroethvinylether	ug/L	<1
t 13 Dichloropropene	ug/L	<1
Toluene	ug/L	1
c 13 Dichloropropene	ug/L	<1
112 Trichloroethane	ug/L	<1
Tetrachloroethene	ug/L	11000
Chlorodibromomethane	ug/L	<1
Chlorobenzene	ug/L	<1

## ANALYTICAL PARAMETERS

Ethyl Benzene	ug/L	<1
m + p Xylene	ug/L	<2
o Xylene	ug/L	4
Bromoform	ug/L	<1
1122Tetrachloroethan	ug/L	<1
m Dichlorobenzene	ug/L	<1
p Dichlorobenzene	ug/L	<1
o Dichlorobenzene	ug/L	<1

CC:

REMARKS: Analysis performed by EPA method 624.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C920632/4

03/06/92

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530  
ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Associates, Project No. 91718  
COLLECTED BY: Client DATE COL'D: 02/20/92 RECEIVED: 02/21/92

SAMPLE: Water sample, MW-2, 11:45 am

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Bromomethane	ug/L	<1
Chloroethane	ug/L	<1
Trichlorofluomethane	ug/L	<1
11 Dichloroethene	ug/L	<1
Methylene Chloride	ug/L	<1
t-1,2-Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
Chloroform	ug/L	7
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Benzene	ug/L	<1
12 Dichloroethane	ug/L	<1
Trichloroethene	ug/L	<1
12 Dichloropropane	ug/L	<1
Bromodichloromethane	ug/L	<1
2chloroethvinylether	ug/L	<1
t 13 Dichloropropene	ug/L	<1
Toluene	ug/L	<1
c 13 Dichloropropene	ug/L	<1
112 Trichloroethane	ug/L	<1
Tetrachloroethene	ug/L	71
Chlorodibromomethane	ug/L	<1
Chlorobenzene	ug/L	<1

ANALYTICAL PARAMETERS

Ethyl Benzene	ug/L	<1
m + p Xylene	ug/L	<2
o Xylene	ug/L	<1
Bromoform	ug/L	<1
1122Tetrachloroethan	ug/L	<1
m Dichlorobenzene	ug/L	<1
p Dichlorobenzene	ug/L	<1
o Dichlorobenzene	ug/L	<1

cc:

REMARKS: Analysis performed by EPA method 624.

  
DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C920632/5

03/06/92

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530  
ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Associates, Project No. 91718  
COLLECTED BY: Client DATE COL'D: 02/20/92 RECEIVED: 02/21/92

SAMPLE: Water sample, MW-3, 13:00 pm

## ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Bromomethane	ug/L	<1
Chloroethane	ug/L	<1
Trichlorofluomethane	ug/L	<1
11 Dichloroethene	ug/L	<1
Methylene Chloride	ug/L	<1
t-1,2-Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
Chloroform	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Benzene	ug/L	<1
12 Dichloroethane	ug/L	<1
Trichloroethene	ug/L	<1
12 Dichloropropane	ug/L	<1
Bromodichloromethane	ug/L	<1
2chloroethvinylether	ug/L	<1
t 13 Dichloropropene	ug/L	<1
Toluene	ug/L	<1
c 13 Dichloropropene	ug/L	<1
112 Trichloroethane	ug/L	<1
Tetrachloroethene	ug/L	2
Chlorodibromomethane	ug/L	<1
Chlorobenzene	ug/L	<1

## ANALYTICAL PARAMETERS

Ethyl Benzene	ug/L	<1
m + p Xylene	ug/L	<2
o Xylene	ug/L	<1
Bromoform	ug/L	<1
1122Tetrachloroethan	ug/L	<1
m Dichlorobenzene	ug/L	<1
p Dichlorobenzene	ug/L	<1
o Dichlorobenzene	ug/L	<1

cc:

REMARKS: Analysis performed by EPA method 624.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C920632/3

03/06/92

Energy & Environmental Analysts, Inc.  
55 Hilton Ave.  
Garden City, NY 11530

ATTN: Nicholas Recchia

SOURCE OF SAMPLE: Herb Hill Associates, Project No. 91718  
COLLECTED BY: Client DATE COL'D: 02/20/92 RECEIVED: 02/21/92

SAMPLE: Water sample, MW-1B, Field Blank, 11:30

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Bromomethane	ug/L	<1
Chloroethane	ug/L	<1
Trichlorofluomethane	ug/L	<1
11 Dichloroethene	ug/L	<1
Methylene Chloride	ug/L	<1
t-1,2-Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
Chloroform	ug/L	33
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Benzene	ug/L	<1
12 Dichloroethane	ug/L	<1
Trichloroethene	ug/L	<1
12 Dichloropropane	ug/L	<1
Bromodichloromethane	ug/L	4
2chloroethvinylether	ug/L	<1
t 13 Dichloropropene	ug/L	<1
Toluene	ug/L	<1
c 13 Dichloropropene	ug/L	<1
112 Trichloroethane	ug/L	<1
Tetrachloroethene	ug/L	<1
Chlorodibromomethane	ug/L	<1
Chlorobenzene	ug/L	<1

ANALYTICAL PARAMETERS

Ethyl Benzene	ug/L	<1
m + p Xylene	ug/L	<2
o Xylene	ug/L	<1
Bromoform	ug/L	<1
1122Tetrachloroethan	ug/L	<1
m Dichlorobenzene	ug/L	<1
p Dichlorobenzene	ug/L	<1
o Dichlorobenzene	ug/L	<1

cc:

REMARKS: Analysis performed by EPA method 624.

DIRECTOR 